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Air pollutants and development of interstitial lung disease in patients with connective tissue disease: a population-based study

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1 **Air pollutants and development of interstitial lung disease in patients**
2 **with connective tissue disease: a population-based study**

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20 35 **Running title: Air pollutants and CTD-ILD**
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3 **37 Abstract**

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6 **38 Objective:**

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9 **39** The aim of this study was to assess the association between air pollutant exposure and
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12 **40** interstitial lung disease (ILD) in patients with connective tissue diseases (CTDs).

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15 **41 Setting:**

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18 **42** A nationwide, population-based, matched case-control study in Taiwan

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21 **43 Participants:**

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24 **44** Using the 1997–2013 Taiwanese National Health Insurance Research Database, we
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27 **45** identified patients with newly diagnosed CTD during 2001–2013, including systemic
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30 **46** lupus erythematosus (SLE), rheumatoid arthritis (RA), systemic sclerosis (SSc),
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33 **47** dermatomyositis (DMtis)/polymyositis (PM) and primary Sjögren's syndrome (pSS).

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36 **48 Primary and secondary outcome measures**

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39 **49** Patients with newly diagnosed ILD during 2012–2013 were identified as ILD cases,
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41
42 **50** and selected CTD patients without ILD matching (1:4) the CTD cases for CTD
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44
45 **51** diagnosis, age, gender, disease duration and year of ILD diagnosis date were
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47
48 **52** identified as non-ILD controls. Data of hourly level of air pollutants 1 year before the
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51 **53** index date were obtained from Taiwan Environmental Protection Agency. The
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54 **54** association between ILD and air pollutant exposure was evaluated using logistic
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57 **55** regression analysis shown as adjusted odds ratios (aORs) with 95% confidence
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59
60 **56** intervals (CIs) after adjusting for potential confounders.

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3 57 **Results:** We identified 495 newly diagnosed CTD-ILD patients, including 81 with
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6 58 SLE, 208 with RA, 48 with SSc, 41 with DMtis/PM and 117 with pSS. O₃ exposure
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9 59 (per 10 ppb) was associated with a decreased ILD risk in patients with RA (aOR,
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12 60 0.33; 95% CI, 0.12–0.86) and SSc (aOR, 0.03; 95% CI, 0.00–0.41) after adjusting for
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15 61 potential confounders.

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18 62 **Conclusions:** A previously unrecognised inverse correlation was found between O₃
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21 63 exposure and ILD in patients with RA and SSc. Further studies are warranted to
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24 64 explore the underlying mechanisms.

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27 65 **Keywords:** air pollutant, ozone, interstitial lung disease, connective tissue disease
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3 **67 Strengths and limitations of this study**
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- 6 68 1.This study uses two nationwide databases to address the association between
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9 69 exposure to air pollutants and the development of interstitial lung disease (ILD) in
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12 70 patients with connective tissue disease (CTD).
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15 71 2.In this population-based study, we found that exposure to ozone (O₃) was inversely
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18 72 associated with the incident CTD-ILD among patients with CTD in Taiwan.
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21 73 3.The present study highlights a previously unrecognized inverse association between
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24 74 O₃ and incident CTD-ILD and warrants further mechanistic study.
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27 75 4.The selection bias of this population-based study using claim data is minimal;
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30 76 however, the disease activity of CTD cannot be assessed.
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78 **Background**

79 Interstitial lung disease (ILD) is characterised by progressive inflammation and
80 fibrosis, and accumulating evidence has demonstrated an association between
81 exposure to air pollutants and the development and disease course of ILD.^{1 2}
82 Autoimmune rheumatic diseases show a strong correlated with ILD, including
83 connective tissue disease-associated ILD (CTD-ILD) as well as interstitial pneumonia
84 with autoimmune features; furthermore, the development of CTD-ILD has been
85 reported to be an important cause of morbidity and mortality in patients with CTD.^{3 4}
86 A recent Taiwanese study reported that exposure to air pollutants, primarily nitrogen
87 dioxide (NO₂), was associated with incident systemic lupus erythematosus (SLE).⁵
88 Given that exposure to air pollutants has been implicated in ILD and CTD, there is a
89 need to investigate the association between exposure to air pollutants and CTD-ILD.

90 Among the distinct air pollutants, ozone (O₃) is generated through chemical
91 reactions, the so-called quenching reaction, among pollutants, primarily oxides of
92 nitrogen, in the presence of sunlight.⁶ Previous studies have reported an association
93 between exposure to O₃ and the risk of acute exacerbation as well as poor pulmonary
94 function in patients with idiopathic pulmonary fibrosis (IPF).^{7 8} However, numerous
95 recent studies have demonstrated that O₃ exposure appeared to have an inverse
96 correlation with incident ILDs, and the quenching effect by O₃ might possibly
97 underlie this intriguing correlation.^{2 9 10} The aforementioned evidence indicates the

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3 98 complex association between exposure to air pollutants, particularly O₃, and ILD.
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6 99 Therefore, there is a crucial need to address the impact of exposure to air pollutants
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9 100 on the development of ILD among patients with CTD. The Taiwanese National
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12 101 Health Insurance Research Database (NHIRD) has facilitated population-based
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15 102 epidemiological studies. Therefore, in the present study, we aimed to conduct a
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18 103 population-based case-control study to explore the association between ILD
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21 104 development and exposure to air pollutants in patients with CTDs, including SLE,
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24 105 rheumatoid arthritis (RA), systemic sclerosis (SSc), dermatomyositis
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27 106 (DMtis)/polymyositis (PM) and primary Sjögren's syndrome (pSS), using the
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30 107 NHIRD.
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3 109 **METHODS**
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6 110 **Ethics approval**
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9 111 This study was approved by the Institutional Review Board of Taichung Veterans

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12 112 General Hospital, Taiwan (IRB number: CE14149B-3). Informed consent was waived

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15 113 as all the data used for analyses were de-identified.
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18 114 **Study design**
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21 115 This research was a nationwide, population-based, matched case-control study.
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24 116 **Data source**
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27 117 Taiwan had launched a single-payer, compulsory National Health Insurance

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29 118 programme in 1995, with a nationwide coverage of up to 99.6% of Taiwan's

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32 119 population in 2015.¹¹ The NHIRD contains all-inclusive claims data regarding

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34 120 information on registration, demographic characteristics, residence, medication

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36 121 prescription, diagnosis, examinations, procedures, surgeries, medical expenditure,

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38 122 outpatient services, inpatient services and medication prescription. The NHIRD also

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40 123 registered all patients with major illnesses such as CTDs and malignancies in the

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42 124 catastrophic illness registry in case the catastrophic illness-related diagnoses were

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44 125 validated by two independent specialists through a detailed review of patients'

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46 126 original medical records. A catastrophic illness certificate is then issued to these

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48 127 patients, who are then exempt from expenses for medical services. In the present

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50 128 study, we used multiple files, including registration file, ambulatory file, inpatient file
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3 129 and catastrophic illness registry file, in the NHIRD from 1997 to 2013. The accuracy
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6 130 of the claims data from the NHIRD has been improved by regularly auditing the
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9 131 original medical records. The NHIRD was managed by the National Health Research
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12 132 Institute and was released for research purpose after the encryption of personal
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15 133 information.

18 134 **Identification of patients with CTD from the entire population in Taiwan**

20
21 135 We used the 1997–2013 NHIRD to identify patients with CTDs who were registered
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24 136 in the catastrophic illness registry between 2001 and 2013 for newly diagnosed CTDs,
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26
27 137 including SLE (International Classification of Diseases, Ninth Revision, Clinical
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30 138 Modification [ICD-9-CM] code 710.0), RA (ICD-9-CM codes 714.0 and
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33 139 714.30–714.33), SSc (ICD-9-CM code 710.1), DMtis (ICD-9-CM code 710.3), PM
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36 140 (ICD-9-CM code 710.4) or pSS (ICD-9-CM code, 710.2). The date of CTD diagnosis
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39 141 was defined as the date of initial application for catastrophic illness certificate for the
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42 142 corresponding CTD. From patients with CTD, we included those who did not have
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45 143 overlapping CTD diagnoses and those who did not have any ambulatory or inpatient
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48 144 visit with a diagnosis of ILD (ICD-9 code 515) or idiopathic interstitial pneumonia
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51 145 before the time of CTD diagnosis as the CTD cohort.

54 146 **Identification of ILD cases from the CTD cohort**

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57 147 We identified those who had a new diagnosis of ILD (ICD-9 code 515) after the CTD
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60 148 diagnosis date during 2012–2013 as ILD cases. The index date was defined as the

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3 149 date of first ambulatory or inpatient visit with a diagnosis of ILD.
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6 150 **Selection of matched non-ILD controls from the CTD cohort**
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9 151 From the CTD cohort, we randomly selected those who never had a diagnosis of ILD
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12 152 matching (1:4) the ILD cases for sex, age (± 4 years), disease duration (± 4 years) and
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15 153 the year of index date as non-ILD controls.
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18 154 **Measurement of exposure to air pollutants**
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21 155 The hourly levels of air pollutants 1 year before the index date were obtained from 60
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24 156 air quality monitoring stations across Taiwan, and the air pollutants included in the
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27 157 present study consisted of particulate matter $< 2.5 \mu\text{m}$ in size (PM_{2.5}), particulate
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30 158 matter $< 10 \mu\text{m}$ in size (PM₁₀), nitrogen dioxide (NO₂), carbon monoxide (CO),
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33 159 sulphur dioxide (SO₂) and ozone (O₃).¹² The ambient air pollutant concentrations at
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36 160 each residential location were estimated using a spatio-temporal model built via a
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39 161 deep-learning approach.¹³ In brief, the ambient level of air pollutants at 374
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42 162 residential locations across Taiwan was estimated based on the data of three air
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45 163 quality monitoring stations near the location.
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48 164 **Potential confounders**
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51 165 Potential confounders that were adjusted for in the multivariable logistic regression
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54 166 model included age, gender, disease duration, Charlson comorbidity index (CCI), use
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57 167 of biological disease-modifying anti-rheumatic drugs (bDMARDs), use of
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60 168 conventional synthetic DMARDs (csDMARDs), use of immunosuppressants,

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3 169 glucocorticoid dose (average daily prednisolone equivalent dose), urbanisation level
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6 170 of the patient's residence and the level of payroll-related insured amount. The
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9 171 presence of comorbidity was defined as the presence of one or more inpatient visits or
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12 172 at least three ambulatory visits with a corresponding ICD-9-CM code within 1 year
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15 173 before the index date. The CCI revised by Deyo *et al.* was applied to analyse the
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18 174 general comorbid medical condition.¹⁴ In Taiwan, the available bDMARDs before 31
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21 175 December 2013 were anti-tumour necrosis factor (anti-TNF, including etanercept,
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24 176 adalimumab and golimumab), tocilizumab (TCZ) and rituximab (RTX). The
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27 177 csDMARDs included hydroxychloroquine (HCQ), sulphasalazine (SSZ),
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30 178 methotrexate (MTX) and leflunomide (LEF). Immunosuppressants included
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33 179 cyclophosphamide (CP), cyclosporin (CSA), azathioprine (AZA) and mycophenolate
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36 180 mofetil (MMF)/mycophenolic acid (MPA). Given that socioeconomic status might
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39 181 confound the association between air pollutant exposure and pulmonary diseases, we
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42 182 measured the socioeconomic status of each participant based on the urbanisation level
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45 183 and payroll-related insured amount.¹⁵ The urbanisation level of the patient's residence
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48 184 was categorised into four clusters based on population density (people/km²),
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51 185 population ratio of elderly subjects aged >65 years, population ratio of subjects with
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54 186 educational levels of college or above, population ratio of agricultural workers and the
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57 187 number of physicians/100,000 subjects.¹⁶ Payroll-related insured amount was
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60 188 transformed into categorical variable with four levels based on quantiles.

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3 **189 Statistical analyses**
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6 **190** Data are represented as the number of patients (%) for categorical variables and either
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9 **191** mean \pm standard deviation for continuous variables. Categorical variables were
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12 **192** compared using the χ^2 test or the Fisher's exact test, and continuous variables were
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15 **193** compared using the *t*-test. The association between the risk of ILD development and
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18 **194** the exposure to air pollutants was examined using a multivariable conditional logistic
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21 **195** regression analysis after adjusting for age, gender, CCI, urbanisation level, level of
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24 **196** payroll-related insured amount and medications for CTD and is represented as
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27 **197** adjusted odds ratio (aOR) with 95% confidence intervals (CIs). All data were
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30 **198** analysed using the statistical software version 9.3 (SAS Institute, Inc., Cary, NC,
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33 **199** USA). A p value <0.05 was considered as statistically significant.
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201 RESULTS

202 Study subjects with CTDs

203 A total of 495 patients with CTD-ILD were included in this study, consisting of 81
204 with SLE, 208 with RA, 48 with SSc, 41 with DMtis/PM and 117 with pSS. A total
205 of 1980 patients were selected as matched non-ILD CTD controls. As shown in
206 Table 1, patients with CTD-ILD and the non-ILD CTD controls had similar
207 distributions of age, gender and disease duration. Compared with the non-ILD
208 controls, patients with ILD had a higher CCI (1.8 ± 1.5 vs 1.4 ± 1.4 , $p < 0.01$),
209 received a higher dose of glucocorticoid (GC) (0.6 ± 2.1 vs 0.2 ± 0.8 mg/day,
210 prednisolone equivalent dose) and were more likely to use MTX (30.5% vs 24.1%, p
211 < 0.01), LEF (8.9% vs 5.2%, $p < 0.01$), HCQ (60.8% vs 53.2%, $p < 0.01$), CSA
212 (21.4% vs 13.9%, $p < 0.01$), AZA (5.5% vs 2.6%, $p < 0.01$), CP (12.9% vs 9.3%, $p =$
213 0.02), MMF/MPA (5.1% vs 2.5%, $p < 0.01$) and anti-TNF (30.5% vs 24.1%, $p < 0.01$).
214 The socioeconomic status, including the urbanisation level and the level of
215 payroll-related insured amount, tended to be similar between patients with ILD and
216 the non-ILD controls. Regarding the exposure to air pollutants, patients with ILD had
217 a slightly lower average exposure to PM_{2.5} (3.0 ± 0.6 vs 3.1 ± 0.7 $\mu\text{g}/\text{m}^3$, $p < 0.01$),
218 PM₁₀ (5.1 ± 1.1 vs 5.4 ± 1.3 $\mu\text{g}/\text{m}^3$, $p < 0.01$), SO₂ (0.3 ± 0.1 vs 0.4 ± 0.1 ppb, $p <$
219 0.01) and O₃ (2.7 ± 0.3 vs 2.8 ± 0.3 ppb, $p < 0.01$) (Table 1). In contrast, the exposure
220 to NO₂ tended to be higher in patients with SLE with ILD than in those without ILD

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3 221 (2.0 ± 0.6 vs 1.8 ± 0.5 ppb, p = 0.06). Altogether, these data showed that patients with
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6 222 CTD-ILD used a higher dose of GC; had greater proportions of using csDMARDs,
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9 223 immunosuppressants and anti-TNF and were exposed to lower levels of air pollutants,
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12 224 primarily PM_{2.5}, PM₁₀, SO₂ and O₃, than the non-ILD controls.

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15 225 **Association of the risk of ILD development with comorbidity and socioeconomic**
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18 226 **status**

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21 227 As depicted in Table 2, CCI (aOR, 2.04; 95% CI 1.49–2.78) and the highest level of
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24 228 payroll-related insured amount (aOR, 1.64; 95% CI, 1.06–2.53), using the lowest
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27 229 level as reference) are significantly associated with a higher risk of developing ILD
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30 230 in all patients with CTD. In subgroup analyses according to CTD, the positive
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33 231 association between CCI and ILD remained significant in patients with RA, SSc and
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36 232 pSS, but not in patients with SLE and DMtis/PM (Tables 3–5). However, the positive
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39 233 association between the highest level of payroll-related insured amount and the risk
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42 234 of developing ILD turned to be non-significant in all CTD subgroups (Tables 3–5).

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45 235 **Association between medications for CTD and the risk of ILD development**

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48 236 As shown in Table 2, a positive association can be found between prednisolone
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51 237 equivalent dose (mg/day) and ILD risk (aOR 1.24, 95% CI, 1.12–1.34) in all patients
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54 238 with CTD. The positive association between GC dose and ILD risk remained
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57 239 statistically significant in patients with SLE, RA and pSS, but not in patients with
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60 240 SSc and DMtis/PM (Tables 3–5). Regarding the use of csDMARDs and

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3 241 bDMARDs, we observed a positive association of ILD risk with HCQ use,
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6 242 immunosuppressant use among all patients with CTD (Table 2). However, subgroup
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9 243 analyses of CTD revealed that the positive association between HCQ use and ILD
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12 244 risk remained statistically significant only in patients with pSS (Tables 3–5). The
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15 245 positive association between the use of immunosuppressants and the risk of ILD
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18 246 development remained statistically significant in patients with RA and SSc, but not
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21 247 in patients with SLE, DMtis/PM and pSS.

248 **Association between exposure to air pollutants and ILD development**

249 We then evaluated the factors associated with ILD development in patients with
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30 250 various CTDs. Exposure to O₃ (aOR, 0.36; 95% CI, 0.19–0.66) was found to have an
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33 251 inverse association with the risk of ILD development after adjusting for potential
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36 252 confounders. As shown in Tables 3–5, the subgroup analyses based on CTD revealed
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39 253 that the protective effect of O₃ against ILD risk was consistently present in patients
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42 254 with RA, SSc and DMtis/PM, but not in patients with SLE and pSS.

256 **DISCUSSION**

257 The association between O₃ exposure and ILD development currently remains
258 elusive, and evidence regarding air pollutant exposure and CTD-ILD is extremely
259 sparse despite the increasing awareness of CTD-ILD. In this population-based
260 case-control study, we found that O₃ exposure was inversely associated with the
261 development of ILD in patients with CTD after adjusting for potential confounders,
262 including concomitant medications and socioeconomic status. The finding highlights
263 the previously unrecognised association between exposure to air pollutants,
264 particularly O₃, and the development of CTD-ILD.

265 Although there is increasing evidence to implicate exposure to air pollutants in the
266 development of ILD, current evidence remains elusive due to the varied definition
267 for ILDs and the distinct air pollutants.¹⁷ Rice MB *et al.* conducted a
268 community-dwelling population-based study in Framingham and reported that higher
269 long-term exposure to elemental carbon, an indicator of traffic pollution, was
270 associated with the incidence and progression of interstitial lung abnormalities
271 (ILAs); however, they found no association between average levels of PM_{2.5} and
272 incident ILAs.¹⁰ In detail, unlike the positive association found between elemental
273 carbon (OR 1.27, 95% CI 1.04–1.55) as well as PM_{2.5} (OR 1.02, 95% CI 0.85–1.23)
274 and ILAs, an inverse association was found between O₃ (OR 0.91, 95% CI 0.78–1.06)
275 and ILAs. Similarly, Sack C *et al.* investigated 2671 participants from the

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3 276 Multi-Ethnic Study of Atherosclerosis (MESA) Lung study and reported that
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6 277 exposure to ambient NO_x was associated with a higher prevalence of ILAs, but the
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9 278 association was not found with exposure to PM_{2.5} and O₃.² Remarkably, consistent
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12 279 with our finding and the result of the study of Rice MB *et al.*, there was a significant
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15 280 inverse association between exposure to O₃ and incident ILAs (OR 0.30, 95% CI
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18 281 0.10–0.93) in never-smokers. Furthermore, one delicate Italian study also found the
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21 282 trend of the inverse association between O₃ exposure and the incidence rate of IPF.⁹
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24 283 These three studies and our findings in patients with CTDs found the consistent but
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27 284 previously unrecognised inverse association between exposure to O₃ and incident
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30 285 ILDs.

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33 286 Studies have postulated that the quenching effect of O₃ could possibly be
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36 287 responsible for the inverse association between exposure to O₃ and incident ILDs.^{2 10}
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39 288 In fact, ground-level O₃ is a secondary pollutant resulting from the photochemical
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42 289 reaction among traffic-related air pollutants, including NO₂ and volatile organic
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45 290 compounds.⁶ A number of previous studies reported an inverse correlation between
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48 291 O₃ level and traffic-related air pollutants, including NO₂ and elemental carbon.^{2 9 10}
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51 292 However, some studies have reported that exposure to O₃ and other air pollutants
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54 293 was positively associated with a deteriorated disease course in patients with ILD,
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57 294 including hospitalisation, poor lung function and exacerbation of ILD.^{7 8 18} The
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60 295 aforementioned discordant findings with regard to the impact of O₃ exposure on

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3 296 ILDs reflect the complexity of ILD pathogenesis, which consists of initial insults
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6 297 resulting in the influx of inflammatory cells as well as alveolar epithelial damage and
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9 298 the subsequent deterioration caused by the recruitment and activation of pulmonary
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12 299 fibroblasts and myofibroblasts.¹⁹ Therefore, we postulate that O₃ exposure may exert
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15 300 distinct effects, including the quenching effect, on the development and clinical
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18 301 deterioration of ILD, and the present study further provides evidence regarding the
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21 302 impact of O₃ exposure on the development of CTD-ILD.

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24 303 The pathogenesis of CTD-ILD has been increasingly investigated in recent years,
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27 304 and the balance among T cells, including innate lymphoid cells (ILCs), has been
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30 305 identified to play an important role in the pathogenesis of CTD-ILD.²⁰⁻²² Sendo S. *et*
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33 306 *al.*, using Zym-treated SKG mice to simulate RA-ILD, observed an increase in
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36 307 pathogenic Th17 cells in the inflamed lung tissue of RA-ILD mice and that
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39 308 tofacitinib ameliorated the interstitial lung disease.²³ In another recent study, which
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42 309 analysed the cytokine profiles of 40 patients with PM/DMtis-ILD, Th1 cells were
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45 310 found to play a key role in the pathogenesis of PM/DM-ILD.²⁴ Intriguingly, O₃ has
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48 311 been implicated in a high Th2 response in airway cells by enhancing the type 2
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51 312 ILC-associated pathway.^{25 26} Therefore, the O₃-associated expansion of the Th2
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54 313 pathway through ILCs may at least partly explain the potential protective effects of
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57 314 O₃ on the development of ILD in patients with CTD by ameliorating
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60 315 Th17/Th1-associated signalling in the airway.

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3 316 Intriguingly, smoking was reported to affect the association between O₃ exposure
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6 317 and pulmonary diseases, including ILDs.² Sack C *et al.* observed that O₃ exerted a
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9 318 protective role in incident ILAs in never-smokers (OR 0.30, 95% CI 0.10–0.93)
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12 319 among participants in the MESA Lung study, whereas O₃ tended to be a risk factor
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15 320 for ILAs in ever-smokers (OR 1.44, 95% CI 0.52–4.01).² Smoking status is not
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18 321 recorded in the NHIRD; however, the majority of enrolled patients with CTD were
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21 322 females (74.9%), and there is a marked low prevalence of tobacco use among
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24 323 females in Taiwan (2.6%). Thus, we believe that the magnitude of the protective
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27 324 effect of O₃ against the development of CTD-ILD might at least partly be attributed
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30 325 by the high proportion of females in the study population.²⁷
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33 326 There are some limitations in the present study. First, the NHIRD cannot provide
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36 327 laboratory data; however, the medication data are comprehensive. In addition, the
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39 328 diagnoses of SLE, RA and SS were validated by at least two experienced and
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42 329 qualified rheumatologists by reviewing patients' medical charts, laboratory findings
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45 330 and images to issue a catastrophic illness certificate. Second, the disease activity of
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48 331 CTD is not recorded, but we believe that we have adjusted for the essential
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51 332 CTD-associated medications, which should largely reflect the disease activity.
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54 333 In conclusion, exposure to air pollutants is increasingly found to be associated
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57 334 with the development of a number of pulmonary diseases, including ILDs.
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3 335 Recent evidence has demonstrated that O3 exposure appeared to have a negative
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6 336 association with the development of ILDs. In the present population-based
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9 337 case-control study, we found that exposure to O3 was inversely associated with
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12 338 incident CTD-ILDs among patients with CTD in Taiwan. Further studies are
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15 339 warranted to validate these findings and explore the underlying mechanisms.
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3 **341 Authors' contributions:**
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6 342 Conceived and designed the experiments: HHC, WCC, JCY, YHC and DYC.
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9 343 Acquired data: YMY, CHL, JCY and HHC. Contributed materials/analysis tools:
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12 344 WCC, YMY, JCY and HHC. Wrote the paper: HHC, JCY and WCC.
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14
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16

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27 349 study design, data collection and analysis, decision to publish or preparation of the
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30 350 manuscript.
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36 352 The authors have declared that no competing interests exist.
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39 **353 Ethics approval**
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42 354 This study was approved by the Institutional Review Board of Taichung Veterans
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45 355 General Hospital, Taiwan (IRB number: CE14149B-3).
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48 **356 Patient and Public Involvement**
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51 357 This research was performed without patient involvement. Patients were not invited
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54 358 with regards to design of study, measurement of outcome, and interpretation of
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57 359 results.
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60 **360 Data sharing statement**

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361 All of the data and materials are provided in the manuscript

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Table 1. Characteristics of enrolled subjects with ILDs and matched non-ILD controls

Variable	Non-ILD (n = 1980)	ILD (n = 495)	p value
Basic data			
Age, years	59.5±14.3	60.2±14.7	0.33
Gender, female	1484 (74.9)	371 (74.9)	1.00
Disease duration, years	6.6±5.1	6.9±5.8	0.38
CCI	1.4±1.4	1.8±1.5	<0.01
Urbanisation			
Level 1	581 (29.3)	162 (32.7)	0.53
Level 2	612 (30.9)	146 (29.5)	
Level 3	314 (15.9)	73 (14.7)	
Level 4	473 (23.9)	114 (23.0)	
Payroll-related insured amount, NTD			
≤15,840	889 (44.9)	231 (46.7)	0.10
15,841–28,800	622 (31.4)	146 (29.5)	
28,801–45,800	363 (18.3)	79 (16.0)	
≥45,801	106 (5.4)	39 (7.9)	
Medication			
csDMARDs			
Methotrexate	478 (24.1)	151 (30.5)	<0.01
Sulphasalazine	385 (19.4)	102 (20.6)	0.56
Leflunomide	103 (5.2)	44 (8.9)	<0.01
Hydroxychloroquine	1,053 (53.2)	301 (60.8)	<0.01
Cyclosporin	275 (13.9)	106 (21.4)	<0.01
Azathioprine	51 (2.6)	27 (5.5)	<0.01
Cyclophosphamide	185 (9.3)	64 (12.9)	0.02
Mycophenolate mofetil	50 (2.5)	25 (5.1)	<0.01
Glucocorticoid	1,275 (64.4)	400 (80.8)	<0.01
Prednisolone equivalent, mg/day	0.2 ± 0.8	0.6 ± 2.1	<0.01
bDMARDs			
Anti-TNF			
Etanercept	102 (5.2)	41 (8.3)	0.01
Adalimumab	62 (3.1)	25 (5.1)	0.04
Golimumab	37 (1.9)	17 (3.4)	0.03
	3 (0.2)	0 (0)	0.39

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2	Tocilizumab	1 (0.1)	2 (0.4)	0.04
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4	Rituximab	18 (0.9)	10 (2.0)	0.04
5	Air pollutant levels			
6	PM2.5 ($\mu\text{g}/\text{m}^3$)	3.1 \pm 0.7	3.0 \pm 0.6	<0.001
7	PM10 ($\mu\text{g}/\text{m}^3$)	5.4 \pm 1.3	5.1 \pm 1.1	<0.001
8	SO ₂ (ppb)	0.4 \pm 0.1	0.3 \pm 0.1	<0.001
9	NO ₂ (ppb)	1.8 \pm 0.6	1.8 \pm 0.5	0.44
10	CO (ppm)	0.5 \pm 0.2	0.6 \pm 0.2	0.30
11	O ₃ (ppb)	2.8 \pm 0.3	2.7 \pm 0.3	<0.001
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16 Data are presented as mean \pm standard deviation and N (%). *Prednisolone equivalent.

17 Abbreviations: ILD, interstitial lung disease; CCI, Charlson comorbidity index; DMARDs,
 18 disease-modifying anti-rheumatic drugs; MMF, mycophenolate mofetil; MPA, mycophenolic acid;
 19 TNF, tumour necrosis factor; NA, not available; PM2.5, particulate matter <2.5 μm ; PM10,
 20 particulate matter <10 μm ; SO₂, sulphur dioxide; NO₂, nitrogen dioxide; CO, carbon monoxide; O₃,
 21 ozone.
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442 **Table 2. Crude and adjusted odds ratios for the association between ILD and**
 443 **variables in patients with CTD**

	OR (95% CI)	P	aOR (95% CI)	p
Basic data				
Age, years	1.00 (0.99–1.01)	0.332	1.01 (0.99–1.02)	0.079
Gender, male	1.00 (0.80–1.26)	1.000	0.92 (0.72–1.18)	0.523
Disease duration, years	1.01 (0.99–1.03)	0.345	1.01 (0.99–1.03)	0.602
CCI	2.42 (1.81–3.24)	<0.001	2.04 (1.49–2.78)	<0.001
CTD group				
SLE	Reference		Reference	
RA	1.00 (0.75–1.33)	1.000	0.96 (0.64–1.43)	0.831
SSc	1.00 (0.67–1.49)	1.000	1.43 (0.91–2.23)	0.120
DMtis/PM	1.00 (0.66–1.52)	1.000	1.23 (0.76–2.01)	0.405
pSS	1.00 (0.73–1.37)	1.000	1.77 (1.19–2.63)	0.005
Urbanisation				
Level 1	Reference		Reference	
Level 2	0.86 (0.67–1.10)	0.223	0.94 (0.68–1.30)	0.714
Level 3	0.83 (0.61–1.14)	0.248	1.11 (0.76–1.63)	0.581
Level 4	0.86 (0.66–1.13)	0.288	1.02 (0.66–1.56)	0.939
Payroll-related insured amount, NTD				
≤15,840	Reference		Reference	
15,841–28,800	0.90 (0.72–1.14)	0.389	0.96 (0.74–1.25)	0.776
28,801–45,800	0.84 (0.63–1.11)	0.220	0.88 (0.65–1.20)	0.426
≥45,801	1.42 (0.96–2.10)	0.084	1.64 (1.06–2.53)	0.025
Medication				
Methotrexate	1.38 (1.11–1.71)	0.004	1.17 (0.91–1.51)	0.216
Sulphasalazine	1.08 (0.84–1.37)	0.561	0.82 (0.62–1.08)	0.162
Leflunomide	1.78 (1.23–2.57)	0.002	1.35 (0.91–2.01)	0.140
Hydroxychloroquine	1.37 (1.12–1.67)	0.002	1.28 (1.03–1.58)	0.024
Immunosuppressants	1.69 (1.32–2.17)	<0.001	1.53 (1.15–2.02)	0.003
Steroid*, mg/day	1.31 (1.18–1.44)	<0.001	1.24 (1.12–1.37)	<0.001
Anti-TNF	1.66 (1.14–2.42)	0.008	1.20 (0.79–1.83)	0.392
Tocilizumab	8.03 (0.73–88.72)	0.089	6.61 (0.56–77.84)	0.134
Rituximab	2.25 (1.03–4.90)	0.042	1.65 (0.73–3.74)	0.227
Air pollutants				
PM2.5 (per 10 µg/m ³)	0.69 (0.60–0.80)	<0.001	0.80 (0.53–1.22)	0.308
PM10 (per 10 µg/m ³)	0.81 (0.74–0.88)	<0.001	1.00 (0.78–1.29)	0.996

SO ₂ (per 10 ppb)	0.19 (0.07–0.48)	<0.001	0.53 (0.13–2.13)	0.371
NO ₂ (per 10 ppb)	1.07 (0.90–1.28)	0.440	0.80 (0.44–1.46)	0.466
CO (per 1 ppm)	1.25 (0.82–1.91)	0.299	0.97 (0.31–3.10)	0.964
O ₃ (per 10 ppb)	0.43 (0.30–0.62)	<0.001	0.36 (0.19–0.66)	0.001

*Prednisolone equivalent. Abbreviations: ILD, interstitial lung disease; CTD, connective tissue disease; OR, odds ratio; CI, confidence interval; CCI, Charlson comorbidity index; TNF, tumour necrosis factor; NA, not available; PM_{2.5}, particulate matter <2.5 µm; PM₁₀, particulate matter <10 µm; SO₂, sulphur dioxide; NO₂, nitrogen dioxide; CO, carbon monoxide; O₃, ozone.

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Table 3. Crude and adjusted odds ratios for the association between the risk of ILD development and variables in patients with rheumatoid arthritis

Variable	Univariable		Multivariable	
	OR (95% CI)	P value	aOR (95% CI)	p value
Basic data				
Age, years	1.01 (0.99–1.02)	0.146	1.01 (0.99–1.03)	0.200
Gender, male	1.00 (0.72–1.39)	1.000	0.99 (0.69–1.42)	0.952
Disease duration, years	1.02 (0.99–1.05)	0.165	1.03 (0.99–1.06)	0.130
CCI	5.99 (2.41–14.89)	<0.001	3.95 (1.53–10.15)	0.004
Urbanisation				
Level 1	Reference		Reference	
Level 2	1.00 (0.67–1.48)	0.982	1.11 (0.65–1.88)	0.706
Level 3	1.11 (0.69–1.79)	0.669	1.48 (0.81–2.70)	0.207
Level 4	1.11 (0.74–1.66)	0.627	1.51 (0.76–2.98)	0.240
Payroll-related insured amount, NTD				
≤15,840	Reference		Reference	
15,841–28,800	0.71 (0.50–1.01)	0.056	0.68 (0.44–1.03)	0.070
28,801–45,800	0.83 (0.53–1.32)	0.436	1.06 (0.62–1.80)	0.837
≥45,801	1.23 (0.56–2.69)	0.612	1.87 (0.78–4.48)	0.158
Medication				
Methotrexate	1.42 (1.05–1.93)	0.024	1.22 (0.87–1.71)	0.254
Sulphasalazine	1.01 (0.74–1.37)	0.975	0.78 (0.56–1.09)	0.147
Leflunomide	1.88 (1.26–2.82)	0.002	1.39 (0.90–2.16)	0.141
Hydroxychloroquine	1.57 (1.15–2.15)	0.004	1.31 (0.93–1.84)	0.128
Immunosuppressants	2.50 (1.50–4.16)	<0.001	2.04 (1.17–3.55)	0.012
Steroid*, mg/day	2.65 (1.70–4.14)	<0.001	2.22 (1.42–3.47)	0.001
Anti-TNF	1.76 (1.18–2.64)	0.006	1.19 (0.76–1.87)	0.440
Tocilizumab	8.07 (0.73–89.41)	0.089	8.99 (0.74–109.40)	0.085
Rituximab	2.42 (1.09–5.37)	0.030	1.39 (0.58–3.37)	0.461
Air pollutants				
PM2.5 (per 10 µg/m ³)	0.89 (0.71–1.11)	0.294	1.20 (0.62–2.33)	0.596
PM10 (per 10 µg/m ³)	0.91 (0.81–1.04)	0.158	0.82 (0.56–1.21)	0.324
SO ₂ (per 10 ppb)	0.70 (0.17–2.81)	0.613	3.15 (0.40–24.77)	0.276
NO ₂ (per 10 ppb)	1.00 (0.77–1.30)	1.000	0.71 (0.28–1.79)	0.462
CO (per 1 ppm)	0.95 (0.48–1.89)	0.878	1.06 (0.16–6.84)	0.952
O ₃ (per 10 ppb)	0.60 (0.34–1.04)	0.071	0.33 (0.12–0.86)	0.024

*Prednisolone equivalent. Abbreviations: ILD, interstitial lung disease; CCI, Charlson comorbidity index; TNF, tumour necrosis factor; NA, not available; PM2.5, particulate matter <2.5 µm; PM10, particulate matter <10 µm; SO₂, sulphur dioxide; NO₂, nitrogen dioxide; CO, carbon monoxide; O₃, ozone.

Table 4. Crude and adjusted odds ratios for the association between the risk of ILD development and variables in patients with systemic lupus erythematosus and primary Sjögren's syndrome

Variable	Systemic lupus erythematosus				Primary Sjögren's syndrome			
	Univariable		Multivariable		Univariable		Multivariable	
	OR (95% CI)	p	aOR (95% CI)	p	OR (95% CI)	p	aOR (95% CI)	p
Basic data								
Age, years	1.00 (0.99–1.02)	0.657	1.01 (0.99–1.03)	0.299	1.00 (0.99–1.02)	0.867	1.00 (0.98–1.02)	0.949
Gender, male	1.00 (0.50–1.99)	1.000	0.91 (0.42–1.95)	0.802	1.00 (0.53–1.91)	1.000	0.99 (0.49–2.02)	0.986
Disease duration, years	1.00 (0.96–1.04)	0.969	1.00 (0.96–1.05)	0.985	1.03 (0.97–1.09)	0.306	1.05 (0.99–1.12)	0.140
CCI	4.03 (0.94–17.23)	0.060	2.79 (0.60–13.03)	0.192	2.31 (1.51–3.52)	<0.001	2.57 (1.61–4.10)	<0.001
Urbanisation								
Level 1	Reference		Reference		Reference		Reference	
Level 2	0.57 (0.31–1.06)	0.077	0.89 (0.38–2.05)	0.781	0.74 (0.45–1.25)	0.260	0.83 (0.42–1.65)	0.598
Level 3	0.73 (0.35–1.51)	0.394	1.44 (0.56–3.71)	0.454	0.80 (0.43–1.47)	0.466	1.02 (0.46–2.28)	0.954
Level 4	0.68 (0.34–1.34)	0.262	1.07 (0.37–3.14)	0.903	0.90 (0.51–1.59)	0.728	0.66 (0.25–1.70)	0.388
Payroll-related insured amount, NTD								
≤15,840	Reference		Reference		Reference		Reference	
15,841–28,800	0.86 (0.48–1.56)	0.629	0.93 (0.48–1.79)	0.823	0.74 (0.45–1.25)	0.260	0.83 (0.42–1.65)	0.598
28,801–45,800	1.09 (0.56–2.10)	0.807	1.09 (0.52–2.28)	0.823	0.80 (0.43–1.47)	0.466	1.02 (0.46–2.28)	0.954
≥45,801	1.52 (0.61–3.81)	0.368	1.55 (0.55–4.34)	0.406	0.90 (0.51–1.59)	0.728	0.66 (0.25–1.70)	0.388
Medication								
Methotrexate	1.09 (0.30–4.02)	0.892	0.94 (0.22–4.09)	0.937	1.12 (0.41–3.07)	0.832	1.14 (0.36–3.64)	0.829

5	Sulphasalazine	2.80 (0.97–8.11)	0.058	3.09 (0.94–10.18)	0.064	1.21 (0.48–3.09)	0.689	1.07 (0.37–3.07)	0.899	
6	Leflunomide	<0.01 (<0.01–>99)	0.990	<0.01 (<0.01–>99)	0.989	0.66 (0.08–5.57)	0.706	0.59 (0.06–5.55)	0.644	
8	Hydroxychloroquine	1.09 (0.65–1.83)	0.752	1.05 (0.60–1.85)	0.866	1.22 (0.79–1.87)	0.369	1.13 (0.70–1.82)	0.618	
9	Immunosuppressants	1.71 (1.04–2.80)	0.034	1.56 (0.90–2.72)	0.116	1.21 (0.63–2.32)	0.578	0.95 (0.44–2.05)	0.890	
11	Steroid*, mg/day	1.19 (1.04–1.36)	0.009	1.15 (1.00–1.31)	0.044	1.47 (1.06–2.04)	0.022	1.48 (1.01–2.16)	0.042	
13	Air pollutants									
14	PM2.5 (per 10 µg/m ³)	0.60 (0.41–0.87)	0.007	0.37 (0.13–1.02)	0.055	0.61 (0.45–0.85)	0.003	0.70 (0.28–1.76)	0.445	
15	PM10 (per 10 µg/m ³)	0.78 (0.63–0.97)	0.022	1.45 (0.78–2.70)	0.243	0.76 (0.63–0.91)	0.003	1.02 (0.58–1.79)	0.944	
17	SO ₂ (per 10 ppb)	0.24 (0.02–2.42)	0.227	0.57 (0.02–18.13)	0.753	0.05 (0.01–0.45)	0.008	0.14 (0.01–3.90)	0.246	
18	NO ₂ (per 10 ppb)	1.50 (0.98–2.31)	0.064	0.91 (0.19–4.43)	0.908	1.00 (0.68–1.46)	0.980	0.69 (0.19–2.50)	0.571	
20	CO (per 1 ppm)	2.65 (1.04–6.75)	0.041	1.35 (0.09–20.85)	0.829	1.43 (0.58–4.54)	0.434	2.33 (0.21–26.27)	0.494	
21	O ₃ (per 10 ppb)	0.26 (0.10–0.67)	0.005	0.33 (0.06–1.68)	0.181	0.60 (0.28–1.26)	0.175	0.60 (0.18–2.06)	0.419	

*Prednisolone equivalent. Abbreviations: ILD, interstitial lung disease; CCI, Charlson comorbidity index; TNF, tumour necrosis factor; NA, not available; PM2.5, particulate matter <2.5 µm; PM10, particulate matter <10 µm; SO₂, sulphur dioxide; NO₂, nitrogen dioxide; CO, carbon monoxide; O₃, ozone

Table 5. Crude and adjusted odds ratios for the association between the risk of ILD development and variables in patients with systemic sclerosis and dermatomyositis/polymyositis

Variable	Systemic sclerosis				Dermatomyositis/polymyositis			
	Univariable		Multivariable		Univariable		Multivariable	
	OR (95% CI)	p	aOR (95% CI)	p	OR (95% CI)	p	aOR (95% CI)	p
Basic data								
Age, years	1.00 (0.98–1.02)	0.924	1.01 (0.98–1.04)	0.550	1.00 (0.99–1.02)	0.867	1.00 (0.98–1.02)	0.949
Gender, male	1.00 (0.53–1.90)	1.000	0.86 (0.39–1.93)	0.721	1.00 (0.53–1.91)	1.000	0.99 (0.49–2.02)	0.986
Disease duration, years	0.98 (0.92–1.04)	0.441	0.98 (0.92–1.06)	0.638	1.03 (0.97–1.09)	0.306	1.05 (0.99–1.12)	0.140
CCI	5.31 (1.23–22.89)	0.025	8.62 (1.65–45.14)	0.011	2.31 (1.51–3.52)	<0.001	2.57 (1.61–4.10)	<0.001
Urbanisation								
Level 1	Reference		Reference		Reference		Reference	
Level 2	1.19 (0.54–2.59)	0.666	1.18 (0.40–3.49)	0.762	0.74 (0.45–1.25)	0.260	0.83 (0.42–1.65)	0.598
Level 3	0.55 (0.17–1.80)	0.322	0.57 (0.12–2.78)	0.484	0.80 (0.43–1.47)	0.466	1.02 (0.46–2.28)	0.954
Level 4	0.68 (0.29–1.58)	0.366	0.54 (0.12–2.53)	0.434	0.90 (0.51–1.59)	0.728	0.66 (0.25–1.70)	0.388
Payroll-related insured amount, NTD								
≤15,840	Reference		Reference		Reference		Reference	
15,841–28,800	1.16 (0.55–2.46)	0.698	1.32 (0.54–3.21)	0.545	0.74 (0.45–1.25)	0.260	0.83 (0.42–1.65)	0.598
28,801–45,800	0.82 (0.32–2.09)	0.681	0.69 (0.22–2.16)	0.524	0.80 (0.43–1.47)	0.466	1.02 (0.46–2.28)	0.954
≥45,801	1.76 (0.56–5.52)	0.331	1.99 (0.52–7.54)	0.314	0.90 (0.51–1.59)	0.728	0.66 (0.25–1.70)	0.388
Medication								

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5	Methotrexate	0.61 (0.17–2.14)	0.438	0.53 (0.12–2.28)	0.394	1.12 (0.41–3.07)	0.832	1.14 (0.36–3.64)	0.829
6	Sulphasalazine	<0.01 (<0.01–>99)	0.985	<0.01 (<0.01–>99)	0.976	1.21 (0.48–3.07)	0.689	1.07 (0.37–3.07)	0.899
7	Leflunomide	>99 (<0.01–>99)	0.987	>99 (<0.01–>99)	0.992	0.66 (0.08–5.07)	0.706	0.59 (0.06–5.55)	0.644
8	Hydroxychloroquine	0.91 (0.46–1.80)	0.784	0.90 (0.41–1.97)	0.796	1.22 (0.79–1.87)	0.369	1.13 (0.70–1.82)	0.618
9	Immunosuppressants	2.37 (1.11–5.07)	0.026	2.61 (1.07–6.36)	0.034	1.21 (0.63–2.22)	0.578	0.95 (0.44–2.05)	0.890
10	Steroid*, mg/day	1.33 (0.82–2.18)	0.251	1.38 (0.77–2.47)	0.276	1.47 (1.06–2.04)	0.022	1.48 (1.01–2.16)	0.042
11	Air pollutants								
12	PM2.5 (per 10 µg/m ³)	0.54 (0.33–0.87)	0.012	0.90 (0.19–4.26)	0.899	0.61 (0.45–0.85)	0.003	0.70 (0.28–1.76)	0.445
13	PM10 (per 10 µg/m ³)	0.67 (0.51–0.89)	0.005	1.08 (0.40–2.95)	0.881	0.76 (0.63–0.91)	0.003	1.02 (0.58–1.79)	0.944
14	SO ₂ (per 10 ppb)	0.02 (<0.01–0.60)	0.023	0.09 (<0.01–14.50)	0.349	0.05 (0.01–0.15)	0.008	0.14 (0.01–3.90)	0.246
15	NO ₂ (per 10 ppb)	1.01 (0.58–1.75)	0.985	0.25 (0.03–2.42)	0.228	1.00 (0.68–1.56)	0.980	0.69 (0.19–2.50)	0.571
16	CO (per 1 ppm)	1.04 (0.27–4.04)	0.955	2.14 (0.03–181.54)	0.737	1.43 (0.58–3.34)	0.434	2.33 (0.21–26.27)	0.494
17	O ₃ (per 10 ppb)	0.23 (0.06–0.80)	0.021	0.03 (0.00–0.41)	0.008	0.60 (0.28–1.16)	0.175	0.60 (0.18–2.06)	0.419

*Prednisolone equivalent. Abbreviations: ILD, interstitial lung disease; CCI, Charlson comorbidity index; TNF, tumour necrosis factor; NA, not available; PM2.5, particulate matter <2.5 µm; PM10, particulate matter <10 µm; SO₂, sulphur dioxide; NO₂, nitrogen dioxide; CO, carbon monoxide; O₃, ozone

STROBE Statement—checklist of items that should be included in reports of observational studies

	Item No	Recommendation
Title and abstract	1	Air pollutants and development of interstitial lung disease in patients with connective tissue disease: a population-based study Structured abstract on page3-4
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Other information		
Funding	22	Page 21, line 345-350

*Give information separately for cases and controls in case-control studies and, if applicable, for exposed and unexposed groups in cohort and cross-sectional studies.

Note: An Explanation and Elaboration article discusses each checklist item and gives methodological background and published examples of transparent reporting. The STROBE checklist is best used in conjunction with this article (freely available on the Web sites of PLoS Medicine at <http://www.plosmedicine.org/>, Annals of Internal Medicine at <http://www.annals.org/>, and Epidemiology at <http://www.epidem.com/>). Information on the STROBE Initiative is available at www.strobe-statement.org.

BMJ Open

Air pollutants and development of interstitial lung disease in patients with connective tissue disease: a population-based case-control study in Taiwan

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1 **Air pollutants and development of interstitial lung disease in patients**
2 **with connective tissue disease: a population-based case-control study**
3 **in Taiwan**

4
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36 **Running title: Air pollutants and CTD-ILD**

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37 **Abstract**

38 **Objective:**

39 The aim of this study was to assess the association between air pollutant exposure and
40 interstitial lung disease (ILD) in patients with connective tissue diseases (CTDs).

41 **Setting:**

42 A nationwide, population-based, matched case-control study in Taiwan

43 **Participants:**

44 Using the 1997–2013 Taiwanese National Health Insurance Research Database, we
45 identified patients with newly diagnosed CTD during 2001–2013, including systemic
46 lupus erythematosus (SLE), rheumatoid arthritis (RA), systemic sclerosis (SSc),
47 dermatomyositis (DMtis)/polymyositis (PM) and primary Sjögren’s syndrome (pSS).

48 **Primary and secondary outcome measures**

49 Patients with newly diagnosed ILD during 2012–2013 were identified as ILD cases,
50 and selected CTD patients without ILD matching (1:4) the CTD cases for CTD
51 diagnosis, age, gender, disease duration and year of ILD diagnosis date were
52 identified as non-ILD controls. Data of hourly level of air pollutants 1 year before the
53 index date were obtained from the Taiwan Environmental Protection Agency. The
54 association between ILD and air pollutant exposure was evaluated using logistic
55 regression analysis shown as adjusted odds ratios (aORs) with 95% confidence
56 intervals (CIs) after adjusting for potential confounders.

1 57 **Results:** We identified 505 newly diagnosed CTD-ILD patients, including 82 with
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4 58 SLE, 210 with RA, 47 with SSc, 44 with DMtis/PM and 122 with pSS. O₃ exposure
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6 59 (per 10 ppb) was associated with a decreased ILD risk in patients with CTD (aOR,
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9 60 0.51; 95% CI, 0.33–0.79) after adjusting for potential confounders.
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12 61 **Conclusions:** A previously unrecognised inverse correlation was found between O₃
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15 62 exposure and ILD in patients with RA and SSc. Further studies are warranted to
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18 63 explore the underlying mechanisms.
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21 64 **Keywords:** air pollutant, ozone, interstitial lung disease, connective tissue disease.
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65 **Strengths and limitations of this study**

- 66 1. This population-based study was conducted on a relatively large sample size, which
67 can be generalised to the national level.
- 68 2. The study used two nationwide databases to address the association between
69 exposure to air pollutants and the development of interstitial lung disease (ILD) in
70 patients with connective tissue disease (CTD).
- 71 3. The selection bias of the present population-based study using claim data is
72 minimal.
- 73 4. Given the nature of the secondary data, the analysis misses some crucial variables,
74 such as disease activity and laboratory data.

75 **Background**

76 Interstitial lung disease (ILD) is characterised by progressive inflammation and
77 fibrosis, and accumulating evidence has demonstrated an association between
78 exposure to air pollutants and the development and disease course of ILD.^{1 2}
79 Autoimmune rheumatic diseases show a strong correlated with ILD, including
80 connective tissue disease-associated ILD (CTD-ILD) as well as interstitial pneumonia
81 with autoimmune features; furthermore, the development of CTD-ILD has been
82 reported to be an important cause of morbidity and mortality in patients with CTD.^{3 4}
83 A recent Taiwanese study reported that exposure to air pollutants, primarily nitrogen
84 dioxide (NO₂), was associated with incident systemic lupus erythematosus (SLE).⁵
85 Given that exposure to air pollutants has been implicated in ILD and CTD, there is a
86 need to investigate the association between exposure to air pollutants and CTD-ILD.

87 Among the distinct air pollutants, ozone (O₃) is generated through chemical
88 reactions, the so-called quenching reaction, among pollutants, primary oxides of
89 nitrogen, in the presence of sunlight.⁶ Exposure to O₃ was implicated with an
90 increased Th2 response through enhancing the type 2 ILC-associated pathway in
91 airway cells, and Th1 response appears to be dominant in ILD.^{7 8} Intriguingly,
92 previous studies have reported a positive association between exposure to O₃ and the
93 risk of acute exacerbation as well as poor pulmonary function in patients with
94 idiopathic pulmonary fibrosis (IPF).^{9 10} However, few studies have shown that O₃

1 95 exposure might have an inverse correlation with incident ILDs, and the quenching
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3 96 effect as well as dysregulated T cell response by O₃ might possibly underlie this
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6 97 intriguing correlation.^{2 11 12} The aforementioned evidence indicates the complex
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9 98 association between exposure to air pollutants, particularly O₃, and ILD. Moreover,
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12 99 evidence of the impacts of exposure to air pollutants on incident ILD in patients with
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15 100 CTD is still lacking. Therefore, there is a crucial need to address the impact of
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18 101 exposure to air pollutants on the development of ILD among patients with CTD. The
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21 102 Taiwanese National Health Insurance Research Database (NHIRD) has facilitated
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24 103 population-based epidemiological studies. Therefore, in the present study, we aimed
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27 104 to conduct a population-based case-control study to explore the association between
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30 105 ILD development and exposure to air pollutants in patients with CTDs, including
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33 106 SLE, rheumatoid arthritis (RA), systemic sclerosis (SSc), dermatomyositis
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36 107 (DMtis)/polymyositis (PM) and primary Sjögren's syndrome (pSS), using the
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39 108 NHIRD.
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109 **METHODS**

110 **Ethics approval**

111 This study was approved by the Institutional Review Board of Taichung Veterans
112 General Hospital, Taiwan (IRB number: CE14149B-3). Informed consent was waived
113 as all the data used for analyses were de-identified.

114 **Study design**

115 This research was a nationwide, population-based, matched case-control study.

116 **Data source**

117 Taiwan had launched a single-payer, compulsory National Health Insurance
118 programme in 1995, with nationwide coverage of up to 99.6% of Taiwan's population
119 in 2015.¹³ The NHIRD contains all-inclusive claims data regarding the information on
120 registration, demographic characteristics, residence, medication prescription,
121 diagnosis, examinations, procedures, surgeries, medical expenditure, outpatient
122 services, inpatient services and medication prescription. The NHIRD also registered
123 all patients with major illnesses such as CTDs and malignancies in the catastrophic
124 illness registry in case the catastrophic illness-related diagnoses were validated by two
125 independent specialists through a detailed review of patients' original medical records.
126 A catastrophic illness certificate is then issued to these patients, who are then exempt
127 from expenses for medical services. In the present study, we used multiple files,
128 including registration file, ambulatory file, inpatient file and catastrophic illness

1 129 registry file, in the NHIRD from 1997 to 2013. The accuracy of the claims data from
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4 130 the NHIRD has been improved by regularly auditing the original medical records. The
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7 131 NHIRD was managed by the National Health Research Institute and was released for
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10 132 research purpose after the encryption of personal information.

133 **Identification of patients with CTD from the entire population in Taiwan**

134 We used the 1997–2013 NHIRD to identify patients with CTDs who were registered
135 in the catastrophic illness registry between 2001 and 2013 for newly diagnosed CTDs,
136 including SLE (International Classification of Diseases, Ninth Revision, Clinical
137 Modification [ICD-9-CM] code 710.0), RA (ICD-9-CM codes 714.0 and
138 714.30–714.33), SSc (ICD-9-CM code 710.1), DMtis (ICD-9-CM code 710.3), PM
139 (ICD-9-CM code 710.4) or pSS (ICD-9-CM code, 710.2). The date of CTD diagnosis
140 was defined as the date of initial application for a catastrophic illness certificate for
141 the corresponding CTD. From patients with CTD, we included those who did not
142 have overlapping CTD diagnoses and those who did not have any ambulatory or
143 inpatient visit with a diagnosis of ILD (ICD-9 code 515 and 516.36) or idiopathic
144 interstitial pneumonia before the time of CTD diagnosis as the CTD cohort (Fig. 1).

145 **Identification of ILD cases from the CTD cohort**

146 We identified those who had a new diagnosis of ILD (ICD-9 code 515 and 516.36)
147 after the CTD diagnosis date during 2012–2013 as ILD cases. The index date was
148 defined as the date of first ambulatory or inpatient visit with a diagnosis of ILD.

149 **Selection of matched non-ILD controls from the CTD cohort**

150 From the CTD cohort, we randomly selected those who never had a diagnosis of ILD
151 matching (1:4) the ILD cases for diagnosis of CTDs, sex, age (± 4 years), disease
152 duration (± 4 years) and the year of index date as non-ILD controls.

153 **Measurement of exposure to air pollutants**

154 The hourly levels of air pollutants 1 year before the index date were obtained from 60
155 air quality monitoring stations across Taiwan, and mean level of air pollutants
156 included in the present study consisted of particulate matter $< 2.5 \mu\text{m}$ in size (PM_{2.5}),
157 particulate matter $< 10 \mu\text{m}$ in size (PM₁₀), nitrogen dioxide (NO₂), carbon monoxide
158 (CO), sulphur dioxide (SO₂) and ozone (O₃), was used to represent the degree of air
159 pollution.¹⁴ The ambient air pollutant concentrations at each residential location were
160 estimated using a spatio-temporal model built via a deep-learning approach.¹⁵ In brief,
161 the ambient level of air pollutants at 374 residential locations across Taiwan was
162 estimated based on the data of three air quality monitoring stations near the location.

163 **Potential confounders**

164 The factors that may affect the association between exposure to air pollutants and
165 incident ILD were taken into account as the confounder in the regression to estimate
166 the impact of air pollutant on incident ILD in patients with CTD. Potential
167 confounders that were adjusted for in the multivariable logistic regression model
168 included age, gender, disease duration, Charlson comorbidity index (CCI) without the

1 169 chronic pulmonary disease, diagnosis with chronic obstructive pulmonary disease
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4 170 (COPD)/asthma, use of biological disease-modifying anti-rheumatic drugs
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6 171 (bDMARDs), use of conventional synthetic DMARDs (csDMARDs), use of
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9 172 immunosuppressants, glucocorticoid dose (average daily prednisolone equivalent
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12 173 dose), urbanisation level of the patient's residence and the level of payroll-related
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15 174 insured amount. The presence of comorbidity was defined as the presence of one or
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18 175 more inpatient visits or at least three ambulatory visits with a corresponding
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21 176 ICD-9-CM code within 1 year before the index date. The CCI revised by Deyo *et al.*
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24 177 was applied to analyse the general comorbid medical condition.¹⁶ In Taiwan, the
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27 178 available bDMARDs before 31 December 2013 were anti-tumour necrosis factor
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30 179 (anti-TNF, including etanercept, adalimumab and golimumab), tocilizumab (TCZ)
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32
33 180 and rituximab (RTX). The csDMARDs included hydroxychloroquine (HCQ),
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36 181 sulphasalazine (SSZ), methotrexate (MTX) and leflunomide (LEF).
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39 182 Immunosuppressants included cyclophosphamide (CP), cyclosporin (CSA),
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42 183 azathioprine (AZA) and mycophenolate mofetil (MMF)/mycophenolic acid (MPA).
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45 184 Given that socioeconomic status might confound the association between air pollutant
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48 185 exposure and pulmonary diseases, we measured the socioeconomic status of each
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51 186 participant based on the urbanisation level and payroll-related insured amount.¹⁷ The
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54 187 urbanisation level of the patient's residence was categorised into four clusters based
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57 188 on population density (people/km²), population ratio of elderly subjects aged >65
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1 189 years, population ratio of subjects with educational levels of college or above,
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4 190 population ratio of agricultural workers and the number of physicians/100,000
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6 191 subjects.¹⁸ Payroll-related insured amount was transformed into categorical variable
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9 192 with four levels based on quantiles.
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11 193 **Statistical analyses**

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15 194 Data are represented as the number of patients (%) for categorical variables and either
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18 195 mean \pm standard deviation for continuous variables. Categorical variables were
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21 196 compared using the χ^2 test or the Fisher's exact test, and continuous variables were
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24 197 compared using the *t*-test. Variables were considered as candidates for inclusion in the
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27 198 multivariable model if the associated univariate p-value was lower than 0.20.¹⁹
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30 199 The association between the risk of ILD development and the exposure to air
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33 200 pollutants was examined using a multivariable conditional logistic regression analysis
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36 201 after adjusting for age, gender, CCI, urbanisation level, level of payroll-related
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39 202 insured amount and medications for CTD and is represented as adjusted odds ratio
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42 203 (aOR) with 95% confidence intervals (CIs). All data were analysed using the
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45 204 statistical software version 9.3 (SAS Institute, Inc., Cary, NC, USA). A p-value <0.05
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48 205 was considered as statistically significant.
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206 RESULTS

207 Study subjects with CTDs

208 A total of 505 patients with CTD-ILD were included in this study, consisting of 82
209 with SLE, 210 with RA, 47 with SSc, 44 with DMtis/PM and 122 with pSS. A total
210 of 2,020 patients were selected as matched non-ILD CTD controls. As shown in
211 Table 1, patients with CTD-ILD and the non-ILD CTD controls had similar
212 distributions of age, gender and disease duration. Compared with the non-ILD
213 controls, patients with ILD had a higher CCI (1.8 ± 1.5 vs 1.4 ± 1.4 , $p < 0.01$), were
214 more likely to have COPD (25.0% vs 8.0%, $p < 0.01$), received a higher dose of
215 glucocorticoid (GC) (5.1 ± 8.5 vs 2.5 ± 4.1 mg/day, prednisolone equivalent dose) and
216 were more likely to use MTX (30.5% vs 22.4%, $p < 0.01$), LEF (8.7% vs 5.1%, $p <$
217 0.01), HCQ (61.0% vs 52.4%, $p < 0.01$), CSA (5.5% vs 2.4%, $p < 0.01$), AZA (13.3%
218 vs 9.5%, $p = 0.01$), CP (5.3% vs 1.5%, $p < 0.01$), and anti-TNF (8.3% vs 4.7%, $p <$
219 0.01). The socioeconomic status, including the urbanisation level and the level of
220 payroll-related insured amount, tended to be similar between patients with ILD and
221 the non-ILD controls. Regarding the exposure to air pollutants, patients with ILD had
222 a slightly lower average exposure to PM_{2.5} (3.0 ± 0.6 vs 3.1 ± 0.7 $\mu\text{g}/\text{m}^3$, $p < 0.01$),
223 PM₁₀ (5.1 ± 1.1 vs 5.4 ± 1.2 $\mu\text{g}/\text{m}^3$, $p < 0.01$), SO₂ (0.3 ± 0.1 vs 0.4 ± 0.1 ppb, $p <$
224 0.01) and O₃ (2.7 ± 0.3 vs 2.8 ± 0.3 ppb, $p < 0.01$) (Table 1). Altogether, these data
225 showed that patients with CTD-ILD used a higher dose of GC; had greater

1 226 proportions of using csDMARDs, immunosuppressants and anti-TNF and were
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3 227 exposed to lower levels of air pollutants, primarily PM_{2.5}, PM₁₀, SO₂ and O₃, than
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6 228 the non-ILD controls.
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9 229 **Association of the risk of ILD development with comorbidity and socioeconomic**
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12 230 **status**
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15 231 As depicted in Table 2, CCI without the pulmonary disease (aOR, 1.56; 95% CI
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18 232 1.13–2.16) and COPD (aOR, 3.60; 95% CI 2.68–4.82) were significantly associated
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21 233 with a higher risk of developing ILD in patients with CTD. In subgroup analyses
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24 234 according to CTD, the positive association between COPD and ILD remained
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27 235 significant in patients with RA, SLE, pSS and DMtis/PM, but not in patients with
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30 236 SSc (Tables 3–5).
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33 237 **Association between medications for CTD and the risk of ILD development**
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36 238 As shown in Table 2, a positive association can be found between prednisolone
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39 239 equivalent dose (mg/day) and ILD risk (aOR 1.09, 95% CI, 1.06–1.11) in all patients
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42 240 with CTD. The positive association between GC dose and ILD risk remained
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45 241 statistically significant in all of the subgroups of CTD (Tables 3–5). Regarding the
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48 242 use of DMARDs, we observed a positive association of ILD risk with MTX use
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51 243 among all patients with CTD (Table 2). However, subgroup analyses of CTD
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54 244 revealed that the positive association between MTX use and ILD risk remained
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57 245 statistically significant only in patients with DMtis/PM (Tables 3–5).
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1 246 **Association between exposure to air pollutants and ILD development**
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3 247 We then evaluated the factors associated with ILD development in patients with
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6 248 various CTDs. Exposure to O₃ (aOR, 0.51; 95% CI, 0.33–0.79) was found to have an
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9 249 inverse association with the risk of ILD development after adjusting for potential
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12 250 confounders. As shown in Tables 3–5, the subgroup analyses based on CTD revealed
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15 251 that the protective effect of O₃ against ILD risk was consistently present in patients
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18 252 with SLE, but did not reach statistical significance in patients with the other CTDs.
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253 DISCUSSION

254 The association between O₃ exposure and ILD development currently remains
255 elusive, and evidence regarding air pollutant exposure and CTD-ILD is extremely
256 sparse despite the increasing awareness of CTD-ILD. In this population-based
257 case-control study, we found that O₃ exposure was inversely associated with the
258 development of ILD in patients with CTD after adjusting for potential confounders,
259 including concomitant medications and socioeconomic status. The finding highlights
260 the previously unrecognised association between exposure to air pollutants,
261 particularly O₃, and the development of CTD-ILD.

262 Although there is increasing evidence to implicate exposure to air pollutants in the
263 development of ILD, current evidence remains elusive due to the varied definition
264 for ILDs and the distinct air pollutants.²⁰ Rice MB *et al.* conducted a
265 community-dwelling population-based study in Framingham and reported that higher
266 long-term exposure to elemental carbon, an indicator of traffic pollution, was
267 associated with the incidence and progression of interstitial lung abnormalities
268 (ILAs); however, they found no association between average levels of PM_{2.5} and
269 incident ILAs.¹² In detail, unlike the positive association found between elemental
270 carbon (OR 1.27, 95% CI 1.04–1.55) as well as PM_{2.5} (OR 1.02, 95% CI 0.85–1.23)
271 and ILAs, an inverse association was found between O₃ (OR 0.91, 95% CI 0.78–1.06)
272 and ILAs. Similarly, Sack C *et al.* investigated 2,671 participants from the

1 273 Multi-Ethnic Study of Atherosclerosis (MESA) Lung study and reported that
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3 274 exposure to ambient NO_x was associated with a higher prevalence of ILAs, but the
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6 275 association was not found with exposure to PM_{2.5} and O₃.² Remarkably, consistent
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9 276 with our finding and the result of the study of Rice MB *et al.*, there was a significant
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12 277 inverse association between exposure to O₃ and incident ILAs (OR 0.30, 95% CI
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15 278 0.10–0.93) in never-smokers. Furthermore, one delicate Italian study also found the
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18 279 trend of the inverse association between O₃ exposure and the incidence rate of IPF.¹¹
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21 280 These three studies and our findings in patients with CTDs found the consistent but
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24 281 previously unrecognised inverse association between exposure to O₃ and incident
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27 282 ILDs.

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30 283 Studies have postulated that the quenching effect of O₃ could possibly be
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33 284 responsible for the inverse association between exposure to O₃ and incident ILDs.^{2 12}
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36 285 In fact, ground-level O₃ is a secondary pollutant resulting from the photochemical
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39 286 reaction among traffic-related air pollutants, including NO₂ and volatile organic
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42 287 compounds.⁶ A number of previous studies reported an inverse correlation between
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45 288 O₃ level and traffic-related air pollutants, including NO₂ and elemental carbon.^{2 11 12}
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48 289 However, some studies have reported that exposure to O₃ and other air pollutants
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51 290 was positively associated with a deteriorated disease course in patients with ILD,
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54 291 including hospitalisation, poor lung function and exacerbation of ILD.^{9 10 21} The
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57 292 aforementioned discordant findings with regard to the impact of O₃ exposure on
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1 293 ILDs reflect the complexity of ILD pathogenesis, which consists of initial insults
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4 294 resulting in the influx of inflammatory cells as well as alveolar epithelial damage and
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6 295 the subsequent deterioration caused by the recruitment and activation of pulmonary
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9 296 fibroblasts and myofibroblasts.²² Therefore, we postulate that O₃ exposure may exert
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12 297 distinct effects, including the quenching effect, on the development and clinical
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15 298 deterioration of ILD, and the present study further provides evidence regarding the
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18 299 impact of O₃ exposure on the development of CTD-ILD.

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21 300 The pathogenesis of CTD-ILD has been increasingly investigated in recent years,
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24 301 and the balance among T cells, including innate lymphoid cells (ILCs), has been
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27 302 identified to play an important role in the pathogenesis of CTD-ILD.²³⁻²⁵ Sendo S. *et*
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30 303 *al.*, using Zym-treated SKG mice to simulate RA-ILD, observed an increase in
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33 304 pathogenic Th17 cells in the inflamed lung tissue of RA-ILD mice and that
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36 305 tofacitinib ameliorated the interstitial lung disease.²⁶ In another recent study, which
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39 306 analysed the cytokine profiles of 40 patients with PM/DMtis-ILD, Th1 cells were
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42 307 found to play a key role in the pathogenesis of PM/DM-ILD.²⁷ Intriguingly, O₃ has
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45 308 been implicated in a high Th2 response in airway cells by enhancing the type 2
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48 309 ILC-associated pathway.^{7,28} Therefore, the O₃-associated expansion of the Th2
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51 310 pathway through ILCs may at least partly explain the potential protective effects of
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54 311 O₃ on the development of ILD in patients with CTD by ameliorating
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57 312 Th17/Th1-associated signalling in the airway.

1 313 Intriguingly, smoking was reported to affect the association between O₃ exposure
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3 314 and pulmonary diseases, including ILDs.² Sack C *et al.* observed that O₃ exerted a
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6 315 protective role in incident ILAs in never-smokers (OR 0.30, 95% CI 0.10–0.93)
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9 316 among participants in the MESA Lung study, whereas O₃ tended to be a risk factor
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12 317 for ILAs in ever-smokers (OR 1.44, 95% CI 0.52–4.01).² Smoking status is not
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15 318 recorded in the NHIRD; however, the majority of enrolled patients with CTD were
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18 319 females (74.9%), and there is a marked low prevalence of tobacco use among
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21 320 females in Taiwan (2.6%). Thus, we believe that the magnitude of the protective
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24 321 effect of O₃ against the development of CTD-ILD might at least partly be attributed
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27 322 by the high proportion of females in the study population.²⁹

30 323 There are some limitations in the present study. First, the NHIRD cannot provide
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33 324 laboratory data including titers of autoantibody; however, the medication data are
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36 325 comprehensive. In addition, the diagnoses of SLE, RA and SS were validated by at
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39 326 least two experienced and qualified rheumatologists by reviewing patients' medical
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42 327 charts, laboratory findings and images to issue a catastrophic illness certificate.
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45 328 Similarly, the accuracy of ILD in the claim is also a concern. One recently published
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48 329 study aimed to validate claims-based algorithms for identification of ILD in patients
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51 330 with RA found that the accuracy of RA-ILD was high if the diagnosis was made by
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54 331 specialists.³⁰ In the present study, we merely enrolled patients within the
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57 332 aforementioned catastrophic illness registry file. Therefore, the diagnoses of CTD
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1 333 and ILD were made by the rheumatologist, and the risk for misclassification should
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4 334 be at least partly mitigated. Second, the disease activity of CTD is not recorded, but
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6 335 we believe that we have adjusted for the essential CTD-associated medications,
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9 336 which were comprehensively in NHIRD. We think the adjustment of medications
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12 337 should largely reflect the disease activity. Third, varied mechanisms may underlie
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15 338 distinct CTDs; however, patients with distinct CTDs might have similar profibrotic
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18 339 pathways in the development of ILD.³¹ Fourth, given the case-control design we
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21 340 merely claim the association, instead of causal inference, between exposure to air
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24 341 pollutants and incident ILDs in patients with CTD. Furthermore, we have conducted
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27 342 further analyses using a longer period (2-year) of air pollutant exposure, and the
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30 343 results were consistent with the finding in the present study using 1-year exposure to
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33 344 air pollutants (Supplemental Table 1).

345 In conclusion, exposure to air pollutants is increasingly found to be associated
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39 346 with the development of a number of pulmonary diseases, including ILDs.
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42 347 Recent evidence has demonstrated that O₃ exposure appeared to have a negative
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45 348 association with the development of ILDs. In the present population-based
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48 349 case-control study, we found that exposure to O₃ was inversely associated with
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51 350 incident CTD-ILDs among patients with CTD in Taiwan. Further studies are
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54 351 warranted to validate these findings and explore the underlying mechanisms.
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352 **Authors' contributions:**

353 Conceived and designed the experiments: HHC, WCC, JCY, YHC and DYC.

354 Acquired data: YMY, CHL, JCY and HHC. Contributed materials/analysis tools:

355 WCC, YMY, JCY and HHC. Wrote the paper: HHC, JCY and WCC.

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361 manuscript.

362 **Competing interests:**

363 The authors have declared that no competing interests exist.

364 **Ethics approval**

365 This study was approved by the Institutional Review Board of Taichung Veterans

366 General Hospital, Taiwan (IRB number: CE14149B-3).

367 **Patient and Public Involvement**

368 This research was performed without patient involvement. Patients were not invited

369 with regards to design of study, measurement of outcome, and interpretation of

370 results.

371 **Data sharing statement**

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372 All of the data and materials are provided in the manuscript.

For peer review only

374 **Figure legend**

375 **Figure 1. Flowchart of subject enrolment**

For peer review only

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Table 1. Characteristics of enrolled subjects with ILDs and matched non-ILD controls

Variable	Non-ILD (n = 2,020)	ILD (n = 505)	p value
Basic data			
Age, years	59.4±14.0	60.1±14.7	0.30
Gender, female	1,520 (75.2)	380 (75.2)	1.00
Disease duration, years	6.9±5.1	6.7±5.7	0.45
CCI	1.4±1.4	1.8±1.5	<0.01
CCI without pulmonary disease	1.3±1.5	1.5±1.4	0.01
COPD	161 (8.0)	126 (25.0)	<0.01
Asthma	25 (1.2)	12 (2.4)	0.06
Urbanisation			
Level 1	588 (29.1)	165 (32.7)	0.48
Level 2	634 (31.4)	152 (30.1)	
Level 3	317 (15.7)	74 (14.7)	
Level 4	481 (23.8)	114 (22.6)	
Payroll-related insured amount, NTD			
≤15,840	615 (30.4)	160 (31.7)	0.94
15,841–20,100	393 (19.5)	96 (19.0)	
20,100–27,600	523 (25.9)	126 (25.0)	
≥27,600	489 (24.2)	123 (24.4)	
Medication			
csDMARDs			
Methotrexate	452 (22.4)	154 (30.5)	<0.01
Sulphasalazine	369 (18.3)	105 (20.8)	0.19
Leflunomide	103 (5.1)	44 (8.7)	<0.01
Hydroxychloroquine	1,058 (52.4)	308 (61.0)	<0.01
Cyclosporin	49 (2.4)	28 (5.5)	<0.01
Azathioprine	191 (9.5)	67 (13.3)	0.01
Cyclophosphamide	31 (1.5)	27 (5.3)	<0.01
Mycophenolate mofetil	20 (1.0)	6 (1.2)	0.69
Glucocorticoid	1,284 (63.6)	408 (80.8)	<0.01
Prednisolone equivalent, mg/day	2.5±4.1	5.1±8.5	<0.01
bDMARDs			
Anti-TNF			
Etanercept	95 (4.7)	42 (8.3)	<0.01
Adalimumab	57 (2.8)	25 (5.0)	0.02
Golimumab	36 (1.8)	18 (3.6)	0.01
Golimumab	3 (0.1)	0 (0.0)	0.39
Tocilizumab	1 (0.05)	2 (0.4)	0.04
Rituximab	16 (0.8)	10 (2.0)	0.02

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Air pollutant levels

1	PM2.5 ($\mu\text{g}/\text{m}^3$)	3.1 \pm 0.7	3.0 \pm 0.6	<0.01
2				
3	PM10 ($\mu\text{g}/\text{m}^3$)	5.4 \pm 1.2	5.1 \pm 1.1	<0.01
4	SO ₂ (ppb)	0.4 \pm 0.1	0.3 \pm 0.1	<0.01
5				
6	NO ₂ (ppb)	1.8 \pm 0.6	1.8 \pm 0.5	0.71
7	CO (ppm)	0.5 \pm 0.2	0.6 \pm 0.2	0.42
8				
9	O ₃ (ppb)	2.8 \pm 0.3	2.7 \pm 0.3	<0.01

Data are presented as mean \pm standard deviation and N (%). *Prednisolone equivalent. Abbreviations: ILD, interstitial lung disease; CCI, Charlson comorbidity index; COPD, chronic obstructive pulmonary disease; DMARDs, disease-modifying anti-rheumatic drugs; MMF, mycophenolate mofetil; MPA, mycophenolic acid; TNF, tumour necrosis factor; NA, not available; PM2.5, particulate matter <2.5 μm ; PM10, particulate matter <10 μm ; SO₂, sulphur dioxide; NO₂, nitrogen dioxide; CO, carbon monoxide; O₃, ozone.

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469 **Table 2. Crude and adjusted odds ratios for the association between ILD**
 470 **and variables in patients with CTD**

	OR (95% CI)	aOR (95% CI)
Comorbidity		
CCI without pulmonary disease	2.04 (1.52–2.74)	1.56 (1.13–2.16)
COPD	4.21 (3.19–5.55)	3.60 (2.68–4.82)
Urbanisation		
Level 1	Reference	
Level 2	0.86 (0.67–1.09)	
Level 3	0.83 (0.61–1.13)	
Level 4	0.85 (0.65–1.10)	
Payroll-related insured amount, NTD		
≤15,840	Reference	
15,841–20,100	0.94 (0.70–1.25)	
20,100–27,600	0.92 (0.71–1.21)	
≥27,600	0.96 (0.71–1.30)	
Medication		
Methotrexate	1.75 (1.35–2.25)	1.41 (1.06–1.89)
Sulphasalazine	1.22 (0.93–1.61)	0.84 (0.62–1.14)
Leflunomide	1.85 (1.26–2.72)	1.47 (0.96–2.25)
Hydroxychloroquine	1.47 (1.19–1.80)	1.18 (0.93–1.48)
Immunosuppressants	2.05 (1.55–2.70)	1.35 (0.99–1.85)
Steroid*, mg/day	1.12 (1.09–1.14)	1.09 (1.06–1.11)
Anti-TNF	1.99 (1.33–2.99)	1.25 (0.79–1.97)
Tocilizumab	8.00 (0.73–88.23)	7.81 (0.56–109.85)
Rituximab	2.50 (1.14–5.51)	1.55 (0.64–3.74)
Air pollutants		
PM2.5 (per 10 µg/m ³)	0.67 (0.58–0.78)	0.72 (0.47–1.09)
PM10 (per 10 µg/m ³)	0.80 (0.74–0.88)	1.06 (0.83–1.37)
SO ₂ (per 10 ppb)	0.19 (0.08–0.49)	0.40 (0.12–1.30)
NO ₂ (per 10 ppb)	1.03 (0.87–1.23)	
CO (per 1 ppm)	1.19 (0.78–1.80)	
O ₃ (per 10 ppb)	0.50 (0.35–0.71)	0.51 (0.33–0.79)

*Prednisolone equivalent. Abbreviations: ILD, interstitial lung disease; CCI, Charlson comorbidity index; COPD, chronic obstructive pulmonary disease; TNF, tumour necrosis factor; NA, not available; PM2.5, particulate matter <2.5 µm; PM10, particulate matter <10 µm; SO₂, sulphur dioxide; NO₂, nitrogen dioxide; CO, carbon monoxide; O₃, ozone.

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Table 3. Crude and adjusted odds ratios for the association between the risk of ILD development and variables in patients with rheumatoid arthritis

Variable	Univariable OR (95% CI)	Multivariable aOR (95% CI)
Comorbidity		
CCI without pulmonary disease	3.49 (1.67–7.30)	1.70 (0.77–3.71)
COPD	2.94 (1.98–4.36)	2.35 (1.54–3.59)
Urbanisation		
Level 1	Reference	
Level 2	1.06 (0.71–1.57)	
Level 3	0.87 (0.54–1.40)	
Level 4	0.88 (0.58–1.32)	
Payroll-related insured amount, NTD		
≤15,840	Reference	
15,841–20,100	1.10 (0.72–1.68)	
20,100–27,600	0.88 (0.59–1.30)	
≥27,600	0.95 (0.57–1.57)	
Medication		
Methotrexate	1.66 (1.22–2.26)	1.28 (0.91–1.82)
Sulphasalazine	1.16 (0.86–1.58)	
Leflunomide	1.94 (1.30–2.91)	1.35 (0.85–2.15)
Hydroxychloroquine	1.73 (1.25–2.38)	1.36 (0.95–1.94)
Immunosuppressants	2.68 (1.60–4.50)	1.53 (0.86–2.73)
Steroid*, mg/day	1.15 (1.10–1.21)	1.11 (1.05–1.17)
Anti-TNF	2.11 (1.39–3.21)	1.31 (0.82–2.09)
Tocilizumab	8.00 (0.73–88.23)	11.19 (0.75–166.66)
Rituximab	2.67 (1.20–5.94)	1.67 (0.69–4.02)
Air pollutants		
PM2.5 (per 10 µg/m ³)	0.77 (0.61–0.97)	0.97 (0.50–1.89)
PM10 (per 10 µg/m ³)	0.86 (0.76–0.97)	0.89 (0.62–1.29)
SO ₂ (per 10 ppb)	0.52 (0.13–2.03)	
NO ₂ (per 10 ppb)	0.98 (0.75–1.28)	
CO (per 1 ppm)	0.96 (0.48–1.92)	
O ₃ (per 10 ppb)	0.70 (0.41–1.20)	0.69 (0.37–1.29)

*Prednisolone equivalent. Abbreviations: ILD, interstitial lung disease; CCI, Charlson comorbidity index; COPD, chronic obstructive pulmonary disease; TNF, tumour necrosis factor; NA, not available; PM2.5, particulate matter <2.5 µm; PM10, particulate matter <10 µm; SO₂, sulphur dioxide; NO₂, nitrogen dioxide; CO, carbon monoxide; O₃, ozone.

Table 4. Crude and adjusted odds ratios for the association between the risk of ILD development and variables in patients with systemic lupus erythematosus and primary Sjögren's syndrome

Variable	Systemic lupus erythematosus		Primary Sjögren's syndrome	
	Univariable OR (95% CI)	Multivariable aOR (95% CI)	Univariable OR (95% CI)	Multivariable aOR (95% CI)
Comorbidity				
CCI without pulmonary disease	2.87 (0.86–9.65)	1.64 (0.40–6.66)	1.47 (0.98–2.22)	1.36 (0.87–2.14)
COPD	7.83 (3.54–17.29)	10.52 (3.97–27.89)	7.14 (3.85–13.24)	5.99 (3.04–11.78)
Urbanisation				
Level 1	Reference	Reference	Reference	
Level 2	0.51 (0.27–0.94)	0.69 (0.27–1.78)	0.81 (0.50–1.31)	
Level 3	0.59 (0.28–1.23)	0.79 (0.26–2.44)	1.24 (0.68–2.25)	
Level 4	0.74 (0.37–1.47)	1.81 (0.48–6.88)	0.90 (0.53–1.55)	
Payroll-related insured amount, NTD				
≤15,840	Reference		Reference	
15,841–28,800	0.61 (0.26–1.39)		1.18 (0.66–2.10)	
28,801–45,800	0.93 (0.46–1.88)		1.02 (0.58–1.78)	
≥45,801	1.07 (0.52–2.20)		0.86 (0.46–1.59)	
Medication				
Methotrexate	0.69 (0.19–2.44)		0.81 (0.29–2.26)	
Sulphasalazine	3.04 (0.99–9.26)	3.19 (0.81–12.56)	0.96 (0.41–2.25)	
Leflunomide	<0.01 (<0.01–>99)		1.33 (0.14–12.82)	

Hydroxychloroquine	1.27 (0.75–2.13)		1.26 (0.82–1.95)	
Immunosuppressants	1.47 (0.89–2.45)	1.06 (0.55–2.05)	3.39 (1.62–7.07)	1.84 (0.78–4.34)
Steroid*, mg/day	1.09 (1.05–1.14)	1.09 (1.03–1.15)	1.17 (1.09–1.25)	1.11 (1.03–1.18)
Air pollutants				
PM2.5 (per 10 µg/m ³)	0.59 (0.41–0.86)	0.23 (0.07–0.73)	0.61 (0.44–0.84)	0.73 (0.30–1.76)
PM10 (per 10 µg/m ³)	0.79 (0.64–0.98)	1.96 (0.98–3.89)	0.76 (0.63–0.91)	1.04 (0.61–1.75)
SO ₂ (per 10 ppb)	0.13 (0.01–1.30)	0.41 (0.01–15.74)	0.08 (0.01–0.61)	0.10 (0.01–1.41)
NO ₂ (per 10 ppb)	1.41 (0.93–2.15)	0.98 (0.15–6.57)	0.99 (0.70–1.40)	
CO (per 1 ppm)	2.45 (0.96–6.20)	0.94 (0.03–26.11)	1.34 (0.59–3.04)	
O ₃ (per 10 ppb)	0.23 (0.09–0.58)	0.06 (0.01–0.43)	0.65 (0.31–1.34)	

*Prednisolone equivalent. Abbreviations: ILD, interstitial lung disease; CCI, Charlson comorbidity index; COPD, chronic obstructive pulmonary disease; TNF, tumour necrosis factor; NA, not available; PM2.5, particulate matter <2.5 µm; PM10, particulate matter <10 µm; SO₂, sulphur dioxide; NO₂, nitrogen dioxide; CO, carbon monoxide; O₃, ozone.

Table 5. Crude and adjusted odds ratios for the association between the risk of ILD development and variables in patients with systemic sclerosis and dermatomyositis/polymyositis

Variable	Systemic sclerosis		Dermatomyositis/polymyositis	
	Univariable OR (95% CI)	Multivariable aOR (95% CI)	Univariable OR (95% CI)	Multivariable aOR (95% CI)
Comorbidity				
CCI without pulmonary disease	0.39 (0.11–1.46)	5.51 (1.11–27.26)	1.55 (0.68–3.54)	
COPD	0.80 (0.33–1.91)	2.80 (0.97–8.07)	4.19 (1.38–12.71)	7.73 (1.39–32.51)
Urbanisation				
Level 1	Reference	Reference	Reference	
Level 2	1.02 (0.47–2.20)	1.53 (0.56–4.18)	0.90 (0.39–2.08)	
Level 3	0.39 (0.11–1.46)	0.73 (0.15–3.68)	0.74 (0.26–2.13)	
Level 4	0.80 (0.33–1.91)	1.97 (0.51–7.57)	0.84 (0.31–2.27)	
Payroll-related insured amount, NTD				
≤15,840	Reference		Reference	Reference
15,841–28,800	1.01 (0.36–2.79)		0.36 (0.12–1.11)	0.39 (0.09–1.61)
28,801–45,800	1.19 (0.45–3.12)		0.66 (0.25–1.77)	0.32 (0.09–1.16)
≥45,801	1.14 (0.42–3.14)		0.74 (0.30–1.86)	0.24 (0.06–0.94)
Medication				
Methotrexate	1.00 (0.24–4.11)		5.70 (2.74–11.88)	5.55 (2.77–20.62)
Sulphasalazine	<0.01 (<0.01–>99)		12.00	12.31 (0.14–36.92)

				(1.25–115.36)	
	Leflunomide	2.00 (0.18–22.06)		>99(<0.01–>99)	
	Hydroxychloroquine	0.87 (0.44–1.72)		2.21 (1.12–4.39)	0.95 (0.38–2.38)
	Immunosuppressants	2.11 (1.01–4.44)	1.05 (0.40–2.74)	1.52 (0.79–2.95)	
	Steroid*, mg/day	1.16 (1.07–1.25)	1.12 (1.02–1.23)	1.07 (1.02–1.11)	1.06 (1.004–1.12)
	Air pollutants				
	PM2.5 (per 10 µg/m ³)	0.69 (0.41–1.18)	1.14 (0.27–4.73)	0.57 (0.34–0.95)	0.31 (0.05–1.80)
	PM10 (per 10 µg/m ³)	0.77 (0.57–1.04)	0.91 (0.35–2.35)	0.72 (0.54–0.97)	0.34 (0.47–3.79)
	SO ₂ (per 10 ppb)	0.06 (0.00–2.27)	0.12 (<0.01–16.34)	0.07 (0.00–1.99)	2.82 (0.01–574.01)
	NO ₂ (per 10 ppb)	0.95 (0.53–1.70)		0.90 (0.50–1.62)	
	CO (per 1 ppm)	0.96 (0.24–3.86)		0.51 (0.11–2.43)	
	O ₃ (per 10 ppb)	0.28 (0.08–1.02)	0.16 (0.02–1.30)	0.30 (0.08–1.11)	0.36 (0.06–2.40)

*Prednisolone equivalent. Abbreviations: ILD, interstitial lung disease; CCI, Charlson comorbidity index; COPD, chronic obstructive pulmonary disease; TNF, tumour necrosis factor; NA, not available; PM2.5, particulate matter <2.5 µm; PM10, particulate matter <10 µm; SO₂, sulphur dioxide; NO₂, nitrogen dioxide; CO, carbon monoxide; O₃, ozone.

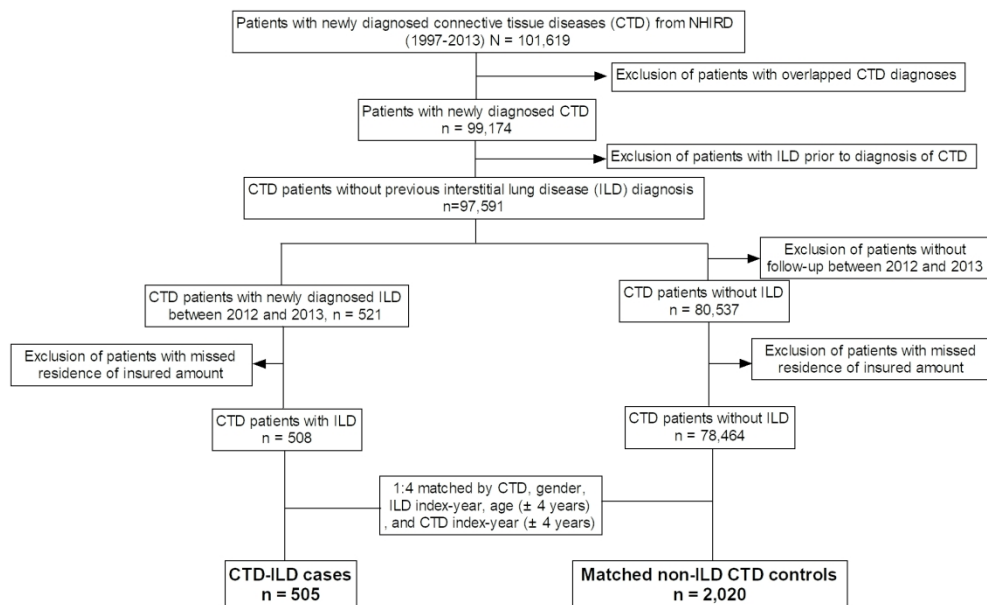


Figure 1

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Supplemental Table 1. Crude and adjusted odds ratios for the association between ILD and variables in patients with CTD

	OR (95% CI)	aOR (95% CI)
Comorbidity		
CCI without pulmonary disease	2.16 (1.42–3.30)	1.64 (1.03–2.62)
COPD	4.35 (2.92–6.48)	3.63 (2.38–5.54)
Urbanisation		
Level 1	Reference	
Level 2	0.89 (0.63–1.27)	
Level 3	0.80 (0.51–1.25)	
Level 4	0.88 (0.61–1.29)	
Payroll-related insured amount, NTD		
≤15,840	Reference	
15,841–20,100	1.15 (0.76–1.72)	
20,100–27,600	1.00 (0.69–1.46)	
≥27,600	0.94 (0.61–1.46)	
Medication		
Methotrexate	1.66 (1.17–2.37)	1.31 (0.87–1.96)
Sulphasalazine	1.31 (0.90–1.93)	0.86 (0.56–1.32)
Leflunomide	1.57 (0.91–2.71)	1.07 (0.57–1.99)
Hydroxychloroquine	1.59 (1.18–2.14)	1.31 (0.95–1.82)
Immunosuppressants	2.21 (1.50–3.27)	1.29 (0.83–2.01)
Steroid*, mg/day	1.13 (1.09–1.17)	1.11 (1.06–1.15)
Anti-TNF	2.10 (1.21–3.64)	1.25 (0.79–1.97)
Tocilizumab	8.00 (0.73–88.23)	1.46 (0.78–2.71)
Rituximab	2.55 (0.99–6.57)	8.11 (0.55–120.18)
Air pollutants		
PM2.5 (per 10 µg/m ³)	0.71 (0.57–0.89)	0.71 (0.37–1.37)
PM10 (per 10 µg/m ³)	0.82 (0.73–0.93)	1.10 (0.75–1.63)
SO ₂ (per 10 ppb)	0.27 (0.08–0.94)	0.52 (0.10–2.68)
NO ₂ (per 10 ppb)	1.04 (0.81–1.32)	
CO (per 1 ppm)	1.25 (0.69–2.26)	
O ₃ (per 10 ppb)	0.54 (0.32–0.91)	0.47 (0.25–0.89)

*Prednisolone equivalent. Abbreviations: ILD, interstitial lung disease; CCI, Charlson comorbidity index; COPD, chronic obstructive pulmonary disease; TNF, tumour necrosis factor; NA, not available; PM2.5, particulate matter <2.5 µm; PM10, particulate matter <10 µm; SO₂, sulphur dioxide; NO₂, nitrogen dioxide; CO, carbon monoxide; O₃, ozone.

STROBE Statement—checklist of items that should be included in reports of observational studies

	Item No	Recommendation
Title and abstract	1	Air pollutants and development of interstitial lung disease in patients with connective tissue disease: a population-based case-control study in Taiwan Structured abstract on page 3-4
Introduction		
Background/rationale	2	Page 6-7
Objectives	3	Page 6, line 103-108
Methods		
Study design	4	Page 8, line 114-115
Setting	5	Page 8-9, line 117-132
Participants	6	Page 9-10, case group line 145-148, control line 149-152
Variables	7	Page 10-12, line 164-192
Data sources/ measurement	8*	Page 8-9, line 116-132
Bias	9	Page 10-12, line 163-192
Study size	10	Page 9, line 134-139
Quantitative variables	11	Page 10, line 153-162
Statistical methods	12	Page 12, line 193-205
Results		
Participants	13*	Page 13, line 208-210
Descriptive data	14*	Page 13-14, line 208-224 (table 1)
Outcome data	15*	Page 13-14, line 229-236
Main results	16	Page 14-15, line 237-252
Other analyses	17	N/A
Discussion		
Key results	18	Page 16, line 254-261
Limitations	19	Page 19-20, line 323-344
Interpretation	20	Page 16-19, line 262-322
Generalisability	21	Page 19, line 328-331
Other information		
Funding	22	Page 21, line 357-361

*Give information separately for cases and controls in case-control studies and, if applicable, for exposed and unexposed groups in cohort and cross-sectional studies.

Note: An Explanation and Elaboration article discusses each checklist item and gives methodological background and published examples of transparent reporting. The STROBE checklist is best used in conjunction with this article (freely available on the Web sites of PLoS Medicine at <http://www.plosmedicine.org/>, Annals of Internal Medicine at <http://www.annals.org/>, and Epidemiology at <http://www.epidem.com/>). Information on the STROBE Initiative is available at www.strobe-statement.org.

BMJ Open

Air pollutants and development of interstitial lung disease in patients with connective tissue disease: a population-based case-control study in Taiwan

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Secondary Subject Heading:	Respiratory medicine, Public health
Keywords:	EPIDEMIOLOGY, Rheumatology < INTERNAL MEDICINE, Thoracic medicine < INTERNAL MEDICINE

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1 **Air pollutants and development of interstitial lung disease in patients**
2 **with connective tissue disease: a population-based case-control study**
3 **in Taiwan**

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36 **Running title: Air pollutants and CTD-ILD**

1 **37 Abstract**

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3 **38 Objective:**

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6 **39** The aim of this study was to assess the association between air pollutant exposure and
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9 **40** interstitial lung disease (ILD) in patients with connective tissue diseases (CTDs).

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12 **41 Setting:**

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15 **42** A nationwide, population-based, matched case-control study in Taiwan

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18 **43 Participants:**

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21 **44** Using the 1997–2013 Taiwanese National Health Insurance Research Database, we
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24 **45** identified patients with newly diagnosed CTD during 2001–2013, including systemic
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27 **46** lupus erythematosus (SLE), rheumatoid arthritis (RA), systemic sclerosis (SSc),
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30 **47** dermatomyositis (DMtis)/polymyositis (PM) and primary Sjögren’s syndrome (pSS).

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33 **48 Primary and secondary outcome measures**

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36 **49** Patients with newly diagnosed ILD during 2012–2013 were identified as ILD cases,
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39 **50** and selected CTD patients without ILD matching (1:4) the CTD cases for CTD
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42 **51** diagnosis, age, gender, disease duration and year of ILD diagnosis date were
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45 **52** identified as non-ILD controls. Data of hourly level of air pollutants 1 year before the
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48 **53** index date were obtained from the Taiwan Environmental Protection Agency. The
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51 **54** association between ILD and air pollutant exposure was evaluated using logistic
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54 **55** regression analysis shown as adjusted odds ratios (aORs) with 95% confidence
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57 **56** intervals (CIs) after adjusting for potential confounders.
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1 57 **Results:** We identified 505 newly diagnosed CTD-ILD patients, including 82 with
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4 58 SLE, 210 with RA, 47 with SSc, 44 with DMtis/PM and 122 with pSS. O₃ exposure
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6 59 (per 10 ppb) was associated with a decreased ILD risk in patients with CTD (aOR,
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9 60 0.51; 95% CI, 0.33–0.79) after adjusting for potential confounders.
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12 61 **Conclusions:** A previously unrecognised inverse correlation was found between O₃
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15 62 exposure and ILD in patients with RA and SSc. Further studies are warranted to
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18 63 explore the underlying mechanisms.
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21 64 **Keywords:** air pollutant, ozone, interstitial lung disease, connective tissue disease.
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65 **Strengths and limitations of this study**

- 66 1. This population-based study was conducted on a relatively large sample size, which
67 can be generalised to the national level.
- 68 2. The study used two nationwide databases to address the association between
69 exposure to air pollutants and the development of interstitial lung disease (ILD) in
70 patients with connective tissue disease (CTD).
- 71 3. The selection bias of the present population-based study using claim data is
72 minimal.
- 73 4. Given the nature of the secondary data, the analysis misses some crucial variables,
74 such as disease activity and laboratory data.

75 **Background**

76 Interstitial lung disease (ILD) is characterised by progressive inflammation and
77 fibrosis, and accumulating evidence has demonstrated an association between
78 exposure to air pollutants and the development and disease course of ILD.^{1 2}
79 Autoimmune rheumatic diseases show a strong correlated with ILD, including
80 connective tissue disease-associated ILD (CTD-ILD) as well as interstitial pneumonia
81 with autoimmune features; furthermore, the development of CTD-ILD has been
82 reported to be an important cause of morbidity and mortality in patients with CTD.^{3 4}
83 A recent Taiwanese study reported that exposure to air pollutants, primarily nitrogen
84 dioxide (NO₂), was associated with incident systemic lupus erythematosus (SLE).⁵
85 Given that exposure to air pollutants has been implicated in ILD and CTD, there is a
86 need to investigate the association between exposure to air pollutants and CTD-ILD.

87 Among the distinct air pollutants, ozone (O₃) is generated through chemical
88 reactions, the so-called quenching reaction, among pollutants, primary oxides of
89 nitrogen, in the presence of sunlight.⁶ Exposure to O₃ was implicated with an
90 increased Th2 response through enhancing the type 2 innate lymphoid cell
91 (ILC)-associated pathway in airway cells, and Th1 response appears to be dominant
92 in ILD.^{7 8} Intriguingly, previous studies have reported a positive association between
93 exposure to O₃ and the risk of acute exacerbation as well as poor pulmonary function
94 in patients with idiopathic pulmonary fibrosis (IPF).^{9 10} However, few studies have

1 95 shown that O₃ exposure might have an inverse correlation with incident ILDs, and
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4 96 the quenching effect as well as dysregulated T cell response by O₃ might possibly
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6 97 underlie this intriguing correlation.^{2 11 12} The aforementioned evidence indicates the
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9 98 complex association between exposure to air pollutants, particularly O₃, and ILD.
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12 99 Moreover, evidence of the impacts of exposure to air pollutants on incident ILD in
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15 100 patients with CTD is still lacking. Therefore, there is a crucial need to address the
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18 101 impact of exposure to air pollutants on the development of ILD among patients with
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21 102 CTD. The Taiwanese National Health Insurance Research Database (NHIRD) has
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24 103 facilitated population-based epidemiological studies. Therefore, in the present study,
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27 104 we aimed to conduct a population-based case-control study to explore the association
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30 105 between ILD development and exposure to air pollutants in patients with CTDs,
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33 106 including SLE, rheumatoid arthritis (RA), systemic sclerosis (SSc), dermatomyositis
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36 107 (DMtis)/polymyositis (PM) and primary Sjögren's syndrome (pSS), using the
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39 108 NHIRD.
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109 **METHODS**

110 **Ethics approval**

111 This study was approved by the Institutional Review Board of Taichung Veterans
112 General Hospital, Taiwan (IRB number: CE14149B-3). Informed consent was waived
113 as all the data used for analyses were de-identified.

114 **Study design**

115 This research was a nationwide, population-based, matched case-control study.

116 **Data source**

117 Taiwan had launched a single-payer, compulsory National Health Insurance
118 programme in 1995, with nationwide coverage of up to 99.6% of Taiwan's population
119 in 2015.¹³ The NHIRD contains all-inclusive claims data regarding the information on
120 registration, demographic characteristics, residence, medication prescription,
121 diagnosis, examinations, procedures, surgeries, medical expenditure, outpatient
122 services, inpatient services and medication prescription. The NHIRD also registered
123 all patients with major illnesses such as CTDs and malignancies in the catastrophic
124 illness registry in case the catastrophic illness-related diagnoses were validated by two
125 independent specialists through a detailed review of patients' original medical records.
126 A catastrophic illness certificate is then issued to these patients, who are then exempt
127 from expenses for medical services. In the present study, we used multiple files,
128 including registration file, ambulatory file, inpatient file and catastrophic illness

1 129 registry file, in the NHIRD from 1997 to 2013. The accuracy of the claims data from
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4 130 the NHIRD has been improved by regularly auditing the original medical records. The
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7 131 NHIRD was managed by the National Health Research Institute and was released for
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10 132 research purpose after the encryption of personal information.

133 **Identification of patients with CTD from the entire population in Taiwan**

134 We used the 1997–2013 NHIRD to identify patients with CTDs who were registered
135 in the catastrophic illness registry between 2001 and 2013 for newly diagnosed CTDs,
136 including SLE (International Classification of Diseases, Ninth Revision, Clinical
137 Modification [ICD-9-CM] code 710.0), RA (ICD-9-CM codes 714.0 and
138 714.30–714.33), SSc (ICD-9-CM code 710.1), DMtis (ICD-9-CM code 710.3), PM
139 (ICD-9-CM code 710.4) or pSS (ICD-9-CM code, 710.2). The date of CTD diagnosis
140 was defined as the date of initial application for a catastrophic illness certificate for
141 the corresponding CTD. From patients with CTD, we included those who did not
142 have overlapping CTD diagnoses and those who did not have any ambulatory or
143 inpatient visit with a diagnosis of ILD (ICD-9 code 515 and 516.36) or idiopathic
144 interstitial pneumonia before the time of CTD diagnosis as the CTD cohort (Fig. 1).

145 **Identification of ILD cases from the CTD cohort**

146 We identified those who had a new diagnosis of ILD (ICD-9 code 515 and 516.36)
147 after the CTD diagnosis date during 2012–2013 as ILD cases. The index date was
148 defined as the date of first ambulatory or inpatient visit with a diagnosis of ILD.

149 **Selection of matched non-ILD controls from the CTD cohort**

150 From the CTD cohort, we randomly selected those who never had a diagnosis of ILD
151 matching (1:4) the ILD cases for diagnosis of CTDs, sex, age (± 4 years), disease
152 duration (± 4 years) and the year of index date as non-ILD controls.

153 **Measurement of exposure to air pollutants**

154 The hourly level of air pollutants across from 60 air quality monitoring stations were
155 used to calculate the mean level of exposed air pollutants, including particulate matter
156 $< 2.5 \mu\text{m}$ in size (PM_{2.5}), particulate matter $< 10 \mu\text{m}$ in size (PM₁₀), nitrogen dioxide
157 (NO₂), carbon monoxide (CO), sulphur dioxide (SO₂) and ozone (O₃), one year prior
158 to the index date.¹⁴ The ambient air pollutant concentrations at each residential
159 location were estimated using a spatio-temporal model built via a deep-learning
160 approach.¹⁵ In brief, we used graph convolutional neural network to estimate the level
161 of air pollutants at each residential locations, and the ambient level of air pollutants at
162 374 residential locations across Taiwan was estimated based on the data of three air
163 quality monitoring stations near the location.

164 **Potential confounders**

165 The factors that may affect the association between exposure to air pollutants and
166 incident ILD were taken into account as the confounder in the regression to estimate
167 the impact of air pollutant on incident ILD in patients with CTD. Potential
168 confounders that were adjusted for in the multivariable logistic regression model

1 169 included age, gender, disease duration, Charlson comorbidity index (CCI) without the
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4 170 chronic pulmonary disease, diagnosis with chronic obstructive pulmonary disease
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7 171 (COPD)/asthma, use of biological disease-modifying anti-rheumatic drugs
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10 172 (bDMARDs), use of conventional synthetic DMARDs (csDMARDs), use of
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13 173 immunosuppressants, glucocorticoid dose (average daily prednisolone equivalent
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16 174 dose), urbanisation level of the patient's residence and the level of payroll-related
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19 175 insured amount. The presence of comorbidity was defined as the presence of one or
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22 176 more inpatient visits or at least three ambulatory visits with a corresponding
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25 177 ICD-9-CM code within 1 year before the index date. The CCI revised by Deyo *et al.*
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28 178 was applied to analyse the general comorbid medical condition.¹⁶ In Taiwan, the
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31 179 available bDMARDs before 31 December 2013 were anti-tumour necrosis factor
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34 180 (anti-TNF, including etanercept, adalimumab and golimumab), tocilizumab (TCZ)
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37 181 and rituximab (RTX). The csDMARDs included hydroxychloroquine (HCQ),
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40 182 sulphasalazine (SSZ), methotrexate (MTX) and leflunomide (LEF).
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43 183 Immunosuppressants included cyclophosphamide (CP), cyclosporin (CSA),
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46 184 azathioprine (AZA) and mycophenolate mofetil (MMF)/mycophenolic acid (MPA).
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49 185 Given that socioeconomic status might confound the association between air pollutant
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52 186 exposure and pulmonary diseases, we measured the socioeconomic status of each
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55 187 participant based on the urbanisation level and payroll-related insured amount.¹⁷ The
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58 188 urbanisation level of the patient's residence was categorised into four clusters based
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1 189 on population density (people/km²), population ratio of elderly subjects aged >65
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4 190 years, population ratio of subjects with educational levels of college or above,
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6 191 population ratio of agricultural workers and the number of physicians/100,000
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9 192 subjects.¹⁸ Payroll-related insured amount was transformed into categorical variable
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12 193 with four levels based on quantiles.

15 194 **Statistical analyses**

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18 195 Data are represented as the number of patients (%) for categorical variables and either
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21 196 mean ± standard deviation for continuous variables. Categorical variables were
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24 197 compared using the χ^2 test or the Fisher's exact test, and continuous variables were
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27 198 compared using the *t*-test. Variables were considered as candidates for inclusion in the
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30 199 multivariable model if the associated univariate p-value was lower than 0.20.¹⁹

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33 200 The association between the risk of ILD development and the exposure to air
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36 201 pollutants was examined using a multivariable conditional logistic regression analysis
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39 202 after adjusting for age, gender, CCI, urbanisation level, level of payroll-related
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42 203 insured amount and medications for CTD and is represented as adjusted odds ratio
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45 204 (aOR) with 95% confidence intervals (CIs). All data were analysed using the
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48 205 statistical software version 9.3 (SAS Institute, Inc., Cary, NC, USA). A p-value <0.05
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51 206 was considered as statistically significant.

54 207 **Patient and Public Involvement**

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57 208 This research was performed without patient involvement. Patients were not invited
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1 209 with regards to design of study, measurement of outcome, and interpretation of
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For peer review only

212 RESULTS

213 Study subjects with CTDs

214 A total of 505 patients with CTD-ILD were included in this study, consisting of 82
215 with SLE, 210 with RA, 47 with SSc, 44 with DMtis/PM and 122 with pSS. A total
216 of 2,020 patients were selected as matched non-ILD CTD controls. As shown in
217 Table 1, patients with CTD-ILD and the non-ILD CTD controls had similar
218 distributions of age, gender and disease duration. Compared with the non-ILD
219 controls, patients with ILD had a higher CCI (1.8 ± 1.5 vs 1.4 ± 1.4 , $p < 0.01$), were
220 more likely to have COPD (25.0% vs 8.0%, $p < 0.01$), received a higher dose of
221 glucocorticoid (GC) (5.1 ± 8.5 vs 2.5 ± 4.1 mg/day, prednisolone equivalent dose) and
222 were more likely to use MTX (30.5% vs 22.4%, $p < 0.01$), LEF (8.7% vs 5.1%, $p <$
223 0.01), HCQ (61.0% vs 52.4%, $p < 0.01$), CSA (5.5% vs 2.4%, $p < 0.01$), AZA (13.3%
224 vs 9.5%, $p = 0.01$), CP (5.3% vs 1.5%, $p < 0.01$), and anti-TNF (8.3% vs 4.7%, $p <$
225 0.01). The socioeconomic status, including the urbanisation level and the level of
226 payroll-related insured amount, tended to be similar between patients with ILD and
227 the non-ILD controls. Regarding the exposure to air pollutants, patients with ILD had
228 a slightly lower average exposure to PM_{2.5} (3.0 ± 0.6 vs 3.1 ± 0.7 $\mu\text{g}/\text{m}^3$, $p < 0.01$),
229 PM₁₀ (5.1 ± 1.1 vs 5.4 ± 1.2 $\mu\text{g}/\text{m}^3$, $p < 0.01$), SO₂ (0.3 ± 0.1 vs 0.4 ± 0.1 ppb, $p <$
230 0.01) and O₃ (2.7 ± 0.3 vs 2.8 ± 0.3 ppb, $p < 0.01$) (Table 1). Altogether, these data
231 showed that patients with CTD-ILD used a higher dose of GC; had greater

1 232 proportions of using csDMARDs, immunosuppressants and anti-TNF and were
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3 233 exposed to lower levels of air pollutants, primarily PM_{2.5}, PM₁₀, SO₂ and O₃, than
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6 234 the non-ILD controls (see details in supplemental dataset).
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9 235 **Association of the risk of ILD development with comorbidity and socioeconomic**
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12 236 **status**
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15 237 As depicted in Table 2, CCI without the pulmonary disease (aOR, 1.56; 95% CI
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18 238 1.13–2.16) and COPD (aOR, 3.60; 95% CI 2.68–4.82) were significantly associated
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21 239 with a higher risk of developing ILD in patients with CTD. In subgroup analyses
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24 240 according to CTD, the positive association between COPD and ILD remained
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27 241 significant in patients with RA, SLE, pSS and DMtis/PM, but not in patients with
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30 242 SSc (Tables 3–5).
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33 243 **Association between medications for CTD and the risk of ILD development**
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36 244 As shown in Table 2, a positive association can be found between prednisolone
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39 245 equivalent dose (mg/day) and ILD risk (aOR 1.09, 95% CI, 1.06–1.11) in all patients
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42 246 with CTD. The positive association between GC dose and ILD risk remained
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45 247 statistically significant in all of the subgroups of CTD (Tables 3–5). Regarding the
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48 248 use of DMARDs, we observed a positive association of ILD risk with MTX use
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51 249 among all patients with CTD (Table 2). However, subgroup analyses of CTD
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54 250 revealed that the positive association between MTX use and ILD risk remained
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57 251 statistically significant only in patients with DMtis/PM (Tables 3–5).
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252 Association between exposure to air pollutants and ILD development

253 We then evaluated the factors associated with ILD development in patients with
254 various CTDs. Exposure to O₃ (aOR, 0.51; 95% CI, 0.33–0.79) was found to have an
255 inverse association with the risk of ILD development after adjusting for potential
256 confounders. As shown in Tables 3–5, the subgroup analyses based on CTD revealed
257 that the protective effect of O₃ against ILD risk was consistently present in patients
258 with SLE, but did not reach statistical significance in patients with the other CTDs.

259 DISCUSSION

260 The association between O₃ exposure and ILD development currently remains
261 elusive, and evidence regarding air pollutant exposure and CTD-ILD is extremely
262 sparse despite the increasing awareness of CTD-ILD. In this population-based
263 case-control study, we found that O₃ exposure was inversely associated with the
264 development of ILD in patients with CTD after adjusting for potential confounders,
265 including concomitant medications and socioeconomic status. The finding highlights
266 the previously unrecognised association between exposure to air pollutants,
267 particularly O₃, and the development of CTD-ILD.

268 Although there is increasing evidence to implicate exposure to air pollutants in the
269 development of ILD, current evidence remains elusive due to the varied definition
270 for ILDs and the distinct air pollutants.²⁰ Rice MB *et al.* conducted a
271 community-dwelling population-based study in Framingham and reported that higher
272 long-term exposure to elemental carbon, an indicator of traffic pollution, was
273 associated with the incidence and progression of interstitial lung abnormalities
274 (ILAs); however, they found no association between average levels of PM_{2.5} and
275 incident ILAs.¹² In detail, unlike the positive association found between elemental
276 carbon (OR 1.27, 95% CI 1.04–1.55) as well as PM_{2.5} (OR 1.02, 95% CI 0.85–1.23)
277 and ILAs, an inverse association was found between O₃ (OR 0.91, 95% CI 0.78–1.06)
278 and ILAs. Similarly, Sack C *et al.* investigated 2,671 participants from the

1 279 Multi-Ethnic Study of Atherosclerosis (MESA) Lung study and reported that
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3 280 exposure to ambient NO_x was associated with a higher prevalence of ILAs, but the
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6 281 association was not found with exposure to PM_{2.5} and O₃.² Remarkably, consistent
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9 282 with our finding and the result of the study of Rice MB *et al.*, there was a significant
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12 283 inverse association between exposure to O₃ and incident ILAs (OR 0.30, 95% CI
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15 284 0.10–0.93) in never-smokers. Furthermore, one delicate Italian study also found the
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18 285 trend of the inverse association between O₃ exposure and the incidence rate of IPF.¹¹
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21 286 These three studies and our findings in patients with CTDs found the consistent but
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24 287 previously unrecognised inverse association between exposure to O₃ and incident
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27 288 ILDs.

289 Studies have postulated that the quenching effect of O₃ could possibly be
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33 290 responsible for the inverse association between exposure to O₃ and incident ILDs.^{2 12}
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36 291 In fact, ground-level O₃ is a secondary pollutant resulting from the photochemical
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39 292 reaction among traffic-related air pollutants, including NO₂ and volatile organic
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42 293 compounds.⁶ A number of previous studies reported an inverse correlation between
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45 294 O₃ level and traffic-related air pollutants, including NO₂ and elemental carbon.^{2 11 12}
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48 295 However, some studies have reported that exposure to O₃ and other air pollutants
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51 296 was positively associated with a deteriorated disease course in patients with ILD,
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54 297 including hospitalisation, poor lung function and exacerbation of ILD.^{9 10 21} The
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57 298 aforementioned discordant findings with regard to the impact of O₃ exposure on
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1 299 ILDs reflect the complexity of ILD pathogenesis, which consists of initial insults
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3 300 resulting in the influx of inflammatory cells as well as alveolar epithelial damage and
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6 301 the subsequent deterioration caused by the recruitment and activation of pulmonary
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9 302 fibroblasts and myofibroblasts.²² Therefore, we postulate that O₃ exposure may exert
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12 303 distinct effects, including the quenching effect, on the development and clinical
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15 304 deterioration of ILD, and the present study further provides evidence regarding the
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18 305 impact of O₃ exposure on the development of CTD-ILD.
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21 306 The pathogenesis of CTD-ILD has been increasingly investigated in recent years,
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24 307 and the balance among T cells, including ILCs, has been identified to play an
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27 308 important role in the pathogenesis of CTD-ILD.²³⁻²⁵ Sendo S. *et al.*, using
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30 309 Zym-treated SKG mice to simulate RA-ILD, observed an increase in pathogenic
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33 310 Th17 cells in the inflamed lung tissue of RA-ILD mice and that tofacitinib
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36 311 ameliorated the interstitial lung disease.²⁶ In another recent study, which analysed the
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39 312 cytokine profiles of 40 patients with PM/DMtis-ILD, Th1 cells were found to play a
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42 313 key role in the pathogenesis of PM/DM-ILD.²⁷ Intriguingly, O₃ has been implicated
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45 314 in a high Th2 response in airway cells by enhancing the type 2 ILC-associated
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48 315 pathway.^{7 28} Therefore, the O₃-associated expansion of the Th2 pathway through
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51 316 ILCs may at least partly explain the potential protective effects of O₃ on the
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54 317 development of ILD in patients with CTD by ameliorating Th17/Th1-associated
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57 318 signalling in the airway.
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1 319 Intriguingly, smoking was reported to affect the association between O₃ exposure
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3 320 and pulmonary diseases, including ILDs.² Sack C *et al.* observed that O₃ exerted a
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6 321 protective role in incident ILAs in never-smokers (OR 0.30, 95% CI 0.10–0.93)
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9 322 among participants in the MESA Lung study, whereas O₃ tended to be a risk factor
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12 323 for ILAs in ever-smokers (OR 1.44, 95% CI 0.52–4.01).² Smoking status is not
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15 324 recorded in the NHIRD; however, the majority of enrolled patients with CTD were
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18 325 females (74.9%), and there is a marked low prevalence of tobacco use among
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21 326 females in Taiwan (2.6%). Thus, we believe that the magnitude of the protective
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24 327 effect of O₃ against the development of CTD-ILD might at least partly be attributed
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27 328 by the high proportion of females in the study population.²⁹

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30 329 There are some limitations in the present study. First, the NHIRD cannot provide
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33 330 laboratory data including titers of autoantibody; however, the medication data are
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36 331 comprehensive. In addition, the diagnoses of SLE, RA and SS were validated by at
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39 332 least two experienced and qualified rheumatologists by reviewing patients' medical
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42 333 charts, laboratory findings and images to issue a catastrophic illness certificate.
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45 334 Similarly, the accuracy of ILD in the claim is also a concern. One recently published
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48 335 study aimed to validate claims-based algorithms for identification of ILD in patients
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51 336 with RA found that the accuracy of RA-ILD was high if the diagnosis was made by
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54 337 specialists.³⁰ In the present study, we merely enrolled patients within the
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57 338 aforementioned catastrophic illness registry file. Therefore, the diagnoses of CTD
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1 339 and ILD were made by the rheumatologist, and the risk for misclassification should
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3 340 be at least partly mitigated. Second, the disease activity of CTD is not recorded, but
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6 341 we believe that we have adjusted for the essential CTD-associated medications,
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9 342 which were comprehensively in NHIRD. We believe the adjustment of medications
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12 343 should largely reflect the disease activity. Third, varied mechanisms may underlie
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15 344 distinct CTDs; however, patients with distinct CTDs might have similar profibrotic
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18 345 pathways in the development of ILD.³¹ Fourth, given the case-control design we
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21 346 merely claim the association, instead of causal inference, between exposure to air
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24 347 pollutants and incident ILDs in patients with CTD. Furthermore, we have conducted
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27 348 further analyses using a longer period (2-year) of air pollutant exposure, and the
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30 349 results were consistent with the finding in the present study using 1-year exposure to
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33 350 air pollutants (Supplemental Table 1).

36 351 In conclusion, exposure to air pollutants is increasingly found to be associated
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39 352 with the development of a number of pulmonary diseases, including ILDs.
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42 353 Recent evidence has demonstrated that O₃ exposure appeared to have a negative
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45 354 association with the development of ILDs. In the present population-based
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48 355 case-control study, we found that exposure to O₃ was inversely associated with
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51 356 incident CTD-ILDs among patients with CTD in Taiwan. Further studies are
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54 357 warranted to validate these findings and explore the underlying mechanisms.
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1 358 **Authors' contributions:**

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3 359 Conceived and designed the experiments: HHC, WCC, JCY, YHC and DYC.

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6 360 Acquired data: YMY, CHL, JCY and HHC. Contributed materials/analysis tools:

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8
9 361 WCC, YMY, JCY and HHC. Wrote the paper: HHC, JCY and WCC.

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24 366 study design, data collection and analysis, decision to publish or preparation of the

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27 367 manuscript.

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30 368 **Competing interests:**

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33 369 The authors have declared that no competing interests exist.

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36 370 **Ethics approval**

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39 371 This study was approved by the Institutional Review Board of Taichung Veterans

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42 372 General Hospital, Taiwan (IRB number: CE14149B-3).

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45 373 **Data sharing statement**

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48 374 All of the data and materials are provided in the manuscript and the supplemental

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51 375 data.

377 **Figure legend**

378 **Figure 1. Flowchart of subject enrolment**

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Table 1. Characteristics of enrolled subjects with ILDs and matched non-ILD controls

Variable	Non-ILD (n = 2,020)	ILD (n = 505)	p value
Basic data			
Age, years	59.4±14.0	60.1±14.7	0.30
Gender, female	1,520 (75.2)	380 (75.2)	1.00
Disease duration, years	6.9±5.1	6.7±5.7	0.45
CCI	1.4±1.4	1.8±1.5	<0.01
CCI without pulmonary disease	1.3±1.5	1.5±1.4	0.01
COPD	161 (8.0)	126 (25.0)	<0.01
Asthma	25 (1.2)	12 (2.4)	0.06
Urbanisation			
Level 1	588 (29.1)	165 (32.7)	0.48
Level 2	634 (31.4)	152 (30.1)	
Level 3	317 (15.7)	74 (14.7)	
Level 4	481 (23.8)	114 (22.6)	
Payroll-related insured amount, NTD			
≤15,840	615 (30.4)	160 (31.7)	0.94
15,841–20,100	393 (19.5)	96 (19.0)	
20,100–27,600	523 (25.9)	126 (25.0)	
≥27,600	489 (24.2)	123 (24.4)	
Medication			
csDMARDs			
Methotrexate	452 (22.4)	154 (30.5)	<0.01
Sulphasalazine	369 (18.3)	105 (20.8)	0.19
Leflunomide	103 (5.1)	44 (8.7)	<0.01
Hydroxychloroquine	1,058 (52.4)	308 (61.0)	<0.01
Cyclosporin	49 (2.4)	28 (5.5)	<0.01
Azathioprine	191 (9.5)	67 (13.3)	0.01
Cyclophosphamide	31 (1.5)	27 (5.3)	<0.01
Mycophenolate mofetil	20 (1.0)	6 (1.2)	0.69
Glucocorticoid	1,284 (63.6)	408 (80.8)	<0.01
Prednisolone equivalent, mg/day	2.5±4.1	5.1±8.5	<0.01
bDMARDs			
Anti-TNF			
Etanercept	95 (4.7)	42 (8.3)	<0.01
Adalimumab	57 (2.8)	25 (5.0)	0.02
Adalimumab	36 (1.8)	18 (3.6)	0.01
Golimumab	3 (0.1)	0 (0.0)	0.39
Tocilizumab	1 (0.05)	2 (0.4)	0.04
Rituximab	16 (0.8)	10 (2.0)	0.02
Air pollutant levels			

	PM2.5 ($\mu\text{g}/\text{m}^3$)	3.1 \pm 0.7	3.0 \pm 0.6	<0.01
1	PM10 ($\mu\text{g}/\text{m}^3$)	5.4 \pm 1.2	5.1 \pm 1.1	<0.01
2				
3	SO ₂ (ppb)	0.4 \pm 0.1	0.3 \pm 0.1	<0.01
4	NO ₂ (ppb)	1.8 \pm 0.6	1.8 \pm 0.5	0.71
5				
6	CO (ppm)	0.5 \pm 0.2	0.6 \pm 0.2	0.42
7	O ₃ (ppb)	2.8 \pm 0.3	2.7 \pm 0.3	<0.01

Data are presented as mean \pm standard deviation and N (%). *Prednisolone equivalent. Abbreviations: ILD, interstitial lung disease; CCI, Charlson comorbidity index; COPD, chronic obstructive pulmonary disease; DMARDs, disease-modifying anti-rheumatic drugs; MMF, mycophenolate mofetil; MPA, mycophenolic acid; TNF, tumour necrosis factor; NA, not available; PM2.5, particulate matter <2.5 μm ; PM10, particulate matter <10 μm ; SO₂, sulphur dioxide; NO₂, nitrogen dioxide; CO, carbon monoxide; O₃, ozone.

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470 **Table 2. Crude and adjusted odds ratios for the association between ILD**
 471 **and variables in patients with CTD**

	OR (95% CI)	aOR (95% CI)
Comorbidity		
CCI without pulmonary disease	2.04 (1.52–2.74)	1.56 (1.13–2.16)**
COPD	4.21 (3.19–5.55)	3.60 (2.68–4.82)**
Urbanisation		
Level 1	Reference	
Level 2	0.86 (0.67–1.09)	
Level 3	0.83 (0.61–1.13)	
Level 4	0.85 (0.65–1.10)	
Payroll-related insured amount, NTD		
≤15,840	Reference	
15,841–20,100	0.94 (0.70–1.25)	
20,100–27,600	0.92 (0.71–1.21)	
≥27,600	0.96 (0.71–1.30)	
Medication		
Methotrexate	1.75 (1.35–2.25)	1.41 (1.06–1.89)*
Sulphasalazine	1.22 (0.93–1.61)	0.84 (0.62–1.14)
Leflunomide	1.85 (1.26–2.72)	1.47 (0.96–2.25)
Hydroxychloroquine	1.47 (1.19–1.80)	1.18 (0.93–1.48)
Immunosuppressants	2.05 (1.55–2.70)	1.35 (0.99–1.85)
Steroid [#] , mg/day	1.12 (1.09–1.14)	1.09 (1.06–1.11)**
Anti-TNF	1.99 (1.33–2.99)	1.25 (0.79–1.97)
Tocilizumab	8.00 (0.73–88.23)	7.81 (0.56–109.85)
Rituximab	2.50 (1.14–5.51)	1.55 (0.64–3.74)
Air pollutants		
PM2.5 (per 10 µg/m ³)	0.67 (0.58–0.78)	0.72 (0.47–1.09)
PM10 (per 10 µg/m ³)	0.80 (0.74–0.88)	1.06 (0.83–1.37)
SO ₂ (per 10 ppb)	0.19 (0.08–0.49)	0.40 (0.12–1.30)
NO ₂ (per 10 ppb)	1.03 (0.87–1.23)	
CO (per 1 ppm)	1.19 (0.78–1.80)	
O ₃ (per 10 ppb)	0.50 (0.35–0.71)	0.51 (0.33–0.79)**

[#]Prednisolone equivalent. Abbreviations: ILD, interstitial lung disease; CCI, Charlson comorbidity index; COPD, chronic obstructive pulmonary disease; TNF, tumour necrosis factor; NA, not available; PM2.5, particulate matter <2.5 µm; PM10, particulate matter <10 µm; SO₂, sulphur dioxide; NO₂, nitrogen dioxide; CO, carbon monoxide; O₃, ozone. * p<0.05, ** p<0.005.

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Table 3. Crude and adjusted odds ratios for the association between the risk of ILD development and variables in patients with rheumatoid arthritis

Variable	Univariable OR (95% CI)	Multivariable aOR (95% CI)
Comorbidity		
CCI without pulmonary disease	3.49 (1.67–7.30)	1.70 (0.77–3.71)
COPD	2.94 (1.98–4.36)	2.35 (1.54–3.59)**
Urbanisation		
Level 1	Reference	
Level 2	1.06 (0.71–1.57)	
Level 3	0.87 (0.54–1.40)	
Level 4	0.88 (0.58–1.32)	
Payroll-related insured amount, NTD		
≤15,840	Reference	
15,841–20,100	1.10 (0.72–1.68)	
20,100–27,600	0.88 (0.59–1.30)	
≥27,600	0.95 (0.57–1.57)	
Medication		
Methotrexate	1.66 (1.22–2.26)	1.28 (0.91–1.82)
Sulphasalazine	1.16 (0.86–1.58)	
Leflunomide	1.94 (1.30–2.91)	1.35 (0.85–2.15)
Hydroxychloroquine	1.73 (1.25–2.38)	1.36 (0.95–1.94)
Immunosuppressants	2.68 (1.60–4.50)	1.53 (0.86–2.73)
Steroid [#] , mg/day	1.15 (1.10–1.21)	1.11 (1.05–1.17)**
Anti-TNF	2.11 (1.39–3.21)	1.31 (0.82–2.09)
Tocilizumab	8.00 (0.73–88.23)	11.19 (0.75–166.66)
Rituximab	2.67 (1.20–5.94)	1.67 (0.69–4.02)
Air pollutants		
PM2.5 (per 10 µg/m ³)	0.77 (0.61–0.97)	0.97 (0.50–1.89)
PM10 (per 10 µg/m ³)	0.86 (0.76–0.97)	0.89 (0.62–1.29)
SO ₂ (per 10 ppb)	0.52 (0.13–2.03)	
NO ₂ (per 10 ppb)	0.98 (0.75–1.28)	
CO (per 1 ppm)	0.96 (0.48–1.92)	
O ₃ (per 10 ppb)	0.70 (0.41–1.20)	0.69 (0.37–1.29)

[#]Prednisolone equivalent. Abbreviations: ILD, interstitial lung disease; CCI, Charlson comorbidity index; COPD, chronic obstructive pulmonary disease; TNF, tumour necrosis factor; NA, not available; PM2.5, particulate matter <2.5 µm; PM10, particulate matter <10 µm; SO₂, sulphur dioxide; NO₂, nitrogen dioxide; CO, carbon monoxide; O₃, ozone. * p<0.05, ** p<0.005.

Table 4. Crude and adjusted odds ratios for the association between the risk of ILD development and variables in patients with systemic lupus erythematosus and primary Sjögren's syndrome

Variable	Systemic lupus erythematosus		Primary Sjögren's syndrome	
	Univariable OR (95% CI)	Multivariable aOR (95% CI)	Univariable OR (95% CI)	Multivariable aOR (95% CI)
Comorbidity				
CCI without pulmonary disease	2.87 (0.86–9.65)	1.64 (0.40–6.66)	1.47 (0.98–2.22)	1.36 (0.87–2.14)
COPD	7.83 (3.54–17.29)	10.52 (3.97–27.89)**	7.14 (3.85–13.24)	9.99 (3.04–11.78)**
Urbanisation				
Level 1	Reference	Reference	Reference	
Level 2	0.51 (0.27–0.94)	0.69 (0.27–1.78)	0.81 (0.50–1.31)	
Level 3	0.59 (0.28–1.23)	0.79 (0.26–2.44)	1.24 (0.68–2.25)	
Level 4	0.74 (0.37–1.47)	1.81 (0.48–6.88)	0.90 (0.53–1.55)	
Payroll-related insured amount, NTD				
≤15,840	Reference		Reference	
15,841–28,800	0.61 (0.26–1.39)		1.18 (0.66–2.10)	
28,801–45,800	0.93 (0.46–1.88)		1.02 (0.58–1.78)	
≥45,801	1.07 (0.52–2.20)		0.86 (0.46–1.59)	
Medication				
Methotrexate	0.69 (0.19–2.44)		0.81 (0.29–2.26)	
Sulphasalazine	3.04 (0.99–9.26)	3.19 (0.81–12.56)	0.96 (0.41–2.25)	
Leflunomide	<0.01 (<0.01–>99)		1.33 (0.14–12.82)	

Hydroxychloroquine	1.27 (0.75–2.13)		1.26 (0.82–1.95)	
Immunosuppressants	1.47 (0.89–2.45)	1.06 (0.55–2.05)	3.39 (1.62–7.07)	1.84 (0.78–4.34)
Steroid [#] , mg/day	1.09 (1.05–1.14)	1.09 (1.03–1.15)**	1.17 (1.09–1.25)	1.11 (1.03–1.18)**
Air pollutants				
PM2.5 (per 10 µg/m ³)	0.59 (0.41–0.86)	0.23 (0.07–0.73)*	0.61 (0.44–0.84)	0.73 (0.30–1.76)
PM10 (per 10 µg/m ³)	0.79 (0.64–0.98)	1.96 (0.98–3.89)	0.76 (0.63–0.91)	1.04 (0.61–1.75)
SO ₂ (per 10 ppb)	0.13 (0.01–1.30)	0.41 (0.01–15.74)	0.08 (0.01–0.61)	0.10 (0.01–1.41)
NO ₂ (per 10 ppb)	1.41 (0.93–2.15)	0.98 (0.15–6.57)	0.99 (0.70–1.40)	
CO (per 1 ppm)	2.45 (0.96–6.20)	0.94 (0.03–26.11)	1.34 (0.59–3.04)	
O ₃ (per 10 ppb)	0.23 (0.09–0.58)	0.06 (0.01–0.43)**	0.65 (0.31–1.34)	

[#]Prednisolone equivalent. Abbreviations: ILD, interstitial lung disease; CCI, Charlson comorbidity index; COPD, chronic obstructive pulmonary disease; TNF, tumour necrosis factor; NA, not available; PM2.5, particulate matter <2.5 µm; PM10, particulate matter <10 µm; SO₂, sulphur dioxide; NO₂, nitrogen dioxide; CO, carbon monoxide; O₃, ozone. * p<0.05, ** p<0.005.

Table 5. Crude and adjusted odds ratios for the association between the risk of ILD development and variables in patients with systemic sclerosis and dermatomyositis/polymyositis

Variable	Systemic sclerosis		Dermatomyositis/polymyositis	
	Univariable OR (95% CI)	Multivariable aOR (95% CI)	Univariable OR (95% CI)	Multivariable aOR (95% CI)
Comorbidity				
CCI without pulmonary disease	0.39 (0.11–1.46)	5.51 (1.11–27.26)*	1.55 (0.68–3.54)	
COPD	0.80 (0.33–1.91)	2.80 (0.97–8.07)	4.19 (1.38–12.71)	6.73 (1.39–32.51)*
Urbanisation				
Level 1	Reference	Reference	Reference	
Level 2	1.02 (0.47–2.20)	1.53 (0.56–4.18)	0.90 (0.39–2.08)	
Level 3	0.39 (0.11–1.46)	0.73 (0.15–3.68)	0.74 (0.26–2.13)	
Level 4	0.80 (0.33–1.91)	1.97 (0.51–7.57)	0.84 (0.31–2.27)	
Payroll-related insured amount, NTD				
≤15,840	Reference		Reference	Reference
15,841–28,800	1.01 (0.36–2.79)		0.36 (0.12–1.11)	0.39 (0.09–1.61)
28,801–45,800	1.19 (0.45–3.12)		0.66 (0.25–1.77)	0.32 (0.09–1.16)
≥45,801	1.14 (0.42–3.14)		0.74 (0.30–1.86)	0.24 (0.06–0.94)*
Medication				
Methotrexate	1.00 (0.24–4.11)		5.70 (2.74–11.88)	7.55 (2.77–20.62)**
Sulphasalazine	<0.01 (<0.01–>99)		12.00	0.31 (0.14–36.92)

				(1.25–115.36)	
Leflunomide	2.00 (0.18–22.06)			>99(<0.01–>99)	
Hydroxychloroquine	0.87 (0.44–1.72)			2.21 (1.12–4.39)	0.95 (0.38–2.38)
Immunosuppressants	2.11 (1.01–4.44)	1.05 (0.40–2.74)		1.52 (0.79–2.95)	
Steroid [#] , mg/day	1.16 (1.07–1.25)	1.12 (1.02–1.23)*		1.07 (1.02–1.11)	1.06 (1.004–1.12)*
Air pollutants					
PM2.5 (per 10 µg/m ³)	0.69 (0.41–1.18)	1.14 (0.27–4.73)		0.57 (0.34–0.95)	0.31 (0.05–1.80)
PM10 (per 10 µg/m ³)	0.77 (0.57–1.04)	0.91 (0.35–2.35)		0.72 (0.54–0.97)	0.34 (0.47–3.79)
SO ₂ (per 10 ppb)	0.06 (0.00–2.27)	0.12 (<0.01–16.34)		0.07 (0.00–1.99)	2.82 (0.01–574.01)
NO ₂ (per 10 ppb)	0.95 (0.53–1.70)			0.90 (0.50–1.62)	
CO (per 1 ppm)	0.96 (0.24–3.86)			0.51 (0.11–2.43)	
O ₃ (per 10 ppb)	0.28 (0.08–1.02)	0.16 (0.02–1.30)		0.30 (0.08–1.11)	0.36 (0.06–2.40)

[#]Prednisolone equivalent. Abbreviations: ILD, interstitial lung disease; CCI, Charlson comorbidity index; COPD, chronic obstructive pulmonary disease; TNF, tumour necrosis factor; NA, not available; PM2.5, particulate matter <2.5 µm; PM10, particulate matter <10 µm; SO₂, sulphur dioxide; NO₂, nitrogen dioxide; CO, carbon monoxide; O₃, ozone. * p<0.05, ** p<0.005.

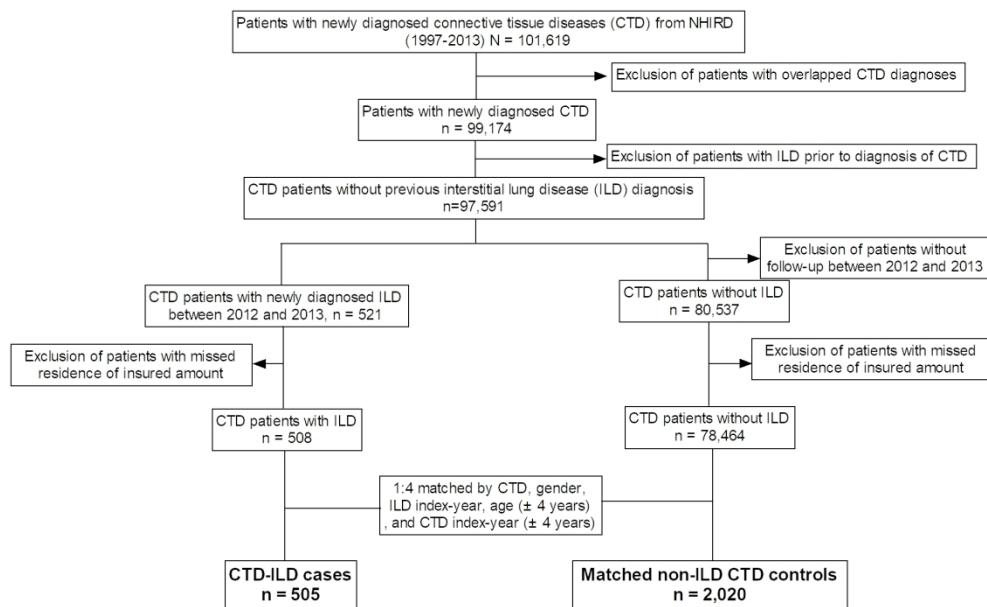


Figure 1

179x110mm (300 x 300 DPI)

Supplemental Table 1. Crude and adjusted odds ratios for the association between ILD and variables in patients with CTD

	OR (95% CI)	aOR (95% CI)
Comorbidity		
CCI without pulmonary disease	2.16 (1.42–3.30)	1.64 (1.03–2.62)
COPD	4.35 (2.92–6.48)	3.63 (2.38–5.54)
Urbanisation		
Level 1	Reference	
Level 2	0.89 (0.63–1.27)	
Level 3	0.80 (0.51–1.25)	
Level 4	0.88 (0.61–1.29)	
Payroll-related insured amount, NTD		
≤15,840	Reference	
15,841–20,100	1.15 (0.76–1.72)	
20,100–27,600	1.00 (0.69–1.46)	
≥27,600	0.94 (0.61–1.46)	
Medication		
Methotrexate	1.66 (1.17–2.37)	1.31 (0.87–1.96)
Sulphasalazine	1.31 (0.90–1.93)	0.86 (0.56–1.32)
Leflunomide	1.57 (0.91–2.71)	1.07 (0.57–1.99)
Hydroxychloroquine	1.59 (1.18–2.14)	1.31 (0.95–1.82)
Immunosuppressants	2.21 (1.50–3.27)	1.29 (0.83–2.01)
Steroid*, mg/day	1.13 (1.09–1.17)	1.11 (1.06–1.15)
Anti-TNF	2.10 (1.21–3.64)	1.25 (0.79–1.97)
Tocilizumab	8.00 (0.73–88.23)	1.46 (0.78–2.71)
Rituximab	2.55 (0.99–6.57)	8.11 (0.55–120.18)
Air pollutants		
PM2.5 (per 10 µg/m ³)	0.71 (0.57–0.89)	0.71 (0.37–1.37)
PM10 (per 10 µg/m ³)	0.82 (0.73–0.93)	1.10 (0.75–1.63)
SO ₂ (per 10 ppb)	0.27 (0.08–0.94)	0.52 (0.10–2.68)
NO ₂ (per 10 ppb)	1.04 (0.81–1.32)	
CO (per 1 ppm)	1.25 (0.69–2.26)	
O ₃ (per 10 ppb)	0.54 (0.32–0.91)	0.47 (0.25–0.89)

*Prednisolone equivalent. Abbreviations: ILD, interstitial lung disease; CCI, Charlson comorbidity index; COPD, chronic obstructive pulmonary disease; TNF, tumour necrosis factor; NA, not available; PM2.5, particulate matter <2.5 µm; PM10, particulate matter <10 µm; SO₂, sulphur dioxide; NO₂, nitrogen dioxide; CO, carbon monoxide; O₃, ozone.

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ID	sex	RD	RD-age	ILD	index_date	ILD-age	Disease du COPD
1	1	1	1	26	0 2013/2/9	37	11 0
2	2	0	1	32	0 2012/5/9	49	17 0
3	3	0	1	45	1 2013/9/18	63	18 1
4	4	0	1	46	0 2013/1/10	64	18 0
5	5	0	1	51	1 2013/7/21	62	11 0
6	6	1	1	21	1 2012/12/6	21	0 0
7	7	0	1	27	1 2012/3/1	31	4 0
8	8	0	1	27	0 2013/1/2	34	7 0
9	9	0	1	39	0 2012/1/6	54	15 1
10	10	0	1	36	0 2013/1/1	54	18 0
11	11	0	1	41	0 2013/2/8	54	13 0
12	12	1	1	18	0 2013/2/28	31	13 0
13	13	0	1	36	0 2012/1/11	52	16 0
14	14	0	1	34	0 2012/2/4	51	17 0
15	15	0	1	24	0 2012/1/17	31	7 0
16	16	0	1	22	0 2012/1/4	23	1 0
17	17	0	1	41	0 2012/1/3	44	3 0
18	18	0	1	36	0 2012/1/2	52	16 0
19	19	0	1	48	0 2013/1/3	51	3 0
20	20	0	1	60	0 2012/1/4	77	17 0
21	21	0	1	21	1 2012/4/10	35	14 0
22	22	0	1	19	0 2012/1/2	36	17 0
23	23	0	1	52	0 2012/2/13	66	14 0
24	24	0	1	29	0 2012/1/12	37	8 0
25	25	1	1	23	0 #####	23	0 0
26	26	0	1	23	0 2012/1/3	35	12 0
27	27	1	1	56	0 2012/1/11	57	1 1
28	28	0	1	20	1 2012/6/19	30	10 0
29	29	0	1	27	0 2013/4/13	40	13 0
30	30	0	1	62	0 2012/1/17	63	1 0
31	31	0	1	17	0 2013/1/8	33	16 0
32	32	0	1	47	0 2012/3/9	57	10 0
33	33	0	1	23	0 2012/1/2	40	17 0
34	34	0	1	26	0 2012/1/2	43	17 0
35	35	0	1	43	1 #####	48	5 0
36	36	0	1	32	1 #####	41	9 0
37	37	0	1	55	1 2012/4/9	57	2 0
38	38	0	1	62	1 2013/10/2	62	0 0
39	39	0	1	46	0 2013/1/2	49	3 1
40	40	1	1	19	0 2012/1/17	33	14 0
41	41	0	1	15	1 2012/2/29	32	17 1
42	42	0	1	22	0 2013/2/1	29	7 0
43	43	0	1	44	0 2012/1/3	54	10 0
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45	45	0	1	24	0 2012/2/11	35	11 0
46	46	0	1	32	0 2012/1/12	40	8 0
47	47	0	1	33	0 2012/1/6	49	16 0
48	48	0	1	35	0 2012/1/3	43	8 0
49	49	0	1	35	1 2013/12/3	52	17 0
50	50	0	1	43	1 2012/4/11	60	17 1
51	51	1	1	80	0 2013/2/8	80	0 0
52	52	0	1	57	0 2013/1/25	62	5 0
53	53	0	1	39	1 2013/6/4	39	0 0
54	54	0	1	24	0 2012/1/5	39	15 0
55	55	1	1	13	0 2013/1/7	25	12 0

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3	56	1	1	54	1 2012/1/13	66	12	1	
4	57	0	1	56	0 2012/1/5	67	11	0	
5	58	0	1	31	1 2012/5/8	48	17	1	
6	59	0	1	42	0 2012/3/26	54	12	0	
7	60	0	1	46	0 2012/1/1	63	17	0	
8	61	1	1	51	1 #####	51	0	0	
9	62	0	1	52	1 2012/9/20	60	8	0	
10	63	0	1	49	1 2012/1/2	52	3	0	
11	64	0	1	40	0 2013/1/3	48	8	0	
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18	71	0	1	37	0 2012/1/7	43	6	0	
19	72	1	1	71	0 2013/1/5	72	1	0	
20	73	0	1	38	1 #####	39	1	0	
21	74	0	1	37	0 2012/1/4	54	17	0	
22	75	0	1	32	1 #####	38	6	1	
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24	77	0	1	33	0 2013/1/9	51	18	0	
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26	79	1	1	57	1 2012/3/7	57	0	1	
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31	84	0	1	23	1 #####	41	18	0	
32	85	0	1	39	0 2013/1/17	52	13	0	
33	86	1	1	20	0 2013/1/9	35	15	0	
34	87	0	1	28	1 2013/4/29	31	3	0	
35	88	0	1	37	0 2012/1/2	54	17	0	
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46	99	0	1	39	0 2012/1/1	53	14	0	
47	100	0	1	40	0 2013/1/6	43	3	0	
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49	102	0	1	52	0 2012/1/13	61	9	0	
50	103	0	1	30	0 2012/1/7	33	3	0	
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52	105	0	1	19	0 2013/1/7	24	5	0	
53	106	0	1	59	0 2012/1/4	60	1	0	
54	107	0	1	27	0 2013/1/7	38	11	1	
55	108	0	1	47	0 2013/2/4	51	4	0	
56	109	0	1	34	0 2012/5/9	43	9	0	
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4	113	0	1	17	0	2012/2/7	29	12	0
5	114	0	1	46	1	2012/2/14	52	6	0
6	115	0	1	85	0	2013/7/16	85	0	0
7	116	0	1	56	1	2012/4/6	73	17	0
8	117	0	1	15	0	2012/2/10	22	7	0
9	118	0	1	65	0	2012/1/4	74	9	0
10	119	0	1	35	1	#####	42	7	0
11	120	0	1	85	0	2013/5/2	85	0	0
12	121	0	1	39	0	2013/1/21	56	17	1
13	122	1	1	66	0	2012/2/7	73	7	0
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15	124	0	1	23	0	2013/1/2	35	12	0
16	125	0	1	72	0	2012/1/3	75	3	0
17	126	1	1	14	0	2013/1/31	30	16	0
18	127	0	1	34	0	2012/2/21	48	14	0
19	128	1	1	56	0	2012/1/11	58	2	0
20	129	0	1	24	0	2012/1/2	41	17	0
21	130	0	1	18	0	2012/1/16	23	5	0
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34	143	0	1	58	0	2012/1/16	67	9	0
35	144	0	1	34	0	2013/1/17	39	5	0
36	145	0	1	52	0	2013/1/12	57	5	0
37	146	1	1	75	0	2013/2/18	75	0	1
38	147	0	1	87	1	2013/7/23	88	1	0
39	148	0	1	31	0	2012/1/21	34	3	0
40	149	0	1	35	0	2012/2/1	48	13	0
41	150	1	1	49	0	2013/1/3	61	12	1
42	151	0	1	23	1	2013/1/8	39	16	0
43	152	1	1	49	0	2012/1/9	52	3	0
44	153	0	1	28	0	2012/1/2	34	6	0
45	154	1	1	65	0	2013/1/25	66	1	0
46	155	0	1	72	1	2012/5/8	77	5	1
47	156	0	1	33	0	2012/1/6	34	1	0
48	157	1	1	60	0	2012/2/3	61	1	1
49	158	1	1	47	0	2012/5/22	47	0	0
50	159	0	1	34	0	2012/1/4	51	17	0
51	160	1	1	25	0	2012/1/10	38	13	0
52	161	0	1	45	0	2012/1/3	55	10	0
53	162	0	1	16	0	2012/1/3	33	17	0
54	163	1	1	47	0	2012/2/17	51	4	0
55	164	0	1	28	0	2012/2/14	36	8	0
56	165	0	1	33	0	2013/1/10	44	11	0
57	166	0	1	28	0	2013/2/8	45	17	0
58	167	0	1	36	0	2012/1/2	53	17	0

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3	168	0	1	71	1	2013/7/18	71	0	0
4	169	0	1	26	0	2013/1/7	44	18	0
5	170	0	1	36	0	2013/6/27	39	3	0
6	171	0	1	36	0	2012/1/14	53	17	0
7	172	0	1	62	0	2012/1/27	73	11	0
8	173	0	1	50	0	2013/1/4	56	6	0
9	174	0	1	56	0	2013/1/9	72	16	0
10	175	0	1	38	0	2012/1/2	48	10	0
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13	178	0	1	28	0	2012/1/7	36	8	0
14	179	0	1	37	0	2012/1/2	54	17	0
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16	181	0	1	40	0	2013/1/25	54	14	0
17	182	0	1	47	0	2012/2/11	57	10	0
18	183	0	1	36	0	2013/1/18	41	5	0
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21	186	0	1	42	0	2013/1/2	56	14	0
22	187	0	1	52	0	2012/1/12	60	8	0
23	188	0	1	23	0	2013/1/29	37	14	0
24	189	0	1	35	0	2013/1/10	45	10	0
25	190	0	1	22	0	2012/3/2	38	16	0
26	191	0	1	26	0	2012/1/4	30	4	0
27	192	0	1	18	1	2012/7/6	27	9	0
28	193	0	1	40	0	2012/1/4	43	3	1
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30	195	0	1	45	0	2013/2/4	63	18	0
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37	202	0	1	25	0	2013/4/12	43	18	0
38	203	0	1	36	0	2012/1/19	43	7	0
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40	205	0	1	35	0	2013/3/12	44	9	0
41	206	0	1	64	0	2012/7/9	64	0	0
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43	208	0	1	40	0	2012/2/24	55	15	0
44	209	1	1	27	0	2013/1/7	32	5	0
45	210	0	1	53	1	2012/9/4	70	17	0
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47	212	1	1	21	1	2012/8/28	36	15	0
48	213	1	1	30	0	2013/1/16	35	5	0
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51	216	0	1	53	1	2013/1/27	71	18	0
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53	218	0	1	19	0	2013/1/29	24	5	0
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58	223	1	1	19	0	2012/1/11	21	2	0

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13	234	1	1	65	0	2012/1/4	69	4	1
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15	236	0	1	61	0	2012/1/4	73	12	0
16	237	0	1	27	0	2012/1/3	37	10	0
17	238	0	1	54	0	2013/1/3	62	8	0
18	239	0	1	34	0	2012/1/16	40	6	0
19	240	0	1	36	1	2012/6/15	37	1	0
20	241	0	1	30	0	2013/1/2	48	18	0
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22	243	0	1	25	0	2012/1/5	42	17	0
23	244	0	1	23	0	2012/1/2	35	12	0
24	245	0	1	17	0	2012/2/22	33	16	0
25	246	0	1	43	1	2012/8/3	58	15	1
26	247	0	1	70	0	2013/1/2	74	4	0
27	248	0	1	42	0	2012/2/8	55	13	0
28	249	0	1	30	1	2013/3/16	30	0	0
29	250	0	1	27	0	2012/1/12	33	6	0
30	251	0	1	53	0	2013/5/21	53	0	0
31	252	0	1	51	0	2012/3/2	66	15	0
32	253	0	1	39	1	2013/1/12	57	18	1
33	254	0	1	60	0	2012/1/2	73	13	1
34	255	0	1	45	0	2013/4/19	45	0	0
35	256	0	1	38	0	2013/1/21	53	15	0
36	257	1	1	49	0	2013/1/2	61	12	0
37	258	0	1	51	1	2013/5/28	55	4	0
38	259	1	1	27	0	2013/4/17	36	9	0
39	260	1	1	54	0	2012/2/24	65	11	0
40	261	0	1	61	0	2012/4/27	61	0	1
41	262	0	1	23	0	2013/1/20	41	18	0
42	263	0	1	18	0	2013/1/4	31	13	0
43	264	0	1	57	0	2013/3/4	71	14	0
44	265	0	1	31	0	2012/1/3	34	3	0
45	266	0	1	49	1	#####	56	7	1
46	267	0	1	33	0	2013/1/3	41	8	0
47	268	0	1	39	1	2012/2/18	50	11	1
48	269	0	1	43	0	2012/3/1	55	12	0
49	270	0	1	37	1	2013/3/5	38	1	0
50	271	0	1	42	0	2012/1/11	59	17	0
51	272	0	1	55	1	2012/6/1	71	16	1
52	273	0	1	44	0	2012/1/3	51	7	0
53	274	0	1	26	0	2012/1/10	36	10	0
54	275	0	1	18	0	2012/9/19	18	0	0
55	276	0	1	24	0	2012/1/14	34	10	0
56	277	1	1	57	0	2012/1/8	58	1	0
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58	279	1	1	65	0	2013/1/4	69	4	0

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7	284	0	1	36	0	2012/1/13	53	17	0
8	285	0	1	53	0	2012/1/30	68	15	1
9	286	0	1	45	0	2013/1/2	61	16	1
10	287	0	1	56	1	2013/5/18	60	4	0
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12	289	0	1	32	0	2013/1/3	37	5	0
13	290	1	1	44	0	2013/1/25	62	18	0
14	291	0	1	36	0	2013/2/18	44	8	0
15	292	0	1	37	0	2012/1/9	42	5	0
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21	298	0	1	33	1	2012/11/6	50	17	0
22	299	0	1	41	0	2012/2/4	49	8	0
23	300	0	1	48	0	2012/1/5	49	1	0
24	301	1	1	79	1	2013/3/13	79	0	1
25	302	0	1	62	0	2012/1/16	74	12	0
26	303	0	1	55	0	2012/1/3	58	3	0
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28	305	0	1	39	1	2013/2/22	43	4	0
29	306	0	1	57	0	2012/1/13	69	12	0
30	307	0	1	31	1	2013/1/29	32	1	0
31	308	0	1	45	0	2012/1/12	53	8	0
32	309	1	1	72	0	2012/1/2	74	2	0
33	310	1	1	74	0	2013/1/22	76	2	0
34	311	0	1	51	0	2013/1/7	52	1	0
35	312	0	1	25	0	2013/1/18	36	11	0
36	313	0	1	32	0	2013/1/8	33	1	0
37	314	0	1	33	0	#####	33	0	0
38	315	0	1	27	0	2012/1/3	43	16	0
39	316	0	1	41	0	2012/2/6	49	8	0
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41	318	0	1	34	0	2012/1/4	47	13	0
42	319	0	1	23	0	2013/1/8	39	16	0
43	320	0	1	26	0	2013/1/2	41	15	0
44	321	0	1	28	0	2012/6/5	28	0	0
45	322	0	1	25	0	2013/1/21	41	16	0
46	323	0	1	30	1	2012/4/10	39	9	0
47	324	0	1	51	0	2012/2/17	52	1	0
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49	326	0	1	37	1	2012/7/11	51	14	1
50	327	0	1	37	0	2013/1/7	51	14	0
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53	330	0	1	26	1	2012/1/9	36	10	0
54	331	0	1	30	0	2012/1/3	40	10	0
55	332	1	1	29	1	2013/9/20	37	8	0
56	333	0	1	37	0	2012/1/27	54	17	0
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58	335	0	1	42	1	2013/1/30	60	18	0

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6	339	0	1	40	0	2013/1/22	41	1	0
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10	343	0	1	42	0	2012/1/18	55	13	0
11	344	0	1	24	0	2013/1/29	37	13	0
12	345	0	1	40	0	2013/1/16	43	3	0
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14	347	0	1	54	0	2012/1/6	71	17	0
15	348	0	1	35	0	2012/1/30	45	10	0
16	349	0	1	11	0	2012/1/18	15	4	0
17	350	0	1	22	0	2012/1/18	39	17	0
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19	352	0	1	19	0	2012/1/31	20	1	0
20	353	0	1	76	0	2012/1/5	77	1	0
21	354	0	1	30	0	2012/1/19	40	10	0
22	355	0	1	53	0	2013/1/2	71	18	0
23	356	0	1	42	0	2013/7/22	42	0	0
24	357	0	1	58	0	2013/1/3	75	17	0
25	358	0	1	42	0	2013/1/5	58	16	0
26	359	0	1	48	0	2013/1/4	66	18	0
27	360	0	1	24	0	2012/1/2	36	12	0
28	361	0	1	41	0	2013/1/2	42	1	0
29	362	0	1	33	0	2013/1/3	51	18	0
30	363	0	1	21	0	2012/1/5	35	14	0
31	364	0	1	40	0	2012/1/4	57	17	1
32	365	1	1	76	0	2013/1/7	77	1	0
33	366	0	1	38	0	2012/1/19	43	5	0
34	367	0	1	41	0	2012/1/1	47	6	0
35	368	0	1	38	0	2013/2/7	45	7	0
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37	370	0	1	53	0	2012/1/7	68	15	0
38	371	0	1	38	1	#####	44	6	0
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41	374	0	1	40	0	2012/1/2	55	15	0
42	375	1	1	47	0	2012/1/13	62	15	0
43	376	0	1	36	0	2013/1/15	41	5	0
44	377	0	1	22	0	2013/1/12	38	16	0
45	378	0	1	35	0	2013/1/4	52	17	0
46	379	0	1	49	0	2013/1/7	62	13	0
47	380	1	1	74	0	2013/11/4	74	0	0
48	381	0	1	24	1	2012/3/14	41	17	0
49	382	0	1	35	0	2013/2/21	53	18	0
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52	385	0	1	34	0	2012/1/3	46	12	0
53	386	1	1	21	0	2013/1/12	32	11	0
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55	388	0	1	29	0	2012/1/17	43	14	0
56	389	1	1	20	0	2013/1/11	25	5	0
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7	396	0	1	38	0	2013/1/25	46	8	0
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14	403	0	1	53	1	2013/8/16	56	3	0
15	404	1	1	20	1	2013/6/27	28	8	0
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24	413	0	2	61	0	2012/1/9	78	17	0
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27	416	0	2	44	0	2012/1/20	55	11	0
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32	421	0	2	41	0	2013/1/3	45	4	0
33	422	1	2	60	0	2013/1/10	72	12	0
34	423	0	2	30	0	2012/1/11	35	5	0
35	424	1	2	44	0	2012/1/12	61	17	0
36	425	0	2	54	1	2012/6/28	64	10	1
37	426	1	2	49	0	2012/1/6	59	10	0
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41	430	0	2	60	0	2013/1/1	76	16	0
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54	443	0	2	62	0	2012/1/20	64	2	0
55	444	0	2	59	0	2012/1/2	76	17	0
56	445	0	2	52	0	2013/1/2	63	11	0
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9	454	1	2	54	0	2012/2/6	62	8	0
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12	457	0	2	41	1	2013/4/13	55	14	0
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21	466	0	2	65	0	2013/1/4	72	7	0
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29	474	1	2	54	0	2012/1/2	62	8	0
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35	536	0	2	53	0	2012/1/2	65	12	0
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34	591	0	2	85	0 2012/1/5	94	9	0
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36	593	0	2	75	0 2012/1/16	86	11	0
37	594	0	2	39	1 2013/11/2	57	18	0
38	595	1	2	54	1 #####	58	4	1
39	596	0	2	48	0 2012/1/30	55	7	0
40	597	0	2	41	0 2013/1/9	54	13	0
41	598	0	2	39	0 2013/1/9	51	12	0
42	599	1	2	42	0 2013/2/4	50	8	0
43	600	1	2	40	0 2012/1/9	47	7	1
44	601	0	2	42	0 2013/1/3	53	11	0
45	602	0	2	59	0 2013/1/11	64	5	0
46	603	0	2	54	0 2013/2/5	65	11	0
47	604	0	2	50	0 2012/1/2	62	12	0
48	605	1	2	65	0 2012/1/2	74	9	0
49	606	0	2	51	0 2013/1/7	61	10	0
50	607	0	2	44	0 2013/1/4	55	11	0
51	608	0	2	54	0 2013/1/1	60	6	1
52	609	0	2	72	0 2012/1/13	74	2	0
53	610	0	2	49	0 2013/1/22	58	9	0
54	611	1	2	79	0 2013/1/2	84	5	1
55	612	0	2	58	0 2012/3/7	60	2	0
56	613	0	2	58	0 2013/1/8	72	14	0
57	614	0	2	46	0 2013/3/12	61	15	0
58	615	0	2	64	0 2012/1/14	72	8	0

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3	616	0	2	44	0	2012/1/13	61	17	0
4	617	1	2	76	0	2012/1/10	80	4	0
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6	619	0	2	45	0	2013/1/4	50	5	0
7	620	0	2	46	0	2012/1/10	54	8	0
8	621	0	2	65	0	2013/1/4	82	17	0
9	622	1	2	74	1	#####	75	1	0
10	623	0	2	45	0	2012/2/2	57	12	0
11	624	0	2	49	0	2012/1/31	55	6	0
12	625	0	2	78	1	#####	80	2	1
13	626	0	2	53	0	2013/1/16	71	18	0
14	627	1	2	72	0	2012/1/3	85	13	0
15	628	0	2	71	1	#####	83	12	0
16	629	1	2	53	0	2012/1/17	58	5	0
17	630	0	2	54	0	2012/1/11	55	1	0
18	631	1	2	52	0	2013/1/30	61	9	0
19	632	0	2	44	1	2013/4/8	62	18	0
20	633	0	2	54	0	2013/6/27	54	0	0
21	634	1	2	56	0	2013/1/21	71	15	0
22	635	1	2	57	1	2013/8/7	63	6	1
23	636	1	2	52	0	2012/1/3	59	7	0
24	637	1	2	66	0	2013/1/5	70	4	1
25	638	1	2	53	0	2012/1/13	60	7	0
26	639	0	2	43	0	2013/1/3	56	13	0
27	640	0	2	59	0	2012/2/14	69	10	0
28	641	0	2	54	0	2012/1/5	71	17	0
29	642	0	2	60	0	2013/1/8	64	4	0
30	643	1	2	68	0	2012/1/3	75	7	0
31	644	1	2	74	0	2012/3/6	81	7	0
32	645	1	2	52	0	2013/1/14	55	3	0
33	646	0	2	44	0	2013/1/2	62	18	0
34	647	0	2	47	0	2013/11/1	47	0	0
35	648	0	2	41	1	2012/1/20	42	1	0
36	649	0	2	44	0	2012/2/8	53	9	0
37	650	1	2	66	0	2012/2/17	71	5	0
38	651	0	2	46	0	2013/1/11	56	10	0
39	652	1	2	56	0	2012/1/19	58	2	0
40	653	0	2	45	1	2012/5/16	50	5	0
41	654	0	2	49	0	2012/1/3	60	11	0
42	655	1	2	65	0	2013/1/9	70	5	0
43	656	0	2	53	0	2012/1/17	60	7	0
44	657	1	2	66	0	2012/1/4	76	10	0
45	658	0	2	64	0	2013/1/14	73	9	0
46	659	0	2	58	0	2012/1/16	75	17	0
47	660	1	2	60	0	2012/1/5	65	5	0
48	661	0	2	51	0	2012/1/27	60	9	0
49	662	0	2	16	0	2012/3/1	26	10	0
50	663	0	2	60	0	2013/1/7	70	10	0
51	664	0	2	65	0	2012/1/3	78	13	0
52	665	0	2	64	0	2012/12/3	64	0	1
53	666	0	2	58	0	2013/1/24	71	13	1
54	667	0	2	62	0	2012/1/4	74	12	1
55	668	0	2	29	1	2013/1/26	44	15	1
56	669	0	2	59	0	2013/1/11	70	11	0
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58	671	0	2	41	0	2012/1/5	52	11	0

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3	672	0	2	58	0	2012/1/13	62	4	0
4	673	0	2	75	1	2012/7/6	76	1	0
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6	675	0	2	61	0	2013/2/6	70	9	0
7	676	0	2	57	0	2013/6/11	70	13	0
8	677	0	2	56	0	2012/1/3	57	1	0
9	678	0	2	53	0	2012/1/2	58	5	0
10	679	1	2	73	0	#####	73	0	1
11	680	1	2	46	0	2012/1/16	54	8	0
12	681	1	2	72	0	2013/1/9	77	5	1
13	682	0	2	57	0	2013/1/4	67	10	0
14	683	0	2	54	0	2012/1/11	61	7	0
15	684	0	2	43	0	2012/2/6	54	11	0
16	685	0	2	53	0	2013/1/2	65	12	0
17	686	1	2	70	0	2012/1/12	71	1	0
18	687	1	2	67	1	2013/3/9	71	4	0
19	688	0	2	73	1	2013/10/1	83	10	0
20	689	0	2	63	0	2013/1/2	75	12	0
21	690	1	2	76	1	2012/2/29	83	7	0
22	691	0	2	75	0	2013/5/7	75	0	0
23	692	0	2	53	0	2013/1/9	59	6	0
24	693	0	2	63	0	2013/2/15	76	13	1
25	694	0	2	75	0	2013/8/16	75	0	0
26	695	0	2	67	0	2013/1/12	76	9	0
27	696	0	2	65	0	2013/1/7	78	13	0
28	697	0	2	47	0	2013/1/23	49	2	0
29	698	0	2	61	0	2012/9/6	61	0	1
30	699	0	2	54	0	2013/1/3	60	6	0
31	700	1	2	70	0	2012/1/17	87	17	0
32	701	0	2	61	0	2012/2/11	65	4	0
33	702	0	2	45	1	2012/9/24	62	17	0
34	703	0	2	33	1	2013/8/26	43	10	1
35	704	0	2	77	0	2013/1/15	79	2	0
36	705	1	2	62	1	2012/8/8	77	15	0
37	706	1	2	41	0	2012/1/11	55	14	0
38	707	0	2	53	0	2013/1/14	71	18	0
39	708	0	2	70	0	2013/2/5	77	7	0
40	709	0	2	68	0	2013/1/3	71	3	0
41	710	0	2	39	0	2013/1/25	45	6	0
42	711	1	2	58	0	2013/1/2	71	13	0
43	712	0	2	60	0	2013/1/2	75	15	0
44	713	1	2	53	0	2012/1/16	61	8	0
45	714	0	2	84	0	2013/1/9	85	1	0
46	715	0	2	32	0	2012/1/13	45	13	0
47	716	0	2	55	0	2013/1/2	70	15	0
48	717	0	2	54	1	2012/3/28	65	11	1
49	718	1	2	55	0	2012/1/4	66	11	0
50	719	0	2	62	0	2012/6/23	62	0	0
51	720	0	2	79	0	2013/2/21	91	12	0
52	721	0	2	64	0	2013/1/17	71	7	1
53	722	1	2	59	0	2012/1/4	71	12	0
54	723	1	2	55	0	2013/1/22	58	3	0
55	724	0	2	61	0	2013/1/7	73	12	0
56	725	1	2	75	0	2012/2/23	84	9	1
57	726	0	2	52	0	2013/2/5	61	9	0
58	727	0	2	55	0	2012/2/1	63	8	0

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4	729	0	2	69	1	2013/11/6	73	4	0
5	730	0	2	57	0	2013/3/7	64	7	0
6	731	0	2	60	1	2013/8/5	74	14	0
7	732	0	2	67	0	2012/7/30	77	10	1
8	733	0	2	48	1	2013/2/15	56	8	1
9	734	0	2	52	0	2013/1/11	63	11	0
10	735	1	2	51	1	#####	58	7	0
11	736	0	2	50	0	2012/2/9	60	10	0
12	737	0	2	60	0	2013/1/11	61	1	0
13	738	0	2	62	0	2012/1/13	72	10	0
14	739	0	2	46	1	2013/3/29	47	1	0
15	740	0	2	19	0	2012/1/2	26	7	0
16	741	1	2	45	0	2012/3/5	51	6	0
17	742	0	2	53	1	#####	66	13	1
18	743	1	2	66	0	2012/2/27	71	5	0
19	744	1	2	62	0	2013/1/9	72	10	0
20	745	0	2	57	0	#####	57	0	0
21	746	1	2	49	0	2012/2/14	53	4	0
22	747	0	2	62	1	2013/6/19	69	7	1
23	748	1	2	63	0	2012/1/12	65	2	1
24	749	0	2	55	0	2012/3/27	63	8	1
25	750	1	2	67	0	2012/1/3	76	9	0
26	751	1	2	77	0	2012/1/2	86	9	1
27	752	1	2	64	0	2013/1/9	76	12	0
28	753	0	2	67	0	2013/1/3	81	14	0
29	754	0	2	63	0	2013/1/3	74	11	0
30	755	1	2	58	0	2013/1/8	69	11	0
31	756	0	2	69	0	2013/1/5	76	7	0
32	757	0	2	50	0	2013/1/3	61	11	0
33	758	0	2	67	0	#####	67	0	0
34	759	0	2	46	0	2012/1/3	63	17	0
35	760	0	2	71	0	2013/1/1	78	7	0
36	761	0	2	49	0	2012/2/17	50	1	0
37	762	0	2	79	0	#####	79	0	1
38	763	0	2	43	0	2013/1/10	53	10	0
39	764	0	2	50	0	2013/1/23	61	11	0
40	765	1	2	83	1	2012/9/24	84	1	1
41	766	0	2	58	0	2013/1/10	69	11	1
42	767	0	2	56	0	2012/1/13	67	11	0
43	768	0	2	49	0	2013/3/2	53	4	0
44	769	0	2	65	0	2012/1/5	82	17	0
45	770	1	2	38	0	2012/1/11	40	2	0
46	771	1	2	79	1	#####	84	5	0
47	772	0	2	61	0	2013/1/3	76	15	0
48	773	0	2	70	0	2013/1/9	73	3	0
49	774	1	2	48	0	2013/1/8	58	10	0
50	775	1	2	74	0	2012/2/10	85	11	0
51	776	0	2	51	0	2013/4/20	62	11	0
52	777	0	2	60	0	2013/1/6	66	6	0
53	778	1	2	60	0	2012/1/17	67	7	0
54	779	0	2	47	0	2012/1/7	58	11	0
55	780	1	2	49	0	2013/2/19	58	9	0
56	781	0	2	77	0	2013/1/21	83	6	0
57	782	1	2	62	1	2013/1/18	63	1	1
58	783	1	2	47	0	2013/1/8	55	8	0

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3	784	0	2	45	0	2012/1/31	50	5	0
4	785	0	2	40	0	2013/3/14	47	7	0
5	786	0	2	39	0	2013/1/4	55	16	0
6	787	0	2	54	1	#####	70	16	0
7	788	0	2	53	0	2013/1/3	64	11	0
8	789	0	2	78	0	2013/1/2	81	3	0
9	790	0	2	47	1	2013/7/24	65	18	0
10	791	0	2	40	0	2013/3/1	57	17	0
11	792	0	2	54	0	2013/1/14	65	11	0
12	793	1	2	61	0	2013/1/10	69	8	1
13	794	0	2	58	0	2012/2/24	68	10	0
14	795	1	2	59	0	2012/9/17	75	16	0
15	796	1	2	54	0	#####	54	0	0
16	797	0	2	53	0	2012/1/14	59	6	0
17	798	0	2	55	0	2013/1/29	71	16	1
18	799	1	2	75	0	2012/1/5	76	1	0
19	800	0	2	49	1	2013/1/10	58	9	0
20	801	0	2	49	1	2013/5/4	59	10	0
21	802	0	2	43	0	2013/1/14	45	2	0
22	803	0	2	59	0	2013/1/12	77	18	0
23	804	0	2	55	0	2013/1/21	66	11	0
24	805	0	2	59	0	2013/1/7	69	10	0
25	806	0	2	53	1	2012/5/17	62	9	0
26	807	0	2	58	0	2012/1/31	72	14	0
27	808	1	2	68	1	2012/8/24	71	3	1
28	809	0	2	60	0	2013/1/2	68	8	0
29	810	0	2	68	0	2013/1/2	76	8	0
30	811	0	2	77	1	2013/3/15	79	2	1
31	812	0	2	41	0	2013/1/24	54	13	0
32	813	0	2	47	0	2013/1/2	55	8	0
33	814	0	2	55	0	2012/1/17	58	3	1
34	815	1	2	61	0	2012/1/16	70	9	0
35	816	1	2	50	0	2013/1/9	68	18	0
36	817	0	2	59	0	2013/1/2	77	18	1
37	818	0	2	41	0	2013/1/8	54	13	0
38	819	0	2	69	0	2012/1/30	77	8	0
39	820	0	2	30	0	2012/1/13	39	9	0
40	821	0	2	50	1	2012/8/27	61	11	0
41	822	0	2	77	0	2012/1/2	85	8	0
42	823	0	2	51	0	2012/2/21	65	14	0
43	824	0	2	65	0	2013/1/16	73	8	1
44	825	1	2	49	1	2012/3/30	52	3	0
45	826	1	2	71	0	2013/3/13	71	0	0
46	827	0	2	61	0	2013/1/22	70	9	0
47	828	0	2	57	1	2013/9/6	66	9	0
48	829	0	2	61	1	2013/1/2	72	11	0
49	830	0	2	51	0	2013/1/3	59	8	0
50	831	0	2	77	1	2013/4/25	80	3	0
51	832	0	2	53	0	2013/1/1	63	10	0
52	833	0	2	60	0	2013/2/20	78	18	0
53	834	0	2	38	0	2013/1/11	54	16	0
54	835	0	2	45	0	2012/1/16	52	7	0
55	836	0	2	58	1	2013/6/12	68	10	1
56	837	0	2	53	0	2012/1/13	59	6	0
57	838	1	2	48	1	2012/9/18	49	1	0
58	839	0	2	64	0	#####	67	3	0

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4	841	0	2	54	0	2013/1/14	71	17	0
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6	843	1	2	61	0	2013/1/7	65	4	0
7	844	0	2	43	0	2013/1/14	56	13	0
8	845	0	2	43	0	2013/1/2	58	15	0
9	846	0	2	34	0	2013/1/7	51	17	0
10	847	0	2	65	0	2012/1/4	77	12	0
11	848	1	2	55	0	2013/3/27	55	0	0
12	849	0	2	52	0	2013/1/21	67	15	1
13	850	0	2	61	0	2013/1/22	76	15	0
14	851	1	2	43	0	2013/1/28	54	11	1
15	852	0	2	69	0	2013/1/2	74	5	0
16	853	1	2	64	0	2012/1/10	74	10	1
17	854	1	2	83	0	2012/1/2	86	3	1
18	855	0	2	72	1	2013/8/20	72	0	1
19	856	0	2	56	0	2012/1/5	73	17	0
20	857	0	2	53	0	2013/1/7	61	8	0
21	858	1	2	70	0	2012/11/8	70	0	0
22	859	1	2	57	0	2012/7/18	57	0	0
23	860	1	2	63	0	2012/1/11	70	7	1
24	861	0	2	48	0	2012/1/16	52	4	0
25	862	0	2	48	1	2013/4/17	55	7	1
26	863	1	2	50	1	2012/7/25	56	6	0
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29	866	1	2	51	1	2013/5/23	67	16	0
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32	869	0	2	73	0	2012/1/18	83	10	1
33	870	1	2	64	0	2012/1/6	69	5	1
34	871	0	2	58	1	2012/12/7	59	1	1
35	872	0	2	61	0	2013/1/23	69	8	0
36	873	1	2	66	0	2013/1/9	73	7	0
37	874	1	2	69	0	2012/2/13	76	7	0
38	875	1	2	60	0	2012/1/5	66	6	0
39	876	1	2	58	1	2012/2/8	63	5	1
40	877	0	2	65	1	2013/4/24	76	11	0
41	878	1	2	61	0	2012/2/7	67	6	1
42	879	0	2	52	0	2012/1/31	57	5	0
43	880	0	2	49	0	2013/1/2	54	5	0
44	881	0	2	47	0	2012/1/27	52	5	0
45	882	0	2	56	0	2013/1/10	63	7	0
46	883	1	2	33	1	#####	43	10	1
47	884	0	2	53	1	2012/6/14	55	2	1
48	885	0	2	58	0	2013/1/21	62	4	0
49	886	0	2	58	1	2013/9/8	65	7	0
50	887	0	2	79	1	2013/3/6	80	1	0
51	888	0	2	55	0	2013/1/8	67	12	0
52	889	0	2	39	0	2012/2/29	51	12	0
53	890	1	2	57	0	2012/5/21	57	0	0
54	891	0	2	45	0	2013/3/7	55	10	0
55	892	1	2	69	0	2013/2/22	69	0	0
56	893	0	2	62	0	2012/2/1	79	17	0
57	894	0	2	63	0	2012/1/9	71	8	0
58	895	1	2	41	0	2012/3/3	55	14	0

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4	897	0	2	50	0	2013/2/1	60	10	0
5	898	0	2	55	0	2013/2/26	61	6	0
6	899	1	2	27	0	2012/1/3	40	13	0
7	900	0	2	68	1	2013/1/11	70	2	0
8	901	1	2	73	0	2012/1/6	80	7	1
9	902	1	2	68	0	2012/1/12	72	4	0
10	903	0	2	62	0	2013/7/17	62	0	0
11	904	0	2	51	0	2013/1/2	61	10	0
12	905	1	2	82	1	2013/6/5	87	5	0
13	906	0	2	49	0	2013/1/4	58	9	0
14	907	0	2	68	0	2013/1/10	85	17	0
15	908	1	2	70	0	2012/2/14	76	6	0
16	909	1	2	84	0	2012/1/7	85	1	0
17	910	1	2	67	1	2012/9/27	75	8	0
18	911	0	2	27	0	2013/1/21	45	18	0
19	912	0	2	48	0	#####	48	0	0
20	913	1	2	48	0	2012/2/17	55	7	0
21	914	0	2	57	0	2013/7/1	70	13	0
22	915	0	2	55	0	2013/1/4	68	13	0
23	916	0	2	55	0	2013/2/4	64	9	0
24	917	0	2	48	0	2013/1/8	62	14	0
25	918	0	2	47	1	#####	57	10	0
26	919	1	2	68	0	2013/1/3	85	17	0
27	920	0	2	44	0	2013/1/2	57	13	0
28	921	1	2	66	0	2013/2/2	71	5	0
29	922	1	2	72	1	2012/9/11	76	4	1
30	923	0	2	69	1	2012/8/22	81	12	1
31	924	1	2	62	1	2012/6/20	65	3	0
32	925	0	2	50	0	2013/1/11	62	12	0
33	926	1	2	74	0	2013/1/10	80	6	0
34	927	0	2	67	0	2012/1/4	77	10	1
35	928	1	2	64	1	2012/1/24	73	9	0
36	929	0	2	62	0	2013/2/2	72	10	0
37	930	0	2	58	0	2013/1/2	61	3	0
38	931	0	2	64	0	2012/2/16	68	4	0
39	932	1	2	46	1	2013/1/27	52	6	0
40	933	0	2	52	0	2013/1/14	57	5	0
41	934	0	2	55	0	2012/1/12	64	9	0
42	935	0	2	50	0	2013/1/3	60	10	0
43	936	1	2	50	0	2012/1/6	58	8	0
44	937	0	2	56	0	2013/1/18	65	9	0
45	938	0	2	41	0	2012/1/6	54	13	0
46	939	0	2	70	0	2013/1/2	75	5	1
47	940	1	2	83	0	2012/2/15	87	4	0
48	941	0	2	59	0	2012/1/7	66	7	0
49	942	0	2	64	0	2013/1/11	78	14	0
50	943	0	2	74	0	#####	74	0	0
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52	945	0	2	60	0	2012/1/6	72	12	0
53	946	0	2	75	0	2013/2/6	86	11	0
54	947	0	2	49	0	2012/1/6	64	15	0
55	948	0	2	64	0	2012/8/28	64	0	0
56	949	1	2	75	1	2013/6/21	77	2	0
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58	951	0	2	47	0	2012/1/3	64	17	0

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4	953	0	2	60	0	2013/1/3	73	13	0
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6	955	0	2	53	0	2012/1/12	59	6	0
7	956	0	2	52	1	2012/2/15	54	2	0
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9	958	1	2	56	1	2012/8/7	73	17	0
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11	960	0	2	63	1	2013/12/2	76	13	0
12	961	0	2	69	0	2012/3/14	86	17	0
13	962	0	2	48	1	2013/10/1	48	0	1
14	963	0	2	41	0	2013/1/17	54	13	0
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16	965	0	2	56	0	2012/1/11	63	7	0
17	966	0	2	55	0	2013/3/11	57	2	0
18	967	0	2	41	0	2012/1/3	55	14	0
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20	969	0	2	53	0	2012/1/3	64	11	0
21	970	0	2	70	0	2013/1/24	79	9	0
22	971	0	2	73	0	2013/1/2	79	6	0
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25	974	0	2	40	0	2013/1/7	58	18	1
26	975	0	2	85	0	2013/1/25	92	7	0
27	976	0	2	70	0	2012/1/6	73	3	1
28	977	0	2	47	0	2013/1/11	60	13	0
29	978	0	2	63	0	2013/1/11	71	8	1
30	979	1	2	47	1	2012/10/6	59	12	0
31	980	0	2	61	0	2012/1/31	66	5	0
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33	982	0	2	47	0	2012/1/2	59	12	0
34	983	1	2	63	0	2013/1/4	71	8	0
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36	985	0	2	56	0	2012/1/5	59	3	0
37	986	0	2	69	0	2012/2/24	77	8	0
38	987	0	2	44	0	2012/1/6	52	8	0
39	988	0	2	49	0	2013/1/2	66	17	0
40	989	0	2	52	0	2012/1/9	61	9	0
41	990	0	2	54	0	2013/1/2	60	6	0
42	991	0	2	51	0	2012/1/13	58	7	0
43	992	1	2	71	0	2012/1/26	80	9	0
44	993	0	2	51	0	2012/1/17	64	13	1
45	994	0	2	66	0	2013/1/16	72	6	0
46	995	0	2	71	0	2013/1/3	77	6	0
47	996	0	2	56	0	2013/1/10	58	2	1
48	997	0	2	51	0	2013/2/5	61	10	0
49	998	0	2	49	0	2013/1/10	54	5	0
50	999	0	2	50	1	2012/5/1	55	5	0
51	1000	0	2	51	0	2013/1/4	69	18	0
52	1001	0	2	63	0	2012/1/3	76	13	0
53	1002	0	2	61	0	2013/1/8	71	10	0
54	1003	0	2	49	0	2013/1/2	60	11	0
55	1004	1	2	58	0	2012/1/12	59	1	0
56	1005	0	2	32	0	2013/1/4	49	17	0
57	1006	0	2	46	0	2012/1/6	63	17	0
58	1007	0	2	42	0	2012/3/7	48	6	0

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4	1009	0	2	44	0	2012/1/6	56	12	0
5	1010	0	2	59	0	2013/3/15	69	10	0
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7	1012	1	2	70	1	2012/2/11	87	17	1
8	1013	1	2	73	0	2013/1/2	79	6	0
9	1014	1	2	50	0	2013/1/3	52	2	0
10	1015	0	2	58	0	2013/3/8	69	11	0
11	1016	0	2	70	0	2012/1/14	82	12	0
12	1017	1	2	54	1	2013/3/16	55	1	1
13	1018	0	2	55	1	2013/3/20	73	18	1
14	1019	0	2	85	1	2012/6/14	94	9	0
15	1020	0	2	39	1	2013/9/10	50	11	0
16	1021	1	2	66	0	2012/1/10	74	8	1
17	1022	1	2	65	0	2012/1/3	82	17	0
18	1023	1	2	69	0	2012/1/13	71	2	1
19	1024	0	2	41	0	2013/1/25	43	2	0
20	1025	1	2	53	0	2012/1/11	60	7	0
21	1026	0	2	39	0	2013/1/15	43	4	0
22	1027	0	2	52	0	2013/1/6	65	13	0
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24	1029	0	2	51	0	2013/1/28	69	18	0
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26	1031	1	2	58	0	2012/1/3	65	7	0
27	1032	1	2	62	1	2013/7/3	63	1	0
28	1033	0	2	47	0	2013/1/7	54	7	0
29	1034	0	2	65	0	2013/1/4	72	7	0
30	1035	0	2	59	1	2012/8/17	74	15	0
31	1036	0	2	71	0	2013/1/22	73	2	0
32	1037	0	2	61	0	2013/1/4	66	5	0
33	1038	0	2	57	0	2013/1/7	69	12	0
34	1039	1	2	53	0	2013/1/10	71	18	0
35	1040	0	2	51	1	2012/3/7	52	1	0
36	1041	0	2	58	0	2013/1/2	67	9	1
37	1042	0	2	65	1	2013/5/13	73	8	0
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39	1044	0	2	68	1	2012/1/6	74	6	0
40	1045	0	2	55	0	2013/1/21	64	9	0
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43	1048	0	2	57	0	2013/1/2	68	11	0
44	1049	0	2	48	0	2012/1/1	55	7	0
45	1050	0	2	49	0	2012/1/20	54	5	0
46	1051	0	2	70	0	2013/1/5	73	3	1
47	1052	1	2	59	0	2012/1/16	61	2	0
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51	1056	0	2	63	0	2012/1/4	70	7	1
52	1057	1	2	51	0	2013/1/2	63	12	0
53	1058	0	2	63	1	2013/10/8	69	6	0
54	1059	1	2	69	1	2013/2/4	76	7	0
55	1060	1	2	69	0	2013/1/1	70	1	0
56	1061	0	2	73	0	2012/1/4	80	7	0
57	1062	0	2	50	0	2013/1/11	63	13	0
58	1063	1	2	61	0	2013/1/3	76	15	0

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4	1065	1	2	66	1	2012/9/10	78	12	0
5	1066	1	2	55	0	2012/2/16	57	2	0
6	1067	0	2	45	0	2013/1/3	60	15	0
7	1068	0	2	63	0	2012/1/2	64	1	0
8	1069	0	2	52	0	2013/1/28	54	2	0
9	1070	0	2	38	0	2013/1/22	47	9	0
10	1071	0	2	51	1	2012/4/20	64	13	0
11	1072	1	2	64	0	2013/1/4	79	15	1
12	1073	0	2	56	0	2013/1/12	63	7	0
13	1074	1	2	74	0	2013/1/18	79	5	0
14	1075	0	2	44	0	2012/2/10	61	17	0
15	1076	0	2	62	0	2013/1/8	71	9	0
16	1077	0	2	57	0	2012/1/20	69	12	0
17	1078	0	2	43	0	2013/1/21	48	5	0
18	1079	0	2	61	1	2013/3/4	70	9	1
19	1080	0	2	46	0	2012/1/6	52	6	0
20	1081	1	2	44	0	2012/1/18	56	12	0
21	1082	0	2	69	0	2012/2/9	73	4	1
22	1083	1	2	67	0	#####	67	0	0
23	1084	0	2	59	0	2013/1/3	69	10	0
24	1085	0	2	43	0	2012/6/1	43	0	0
25	1086	1	2	59	0	2013/2/4	62	3	0
26	1087	1	2	55	0	2012/6/18	57	2	0
27	1088	0	2	79	1	2012/2/11	82	3	0
28	1089	1	2	60	0	2013/1/12	69	9	0
29	1090	0	2	65	1	2013/9/3	76	11	0
30	1091	1	2	64	0	2013/3/13	72	8	0
31	1092	1	2	67	1	2012/8/27	80	13	1
32	1093	1	2	70	0	2013/1/2	84	14	0
33	1094	0	2	48	0	2013/1/4	52	4	0
34	1095	1	2	64	1	2012/3/22	76	12	0
35	1096	0	2	70	0	2012/1/5	75	5	0
36	1097	0	2	58	0	2012/1/13	68	10	0
37	1098	0	2	49	0	2013/1/4	53	4	0
38	1099	0	2	73	1	2013/7/14	78	5	0
39	1100	1	2	47	0	2012/1/11	57	10	0
40	1101	1	2	65	0	2012/1/2	82	17	0
41	1102	0	2	59	0	2013/1/11	72	13	0
42	1103	0	2	62	0	2012/1/11	68	6	0
43	1104	0	2	49	0	2012/1/6	58	9	0
44	1105	0	2	59	0	2013/1/4	65	6	0
45	1106	0	2	40	0	2012/1/19	46	6	0
46	1107	0	2	65	0	2013/1/4	75	10	0
47	1108	0	2	50	0	2013/2/18	61	11	0
48	1109	0	2	71	0	2013/1/3	80	9	0
49	1110	0	2	60	0	2012/1/5	70	10	0
50	1111	0	2	52	0	2013/1/4	57	5	0
51	1112	1	2	58	0	2012/1/7	72	14	0
52	1113	0	2	55	0	2013/1/29	61	6	0
53	1114	0	2	65	0	2013/1/4	70	5	1
54	1115	1	2	65	0	2012/5/30	82	17	0
55	1116	0	2	44	1	2012/6/22	44	0	0
56	1117	0	2	58	0	2012/1/4	75	17	0
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3	1120	0	2	72	0	2012/1/18	72	0	0
4	1121	1	2	48	0	2012/1/20	52	4	0
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6	1123	0	2	49	0	2012/5/1	49	0	0
7	1124	1	2	60	0	2012/1/2	66	6	1
8	1125	0	2	59	0	2012/1/6	67	8	0
9	1126	0	2	56	0	2012/3/6	64	8	0
10	1127	0	2	53	0	2013/1/30	60	7	0
11	1128	0	2	65	0	2012/3/8	73	8	0
12	1129	0	2	52	1	2012/7/28	52	0	0
13	1130	0	2	58	0	2013/1/8	71	13	0
14	1131	1	2	56	1	2013/9/14	71	15	0
15	1132	0	2	80	0	2013/1/7	92	12	0
16	1133	0	2	62	0	2012/1/2	71	9	0
17	1134	1	2	74	0	2013/1/3	78	4	1
18	1135	1	2	67	0	2012/1/2	78	11	0
19	1136	1	2	48	0	2012/1/2	53	5	0
20	1137	1	2	67	0	2012/1/12	81	14	0
21	1138	1	2	37	0	2012/3/5	42	5	0
22	1139	1	2	63	0	2012/1/9	67	4	0
23	1140	1	2	48	0	2013/6/21	48	0	0
24	1141	0	2	53	0	2012/1/7	59	6	0
25	1142	0	2	54	1	2012/5/21	65	11	0
26	1143	1	2	60	1	2012/1/13	62	2	0
27	1144	1	2	37	1	2012/12/9	42	5	0
28	1145	1	2	51	1	2013/10/4	63	12	1
29	1146	0	2	78	1	2013/9/25	82	4	0
30	1147	1	2	70	0	2012/1/7	83	13	1
31	1148	0	2	82	0	2012/1/5	86	4	0
32	1149	1	2	48	0	2013/2/18	48	0	0
33	1150	0	2	52	0	2013/1/7	54	2	1
34	1151	1	2	69	0	2012/4/18	80	11	0
35	1152	0	2	52	0	2012/1/10	60	8	0
36	1153	0	2	52	0	2012/2/29	53	1	0
37	1154	0	2	56	0	2012/1/10	73	17	0
38	1155	1	2	63	1	2013/8/23	77	14	1
39	1156	0	2	61	1	2013/5/28	74	13	0
40	1157	0	2	57	0	2013/1/5	70	13	1
41	1158	1	2	70	0	2012/2/14	77	7	0
42	1159	0	2	84	0	2013/1/22	86	2	1
43	1160	0	2	51	0	2013/1/9	69	18	0
44	1161	0	2	81	0	2013/1/8	83	2	0
45	1162	1	2	69	1	2013/7/24	76	7	0
46	1163	0	2	40	0	2012/1/4	56	16	0
47	1164	0	2	63	0	2012/1/5	71	8	0
48	1165	0	2	58	0	2013/1/5	66	8	0
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53	1170	0	2	34	1	2012/1/2	38	4	1
54	1171	0	2	51	0	2012/1/5	59	8	0
55	1172	0	2	53	1	#####	53	0	1
56	1173	0	2	65	1	2012/4/6	70	5	1
57	1174	1	2	66	0	2012/1/3	75	9	0
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4	1177	1	2	55	1	2012/9/13	58	3	1
5	1178	1	2	68	0	2012/1/18	75	7	0
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7	1180	0	2	51	0	2013/1/8	58	7	0
8	1181	0	2	30	0	2012/2/17	37	7	0
9	1182	1	2	53	0	2012/1/2	60	7	0
10	1183	1	2	57	0	2013/1/26	71	14	0
11	1184	1	2	64	0	2012/2/3	72	8	0
12	1185	0	2	54	0	2013/1/7	65	11	0
13	1186	0	2	63	0	2013/1/11	72	9	0
14	1187	1	2	72	0	2012/1/25	76	4	1
15	1188	0	2	47	0	2012/1/11	59	12	0
16	1189	0	2	58	0	2013/1/2	69	11	0
17	1190	1	2	68	1	#####	73	5	0
18	1191	0	2	52	0	2013/1/7	65	13	0
19	1192	0	2	55	1	2013/9/24	65	10	0
20	1193	0	2	71	0	2012/1/17	84	13	0
21	1194	0	2	69	0	2012/1/10	77	8	0
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23	1196	0	2	56	0	2013/1/14	62	6	0
24	1197	0	2	38	1	2012/4/11	49	11	0
25	1198	0	2	39	0	2013/1/21	45	6	0
26	1199	1	2	65	0	2012/2/23	73	8	1
27	1200	0	2	32	0	2012/9/24	37	5	0
28	1201	0	2	55	0	2013/1/8	66	11	0
29	1202	1	2	66	0	2012/1/10	67	1	0
30	1203	0	2	70	1	#####	81	11	1
31	1204	0	2	60	0	2013/1/15	60	0	0
32	1205	0	2	47	0	2012/1/16	64	17	0
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35	1208	1	2	47	0	2012/1/10	57	10	0
36	1209	0	2	57	1	#####	62	5	0
37	1210	1	2	71	0	2013/1/11	72	1	0
38	1211	1	2	49	1	2013/5/21	64	15	0
39	1212	0	2	62	1	2013/4/24	77	15	0
40	1213	1	2	50	0	2012/1/13	52	2	0
41	1214	0	2	48	0	2013/2/6	55	7	0
42	1215	0	2	31	0	2013/1/14	42	11	0
43	1216	0	2	64	0	2013/1/22	70	6	0
44	1217	0	2	56	0	2013/1/4	58	2	0
45	1218	0	2	73	0	2013/7/30	73	0	0
46	1219	0	2	47	0	2012/1/6	57	10	0
47	1220	1	2	44	0	2012/1/10	57	13	0
48	1221	0	2	57	1	2013/8/27	75	18	0
49	1222	0	2	83	0	2012/1/2	92	9	1
50	1223	0	2	54	0	2013/9/16	54	0	0
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55	1228	1	2	42	1	2012/5/7	57	15	0
56	1229	0	2	44	0	2013/2/20	62	18	0
57	1230	0	2	49	0	2013/1/10	63	14	0
58	1231	0	2	51	0	2012/2/9	58	7	0

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3	1232	0	2	59	0	2013/1/8	69	10	0
4	1233	1	2	54	0	2012/1/10	62	8	0
5	1234	0	2	75	0	2013/3/2	81	6	0
6	1235	0	2	32	1	2013/1/23	49	17	1
7	1236	0	2	64	0	2013/1/11	69	5	0
8	1237	1	2	56	1	#####	74	18	0
9	1238	1	2	50	0	2013/1/8	62	12	0
10	1239	0	2	51	1	2012/3/27	58	7	0
11	1240	0	2	47	1	2013/9/18	49	2	0
12	1241	0	2	50	0	2013/1/5	53	3	0
13	1242	1	2	54	0	2013/1/5	57	3	0
14	1243	0	2	63	1	2012/7/8	65	2	0
15	1244	0	2	51	0	2013/1/8	61	10	0
16	1245	1	2	59	0	2013/1/11	72	13	0
17	1246	0	2	36	0	2012/1/6	38	2	0
18	1247	0	2	64	0	2012/1/3	80	16	1
19	1248	1	2	62	1	2013/6/6	80	18	1
20	1249	0	2	54	0	2013/1/18	64	10	0
21	1250	1	2	50	0	2012/7/2	55	5	0
22	1251	0	2	47	1	#####	65	18	0
23	1252	0	2	58	0	2013/1/22	71	13	0
24	1253	0	2	59	0	2013/1/15	76	17	0
25	1254	1	2	54	0	2012/2/17	59	5	0
26	1255	1	2	43	0	2013/3/7	54	11	0
27	1256	0	2	43	0	2013/1/7	44	1	0
28	1257	0	2	57	0	2013/2/8	68	11	0
29	1258	1	2	66	1	#####	84	18	0
30	1259	0	2	64	0	2013/1/4	70	6	0
31	1260	0	2	61	1	2013/6/11	62	1	0
32	1261	0	2	52	0	2012/1/1	67	15	0
33	1262	0	2	60	0	2013/1/2	70	10	0
34	1263	1	2	68	0	2012/2/11	74	6	0
35	1264	1	2	64	0	2012/1/9	70	6	0
36	1265	1	2	60	0	#####	60	0	0
37	1266	0	2	60	0	2013/1/2	71	11	0
38	1267	0	2	57	0	2012/1/28	58	1	0
39	1268	0	2	69	0	2013/1/25	77	8	0
40	1269	0	2	62	0	2013/1/14	72	10	0
41	1270	1	2	54	0	2012/1/2	62	8	0
42	1271	0	2	75	1	2013/3/27	76	1	0
43	1272	0	2	50	1	#####	62	12	1
44	1273	0	2	58	0	2013/1/4	71	13	0
45	1274	0	2	60	0	2013/1/15	71	11	0
46	1275	0	2	68	0	2013/1/2	81	13	0
47	1276	0	2	70	0	2013/1/16	76	6	0
48	1277	0	2	34	0	2012/1/6	39	5	0
49	1278	0	2	60	0	2013/1/7	66	6	0
50	1279	0	2	49	0	2012/1/3	51	2	0
51	1280	1	2	38	0	2012/1/16	47	9	0
52	1281	0	2	62	1	2013/9/19	75	13	0
53	1282	0	2	42	0	2013/1/3	54	12	0
54	1283	1	2	34	0	2012/1/4	38	4	0
55	1284	0	2	57	0	2012/1/10	63	6	1
56	1285	0	2	56	0	2013/2/23	68	12	0
57	1286	0	2	42	1	#####	58	16	0
58	1287	0	2	56	0	2013/1/12	68	12	0

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3	1288	1	2	53	0	2012/1/12	54	1	0
4	1289	0	2	56	0	2012/5/23	70	14	0
5	1290	0	2	66	0	2012/1/1	70	4	1
6	1291	0	2	39	1	#####	56	17	0
7	1292	0	2	55	0	2012/1/4	57	2	1
8	1293	1	2	49	0	2012/1/28	57	8	0
9	1294	0	2	75	0	2012/5/21	75	0	0
10	1295	0	2	25	0	2013/3/25	40	15	0
11	1296	1	2	58	0	2013/1/4	63	5	0
12	1297	0	2	37	0	2013/1/4	55	18	0
13	1298	0	2	68	0	2012/1/3	74	6	1
14	1299	0	2	61	1	2013/9/14	64	3	0
15	1300	0	2	57	0	2013/1/11	65	8	0
16	1301	1	2	63	0	2012/1/7	70	7	0
17	1302	0	2	47	0	2012/9/6	47	0	0
18	1303	1	2	58	0	2012/1/12	71	13	0
19	1304	0	2	58	1	#####	69	11	0
20	1305	0	2	66	1	2012/3/26	83	17	1
21	1306	1	2	66	0	2013/1/11	76	10	0
22	1307	0	2	66	0	2013/1/7	78	12	0
23	1308	0	2	37	0	2012/1/3	47	10	0
24	1309	0	2	43	0	2012/1/28	48	5	0
25	1310	1	2	50	0	2012/1/7	60	10	0
26	1311	0	2	50	0	2013/1/1	58	8	0
27	1312	0	2	75	1	2012/5/22	85	10	0
28	1313	0	2	62	0	2012/1/18	70	8	0
29	1314	0	2	66	1	2013/9/2	66	0	1
30	1315	0	2	48	0	2012/2/4	63	15	0
31	1316	0	2	61	0	2012/1/9	70	9	1
32	1317	1	2	46	0	2013/1/25	58	12	0
33	1318	0	2	62	0	2013/1/23	65	3	0
34	1319	0	2	67	0	2012/1/2	76	9	0
35	1320	1	2	56	0	2013/1/1	57	1	0
36	1321	0	2	48	1	2012/11/5	48	0	0
37	1322	0	2	64	0	2012/1/2	71	7	0
38	1323	0	2	44	0	2013/1/1	62	18	0
39	1324	0	2	54	0	2013/1/28	58	4	0
40	1325	0	2	45	0	2013/1/12	58	13	0
41	1326	1	2	65	0	2012/1/10	66	1	0
42	1327	0	2	54	0	2012/7/4	54	0	1
43	1328	1	2	47	0	2013/1/16	53	6	0
44	1329	0	2	71	0	2012/2/10	76	5	0
45	1330	0	2	61	1	2012/4/3	74	13	0
46	1331	0	2	10	0	2012/1/10	24	14	0
47	1332	0	2	45	0	2013/1/18	59	14	0
48	1333	0	2	71	0	2012/1/14	76	5	0
49	1334	0	2	46	0	2013/1/25	64	18	0
50	1335	0	2	51	0	2013/1/14	62	11	0
51	1336	0	2	65	0	2013/2/2	71	6	0
52	1337	0	2	51	0	2013/1/9	62	11	0
53	1338	1	2	65	0	2012/1/21	76	11	0
54	1339	0	2	69	0	2013/1/18	75	6	0
55	1340	0	2	56	1	2012/5/24	60	4	0
56	1341	1	2	37	1	2012/7/12	50	13	0
57	1342	0	2	42	0	2012/1/11	59	17	0
58	1343	0	2	54	1	2013/3/29	65	11	1

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3	1344	0	2	42	0	2012/1/6	51	9	0
4	1345	0	2	44	1	2012/1/11	61	17	0
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6	1347	0	2	62	1	2013/4/18	75	13	0
7	1348	0	2	60	0	#####	60	0	0
8	1349	0	2	70	1	#####	76	6	0
9	1350	0	2	66	1	2013/8/27	80	14	0
10	1351	0	2	72	0	2013/1/2	78	6	0
11	1352	1	2	46	0	2012/7/31	54	8	0
12	1353	0	2	78	1	#####	78	0	1
13	1354	0	2	65	1	2013/8/26	77	12	0
14	1355	1	2	68	0	2012/7/4	68	0	1
15	1356	0	2	71	0	2012/1/31	77	6	0
16	1357	0	2	72	0	2013/1/22	72	0	1
17	1358	1	2	66	1	2013/1/24	72	6	0
18	1359	1	2	64	0	2012/2/6	69	5	1
19	1360	1	2	65	0	2013/1/28	76	11	1
20	1361	1	2	76	0	2012/2/10	82	6	1
21	1362	0	2	63	1	2013/2/14	81	18	0
22	1363	1	2	57	0	2013/1/2	69	12	0
23	1364	1	2	62	0	2012/2/9	68	6	0
24	1365	1	2	48	0	2013/1/5	59	11	0
25	1366	1	2	74	0	2012/1/19	76	2	0
26	1367	0	2	41	0	2012/1/5	58	17	0
27	1368	0	2	67	1	2012/8/7	75	8	0
28	1369	1	2	68	1	2012/6/28	80	12	0
29	1370	0	2	46	0	2013/3/11	55	9	0
30	1371	1	2	71	0	2012/1/13	75	4	0
31	1372	1	2	82	0	2013/1/15	83	1	0
32	1373	1	2	55	0	2013/1/8	66	11	0
33	1374	0	2	71	1	2012/1/19	86	15	0
34	1375	1	2	43	0	2012/1/3	54	11	0
35	1376	0	2	59	0	2013/1/8	75	16	0
36	1377	1	2	46	1	2013/8/7	50	4	0
37	1378	0	2	66	0	2013/1/5	78	12	0
38	1379	0	2	15	1	2012/5/1	25	10	0
39	1380	0	2	58	0	2013/2/24	69	11	0
40	1381	0	2	61	0	2012/1/17	68	7	0
41	1382	0	2	66	1	2013/5/17	84	18	0
42	1383	0	2	56	0	2012/1/18	67	11	0
43	1384	0	2	77	1	#####	78	1	0
44	1385	1	2	73	0	2012/1/12	76	3	0
45	1386	1	2	61	1	2012/7/16	69	8	1
46	1387	0	2	71	0	2013/1/7	80	9	0
47	1388	0	2	77	0	2012/1/8	84	7	0
48	1389	1	2	66	0	2013/1/19	70	4	0
49	1390	0	2	30	0	2013/2/22	40	10	0
50	1391	0	2	46	0	2012/1/4	52	6	0
51	1392	0	2	64	0	2012/1/4	81	17	1
52	1393	0	2	65	1	2012/1/31	75	10	0
53	1394	0	2	69	0	2013/1/3	76	7	0
54	1395	0	2	57	0	2012/1/13	74	17	0
55	1396	1	2	71	0	2012/2/20	83	12	0
56	1397	0	2	63	0	2013/1/3	73	10	0
57	1398	0	2	56	0	2013/1/8	62	6	1
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3	1400	1	2	70	0	2013/1/3	76	6	0
4	1401	1	2	46	0	2013/7/8	46	0	0
5	1402	0	2	69	0	2013/9/26	69	0	1
6	1403	0	2	53	0	2012/9/12	53	0	0
7	1404	0	2	70	0	2013/2/16	77	7	0
8	1405	0	2	49	0	2012/3/1	56	7	0
9	1406	1	2	80	0	#####	80	0	1
10	1407	1	2	64	0	2013/1/7	74	10	1
11	1408	0	2	47	0	2013/2/8	61	14	0
12	1409	1	2	63	0	2012/1/7	73	10	1
13	1410	0	2	60	0	2013/8/19	60	0	0
14	1411	0	2	76	0	2013/2/4	82	6	0
15	1412	0	2	66	0	2013/1/4	75	9	0
16	1413	0	2	55	0	2013/1/9	73	18	0
17	1414	1	2	43	0	2012/1/13	50	7	0
18	1415	0	2	67	1	2013/9/23	73	6	1
19	1416	0	2	61	0	2012/1/2	72	11	0
20	1417	0	2	52	0	2012/1/21	60	8	0
21	1418	0	2	48	0	2012/1/5	55	7	0
22	1419	0	2	48	0	2012/2/3	54	6	0
23	1420	1	2	63	0	2013/1/8	64	1	0
24	1421	0	2	72	1	2013/3/1	73	1	0
25	1422	1	2	82	0	2013/8/8	82	0	1
26	1423	0	2	60	0	2013/1/5	61	1	0
27	1424	0	2	54	1	2013/1/30	58	4	0
28	1425	0	2	48	0	2013/1/7	49	1	0
29	1426	0	2	58	0	2012/1/2	67	9	0
30	1427	0	2	56	0	2013/1/10	69	13	0
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32	1429	0	2	41	0	2013/1/14	54	13	0
33	1430	0	2	62	0	2013/1/17	73	11	0
34	1431	1	2	58	0	2013/1/21	64	6	0
35	1432	1	2	70	0	2012/1/19	83	13	0
36	1433	0	2	55	0	2013/1/10	66	11	0
37	1434	0	2	56	1	#####	63	7	0
38	1435	0	2	70	0	2012/1/2	76	6	0
39	1436	1	2	47	0	2013/1/7	58	11	1
40	1437	1	2	51	0	2013/2/5	60	9	0
41	1438	0	2	82	0	2012/2/10	91	9	0
42	1439	0	2	49	0	2012/1/3	62	13	0
43	1440	0	2	55	0	2013/1/5	73	18	0
44	1441	0	2	54	0	2013/1/14	61	7	0
45	1442	1	2	54	0	2013/1/7	61	7	1
46	1443	0	2	59	0	2013/1/24	74	15	1
47	1444	1	2	64	0	2013/1/4	67	3	0
48	1445	0	2	52	0	2013/1/22	61	9	0
49	1446	0	2	42	0	2012/5/12	59	17	0
50	1447	0	2	52	0	2012/1/9	56	4	0
51	1448	0	2	79	0	2013/3/30	91	12	0
52	1449	0	2	51	0	2012/2/3	60	9	0
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54	1451	0	2	74	0	2012/1/9	82	8	0
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56	1453	1	2	58	1	2012/3/7	60	2	0
57	1454	0	2	43	0	2013/1/4	51	8	0
58	1455	0	2	33	0	2012/1/5	40	7	0

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3	1456	0	2	54	0	2013/1/2	67	13	0
4	1457	1	2	65	0	2013/1/2	81	16	0
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6	1459	1	2	32	0	2012/1/4	49	17	0
7	1460	0	2	69	0	2012/1/19	77	8	0
8	1461	0	3	70	0	2013/2/4	70	0	0
9	1462	1	3	70	0	2013/3/8	76	6	0
10	1463	1	3	48	0	2013/1/30	48	0	0
11	1464	1	3	54	0	2012/2/2	58	4	0
12	1465	1	3	76	0	2012/1/5	80	4	0
13	1466	0	3	51	0	#####	51	0	0
14	1467	0	3	56	0	2012/1/28	69	13	0
15	1468	1	3	51	0	2012/1/11	52	1	0
16	1469	0	3	53	1	2012/5/10	53	0	0
17	1470	0	3	63	0	2013/1/2	66	3	0
18	1471	0	3	53	0	2013/1/9	59	6	0
19	1472	0	3	59	0	2013/1/10	76	17	0
20	1473	1	3	36	0	2013/2/2	49	13	0
21	1474	0	3	50	0	2012/1/17	58	8	0
22	1475	1	3	31	1	2013/4/26	31	0	0
23	1476	0	3	59	0	2012/1/30	64	5	0
24	1477	0	3	48	0	2012/1/4	61	13	0
25	1478	0	3	37	0	2013/1/15	48	11	0
26	1479	0	3	43	0	2012/1/24	54	11	0
27	1480	1	3	63	1	2013/3/23	65	2	1
28	1481	0	3	59	0	2012/1/14	61	2	0
29	1482	0	3	54	0	2012/1/12	62	8	0
30	1483	0	3	60	0	2012/1/16	64	4	0
31	1484	0	3	51	0	2013/1/7	57	6	0
32	1485	0	3	47	0	2013/7/11	47	0	0
33	1486	0	3	67	0	2013/1/24	68	1	0
34	1487	0	3	48	0	2012/1/5	59	11	0
35	1488	0	3	53	0	2012/1/19	58	5	0
36	1489	0	3	61	1	2012/12/3	61	0	0
37	1490	1	3	66	0	2013/1/15	67	1	0
38	1491	0	3	51	0	2013/1/4	61	10	0
39	1492	0	3	48	1	#####	58	10	0
40	1493	0	3	68	0	2013/1/2	73	5	0
41	1494	1	3	67	1	2013/1/9	73	6	1
42	1495	0	3	58	0	2013/1/8	65	7	0
43	1496	1	3	36	0	2013/5/13	49	13	0
44	1497	1	3	75	0	2012/1/3	79	4	0
45	1498	0	3	72	0	2013/1/15	78	6	0
46	1499	1	3	22	1	2013/1/25	24	2	0
47	1500	1	3	22	0	2013/2/15	25	3	0
48	1501	1	3	69	0	2012/1/17	74	5	0
49	1502	0	3	25	0	2012/4/28	31	6	0
50	1503	1	3	76	0	2012/1/17	77	1	0
51	1504	1	3	64	0	2012/1/11	69	5	0
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54	1507	0	3	45	1	2012/8/7	52	7	1
55	1508	0	3	48	0	2012/1/2	58	10	0
56	1509	1	3	39	0	2013/1/8	43	4	0
57	1510	1	3	64	0	2013/4/23	64	0	0
58	1511	1	3	42	0	2013/1/7	46	4	0

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3	1512	0	3	37	0	2012/1/18	43	6	0
4	1513	0	3	33	0	2013/1/3	45	12	0
5	1514	0	3	58	0	2012/2/1	64	6	0
6	1515	0	3	67	1	2012/8/30	68	1	1
7	1516	0	3	72	1	2013/10/7	75	3	0
8	1517	0	3	35	0	2012/1/3	41	6	0
9	1518	0	3	43	1	2013/3/5	61	18	0
10	1519	1	3	63	0	#####	63	0	0
11	1520	1	3	55	1	#####	59	4	0
12	1521	0	3	56	0	2012/1/11	56	0	0
13	1522	0	3	72	1	#####	72	0	0
14	1523	1	3	51	0	2012/1/20	58	7	0
15	1524	1	3	50	0	2012/1/7	51	1	0
16	1525	0	3	54	0	2012/3/7	60	6	0
17	1526	1	3	71	0	2012/1/7	77	6	0
18	1527	0	3	46	0	2012/1/16	54	8	0
19	1528	1	3	70	1	2012/8/20	71	1	0
20	1529	0	3	36	0	2013/1/9	54	18	0
21	1530	1	3	58	0	2012/1/27	59	1	0
22	1531	1	3	64	0	2012/1/4	65	1	0
23	1532	0	3	69	0	2012/1/9	71	2	0
24	1533	0	3	57	0	2013/1/8	60	3	1
25	1534	0	3	43	0	2013/1/16	61	18	0
26	1535	0	3	50	0	2013/2/25	55	5	0
27	1536	0	3	25	0	2012/1/3	30	5	0
28	1537	0	3	49	0	2012/2/8	54	5	0
29	1538	1	3	49	0	2012/1/18	53	4	0
30	1539	0	3	50	0	2012/1/12	56	6	0
31	1540	1	3	60	1	2012/8/7	60	0	0
32	1541	0	3	47	0	2013/1/17	65	18	0
33	1542	0	3	66	0	2012/2/13	69	3	0
34	1543	1	3	55	0	2012/1/13	56	1	1
35	1544	0	3	36	0	2012/2/13	37	1	0
36	1545	0	3	49	0	2012/2/14	66	17	0
37	1546	0	3	40	1	#####	58	18	0
38	1547	1	3	63	0	2012/1/11	68	5	0
39	1548	1	3	73	1	2012/3/21	75	2	0
40	1549	0	3	28	0	2012/2/6	30	2	0
41	1550	0	3	40	0	2012/1/14	42	2	0
42	1551	0	3	58	0	2013/5/7	58	0	0
43	1552	0	3	47	1	2012/2/15	57	10	1
44	1553	0	3	60	0	2012/1/4	64	4	0
45	1554	1	3	54	0	2012/1/3	55	1	0
46	1555	1	3	37	1	2013/5/2	43	6	0
47	1556	0	3	60	0	2012/2/14	61	1	0
48	1557	0	3	40	0	2013/1/7	55	15	0
49	1558	1	3	70	0	2012/1/7	74	4	0
50	1559	0	3	68	0	2013/1/2	73	5	0
51	1560	0	3	56	1	2012/3/13	60	4	0
52	1561	0	3	58	0	2012/1/3	60	2	0
53	1562	1	3	37	0	2013/2/26	46	9	0
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55	1564	1	3	32	0	2013/1/1	33	1	0
56	1565	1	3	52	0	2012/1/27	58	6	0
57	1566	0	3	45	0	2013/1/8	63	18	0
58	1567	1	3	46	0	2013/10/6	46	0	0

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4	1569	0	3	56	0	2013/1/11	70	14	0
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6	1571	1	3	73	0	2013/1/23	75	2	0
7	1572	0	3	24	0	2012/1/31	32	8	0
8	1573	0	3	61	0	2012/1/9	68	7	0
9	1574	0	3	36	0	2013/1/4	54	18	1
10	1575	0	3	56	1	2013/11/5	74	18	0
11	1576	1	3	52	0	2012/1/10	55	3	0
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14	1579	0	3	65	1	2013/8/16	68	3	0
15	1580	1	3	45	0	2013/2/19	56	11	0
16	1581	0	3	65	0	2012/1/6	69	4	0
17	1582	0	3	50	0	2013/1/23	59	9	0
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19	1584	0	3	40	0	2013/2/15	43	3	0
20	1585	1	3	42	0	2013/1/7	57	15	0
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24	1589	0	3	53	0	2012/1/11	60	7	0
25	1590	0	3	43	0	2012/1/20	55	12	0
26	1591	0	3	72	0	2013/1/9	74	2	0
27	1592	0	3	23	0	2012/1/18	28	5	0
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35	1600	0	3	25	0	2012/1/9	28	3	0
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37	1602	1	3	53	0	2012/2/1	53	0	0
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40	1605	0	3	22	0	2012/1/10	27	5	0
41	1606	0	3	57	1	#####	69	12	1
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44	1609	0	3	43	0	2013/7/12	43	0	0
45	1610	1	3	54	0	2012/1/5	55	1	0
46	1611	0	3	61	1	2012/7/7	63	2	0
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49	1614	0	3	62	0	2013/1/4	68	6	0
50	1615	0	3	43	0	2012/1/5	57	14	0
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54	1619	1	3	29	0	2013/1/3	33	4	0
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56	1621	1	3	58	0	2012/1/4	61	3	0
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4	1625	0	3	58	0	2012/1/3	72	14	1
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6	1627	0	3	59	0	2012/1/8	63	4	0
7	1628	0	3	59	0	2012/2/22	64	5	0
8	1629	1	3	61	0	2012/4/16	63	2	0
9	1630	1	3	59	0	2013/1/3	62	3	0
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13	1634	1	3	55	1	2012/9/10	55	0	0
14	1635	0	3	54	0	2012/1/4	60	6	0
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18	1639	0	3	46	0	2013/2/14	51	5	0
19	1640	0	3	31	0	2012/1/16	34	3	0
20	1641	0	3	28	0	2012/1/5	32	4	0
21	1642	1	3	48	1	2013/1/16	48	0	0
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25	1646	0	3	67	1	2012/7/5	67	0	1
26	1647	0	3	64	0	2013/10/9	66	2	0
27	1648	1	3	70	0	2012/1/2	71	1	1
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33	1654	0	3	41	0	2012/1/18	54	13	0
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43	1664	0	3	24	0	2012/1/4	28	4	0
44	1665	1	3	57	0	2012/3/8	57	0	0
45	1666	1	3	61	0	2013/1/7	69	8	0
46	1667	1	3	45	0	2013/5/9	45	0	0
47	1668	0	3	59	0	2013/1/23	75	16	0
48	1669	0	3	29	1	#####	29	0	0
49	1670	0	3	63	0	2013/1/4	78	15	1
50	1671	0	3	59	0	2012/1/30	66	7	1
51	1672	1	3	42	0	2013/2/28	46	4	0
52	1673	0	3	53	0	2013/1/7	62	9	0
53	1674	1	3	51	0	2012/1/21	53	2	0
54	1675	0	3	67	1	2012/10/9	67	0	0
55	1676	1	3	67	1	2012/3/23	67	0	0
56	1677	0	3	58	0	2012/2/13	66	8	0
57	1678	0	3	41	1	2012/5/29	45	4	0
58	1679	0	3	59	0	2012/1/2	64	5	1

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4	1681	0	3	49	0	2013/3/18	50	1	0
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6	1683	1	3	56	0	2012/1/17	62	6	0
7	1684	1	3	59	0	#####	59	0	1
8	1685	0	3	56	0	2013/1/7	56	0	0
9	1686	0	3	56	0	2012/5/2	56	0	0
10	1687	0	3	61	0	2012/1/17	63	2	0
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13	1690	0	3	48	0	2013/2/22	63	15	0
14	1691	0	3	50	0	2012/1/2	55	5	0
15	1692	0	3	71	0	2013/8/7	71	0	0
16	1693	0	3	54	1	#####	56	2	0
17	1694	0	3	39	0	2013/2/7	45	6	0
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19	1696	0	4	38	0	2012/1/12	43	5	0
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22	1699	0	4	38	1	2013/12/9	39	1	0
23	1700	0	4	49	1	2012/7/19	52	3	0
24	1701	0	4	35	0	2012/3/12	44	9	0
25	1702	1	4	57	0	2013/1/25	59	2	0
26	1703	0	4	55	0	2012/1/16	56	1	0
27	1704	0	4	45	0	2013/1/10	47	2	1
28	1705	0	4	40	0	2013/1/2	42	2	0
29	1706	1	4	51	0	2012/3/23	60	9	0
30	1707	0	4	43	0	2012/1/6	48	5	0
31	1708	1	4	50	0	2013/1/18	55	5	0
32	1709	0	4	50	1	2013/5/3	50	0	0
33	1710	0	4	27	0	2012/1/4	35	8	0
34	1711	1	4	54	0	2012/1/5	60	6	0
35	1712	1	4	60	0	#####	60	0	0
36	1713	1	4	53	0	2013/1/8	60	7	0
37	1714	1	4	69	0	2013/1/8	70	1	0
38	1715	1	4	48	0	2013/1/4	53	5	0
39	1716	1	4	53	1	2013/8/6	56	3	1
40	1717	1	4	43	0	2013/1/28	44	1	0
41	1718	0	4	39	1	2012/2/20	44	5	0
42	1719	0	4	51	0	2013/2/4	51	0	0
43	1720	1	4	71	1	2013/11/6	71	0	1
44	1721	0	4	52	1	2013/9/12	57	5	1
45	1722	0	4	38	1	2013/7/22	38	0	0
46	1723	0	4	46	0	2012/1/2	47	1	0
47	1724	0	4	38	0	2012/1/17	48	10	0
48	1725	0	4	34	0	2013/3/19	34	0	0
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55	1732	0	4	43	0	2012/1/20	46	3	0
56	1733	0	4	39	0	2012/1/10	43	4	0
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4	1737	0	4	46	1	2012/8/17	46	0	0
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9	1742	0	4	45	0	2012/3/13	54	9	0
10	1743	0	4	32	0	2012/1/7	40	8	0
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12	1745	1	4	63	0	2013/1/1	64	1	0
13	1746	1	4	67	0	#####	67	0	0
14	1747	0	4	47	0	2012/1/3	55	8	0
15	1748	0	4	48	0	2012/1/9	50	2	0
16	1749	0	4	42	0	2013/1/9	44	2	0
17	1750	1	4	53	0	#####	57	4	0
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24	1757	0	4	42	0	2012/1/2	47	5	0
25	1758	0	4	53	1	2012/3/4	54	1	0
26	1759	0	4	47	1	2012/7/27	53	6	0
27	1760	1	4	67	0	2013/6/3	67	0	0
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30	1763	0	4	19	0	2012/1/3	31	12	0
31	1764	1	4	50	0	2012/1/13	59	9	0
32	1765	0	4	33	0	2013/1/9	36	3	0
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34	1767	1	4	41	0	2013/1/17	42	1	0
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36	1769	0	4	51	0	#####	51	0	0
37	1770	0	4	44	0	2012/1/14	48	4	1
38	1771	0	4	38	0	2013/2/23	40	2	0
39	1772	0	4	28	1	2012/9/12	28	0	0
40	1773	0	4	38	0	2013/2/6	45	7	0
41	1774	1	4	63	0	2013/5/1	63	0	0
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45	1778	0	4	40	0	2012/1/3	44	4	0
46	1779	1	4	74	0	2013/6/19	74	0	0
47	1780	1	4	47	0	2013/1/23	56	9	0
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50	1783	0	4	26	0	2012/1/11	35	9	0
51	1784	1	4	68	0	2013/6/7	68	0	0
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56	1789	1	4	33	0	2012/1/18	35	2	0
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13	1802	0	4	26	0	2012/1/2	39	13	0
14	1803	1	4	74	0	2013/1/28	75	1	0
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45	1834	0	4	53	0	2012/1/3	56	3	0
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48	1837	1	5	46	1	2013/10/1	52	6	0
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56	1845	0	5	47	0	2013/1/11	51	4	0
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12	1857	0	5	48	0	2012/1/3	50	2	0
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14	1859	1	5	52	0	2013/1/7	54	2	0
15	1860	0	5	57	0	2012/1/4	58	1	1
16	1861	0	5	38	1	2013/7/9	48	10	0
17	1862	0	5	68	1	2013/4/23	78	10	0
18	1863	0	5	41	0	2013/1/23	48	7	0
19	1864	1	5	40	0	2013/1/14	49	9	1
20	1865	1	5	51	0	2012/1/5	64	13	0
21	1866	1	5	27	0	2012/8/23	27	0	1
22	1867	1	5	52	0	2012/1/16	65	13	0
23	1868	0	5	59	0	2012/1/9	64	5	0
24	1869	0	5	45	0	2012/1/3	50	5	0
25	1870	0	5	56	0	2012/1/11	57	1	0
26	1871	0	5	46	0	2013/1/7	47	1	0
27	1872	0	5	59	0	2013/1/4	67	8	0
28	1873	0	5	37	0	2013/1/4	49	12	0
29	1874	1	5	52	0	2012/2/1	63	11	0
30	1875	0	5	55	1	2013/9/27	57	2	0
31	1876	0	5	53	1	2012/12/8	54	1	1
32	1877	0	5	54	0	2013/1/2	57	3	0
33	1878	0	5	47	0	2012/2/17	52	5	0
34	1879	0	5	48	0	2013/1/1	53	5	0
35	1880	0	5	57	0	2013/3/25	62	5	0
36	1881	0	5	64	0	2013/2/6	64	0	0
37	1882	0	5	47	0	2012/1/11	51	4	0
38	1883	0	5	64	0	2013/1/2	68	4	0
39	1884	1	5	67	0	2012/1/9	70	3	0
40	1885	1	5	67	1	#####	70	3	0
41	1886	0	5	17	0	2012/1/10	19	2	0
42	1887	1	5	66	0	2012/2/15	71	5	0
43	1888	1	5	48	0	2013/1/4	51	3	0
44	1889	0	5	64	0	2013/1/7	74	10	0
45	1890	1	5	41	0	2013/1/7	45	4	0
46	1891	1	5	24	0	2012/1/3	26	2	0
47	1892	1	5	50	0	2013/1/25	52	2	0
48	1893	0	5	49	1	2012/11/5	52	3	0
49	1894	0	5	61	0	2013/1/14	66	5	0
50	1895	0	5	48	0	2013/6/5	48	0	0
51	1896	0	5	60	1	2013/6/18	64	4	0
52	1897	0	5	58	0	2013/1/3	60	2	0
53	1898	1	5	52	0	2012/1/9	63	11	0
54	1899	0	5	20	1	#####	20	0	0
55	1900	0	5	58	0	2012/1/3	64	6	0
56	1901	0	5	20	0	2012/1/12	22	2	0
57	1902	1	5	23	1	2012/12/9	24	1	0
58	1903	0	5	44	0	2013/1/29	50	6	1

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3	1904	0	5	46	0	2012/1/4	47	1	0
4	1905	0	5	66	1	2013/8/22	66	0	0
5	1906	0	5	62	0	2013/2/21	62	0	0
6	1907	0	5	21	0	2012/1/11	22	1	0
7	1908	0	5	68	0	2012/1/5	69	1	0
8	1909	0	5	57	0	2012/1/3	58	1	0
9	1910	0	5	70	0	2013/2/4	79	9	0
10	1911	1	5	50	1	#####	63	13	0
11	1912	0	5	70	0	2013/3/25	79	9	0
12	1913	1	5	47	0	2013/1/15	52	5	0
13	1914	0	5	66	1	2012/3/6	68	2	0
14	1915	1	5	25	0	#####	25	0	0
15	1916	0	6	70	0	2013/1/19	73	3	0
16	1917	0	6	37	0	2012/3/23	42	5	0
17	1918	0	6	65	0	2012/1/3	70	5	0
18	1919	1	6	65	0	2012/1/20	72	7	0
19	1920	0	6	48	0	2012/1/12	50	2	0
20	1921	0	6	68	0	2013/1/3	72	4	0
21	1922	0	6	69	1	2013/12/5	72	3	0
22	1923	0	6	31	0	2012/7/6	38	7	0
23	1924	0	6	39	0	2012/3/5	53	14	0
24	1925	0	6	59	0	2012/1/4	66	7	0
25	1926	0	6	50	0	2012/3/27	50	0	0
26	1927	0	6	36	0	2013/1/26	39	3	0
27	1928	0	6	72	0	2012/1/13	74	2	0
28	1929	0	6	31	0	2012/2/10	37	6	0
29	1930	0	6	38	0	2013/2/15	41	3	0
30	1931	0	6	49	1	2012/4/25	56	7	0
31	1932	0	6	48	0	2013/1/7	51	3	0
32	1933	1	6	67	1	2013/8/7	72	5	1
33	1934	0	6	37	0	2012/2/1	41	4	0
34	1935	0	6	39	0	2013/1/28	47	8	0
35	1936	0	6	68	0	2012/1/3	76	8	1
36	1937	0	6	48	0	2012/2/15	48	0	0
37	1938	0	6	38	0	2013/2/4	43	5	0
38	1939	0	6	33	0	2013/2/19	33	0	0
39	1940	0	6	46	0	2012/1/11	53	7	0
40	1941	0	6	68	0	2012/1/7	69	1	0
41	1942	0	6	46	0	2013/1/30	54	8	0
42	1943	0	6	44	1	#####	48	4	1
43	1944	0	6	37	0	2012/2/25	41	4	0
44	1945	1	6	67	0	2013/1/3	72	5	0
45	1946	0	6	64	0	2013/9/20	64	0	1
46	1947	0	6	73	0	2013/1/4	76	3	0
47	1948	0	6	76	0	2012/1/4	81	5	0
48	1949	0	6	56	0	2013/1/5	59	3	0
49	1950	1	6	63	0	2013/1/2	67	4	0
50	1951	0	6	63	0	2013/4/25	63	0	0
51	1952	0	6	54	0	2012/5/29	54	0	0
52	1953	0	6	80	0	2012/1/12	81	1	0
53	1954	0	6	60	0	2013/1/11	64	4	0
54	1955	0	6	49	0	2013/1/9	58	9	0
55	1956	0	6	43	0	2012/1/13	50	7	0
56	1957	1	6	70	1	#####	74	4	1
57	1958	0	6	56	0	2012/1/17	63	7	0
58	1959	0	6	28	0	2012/1/3	34	6	0

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3	1960	0	6	55	0	2012/1/9	68	13	0
4	1961	1	6	74	1	2012/1/25	79	5	1
5	1962	0	6	56	0	2012/1/9	64	8	0
6	1963	0	6	62	0	2012/8/27	62	0	0
7	1964	0	6	37	0	#####	37	0	0
8	1965	0	6	52	0	2013/1/9	59	7	0
9	1966	0	6	45	0	2012/9/7	45	0	0
10	1967	0	6	55	0	#####	55	0	0
11	1968	0	6	34	0	2013/1/3	42	8	0
12	1969	0	6	51	1	2013/4/23	54	3	0
13	1970	0	6	47	0	2012/12/4	47	0	0
14	1971	0	6	41	0	2013/1/5	46	5	0
15	1972	0	6	37	0	2013/1/2	39	2	0
16	1973	0	6	36	1	2012/8/15	45	9	0
17	1974	0	6	65	0	2012/1/11	71	6	0
18	1975	0	6	50	0	2012/1/13	56	6	0
19	1976	0	6	61	0	2012/2/15	67	6	0
20	1977	0	6	30	0	2013/3/7	31	1	0
21	1978	0	6	49	0	2013/1/31	49	0	0
22	1979	0	6	79	0	2012/6/29	79	0	0
23	1980	1	6	46	0	2012/1/2	56	10	0
24	1981	0	6	43	0	2012/1/13	48	5	0
25	1982	0	6	65	0	2012/1/4	71	6	0
26	1983	0	6	54	0	2013/7/25	54	0	0
27	1984	0	6	55	1	2012/7/6	55	0	0
28	1985	0	6	40	0	2013/2/1	48	8	0
29	1986	1	6	78	0	2012/1/2	82	4	1
30	1987	0	6	70	0	2012/1/17	71	1	1
31	1988	0	6	40	1	2012/4/18	47	7	0
32	1989	0	6	74	0	2013/7/8	74	0	0
33	1990	0	6	75	1	2012/10/6	79	4	1
34	1991	0	6	49	0	2013/1/10	58	9	0
35	1992	0	6	54	0	2013/6/27	55	1	0
36	1993	0	6	60	0	2013/1/14	64	4	0
37	1994	0	6	58	0	2012/1/4	68	10	1
38	1995	0	6	58	1	2012/1/18	61	3	0
39	1996	1	6	82	0	2012/1/9	83	1	0
40	1997	0	6	58	0	2013/4/22	58	0	0
41	1998	0	6	48	0	2012/1/5	53	5	0
42	1999	0	6	38	1	#####	42	4	0
43	2000	1	6	73	0	2012/9/28	73	0	0
44	2001	1	6	78	0	2013/8/28	78	0	0
45	2002	0	6	58	0	2013/8/1	58	0	0
46	2003	0	6	58	0	2012/1/2	59	1	0
47	2004	1	6	48	0	2012/1/3	51	3	0
48	2005	0	6	65	0	2013/4/1	68	3	0
49	2006	0	6	49	1	2013/3/7	50	1	0
50	2007	0	6	62	1	#####	64	2	0
51	2008	0	6	65	0	2013/1/9	67	2	0
52	2009	0	6	57	0	2012/2/17	66	9	0
53	2010	0	6	63	0	2012/1/2	68	5	0
54	2011	1	6	69	0	2012/1/12	76	7	0
55	2012	0	6	41	1	2013/1/8	51	10	0
56	2013	1	6	68	0	2012/1/5	72	4	0
57	2014	0	6	54	0	2013/1/2	56	2	0
58	2015	0	6	41	0	2013/5/20	50	9	0

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3	2016	0	6	52	1	2012/1/20	57	5	1
4	2017	0	6	68	0	2012/1/2	74	6	0
5	2018	0	6	58	0	2013/1/4	65	7	0
6	2019	0	6	51	1	2013/6/20	63	12	0
7	2020	0	6	84	0	2012/1/5	85	1	0
8	2021	0	6	41	0	2012/3/26	49	8	0
9	2022	0	6	63	0	2012/1/10	69	6	0
10	2023	0	6	27	0	2012/2/1	33	6	0
11	2024	1	6	61	0	2013/1/28	63	2	1
12	2025	0	6	78	0	2013/1/2	88	10	0
13	2026	0	6	75	0	2013/1/3	78	3	0
14	2027	0	6	52	0	2013/1/16	59	7	0
15	2028	0	6	49	1	2013/7/3	49	0	0
16	2029	0	6	76	0	2013/1/3	79	3	0
17	2030	0	6	48	0	2013/1/2	56	8	0
18	2031	0	6	58	0	2013/9/11	58	0	0
19	2032	1	6	75	0	2013/1/8	77	2	0
20	2033	0	6	48	0	2012/1/31	48	0	0
21	2034	0	6	52	0	2013/8/6	52	0	0
22	2035	0	6	45	0	2012/1/21	49	4	0
23	2036	0	6	77	0	2013/6/7	77	0	0
24	2037	1	6	65	1	#####	66	1	0
25	2038	0	6	43	0	2013/1/22	49	6	1
26	2039	0	6	58	0	2013/1/25	60	2	0
27	2040	0	6	55	0	2012/1/2	61	6	0
28	2041	0	6	36	1	2012/6/20	36	0	0
29	2042	0	6	64	0	2013/1/10	65	1	0
30	2043	0	6	52	0	2013/1/8	59	7	0
31	2044	0	6	52	1	2013/3/26	57	5	1
32	2045	1	6	68	1	2013/9/1	68	0	1
33	2046	0	6	30	0	2013/1/14	32	2	0
34	2047	0	6	47	0	2012/1/3	49	2	0
35	2048	0	6	48	0	2013/7/10	48	0	0
36	2049	0	6	30	1	2013/7/30	41	11	0
37	2050	0	6	49	0	2013/1/4	52	3	0
38	2051	0	6	78	0	2013/1/3	80	2	1
39	2052	1	6	76	0	2012/1/19	87	11	0
40	2053	1	6	74	1	2012/4/11	84	10	0
41	2054	0	6	56	0	2013/1/2	59	3	0
42	2055	0	6	46	0	2012/1/6	49	3	0
43	2056	0	6	64	1	#####	64	0	1
44	2057	0	6	64	0	2013/10/3	64	0	0
45	2058	0	6	20	1	#####	30	10	0
46	2059	0	6	45	0	2013/1/8	49	4	0
47	2060	0	6	66	1	2012/9/13	66	0	0
48	2061	0	6	80	0	2013/1/2	82	2	0
49	2062	0	6	46	0	2012/1/16	51	5	0
50	2063	0	6	75	0	2013/1/6	76	1	0
51	2064	1	6	44	0	2012/1/11	50	6	0
52	2065	0	6	76	0	2013/1/10	77	1	0
53	2066	0	6	53	0	2013/1/3	54	1	0
54	2067	0	6	49	0	2012/1/10	52	3	0
55	2068	0	6	42	0	2013/1/7	47	5	0
56	2069	0	6	70	1	#####	71	1	1
57	2070	0	6	45	1	#####	45	0	0
58	2071	0	6	74	0	2012/1/1	84	10	0

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3	2072	0	6	49	0	2013/10/3	49	0	0
4	2073	0	6	45	0	2012/1/2	49	4	0
5	2074	0	6	42	0	2012/12/5	42	0	0
6	2075	1	6	61	0	2013/1/2	62	1	0
7	2076	0	6	83	0	2012/1/3	86	3	0
8	2077	0	6	58	1	2013/7/4	60	2	0
9	2078	0	6	46	0	2013/3/28	49	3	0
10	2079	0	6	65	1	2012/6/6	70	5	0
11	2080	0	6	44	1	2012/1/6	44	0	1
12	2081	0	6	45	0	2012/1/3	53	8	0
13	2082	0	6	35	1	2012/4/11	43	8	0
14	2083	0	6	46	0	2012/8/6	46	0	0
15	2084	0	6	67	0	2012/1/11	70	3	0
16	2085	0	6	43	1	2013/8/31	43	0	0
17	2086	0	6	69	1	2012/8/14	73	4	1
18	2087	1	6	61	0	2012/1/16	69	8	0
19	2088	1	6	55	0	2012/1/26	59	4	0
20	2089	0	6	51	0	2013/1/17	54	3	0
21	2090	0	6	49	0	2012/6/8	53	4	0
22	2091	0	6	61	0	2012/1/3	64	3	0
23	2092	0	6	50	0	2013/1/12	57	7	0
24	2093	0	6	46	0	2012/1/3	53	7	0
25	2094	0	6	31	0	2012/1/2	37	6	0
26	2095	0	6	46	0	2013/4/26	46	0	0
27	2096	0	6	52	0	#####	52	0	0
28	2097	0	6	55	0	2013/1/3	57	2	0
29	2098	0	6	42	0	2012/1/10	50	8	0
30	2099	0	6	49	0	2013/1/16	55	6	0
31	2100	1	6	54	0	2012/1/16	61	7	0
32	2101	0	6	53	0	2013/1/15	60	7	0
33	2102	0	6	46	0	2012/1/10	53	7	0
34	2103	0	6	76	0	2013/1/4	88	12	0
35	2104	0	6	48	0	2013/5/16	48	0	0
36	2105	0	6	45	0	2012/1/5	50	5	0
37	2106	0	6	63	0	2012/1/11	66	3	0
38	2107	0	6	44	0	2012/1/20	47	3	0
39	2108	0	6	63	0	2012/1/16	66	3	0
40	2109	0	6	59	0	2013/1/2	65	6	0
41	2110	0	6	66	0	2012/1/3	75	9	1
42	2111	0	6	54	0	2012/3/14	60	6	0
43	2112	0	6	63	0	2012/1/18	68	5	0
44	2113	0	6	73	1	2013/6/2	86	13	0
45	2114	0	6	82	0	2012/1/2	84	2	0
46	2115	0	6	30	0	2012/1/3	42	12	0
47	2116	0	6	75	0	2012/2/15	75	0	0
48	2117	0	6	36	0	2012/1/10	48	12	0
49	2118	0	6	52	1	2013/6/9	53	1	0
50	2119	0	6	55	0	2012/1/4	63	8	0
51	2120	0	6	69	1	2012/4/13	80	11	1
52	2121	0	6	68	0	2012/6/18	68	0	0
53	2122	0	6	56	0	2012/1/16	59	3	0
54	2123	0	6	45	0	2013/1/6	51	6	0
55	2124	1	6	63	0	2013/1/4	67	4	0
56	2125	0	6	68	0	2013/1/4	72	4	0
57	2126	0	6	60	0	2012/8/22	60	0	0
58	2127	0	6	59	0	2012/1/14	64	5	0

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2								
3	2128	0	6	57	0 2013/1/17	64	7	0
4	2129	0	6	73	0 2012/1/4	75	2	0
5	2130	0	6	66	0 2012/1/6	68	2	0
6	2131	0	6	75	0 2013/2/1	76	1	0
7	2132	0	6	63	0 2012/3/5	63	0	0
8	2133	0	6	86	0 #####	86	0	0
9	2134	0	6	50	0 2013/1/25	56	6	0
10	2135	0	6	63	0 2013/1/10	68	5	0
11	2136	0	6	63	0 2012/2/1	65	2	0
12	2137	0	6	71	1 2012/7/26	73	2	0
13	2138	1	6	63	0 2013/1/2	69	6	0
14	2139	0	6	66	0 2012/3/1	74	8	0
15	2140	0	6	45	0 2013/1/21	60	15	0
16	2141	0	6	70	0 2012/1/3	73	3	0
17	2142	0	6	56	0 2013/1/8	63	7	0
18	2143	0	6	55	0 2013/1/16	62	7	0
19	2144	0	6	64	1 2012/5/15	71	7	0
20	2145	0	6	63	0 2013/1/2	69	6	0
21	2146	1	6	73	0 2013/1/9	78	5	0
22	2147	0	6	62	0 2012/1/2	69	7	0
23	2148	0	6	54	0 2013/1/4	55	1	0
24	2149	0	6	57	0 2013/1/2	68	11	0
25	2150	0	6	48	0 2012/1/12	52	4	0
26	2151	0	6	30	0 2012/3/13	38	8	0
27	2152	0	6	53	1 2012/8/14	53	0	1
28	2153	1	6	62	0 2013/6/28	62	0	0
29	2154	0	6	35	0 2013/3/26	35	0	0
30	2155	0	6	52	0 2012/1/20	56	4	0
31	2156	0	6	74	0 2013/1/15	81	7	0
32	2157	0	6	63	0 2013/1/3	64	1	0
33	2158	0	6	50	0 2013/1/10	58	8	0
34	2159	0	6	53	0 2012/2/6	55	2	0
35	2160	0	6	42	0 2013/1/3	54	12	0
36	2161	0	6	52	0 2013/1/29	59	7	0
37	2162	0	6	44	0 2012/2/20	44	0	0
38	2163	0	6	56	0 2012/1/30	64	8	0
39	2164	0	6	46	0 2013/4/16	53	7	0
40	2165	0	6	74	0 2012/1/14	78	4	0
41	2166	1	6	75	1 2012/4/17	75	0	1
42	2167	1	6	60	0 2013/1/3	63	3	0
43	2168	0	6	53	0 2013/1/7	60	7	0
44	2169	0	6	46	0 2013/2/8	51	5	0
45	2170	0	6	58	0 2012/1/5	59	1	0
46	2171	0	6	45	0 2013/1/5	53	8	0
47	2172	0	6	56	1 2012/3/20	56	0	0
48	2173	0	6	31	0 2013/1/9	31	0	0
49	2174	0	6	59	0 2013/1/3	60	1	0
50	2175	0	6	56	0 2013/1/8	59	3	0
51	2176	0	6	48	0 2013/1/11	49	1	0
52	2177	0	6	57	0 2012/1/3	64	7	0
53	2178	0	6	68	0 2013/1/3	69	1	0
54	2179	0	6	34	0 2013/1/11	40	6	0
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46	2227	0	6	43	0 2013/1/2	50	7	0	
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53	2234	0	6	58	0 2013/1/16	59	1	0	
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56	2237	0	6	66	1 #####	75	9	1	
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7	2244	0	6	55	0 2013/1/9	59	4	0	
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17	2254	0	6	47	0 2013/1/7	55	8	0	
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19	2256	0	6	51	1 #####	55	4	0	
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21	2258	0	6	42	0 2013/2/16	54	12	0	
22	2259	0	6	67	0 2012/1/2	75	8	0	
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35	2272	0	6	42	0 2012/2/22	49	7	0	
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40	2277	1	6	78	0 2012/1/5	84	6	0	
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43	2280	0	6	44	1 #####	44	0	0	
44	2281	0	6	58	1 #####	61	3	1	
45	2282	0	6	56	0 2013/1/8	59	3	0	
46	2283	0	6	42	0 2012/2/1	50	8	0	
47	2284	0	6	51	0 2013/1/18	52	1	0	
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6	2299	0	6	47	0 2012/2/7	55	8	0
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11	2304	0	6	55	0 2013/1/4	62	7	0
12	2305	0	6	85	1 2013/7/7	86	1	1
13	2306	1	6	58	0 2012/1/5	66	8	0
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16	2309	0	6	54	0 2012/3/16	57	3	0
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26	2319	0	6	39	1 2012/3/14	44	5	0
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33	2326	0	6	67	0 2012/1/3	72	5	0
34	2327	0	6	69	0 2012/1/2	72	3	0
35	2328	1	6	75	1 2012/3/20	80	5	1
36	2329	0	6	46	0 2013/1/3	53	7	0
37	2330	0	6	74	0 2013/1/18	77	3	0
38	2331	0	6	70	0 2013/1/4	75	5	0
39	2332	0	6	64	0 2013/2/7	71	7	0
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41	2334	0	6	40	0 2012/1/3	42	2	1
42	2335	0	6	43	0 2012/2/15	48	5	0
43	2336	0	6	58	0 2013/1/22	61	3	0
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8	2357	1	6	68	0	2013/1/7	69	1	0
9	2358	0	6	49	0	2013/1/2	55	6	1
10	2359	0	6	61	0	2013/1/10	64	3	0
11	2360	0	6	77	0	2013/9/23	77	0	1
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21	2370	1	6	59	1	#####	63	4	0
22	2371	0	6	55	0	2013/1/31	61	6	0
23	2372	0	6	57	0	2012/1/16	58	1	0
24	2373	0	6	50	1	2013/9/18	54	4	0
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33	2382	0	6	49	1	2013/9/9	61	12	0
34	2383	0	6	46	0	2012/2/2	53	7	0
35	2384	0	6	59	1	2012/12/5	69	10	0
36	2385	0	6	76	0	2013/2/6	76	0	0
37	2386	0	6	45	0	2012/1/17	51	6	0
38	2387	0	6	33	0	2012/1/16	34	1	0
39	2388	0	6	87	0	2013/5/7	87	0	0
40	2389	0	6	52	0	2013/6/26	52	0	0
41	2390	0	6	52	0	2013/1/11	53	1	0
42	2391	0	6	33	1	2013/5/11	36	3	0
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45	2394	0	6	60	0	2012/1/4	71	11	0
46	2395	0	6	51	0	2012/2/13	52	1	0
47	2396	0	6	60	0	2013/1/3	70	10	0
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16	2421	0	6	54	0 2013/1/4	56	2	0
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26	2431	0	6	54	0 2013/6/27	54	0	0
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28	2433	0	6	27	0 2012/1/6	33	6	0
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32	2437	0	6	58	0 2013/2/26	59	1	0
33	2438	0	6	47	0 2013/2/18	53	6	0
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37	2442	1	6	69	0 2012/2/23	78	9	0
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21	2482	0	6	53	1	#####	53	0	0
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25	2486	0	6	41	0	2013/1/3	46	5	0
26	2487	0	6	48	0	#####	48	0	0
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31	2492	0	6	48	0	2013/1/10	53	5	0
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33	2494	1	6	69	1	2013/7/3	70	1	0
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36	2497	0	6	59	1	2013/6/14	69	10	0
37	2498	0	6	64	0	2012/1/6	67	3	0
38	2499	0	6	56	0	2012/1/9	63	7	0
39	2500	0	6	48	0	2013/1/8	53	5	0
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41	2502	0	6	71	1	#####	75	4	1
42	2503	1	6	69	0	2012/3/13	78	9	1
43	2504	0	6	81	0	2012/1/2	87	6	0
44	2505	0	6	64	0	2013/1/12	67	3	0
45	2506	0	6	63	1	2013/2/1	71	8	1
46	2507	0	6	71	1	#####	71	0	1
47	2508	0	6	55	0	2013/2/8	55	0	0
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50	2511	0	6	79	0	#####	79	0	0
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56	2517	0	6	38	0	2013/1/16	46	8	0
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For peer review only

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CCI	CCI_group	Income	Urbanisatio	Etanercept	Adalimuma	Golimumab	Tocilizumal	Rituximab
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For peer review only

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	Methotrexate	Sulfasalazine	Leflunomid	Hydroxychloroquine	Cyclosporin	Azathioprine	Cyclophosphamide	TNF	Steroid, mg
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20	0	0	0	0	0	0	0	0	3.07
21	0	0	0	1	0	0	0	0	1.86
22	1	0	1	0	0	0	0	0	2.03
23	0	0	0	0	0	0	0	0	2.49
24	0	0	0	1	0	1	0	0	9.51
25	0	0	0	1	0	1	0	0	5.30
26	0	0	0	0	0	0	0	0	0.12
27	0	0	0	0	0	1	0	0	3.16
28	0	0	0	1	0	1	0	0	4.22
29	0	0	0	0	0	0	0	0	6.01
30	0	0	0	1	0	0	0	0	6.48
31	0	0	0	0	0	0	0	0	0.00
32	0	0	0	0	0	0	0	0	0.37
33	0	0	0	1	0	0	1	0	2.33
34	0	0	0	1	0	0	0	0	3.07
35	0	0	0	1	0	0	0	0	0.38
36	0	0	0	1	0	1	0	0	9.10
37	0	0	0	0	0	0	0	0	1.77
38	0	1	0	1	0	0	1	0	6.47
39	0	0	0	0	0	0	0	0	0.00
40	0	0	0	0	0	0	0	0	0.00
41	0	0	0	0	0	0	0	0	6.04
42	0	0	0	1	0	0	0	0	4.60
43	1	0	0	1	0	0	0	0	3.10
44	0	0	0	1	0	1	0	0	5.78
45	0	0	0	1	0	0	0	0	6.26
46	0	0	0	0	0	0	0	0	0.30
47	0	0	0	0	0	1	0	0	1.92
48	0	0	0	0	0	0	0	0	0.00
49	0	0	0	1	0	0	0	0	4.60
50	0	0	0	1	0	0	0	0	0.00
51	0	0	0	1	0	0	0	0	1.81
52	0	0	0	1	0	0	0	0	12.44
53	0	0	0	1	0	0	0	0	0.00
54	0	0	0	0	0	0	0	0	4.33
55	0	0	0	0	0	0	0	0	4.99
56	0	0	0	0	0	1	0	0	20.00
57	0	0	0	1	0	0	0	0	0.00
58	0	0	0	1	0	1	0	0	5.56

1									
2									
3	0	0	0	0	0	0	0	0	0.00
4	0	0	0	1	0	0	0	0	5.07
5	0	0	0	1	0	1	0	0	6.99
6	0	0	0	1	0	0	0	0	0.00
7	0	0	0	1	0	0	0	0	4.89
8	0	1	0	1	0	0	0	0	3.84
9	0	0	0	1	0	0	0	0	1.12
10	0	0	0	1	0	0	0	0	2.86
11	0	0	0	1	0	1	0	0	0.60
12	0	0	0	1	0	0	0	0	0.00
13	0	0	0	1	0	1	0	0	0.21
14	0	0	0	0	0	0	0	0	4.99
15	0	0	0	1	0	0	0	0	1.14
16	0	0	0	1	0	0	0	0	3.07
17	0	0	0	0	0	0	0	0	0.55
18	0	0	0	1	1	0	0	0	4.53
19	0	0	0	1	1	1	0	0	9.21
20	0	0	0	1	0	0	0	0	17.36
21	0	0	0	1	0	0	0	0	0.00
22	0	0	0	1	0	0	0	0	3.79
23	0	0	0	1	0	0	0	0	3.45
24	1	0	0	1	0	0	1	0	2.25
25	0	0	0	0	0	0	0	0	4.23
26	0	0	0	1	0	0	0	0	2.59
27	0	1	0	1	0	0	0	0	2.77
28	0	0	0	1	0	1	0	0	1.21
29	0	0	0	1	0	0	0	0	0.12
30	0	0	0	0	0	0	0	0	0.00
31	0	0	0	0	0	0	0	0	9.78
32	0	0	0	1	0	0	0	0	2.38
33	0	0	0	0	0	0	0	0	17.64
34	0	0	0	0	0	1	1	0	18.27
35	0	0	0	0	1	0	0	0	6.68
36	0	0	0	1	0	0	0	0	5.96
37	0	0	0	1	0	0	0	0	6.22
38	0	0	0	0	0	0	0	0	0.00
39	0	0	0	0	0	0	0	0	0.38
40	0	0	0	1	0	0	0	0	8.44
41	0	0	0	0	0	0	0	0	0.00
42	0	0	0	0	0	0	0	0	5.75
43	0	0	0	1	0	1	0	0	3.93
44	0	0	0	1	0	1	0	0	1.79
45	0	0	0	1	0	0	0	0	3.26
46	0	0	0	1	0	1	0	0	0.00
47	0	0	0	0	0	0	0	0	3.07
48	0	0	0	1	0	0	0	0	10.27
49	0	0	0	1	0	0	0	0	4.93
50	0	0	0	0	0	0	0	0	1.53
51	0	0	0	1	0	0	0	0	0.00
52	0	0	0	1	0	0	0	0	7.36
53	0	0	0	1	0	1	0	0	5.62
54	0	0	0	1	0	1	0	0	0.00
55	0	0	0	1	0	1	0	0	4.92
56	0	0	0	1	0	1	0	0	0.16
57	0	0	0	0	0	0	0	0	5.08
58	0	0	0	0	0	0	0	0	6.99
59	0	0	0	0	0	0	0	0	
60	0	0	0	0	0	0	0	0	

1									
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3	0	0	0	1	0	0	0	0	8.30
4	0	0	0	1	1	0	0	0	0.89
5	0	1	0	1	0	1	0	0	14.96
6	0	0	0	1	0	0	0	0	4.14
7	0	0	0	0	0	0	0	0	6.99
8	0	0	0	1	0	0	0	0	6.89
9	0	0	0	0	0	0	0	0	0.00
10	0	0	0	1	0	1	0	0	3.92
11	0	0	0	0	0	0	0	0	5.03
12	0	0	0	1	0	0	0	0	0.86
13	0	0	0	1	0	0	0	0	0.00
14	0	0	0	0	0	0	0	0	0.00
15	1	0	0	1	0	1	0	0	1.48
16	0	0	0	1	0	0	0	0	2.84
17	0	0	0	0	0	1	0	0	2.30
18	0	0	0	0	0	0	0	0	0.00
19	0	0	0	1	0	1	0	0	7.34
20	1	0	0	1	0	1	0	0	9.21
21	0	0	0	1	0	1	0	0	3.15
22	0	0	0	0	0	0	0	0	4.93
23	0	0	0	1	0	1	0	0	9.56
24	0	0	0	1	0	0	0	0	4.30
25	0	0	0	1	0	0	0	0	4.40
26	0	0	0	1	0	0	0	0	7.40
27	0	0	0	1	0	0	0	0	0.85
28	1	0	0	1	0	1	0	0	15.03
29	0	0	0	1	0	1	0	0	19.87
30	0	0	0	0	0	0	0	0	4.09
31	0	0	0	1	0	0	0	0	6.42
32	0	0	0	1	0	0	0	0	5.75
33	0	0	0	1	0	0	0	0	3.45
34	0	0	0	1	0	1	0	0	1.23
35	0	0	0	1	0	0	0	0	0.00
36	0	0	0	1	0	1	0	0	2.68
37	0	0	0	0	0	0	0	0	0.93
38	0	0	0	1	0	0	0	0	0.00
39	0	0	0	1	0	1	0	0	4.60
40	1	1	0	1	0	0	0	0	4.99
41	0	0	0	1	0	0	0	0	6.27
42	0	0	0	0	0	0	1	0	16.59
43	0	0	0	1	0	0	0	0	6.11
44	0	0	0	1	0	0	0	0	4.22
45	0	0	0	1	0	1	1	0	9.44
46	0	0	0	1	0	0	0	0	6.58
47	0	0	0	1	0	1	0	0	4.60
48	1	0	0	1	0	0	1	0	8.97
49	0	0	0	1	0	0	0	0	4.63
50	0	0	0	1	0	0	0	0	3.84
51	0	0	0	0	0	1	0	0	14.36
52	0	0	0	1	0	0	0	0	0.77
53	0	0	0	1	0	1	0	0	1.93
54	1	0	0	1	0	1	0	0	28.14
55	0	0	0	0	0	1	0	0	11.64
56	0	0	0	1	0	0	0	0	12.22
57	0	0	0	0	0	0	0	0	0.00
58	0	0	0	0	0	0	0	0	0.00
59	0	0	0	0	0	0	0	0	0.00
60	0	0	0	0	0	0	0	0	0.00

1									
2									
3	0	0	0	1	0	0	1	0	12.86
4	0	0	0	1	0	1	0	0	7.81
5	0	0	1	1	0	0	0	0	0.77
6	0	0	0	1	0	0	0	0	1.15
7	0	0	0	1	0	0	0	0	8.10
8	0	0	0	1	0	0	0	0	2.30
9	0	0	0	1	0	0	0	0	1.63
10	0	0	0	0	0	0	0	0	4.60
11	0	0	0	1	0	0	0	0	0.00
12	0	1	0	1	0	0	0	0	9.29
13	0	0	0	0	0	0	0	0	0.03
14	0	0	0	0	0	0	1	0	6.19
15	0	0	0	1	0	0	0	0	5.16
16	0	0	0	0	0	0	0	0	0.00
17	0	0	0	0	0	0	0	0	0.00
18	0	0	0	1	0	0	0	0	8.63
19	0	0	0	0	0	0	0	0	0.00
20	0	0	0	1	0	0	0	0	8.58
21	0	0	0	1	0	0	0	0	6.58
22	0	0	0	0	0	0	0	0	2.49
23	0	0	0	1	0	0	0	0	5.96
24	0	0	0	0	0	0	0	0	0.00
25	0	0	0	0	0	1	0	0	7.40
26	0	0	0	1	0	1	0	0	15.67
27	0	0	0	1	1	0	0	0	3.68
28	0	0	0	1	0	0	0	0	0.25
29	0	0	0	1	0	0	1	0	20.40
30	0	0	0	1	0	0	0	0	0.00
31	0	0	0	0	0	0	0	0	0.00
32	0	0	0	0	0	1	0	0	3.70
33	0	0	0	0	0	0	1	0	10.00
34	0	0	0	1	0	0	0	0	3.07
35	0	0	0	0	0	0	0	0	0.77
36	0	0	0	0	0	0	0	0	1.42
37	0	0	0	0	0	0	0	0	0.00
38	0	0	0	0	0	0	0	0	0.00
39	0	0	0	0	0	0	0	0	0.00
40	0	0	0	1	0	0	0	0	4.82
41	0	0	0	1	0	0	0	0	3.53
42	0	1	0	1	0	0	0	0	0.67
43	0	0	0	0	0	0	0	0	3.75
44	0	0	0	1	0	0	0	0	0.00
45	0	0	0	1	0	0	0	0	3.26
46	0	0	0	0	0	0	0	0	0.00
47	0	0	0	1	0	1	0	0	0.00
48	0	0	0	1	0	1	0	0	24.44
49	0	0	0	1	0	1	0	0	4.64
50	0	0	0	0	0	0	1	0	8.59
51	0	0	0	1	0	0	0	0	0.00
52	0	0	0	1	0	0	0	0	0.03
53	0	0	0	1	0	0	0	0	1.58
54	0	0	0	1	0	0	0	0	0.00
55	0	0	0	1	0	1	0	0	4.12
56	0	0	0	1	0	1	0	0	11.29
57	0	0	0	0	0	1	1	0	12.77
58	0	0	0	0	0	0	0	0	4.99
59	0	0	0	0	0	0	0	0	7.97
60	1	0	0	0	0	1	1	0	

1									
2									
3	0	0	0	1	0	1	0	0	0.19
4	0	0	0	0	0	0	0	0	1.05
5	0	0	0	1	0	0	0	0	12.33
6	0	0	0	0	1	0	0	0	7.99
7	0	0	0	0	0	0	0	0	0.13
8	0	0	0	1	0	0	0	0	3.16
9	0	0	0	1	0	0	0	0	2.11
10	0	0	0	1	0	1	0	0	1.53
11	0	0	0	0	0	0	0	0	1.15
12	0	0	0	0	0	0	0	0	0.00
13	0	0	0	1	0	0	0	0	13.97
14	0	0	0	0	0	0	0	0	0.00
15	0	0	0	1	0	1	0	0	2.30
16	0	0	0	0	0	0	0	0	2.49
17	0	0	0	0	0	0	0	0	0.00
18	0	0	0	0	0	1	0	0	4.03
19	0	0	0	1	0	0	0	0	0.25
20	0	0	0	0	0	0	0	0	0.19
21	0	0	0	0	0	0	0	0	0.00
22	0	0	0	1	0	1	0	0	5.37
23	1	0	0	1	0	0	0	0	7.51
24	0	0	0	0	0	0	0	0	1.53
25	0	0	0	1	0	0	0	0	3.84
26	0	0	0	1	0	0	0	0	2.53
27	0	0	0	0	0	0	0	0	0.00
28	0	0	0	0	0	1	0	0	0.89
29	0	0	0	0	0	0	0	0	2.01
30	0	0	0	1	0	1	0	0	12.62
31	0	0	0	0	0	0	0	0	0.00
32	0	0	0	1	0	0	0	0	8.85
33	0	0	0	1	0	0	0	0	0.41
34	0	0	0	0	0	1	0	0	11.32
35	0	0	0	0	0	0	0	0	9.21
36	0	0	0	0	0	0	0	0	4.99
37	0	0	0	1	1	1	0	0	2.55
38	0	0	0	0	0	0	0	0	0.00
39	0	0	0	1	0	0	0	0	0.00
40	0	0	0	1	0	1	0	0	17.64
41	0	0	0	0	0	0	0	0	3.84
42	0	0	0	1	0	0	0	0	0.00
43	0	0	0	1	0	1	0	0	0.06
44	0	0	0	1	0	1	0	0	9.96
45	0	0	0	1	1	0	0	0	9.07
46	0	0	0	1	0	0	0	0	0.00
47	0	0	0	1	0	0	0	0	10.36
48	0	0	0	0	0	1	0	0	0.25
49	0	0	0	1	0	0	0	0	8.32
50	0	0	0	0	0	0	1	0	2.37
51	1	0	0	1	0	0	0	0	10.95
52	0	0	0	0	0	0	0	0	0.00
53	0	0	0	1	0	1	0	0	1.03
54	0	0	0	1	0	0	0	0	18.58
55	0	0	0	1	0	0	0	0	0.77
56	0	0	0	1	0	0	0	0	5.14
57	0	0	0	0	0	0	0	0	0.00
58	0	0	0	0	0	0	0	0	0.00
59	0	0	0	1	0	1	0	0	0.72
60									

1									
2									
3	0	0	0	1	0	0	0	0	1.75
4	0	0	0	1	0	0	0	0	7.03
5	0	0	0	0	0	0	0	0	9.45
6	0	1	0	1	0	1	0	0	0.00
7	0	0	0	1	0	1	1	0	32.38
8	0	0	0	1	0	0	0	0	13.33
9	0	0	0	1	0	0	0	0	0.00
10	0	0	0	0	0	0	0	0	9.84
11	0	0	0	1	0	0	0	0	5.37
12	0	0	0	1	0	0	0	0	18.22
13	0	0	0	0	0	0	0	0	0.00
14	0	0	0	0	0	1	0	0	4.99
15	1	0	1	1	0	0	0	0	4.22
16	0	0	0	0	0	0	0	0	14.96
17	0	0	0	1	1	0	0	0	27.85
18	0	0	0	0	0	0	0	0	0.00
19	0	0	0	0	0	0	0	0	0.00
20	0	0	0	1	0	0	0	0	1.38
21	0	0	0	0	0	1	0	0	4.60
22	1	1	1	0	0	1	0	0	0.00
23	0	0	0	1	0	0	0	0	3.07
24	0	0	0	1	0	1	0	0	5.93
25	1	0	0	1	0	0	0	0	4.99
26	0	0	0	1	0	0	0	0	14.41
27	0	0	0	1	0	1	0	0	56.34
28	0	0	0	1	0	1	0	0	0.08
29	0	0	0	1	0	0	0	0	0.06
30	0	0	0	1	0	1	0	0	13.59
31	0	0	0	0	0	1	0	0	4.53
32	0	0	0	1	0	1	0	0	7.63
33	0	0	0	1	0	0	0	0	0.00
34	0	0	0	1	0	1	0	0	5.32
35	0	0	0	0	0	1	1	0	18.89
36	0	0	0	0	0	0	0	0	0.70
37	0	0	0	1	0	0	0	0	5.18
38	0	0	0	1	0	0	0	0	6.33
39	1	1	0	1	1	0	0	0	6.14
40	0	0	0	1	0	0	0	0	0.38
41	0	0	0	1	0	0	0	0	0.00
42	0	0	0	1	0	0	0	0	0.00
43	0	0	0	1	0	1	0	0	3.45
44	0	0	0	0	0	1	0	0	6.14
45	0	0	0	1	0	1	0	0	5.70
46	0	1	0	1	0	1	0	0	3.59
47	0	0	0	1	0	0	0	0	9.60
48	0	0	0	1	0	1	0	0	5.08
49	0	0	0	1	0	1	0	0	2.88
50	0	0	0	1	0	1	0	0	2.36
51	0	0	0	1	0	0	0	0	30.48
52	0	0	0	1	0	0	0	0	0.00
53	0	0	0	0	0	0	0	0	12.71
54	0	1	0	1	0	0	0	0	6.90
55	0	0	0	0	1	0	0	0	4.99
56	0	0	0	0	0	0	0	0	0.00
57	0	0	0	1	0	1	0	0	1.53
58	0	0	0	1	0	0	0	0	2.30
59	0	0	0	1	0	0	0	0	
60	0	0	0	1	0	0	0	0	

1									
2									
3	0	0	0	1	0	0	0	0	2.93
4	0	0	0	1	0	1	0	0	13.55
5	0	0	0	1	0	0	0	0	3.11
6	0	0	0	1	0	0	0	0	5.95
7	0	0	0	0	1	0	0	0	9.79
8	0	0	0	1	1	1	0	0	10.74
9	1	0	0	0	0	0	0	1	0.00
10	0	0	0	0	0	0	0	0	0.00
11	0	0	0	1	0	0	0	0	1.73
12	0	0	0	1	0	1	0	0	10.81
13	0	0	0	1	0	1	0	0	11.90
14	0	0	0	1	0	0	0	0	0.00
15	0	0	0	1	0	0	0	0	4.11
16	0	0	0	0	0	1	1	0	9.42
17	0	0	0	0	0	1	0	0	9.21
18	0	0	0	1	0	0	0	0	1.05
19	0	0	0	1	0	1	0	0	33.36
20	0	1	0	1	0	0	0	0	3.93
21	0	0	0	0	0	1	0	0	0.00
22	0	0	0	1	0	0	0	0	5.14
23	0	0	0	1	1	0	0	0	5.20
24	0	0	0	1	0	0	0	0	0.00
25	0	0	0	1	0	0	0	0	0.00
26	0	0	0	1	0	0	0	0	0.00
27	0	0	0	0	0	0	0	0	0.00
28	0	0	0	1	0	0	0	0	11.58
29	0	0	0	1	0	1	0	0	10.01
30	0	1	0	1	0	0	0	0	0.08
31	0	0	0	0	0	1	1	0	14.66
32	0	0	0	1	0	1	0	0	2.68
33	0	0	0	1	0	0	0	0	2.49
34	0	0	0	1	0	0	0	0	0.00
35	0	0	0	1	0	0	0	0	0.77
36	0	0	0	1	0	1	0	0	1.92
37	0	0	0	0	0	1	0	0	1.53
38	0	0	0	0	0	0	0	0	2.44
39	0	0	0	1	0	0	0	0	1.05
40	1	0	0	1	0	0	0	0	2.30
41	1	0	1	1	0	0	0	0	0.00
42	0	0	0	0	0	0	0	0	0.14
43	0	0	0	0	0	0	0	0	0.00
44	0	0	0	1	0	0	0	0	7.48
45	0	0	0	1	0	1	0	0	8.91
46	0	0	0	0	0	0	0	0	0.49
47	0	0	0	1	0	0	0	0	2.30
48	0	0	0	1	0	1	0	0	1.44
49	1	1	0	1	0	0	0	0	2.49
50	0	0	0	1	0	1	0	0	2.11
51	0	0	0	0	0	0	0	0	14.96
52	0	0	0	0	0	1	0	0	9.97
53	0	0	0	1	0	0	1	0	4.60
54	0	0	0	0	0	0	1	0	8.44
55	0	0	0	1	0	0	0	0	0.66
56	0	0	0	1	0	1	0	0	4.51
57	0	0	0	1	0	1	0	0	7.78
58	0	0	0	0	1	0	0	0	3.51
59	0	0	0	1	0	0	0	0	3.89
60	0	0	0	1	0	0	0	0	

1									
2									
3	0	0	0	0	0	1	0	0	4.93
4	0	0	0	0	0	1	0	0	2.68
5	0	0	0	1	0	0	0	0	0.38
6	0	0	0	0	0	0	0	0	0.00
7	0	0	0	0	0	1	0	0	10.03
8	0	0	0	1	0	1	0	0	25.52
9	0	0	0	1	0	1	0	0	5.18
10	0	0	0	1	0	0	0	0	0.00
11	0	0	0	0	0	0	0	0	0.00
12	0	0	0	1	0	0	0	0	0.00
13	0	0	0	1	0	1	0	0	8.22
14	0	0	0	1	0	0	0	0	7.55
15	0	0	0	0	0	0	0	0	0.00
16	0	0	0	1	0	0	0	0	0.00
17	0	0	0	1	0	0	0	0	0.99
18	0	0	0	1	0	0	0	0	4.99
19	0	0	0	0	0	0	0	0	0.00
20	0	0	0	0	0	0	0	0	0.00
21	0	0	0	0	0	0	0	0	0.00
22	0	0	0	0	0	1	0	0	7.14
23	1	1	1	1	0	0	0	1	4.99
24	1	0	0	0	0	0	0	0	0.05
25	1	0	0	0	0	0	0	1	4.60
26	1	0	0	0	0	0	0	0	5.11
27	0	0	0	1	0	0	0	0	0.00
28	0	0	0	1	0	0	0	0	4.74
29	0	0	0	0	0	0	0	0	0.00
30	0	1	0	0	0	0	0	0	3.77
31	1	0	0	1	0	0	0	0	2.47
32	0	0	0	0	0	0	0	0	0.99
33	1	0	0	1	0	0	0	0	4.60
34	1	0	0	1	0	0	0	0	4.89
35	1	0	0	1	0	0	0	0	0.33
36	1	0	0	1	0	0	0	0	4.37
37	1	1	0	1	0	0	0	0	0.29
38	0	0	0	0	0	0	0	0	0.00
39	0	0	1	1	0	0	0	1	0.00
40	1	1	0	0	0	0	0	0	2.22
41	0	0	0	0	0	0	0	0	0.00
42	0	0	0	0	0	0	0	0	0.00
43	1	0	0	1	0	0	0	0	0.00
44	0	0	0	0	0	0	0	0	0.00
45	1	0	0	1	0	0	0	1	5.53
46	0	1	0	1	0	0	0	0	0.44
47	1	0	0	1	0	0	0	1	1.73
48	1	0	0	1	0	0	0	0	3.07
49	1	0	1	1	0	0	0	1	22.63
50	0	0	0	1	0	0	0	0	3.92
51	0	0	0	0	0	0	0	0	0.00
52	1	0	0	1	0	0	0	0	1.15
53	0	0	0	0	0	0	0	0	0.00
54	0	0	0	0	0	0	0	0	1.71
55	1	1	0	1	0	0	0	1	6.14
56	0	0	0	0	0	0	0	0	3.07
57	1	0	0	0	0	0	0	0	7.95
58	0	1	0	1	0	1	0	0	3.89
59	0	0	0	0	0	0	0	0	0.00
60	0	0	0	0	0	0	0	0	0.00

1									
2									
3	1	0	0	0	0	0	0	0	1.56
4	1	0	0	0	0	0	0	0	1.23
5	0	0	0	0	0	0	0	1	0.00
6	0	0	0	0	0	0	0	0	0.00
7	0	1	0	1	0	0	0	0	1.23
8	0	0	0	1	0	0	0	1	3.07
9	0	0	0	0	0	0	0	0	0.00
10	1	1	0	1	1	0	0	0	9.26
11	1	0	0	0	0	0	0	1	6.52
12	0	0	0	1	0	0	0	1	10.78
13	0	1	0	1	0	0	0	0	3.84
14	0	1	0	1	0	0	0	0	2.30
15	0	0	0	0	0	0	0	0	0.00
16	0	0	0	0	0	0	0	0	0.00
17	0	0	0	1	0	0	0	0	0.00
18	1	1	0	1	0	0	0	1	0.00
19	1	1	0	1	0	0	0	0	0.41
20	1	0	0	1	0	0	0	0	2.68
21	1	1	0	1	0	0	0	0	1.21
22	1	1	0	0	0	0	0	0	0.00
23	0	0	0	0	0	0	0	0	4.27
24	0	0	1	1	1	0	0	0	5.18
25	0	0	0	0	0	0	0	0	0.00
26	0	0	0	0	0	0	0	0	0.00
27	0	0	0	0	0	0	0	0	0.00
28	1	1	0	1	0	0	0	1	0.00
29	0	0	1	1	0	0	0	0	0.00
30	1	1	1	0	0	0	0	0	8.34
31	1	0	0	0	0	0	0	0	0.03
32	0	1	0	1	0	0	0	0	2.81
33	0	0	0	0	0	0	0	0	0.30
34	0	0	0	0	0	0	0	0	0.00
35	0	0	0	1	0	0	0	0	1.53
36	0	1	0	0	0	0	0	0	2.05
37	1	0	0	1	0	0	0	0	1.71
38	1	0	0	0	0	0	0	1	3.83
39	0	0	0	0	0	0	0	0	0.00
40	1	1	0	1	0	0	0	0	6.48
41	0	1	0	1	0	0	0	0	8.12
42	1	1	1	1	0	0	0	0	4.03
43	1	1	0	1	0	0	0	0	7.44
44	0	0	0	1	0	0	0	0	0.38
45	0	0	0	0	0	0	0	0	0.00
46	0	1	0	1	0	0	0	0	4.22
47	0	0	0	0	0	0	0	0	1.12
48	1	0	0	1	0	0	0	0	0.00
49	0	0	0	0	0	0	0	0	0.22
50	1	1	0	0	0	0	0	0	1.71
51	1	1	0	0	0	0	0	0	8.00
52	0	1	1	1	0	0	0	0	5.04
53	1	1	0	1	0	0	0	0	3.07
54	1	1	1	1	0	0	0	1	12.08
55	1	0	0	1	0	0	0	0	0.08
56	0	1	0	1	0	0	0	0	2.30
57	1	1	0	0	0	0	0	0	0.00
58	0	0	0	0	0	0	0	0	0.06
59	0	0	0	0	0	0	0	0	0.00
60	0	0	0	0	0	0	0	0	0.00

1									
2									
3	1	1	0	1	0	0	0	0	0.38
4	1	1	0	1	0	0	0	1	8.59
5	1	1	0	0	0	0	0	0	3.07
6	0	0	0	0	0	0	0	0	0.33
7	1	1	0	1	0	0	0	0	3.01
8	0	0	0	1	0	0	0	0	0.34
9	1	0	0	1	0	0	0	0	2.49
10	1	1	0	0	0	0	0	0	4.93
11	0	0	0	0	0	0	0	0	0.00
12	1	0	1	0	0	0	0	0	5.27
13	0	0	0	1	0	0	0	0	5.75
14	0	0	0	0	0	0	0	0	0.00
15	0	1	0	0	0	0	0	0	4.99
16	0	1	1	0	0	0	0	0	17.74
17	1	1	0	1	0	0	0	0	4.44
18	0	0	0	0	0	0	0	0	0.00
19	1	0	0	1	0	0	0	0	4.08
20	1	1	0	1	0	0	0	1	3.84
21	0	0	0	0	0	0	0	0	0.00
22	0	0	0	1	0	0	0	0	3.33
23	1	0	0	1	0	0	0	0	0.00
24	0	0	0	0	0	0	0	0	0.77
25	0	0	0	0	0	0	0	0	0.00
26	0	0	0	0	0	0	0	0	0.00
27	0	0	0	1	0	0	0	0	5.74
28	0	0	0	0	0	0	0	0	0.16
29	0	0	0	0	0	0	0	0	0.00
30	1	0	1	0	0	0	0	0	1.15
31	1	1	0	0	0	0	0	0	5.15
32	0	0	1	1	0	0	0	0	6.49
33	0	0	0	0	0	0	0	0	0.00
34	0	0	0	1	0	0	0	0	2.70
35	1	1	0	1	0	0	0	1	0.00
36	1	0	0	1	0	0	0	0	4.01
37	1	1	0	1	0	0	0	0	7.41
38	1	1	1	1	0	0	0	0	11.33
39	1	1	1	1	1	0	0	0	3.36
40	0	0	0	0	0	0	0	0	0.08
41	0	0	0	0	0	0	0	0	0.09
42	0	0	0	0	0	0	0	0	0.00
43	1	1	1	0	1	0	0	0	1.33
44	0	0	0	0	0	0	0	0	0.00
45	1	0	0	1	0	0	0	0	0.07
46	0	0	0	1	0	0	0	0	0.00
47	1	0	0	1	0	0	0	0	1.92
48	1	1	1	0	1	0	0	1	8.84
49	1	1	0	0	0	0	0	1	0.04
50	0	0	0	0	0	0	0	0	2.45
51	0	0	0	1	0	0	0	0	2.49
52	1	1	0	0	0	0	0	0	2.68
53	0	0	0	1	0	0	0	0	6.34
54	0	0	0	0	0	0	0	0	0.00
55	0	1	0	1	0	0	0	0	12.27
56	0	1	0	0	0	0	0	0	0.96
57	0	0	0	1	0	1	0	0	7.23
58	1	0	0	1	0	0	0	0	2.77
59	0	0	0	1	0	0	0	0	0.22
60	0	0	0	1	0	0	0	0	0.22

1									
2									
3	0	1	0	1	0	0	0	0	4.03
4	1	1	0	0	0	0	0	0	2.12
5	1	1	0	0	0	0	0	0	2.10
6	0	0	0	1	0	0	0	0	0.00
7	1	1	0	1	0	0	0	0	1.53
8	0	0	0	1	0	0	0	0	13.21
9	0	0	0	1	0	0	0	0	0.00
10	0	0	1	0	0	0	0	1	9.97
11	0	0	0	0	0	0	0	0	0.00
12	1	1	0	0	0	0	0	0	3.05
13	0	0	0	0	0	0	0	0	0.00
14	1	1	0	1	0	0	0	1	2.68
15	0	0	0	0	0	0	0	0	0.00
16	1	0	0	1	0	0	0	0	0.00
17	0	1	0	1	0	0	0	0	0.00
18	0	1	0	1	0	0	0	0	0.29
19	1	0	0	0	0	0	0	0	9.55
20	1	1	0	1	0	0	0	0	5.03
21	0	0	0	0	0	0	0	0	0.00
22	1	0	0	1	0	0	0	0	2.88
23	0	0	0	1	0	0	0	0	0.00
24	0	0	0	1	0	0	0	0	1.15
25	0	0	0	0	0	0	0	0	0.00
26	0	0	0	1	0	0	0	0	0.00
27	0	0	0	1	0	0	0	0	0.00
28	1	1	0	1	0	0	0	0	5.37
29	0	0	0	0	0	0	0	0	3.49
30	0	0	0	0	0	0	0	0	0.00
31	0	0	0	0	0	0	0	0	0.00
32	1	0	0	1	0	0	0	0	3.84
33	0	1	0	0	0	0	0	0	4.60
34	1	0	0	0	0	0	0	1	0.38
35	0	0	0	0	0	0	0	0	0.00
36	0	0	0	1	0	0	0	0	0.00
37	0	1	0	1	0	0	0	0	9.34
38	1	0	0	1	0	0	0	0	9.64
39	1	1	0	1	0	0	0	0	7.48
40	0	1	0	1	0	0	0	0	0.00
41	1	0	0	1	0	0	0	0	0.00
42	0	0	0	0	0	0	0	0	0.00
43	0	1	0	0	0	0	0	0	0.00
44	1	1	0	1	0	0	0	0	0.88
45	1	1	0	0	1	0	0	1	9.97
46	1	1	0	1	0	0	0	0	0.00
47	0	0	0	0	0	0	0	0	0.00
48	0	0	1	0	0	0	0	0	0.00
49	1	0	0	1	0	0	0	1	5.33
50	0	1	0	1	0	0	0	0	2.01
51	1	1	0	1	0	0	0	0	0.00
52	0	1	1	0	0	0	0	1	4.86
53	1	0	0	1	0	0	0	0	0.86
54	0	0	0	0	0	0	0	0	0.07
55	0	0	0	1	0	0	0	0	5.34
56	1	0	0	1	0	0	0	0	0.00
57	0	0	0	1	0	0	0	0	4.58
58	0	1	0	1	0	0	0	0	0.00
59	0	1	0	1	0	0	0	0	0.00
60	1	0	0	0	0	0	0	0	2.88

1									
2									
3	1	1	0	0	0	0	0	1	4.51
4	0	0	0	1	0	0	0	0	2.07
5	0	1	0	1	0	0	0	0	0.09
6	1	1	0	1	0	0	0	0	5.51
7	0	1	1	1	0	0	0	0	5.08
8	0	0	0	0	0	0	0	0	0.23
9	1	1	0	1	1	0	0	0	6.85
10	0	0	0	0	0	0	0	1	0.00
11	1	1	1	1	0	0	0	0	5.75
12	0	0	0	1	0	0	0	0	5.15
13	0	0	1	0	0	0	0	0	0.77
14	0	0	0	0	0	0	0	0	3.26
15	1	1	0	1	0	0	0	1	2.22
16	0	0	0	0	0	0	0	0	0.00
17	1	1	0	1	0	0	0	0	0.00
18	0	0	0	1	0	0	0	0	0.00
19	1	1	0	1	0	0	0	0	10.78
20	1	0	0	1	0	0	0	0	0.00
21	1	1	0	1	1	0	0	0	2.79
22	0	0	0	1	0	0	0	0	0.19
23	0	1	0	1	0	0	0	1	0.00
24	0	0	0	0	0	0	0	0	0.63
25	0	1	0	1	0	0	0	0	4.99
26	1	1	1	1	0	0	0	1	3.07
27	0	1	0	0	0	0	0	0	0.86
28	0	0	0	0	0	0	0	1	7.01
29	0	1	1	0	0	0	0	0	0.07
30	1	0	0	0	0	0	0	0	0.14
31	1	0	0	1	0	0	0	0	3.45
32	1	1	0	0	0	0	0	0	8.38
33	1	1	1	0	1	0	0	1	7.01
34	1	1	0	1	0	0	0	0	0.48
35	1	1	0	1	0	0	0	0	6.04
36	1	1	0	1	0	0	0	0	0.00
37	0	0	1	1	0	0	0	0	2.68
38	1	1	0	0	0	0	0	0	0.19
39	1	1	0	1	0	0	0	0	6.90
40	1	0	1	1	0	0	0	0	1.05
41	1	1	0	1	0	0	0	0	2.03
42	0	0	0	0	0	0	0	0	0.00
43	1	1	1	1	0	0	0	0	0.41
44	1	0	0	1	0	0	0	0	5.95
45	0	0	0	0	0	0	0	0	0.22
46	1	1	0	0	0	0	0	0	2.82
47	0	1	0	1	0	0	0	0	0.00
48	0	0	0	1	0	0	0	0	0.00
49	0	0	0	0	0	0	0	0	0.00
50	0	0	0	0	0	0	0	0	0.00
51	1	1	0	0	0	0	0	0	1.34
52	1	0	0	1	0	0	0	0	5.23
53	1	0	0	0	0	0	0	0	1.82
54	0	0	0	1	0	0	0	0	0.00
55	0	1	0	0	0	0	0	1	0.00
56	0	0	0	0	0	0	0	0	0.00
57	0	1	0	0	0	0	0	0	3.07
58	1	1	0	1	0	0	0	1	5.07
59	1	0	1	1	0	0	0	1	4.23
60									

1									
2									
3	1	1	0	0	0	0	0	0	1.73
4	0	0	0	1	0	0	0	0	7.95
5	0	1	0	0	0	0	0	0	0.00
6	1	0	1	0	0	0	0	0	3.07
7	0	0	0	0	0	0	0	0	0.00
8	1	0	0	1	0	0	0	0	3.79
9	0	0	0	0	0	0	0	0	0.00
10	0	1	0	1	1	0	0	0	3.84
11	0	0	0	0	0	0	0	0	0.00
12	0	1	0	0	0	0	0	0	5.52
13	1	0	0	0	0	1	0	0	3.74
14	0	1	0	1	0	0	0	1	0.00
15	1	0	0	1	0	0	0	0	0.16
16	0	0	0	0	0	0	0	0	0.00
17	0	1	0	1	0	0	0	0	5.71
18	1	1	0	0	0	0	0	0	1.48
19	1	0	0	0	0	0	0	0	2.89
20	0	1	0	0	0	0	0	0	4.99
21	0	0	0	0	0	0	0	0	0.00
22	1	0	0	1	0	0	0	0	1.64
23	1	1	0	1	0	0	0	0	4.99
24	0	1	0	1	0	0	0	0	3.59
25	1	1	0	1	0	0	0	0	0.19
26	0	0	0	0	0	0	0	0	0.00
27	0	1	1	1	1	0	0	0	5.51
28	1	1	1	0	0	0	0	0	3.12
29	1	0	0	1	0	0	0	0	3.07
30	1	0	0	1	0	0	0	1	4.70
31	0	1	1	0	0	0	0	0	0.00
32	0	0	0	0	0	0	0	0	0.00
33	0	0	0	0	0	0	0	0	0.00
34	0	0	0	1	0	0	0	0	1.15
35	0	0	0	0	0	0	0	0	0.00
36	0	0	0	0	0	0	0	0	0.00
37	0	1	1	1	0	0	0	0	6.14
38	1	1	0	1	0	0	0	0	4.32
39	0	0	0	1	0	0	0	0	3.86
40	0	0	0	0	0	0	0	0	0.00
41	1	0	0	1	0	0	0	0	0.00
42	1	0	0	0	0	0	0	1	0.00
43	0	0	0	0	0	0	0	0	3.44
44	1	1	1	1	0	0	0	0	8.25
45	1	1	1	0	0	0	0	0	0.00
46	0	0	1	0	0	0	0	0	9.78
47	1	1	0	0	0	0	0	0	0.00
48	1	0	0	0	0	0	0	0	4.16
49	1	0	0	1	0	0	0	0	1.71
50	0	0	0	0	0	0	0	0	0.00
51	1	1	0	1	0	0	0	0	2.74
52	0	0	0	0	0	0	0	0	0.00
53	1	0	1	1	0	0	0	0	3.91
54	1	1	1	0	0	0	0	0	3.90
55	0	0	0	0	0	0	0	0	4.70
56	0	0	0	0	0	0	0	0	0.00
57	0	1	0	1	0	0	0	0	0.00
58	1	0	0	1	0	0	0	0	0.25
59	0	0	0	0	0	0	0	0	0.00
60	0	0	0	0	0	0	0	0	0.00

1									
2									
3	0	0	0	0	0	0	0	0	0.00
4	1	0	1	0	0	0	0	0	4.89
5	0	1	0	1	0	0	0	0	1.75
6	1	0	0	1	0	0	0	1	0.00
7	1	1	0	1	0	0	0	0	3.73
8	1	1	0	1	0	1	0	0	4.27
9	0	0	0	0	0	0	0	0	0.00
10	1	1	1	0	0	0	0	0	6.99
11	0	0	0	0	0	0	0	0	0.00
12	0	1	1	1	0	0	0	0	0.00
13	1	1	0	0	0	0	0	0	0.00
14	1	1	0	1	0	0	0	0	8.56
15	1	0	1	0	0	0	0	0	0.77
16	1	0	0	1	0	0	0	0	4.22
17	1	1	0	1	0	0	0	1	0.00
18	1	1	0	1	0	0	0	0	0.00
19	0	0	0	0	0	0	0	0	0.00
20	0	0	0	0	0	0	0	0	0.00
21	0	0	0	0	0	0	0	0	0.00
22	0	1	0	1	0	0	0	0	1.25
23	1	0	0	0	0	0	0	1	0.33
24	1	1	0	1	0	0	0	1	2.97
25	1	1	1	0	0	0	0	0	1.15
26	1	0	0	0	0	0	0	1	4.66
27	0	0	0	1	0	0	0	0	0.00
28	0	0	0	0	0	0	0	0	0.00
29	1	1	0	0	0	0	0	0	1.34
30	0	0	0	0	0	0	0	0	0.79
31	1	0	0	0	0	0	0	1	2.92
32	0	1	0	0	0	0	0	1	4.99
33	0	0	0	1	0	0	0	0	0.00
34	0	0	0	1	0	0	0	0	0.00
35	1	1	0	0	0	0	0	0	0.75
36	1	0	1	1	0	0	0	1	0.00
37	1	0	0	1	0	0	0	0	0.58
38	1	1	0	0	0	0	0	0	1.26
39	1	0	0	0	0	0	1	0	8.32
40	0	1	0	1	0	0	0	0	12.42
41	0	0	0	1	0	0	0	0	5.79
42	0	0	1	1	0	0	0	0	0.00
43	0	1	0	1	0	0	0	0	8.44
44	0	0	0	0	0	0	0	0	0.00
45	0	0	0	1	0	0	0	0	0.00
46	1	1	0	0	0	0	0	0	0.00
47	1	0	0	1	0	0	0	1	3.93
48	1	1	0	1	0	0	0	0	0.00
49	0	1	0	1	0	0	0	0	1.56
50	0	0	0	0	0	0	0	0	0.00
51	0	0	0	0	0	0	0	0	0.00
52	0	0	0	0	0	0	0	0	0.00
53	0	0	0	0	0	0	0	0	0.00
54	1	1	0	0	0	0	0	0	4.60
55	1	0	0	0	0	0	0	1	0.19
56	1	0	1	0	0	0	0	0	4.22
57	1	0	0	1	0	0	0	0	0.00
58	0	0	0	0	0	0	0	0	0.00
59	0	0	0	1	0	0	0	0	1.73
60	0	0	1	0	0	0	0	1	3.10

1									
2									
3	0	0	0	0	0	0	0	0	0.00
4	0	1	1	0	0	0	0	0	4.11
5	1	1	0	0	0	0	0	0	5.75
6	1	0	0	1	0	0	0	0	3.19
7	0	0	0	1	0	0	0	0	0.00
8	1	0	0	1	0	0	0	0	3.34
9	0	1	0	0	0	0	0	1	7.53
10	0	1	0	1	0	0	0	0	2.11
11	0	1	1	1	0	0	0	0	3.84
12	0	1	0	1	0	0	1	0	3.84
13	1	1	0	1	0	0	0	0	1.92
14	0	0	0	0	0	0	0	0	0.00
15	1	0	0	1	0	0	0	0	3.89
16	1	0	0	1	0	0	0	0	5.37
17	0	0	0	0	0	0	0	0	15.89
18	0	1	0	1	0	0	0	0	3.07
19	1	1	0	0	0	0	0	0	0.07
20	1	1	0	1	0	0	0	0	0.25
21	1	1	0	1	0	0	0	0	7.74
22	0	0	0	0	0	0	0	0	0.00
23	1	0	0	1	0	0	0	0	4.79
24	1	0	1	1	1	0	0	1	10.25
25	1	1	1	1	1	0	0	0	6.95
26	1	1	0	0	0	0	0	0	0.00
27	1	0	0	0	0	0	0	0	13.77
28	1	0	0	1	0	0	0	0	6.21
29	0	0	0	1	0	0	0	0	0.00
30	1	0	0	1	0	0	0	0	0.36
31	1	0	1	0	0	0	0	1	5.78
32	0	1	0	0	0	0	0	0	0.00
33	0	0	0	1	0	0	0	0	1.48
34	1	1	0	0	0	0	0	0	3.26
35	1	0	0	1	0	0	0	0	0.00
36	1	0	0	0	0	0	0	0	1.37
37	0	0	0	1	0	0	0	1	0.00
38	0	1	0	1	0	0	0	1	0.00
39	1	1	1	1	0	0	0	0	4.41
40	0	0	0	0	0	1	0	0	9.86
41	1	1	0	0	0	0	0	1	0.00
42	1	0	0	1	0	0	0	0	0.00
43	1	0	0	1	0	1	0	0	4.60
44	0	1	0	1	0	0	1	0	0.38
45	0	0	0	0	0	0	0	0	0.35
46	1	1	0	0	0	0	0	0	0.00
47	1	0	1	0	0	0	0	0	3.21
48	1	0	0	0	0	0	0	1	4.41
49	1	0	0	1	0	0	0	0	0.00
50	1	0	0	1	0	0	0	0	6.27
51	1	1	0	1	1	0	0	0	6.29
52	1	1	0	0	0	0	0	0	0.00
53	1	1	0	1	0	0	0	0	0.10
54	1	0	0	1	0	0	0	0	1.92
55	0	1	1	1	1	0	0	1	5.01
56	0	0	0	1	0	0	0	0	0.00
57	1	1	0	0	0	0	0	0	4.73
58	1	1	0	0	0	0	0	0	0.00
59	1	1	0	0	0	0	0	0	4.73
60	1	1	0	0	0	0	0	0	0.00

1									
2									
3	1	1	0	1	0	0	0	0	6.98
4	0	0	0	0	0	0	0	0	0.00
5	0	1	1	1	0	0	0	0	3.97
6	1	0	0	0	0	0	0	0	4.99
7	0	0	0	0	0	0	0	0	0.00
8	1	0	0	0	0	0	0	0	1.53
9	0	0	0	0	0	0	0	0	7.64
10	0	0	0	0	0	0	0	0	0.00
11	0	0	0	0	0	0	0	0	0.05
12	1	1	0	1	0	0	0	0	0.00
13	0	0	0	1	0	0	0	0	0.25
14	0	0	0	0	0	0	0	0	0.00
15	1	1	0	1	0	0	0	0	6.14
16	1	1	0	1	0	0	0	0	5.37
17	0	0	0	0	0	0	0	0	0.92
18	1	1	0	1	0	0	0	0	1.68
19	0	0	0	0	0	0	0	0	0.10
20	0	0	0	0	0	0	0	0	0.00
21	0	0	0	1	0	0	0	0	0.00
22	0	0	0	1	0	0	0	0	0.19
23	0	0	0	0	0	0	0	0	0.00
24	0	1	0	0	0	0	0	0	2.88
25	0	0	0	1	0	0	0	0	0.00
26	0	0	0	0	0	0	0	0	0.00
27	0	0	0	0	0	0	0	0	0.00
28	0	0	0	0	0	0	0	0	0.00
29	0	0	0	1	0	0	0	0	1.58
30	0	1	1	1	1	0	0	0	4.60
31	1	0	0	0	0	0	0	1	0.00
32	0	0	0	0	0	0	0	0	0.00
33	0	0	0	0	0	0	0	0	5.09
34	0	1	0	1	0	0	0	0	4.51
35	0	0	0	1	0	0	0	0	1.55
36	1	0	1	0	0	0	0	0	1.49
37	1	0	0	1	0	0	0	0	1.53
38	0	0	0	0	0	0	0	0	4.63
39	0	0	0	0	1	0	0	0	3.26
40	1	1	0	1	0	0	0	0	1.49
41	0	0	0	1	0	0	0	0	0.05
42	0	1	1	0	0	0	0	0	0.55
43	1	1	0	0	0	0	0	0	0.00
44	1	0	1	0	0	0	0	0	4.36
45	1	1	0	1	1	0	0	0	2.64
46	0	0	0	1	0	0	0	0	4.38
47	0	0	0	0	0	0	0	0	0.00
48	1	0	0	1	0	0	0	1	6.90
49	1	0	0	0	0	0	0	0	0.00
50	1	1	0	0	1	1	1	0	17.63
51	0	0	0	1	0	0	0	0	4.79
52	0	0	0	0	0	0	0	0	0.03
53	0	0	0	0	0	0	0	0	0.00
54	0	1	0	0	0	0	0	0	0.00
55	1	0	0	0	0	0	0	0	0.82
56	0	0	0	0	0	0	0	0	0.13
57	0	0	0	1	0	0	0	0	0.12
58	0	1	1	1	0	0	0	1	4.60
59	0	0	0	1	0	0	0	0	0.00
60	0	0	0	1	0	0	0	0	0.00

1										
2										
3	1	1	0	0	0	0	0	0	0	0.38
4	0	0	1	0	0	0	0	0	1	0.00
5	0	1	1	0	0	0	0	0	0	0.00
6	0	0	0	0	0	0	0	0	0	0.00
7	1	0	0	0	0	0	0	0	1	0.00
8	0	1	1	0	0	0	0	0	0	0.00
9	0	0	0	1	0	0	0	0	0	0.00
10	1	1	0	1	0	0	0	0	0	3.71
11	1	0	0	1	0	0	0	0	0	0.00
12	0	0	0	1	0	0	0	0	0	0.12
13	1	0	0	1	0	0	0	0	0	2.44
14	0	0	0	1	0	0	0	0	0	3.84
15	0	1	0	1	0	0	0	0	0	0.78
16	0	1	0	1	0	0	0	0	0	2.36
17	0	1	1	1	0	0	0	1	0	6.85
18	0	0	1	0	0	0	0	0	0	2.97
19	1	1	0	1	0	0	0	0	0	5.18
20	0	0	0	0	0	0	0	0	0	0.00
21	0	0	0	0	0	0	0	0	0	0.00
22	0	0	0	0	0	0	0	0	0	0.00
23	0	0	0	0	0	0	0	0	0	0.00
24	0	0	0	0	0	0	0	0	0	0.00
25	1	0	0	1	0	0	0	0	0	9.97
26	1	0	0	1	0	0	0	0	0	0.00
27	0	0	0	0	0	0	0	0	0	0.00
28	0	1	0	1	0	0	0	0	1	3.86
29	0	0	0	0	0	0	0	0	0	0.00
30	0	0	0	0	0	0	0	0	0	0.84
31	1	1	1	1	0	0	0	0	1	11.27
32	1	0	0	1	0	0	0	0	0	0.93
33	0	0	0	0	0	0	0	0	0	0.27
34	0	0	1	1	0	0	0	0	0	0.00
35	1	0	0	1	0	0	0	0	1	4.22
36	1	0	0	1	0	0	0	0	0	4.99
37	0	0	0	0	0	0	0	0	0	0.00
38	1	0	0	1	0	0	0	0	0	4.99
39	1	1	0	1	0	0	0	0	0	0.38
40	1	0	0	0	0	0	0	0	1	6.44
41	1	1	1	0	0	0	0	0	1	7.30
42	1	0	0	0	0	0	0	0	0	0.00
43	1	0	0	1	0	0	0	0	0	1.53
44	1	1	0	1	0	0	0	0	0	0.00
45	0	0	0	0	0	0	0	0	0	0.00
46	0	1	0	0	0	0	0	0	0	0.00
47	1	1	0	1	0	0	0	0	1	0.14
48	0	1	0	1	0	0	0	0	0	2.30
49	1	0	0	0	0	0	0	0	0	4.66
50	0	0	0	0	0	0	0	0	0	0.00
51	1	1	0	0	0	0	0	0	0	1.66
52	0	1	0	0	0	0	0	0	0	0.00
53	0	0	0	0	0	0	0	0	0	0.00
54	0	0	0	0	0	0	0	0	0	0.00
55	1	0	0	1	0	0	0	0	0	1.89
56	0	0	0	0	0	0	0	0	0	0.00
57	0	0	0	0	0	0	0	0	0	0.26
58	1	1	1	1	0	0	0	0	0	4.44
59	0	0	0	1	0	0	0	0	0	3.26
60	0	0	1	0	1	1	0	0	0	10.10

1									
2									
3	0	0	0	0	0	0	0	0	0.00
4	0	0	0	0	0	0	0	0	0.00
5	1	1	0	1	0	0	0	0	4.36
6	1	1	0	1	0	0	0	0	2.68
7	1	0	0	1	0	0	0	0	3.64
8	1	1	0	0	0	0	0	0	0.00
9	1	1	0	0	0	0	0	0	3.03
10	0	1	0	0	0	1	0	0	4.99
11	1	1	0	0	0	0	0	0	1.21
12	0	0	0	0	0	0	0	0	0.00
13	0	0	0	1	0	0	1	0	6.94
14	1	0	0	1	0	0	0	1	2.40
15	1	1	0	1	0	0	0	0	1.15
16	0	1	0	1	0	0	0	0	0.00
17	1	1	0	1	0	0	0	0	1.53
18	1	1	0	0	0	1	0	0	7.53
19	1	0	0	0	0	0	0	1	2.30
20	1	1	1	0	0	0	0	0	0.00
21	0	1	0	0	0	0	0	0	0.38
22	0	1	0	1	1	0	0	0	3.11
23	0	0	0	1	0	0	0	0	5.51
24	0	1	0	0	0	0	0	0	0.10
25	1	0	0	1	0	0	0	1	4.99
26	0	0	0	1	0	0	0	0	0.00
27	1	1	0	1	0	0	0	0	0.06
28	1	1	0	0	0	0	0	0	4.22
29	1	1	0	0	0	0	0	0	4.36
30	1	0	0	1	0	0	0	1	0.05
31	0	0	0	1	0	0	0	0	1.04
32	0	1	0	1	0	0	0	0	0.00
33	0	0	0	1	0	0	0	0	1.15
34	1	0	0	1	1	0	0	0	6.38
35	1	1	0	1	0	0	0	0	2.23
36	1	0	0	1	0	0	0	0	0.77
37	0	0	0	1	0	0	0	0	6.14
38	0	1	0	1	0	0	0	0	0.55
39	0	0	0	0	0	0	0	0	0.00
40	0	1	0	0	0	0	0	0	1.18
41	0	0	0	0	0	0	0	0	0.00
42	0	1	1	0	0	0	0	0	3.48
43	0	0	0	0	0	0	0	0	0.26
44	1	0	0	1	0	0	0	0	4.60
45	0	0	0	1	0	0	0	1	5.25
46	0	0	0	0	0	0	0	0	1.20
47	1	1	0	1	0	0	0	0	0.41
48	1	1	0	0	0	0	0	0	6.14
49	1	0	0	1	0	0	0	0	4.60
50	1	0	1	1	0	0	0	0	1.32
51	1	0	0	0	0	0	0	0	5.33
52	0	0	0	0	0	0	0	0	0.00
53	1	0	0	1	0	0	0	0	2.42
54	0	0	1	1	0	0	0	1	1.53
55	1	1	0	0	0	0	0	0	6.33
56	0	0	1	1	0	0	0	0	3.07
57	1	1	0	0	0	0	0	0	0.77
58	0	1	1	1	0	0	0	0	2.30
59	1	1	0	0	0	0	0	0	0.00
60	0	1	1	1	0	0	0	0	0.00

1									
2									
3	1	0	0	0	0	0	0	1	7.88
4	0	0	0	0	0	0	0	0	0.00
5	0	0	0	1	0	0	0	0	0.00
6	0	0	0	1	0	0	0	0	2.11
7	0	0	0	0	0	0	0	0	0.00
8	0	0	0	0	0	0	0	0	0.02
9	1	0	0	1	0	0	0	1	4.22
10	1	0	0	0	0	0	0	0	0.00
11	0	0	0	1	0	0	0	0	5.62
12	1	1	0	1	0	0	0	1	11.25
13	0	0	0	0	0	0	0	0	0.40
14	0	1	0	1	0	0	0	0	2.41
15	1	1	0	1	0	0	0	1	6.96
16	1	1	0	0	0	0	0	0	1.92
17	0	0	0	1	0	0	0	0	3.36
18	1	0	0	1	0	0	0	0	5.08
19	1	0	0	1	0	0	0	0	9.01
20	1	0	0	0	0	0	0	0	0.00
21	1	1	0	1	0	0	0	1	3.79
22	0	0	0	0	0	0	0	0	0.45
23	1	0	0	1	0	0	0	0	3.16
24	0	0	0	0	0	0	0	0	0.00
25	0	0	0	0	0	0	0	0	0.11
26	0	1	0	0	0	0	0	0	0.29
27	0	1	0	1	1	0	0	0	12.77
28	0	0	0	0	0	0	0	0	0.00
29	1	0	0	1	0	0	0	0	1.37
30	1	0	0	0	0	0	0	1	0.00
31	0	1	1	0	0	1	0	1	18.40
32	0	1	0	1	0	0	0	0	0.00
33	1	0	0	0	0	0	0	0	3.07
34	1	0	0	1	0	0	0	0	2.88
35	1	1	0	1	0	0	0	0	10.38
36	0	0	1	1	0	0	0	0	1.18
37	0	0	0	1	0	0	0	0	4.60
38	0	0	0	0	0	0	0	0	0.00
39	0	1	1	0	0	0	0	0	0.04
40	1	0	0	0	0	1	0	0	3.07
41	0	1	0	0	0	1	0	0	7.62
42	0	1	0	0	0	0	0	0	0.00
43	1	0	0	1	0	0	0	0	3.07
44	0	0	0	0	0	0	0	0	0.00
45	0	1	0	1	0	0	0	0	0.00
46	0	0	0	0	0	0	0	0	0.00
47	0	0	0	0	0	0	0	0	0.00
48	1	1	1	0	0	0	0	0	0.38
49	0	1	0	1	0	0	0	0	1.53
50	1	1	1	0	0	0	0	0	2.96
51	0	1	0	0	0	0	0	0	0.00
52	1	0	0	1	0	0	0	0	8.52
53	1	1	0	1	0	0	0	0	1.92
54	1	1	0	1	0	0	0	0	6.68
55	1	0	0	0	0	0	0	0	2.42
56	1	1	0	0	0	0	0	1	8.48
57	1	1	0	1	0	0	0	1	4.48
58	0	1	1	0	0	0	0	0	3.07
59	1	0	0	0	0	0	0	0	1.97

1									
2									
3	1	0	0	0	0	0	0	0	0.00
4	1	1	0	1	0	0	0	0	0.12
5	0	0	0	1	0	0	0	0	0.00
6	0	0	1	0	0	0	0	0	11.03
7	1	1	0	1	0	0	0	0	5.66
8	0	0	0	0	0	0	0	0	0.00
9	1	0	0	1	0	0	0	0	0.00
10	1	1	1	0	0	0	0	0	2.52
11	1	0	0	1	0	1	0	1	1.17
12	0	0	0	0	0	0	0	0	0.00
13	0	0	0	1	0	0	0	0	0.00
14	0	0	0	0	0	0	0	0	0.00
15	0	0	0	1	0	0	0	0	0.00
16	0	0	0	0	0	0	0	0	0.05
17	1	1	0	1	0	0	0	0	4.66
18	1	1	0	0	0	0	0	0	6.90
19	1	0	0	1	0	0	0	0	0.00
20	0	0	1	1	0	0	0	0	5.48
21	1	0	0	1	0	0	0	0	0.00
22	0	0	0	1	0	0	0	0	1.92
23	0	1	0	1	0	0	0	0	1.92
24	0	0	0	0	0	0	0	0	0.00
25	0	1	0	1	0	0	0	0	2.30
26	0	0	0	1	0	0	0	0	1.15
27	1	0	0	0	0	0	0	0	2.68
28	0	0	0	0	0	0	0	0	0.77
29	0	0	0	0	0	0	0	0	0.00
30	0	0	0	0	0	0	0	0	0.00
31	0	0	0	0	0	0	0	0	0.00
32	1	1	0	1	0	0	0	0	8.63
33	0	0	0	0	0	0	0	0	0.07
34	1	1	0	0	0	0	0	1	2.21
35	1	0	0	0	0	0	0	0	4.85
36	0	1	0	1	0	0	0	0	1.82
37	0	1	0	1	0	0	0	0	3.64
38	0	0	0	0	0	0	0	0	0.00
39	1	1	0	1	0	0	0	1	8.15
40	0	0	1	1	1	0	0	0	0.00
41	1	1	0	1	0	0	0	0	6.26
42	1	1	0	1	0	1	0	0	4.99
43	1	1	0	0	0	0	0	0	1.53
44	1	0	0	1	0	0	0	1	0.00
45	1	0	0	1	0	0	0	0	3.72
46	1	1	0	0	0	0	0	0	2.30
47	0	0	0	1	0	0	0	0	6.90
48	1	1	0	0	0	0	0	0	3.26
49	1	1	0	0	0	0	0	0	4.51
50	1	1	0	1	0	0	0	0	0.34
51	0	1	0	0	0	0	0	0	0.25
52	0	0	0	0	0	0	0	0	4.95
53	1	1	0	1	0	0	0	0	4.03
54	1	1	0	0	0	0	0	0	1.53
55	0	0	0	0	0	0	0	0	0.00
56	0	0	0	0	0	0	0	0	0.00
57	0	0	0	0	0	0	0	0	0.71
58	0	0	0	1	0	0	0	0	3.95
59	0	0	0	0	0	1	0	0	4.02
60	1	0	0	0	0	0	0	0	

1									
2									
3	0	1	0	0	0	0	0	0	0.86
4	1	0	0	1	0	0	0	1	0.00
5	0	1	1	0	0	0	0	0	0.00
6	1	1	0	1	0	0	0	0	5.41
7	0	0	0	0	0	0	0	0	0.36
8	0	1	0	0	0	0	0	0	0.00
9	0	0	0	1	0	0	0	0	0.00
10	0	1	1	1	0	0	0	0	2.88
11	0	0	0	0	0	0	0	0	0.00
12	1	1	1	1	0	0	0	0	2.49
13	1	1	0	1	0	0	0	0	2.22
14	0	1	0	0	0	0	0	0	0.00
15	0	0	0	0	0	0	0	0	0.00
16	0	0	0	0	0	0	0	0	0.00
17	0	0	0	0	0	0	0	0	0.42
18	0	1	0	1	0	0	0	0	1.64
19	1	1	0	0	0	0	0	0	3.07
20	0	0	0	0	0	0	0	0	0.00
21	0	0	0	1	0	0	0	0	1.29
22	1	1	0	1	0	0	0	1	9.71
23	1	0	0	1	0	0	0	0	5.92
24	0	0	0	0	0	0	0	0	0.00
25	1	0	0	1	0	0	0	0	1.85
26	1	0	1	1	0	0	0	0	13.74
27	0	0	0	0	0	0	0	0	0.00
28	1	1	1	1	1	0	0	0	7.41
29	0	1	0	0	0	0	0	0	0.00
30	0	0	0	0	0	0	0	0	0.05
31	0	0	0	1	0	0	0	0	1.15
32	1	1	0	0	0	0	0	0	0.38
33	1	1	0	1	1	0	0	0	8.60
34	0	0	0	0	0	0	0	0	0.00
35	0	0	0	1	0	0	0	0	4.99
36	0	1	0	1	0	0	0	0	0.37
37	1	1	0	0	0	0	0	0	0.00
38	0	0	0	1	0	0	0	0	1.96
39	1	0	1	0	0	1	0	0	3.45
40	1	0	0	1	0	0	0	0	3.23
41	1	0	0	1	0	0	0	0	0.00
42	1	1	0	0	0	0	0	0	1.53
43	1	0	0	1	0	0	0	0	4.60
44	1	0	0	1	0	0	0	0	4.70
45	1	0	0	0	0	0	0	0	2.68
46	0	0	0	1	0	1	0	0	0.00
47	0	1	0	1	0	0	0	0	8.44
48	1	1	0	0	0	0	0	0	2.30
49	0	1	0	1	0	0	0	0	2.99
50	0	0	0	1	0	0	0	0	2.68
51	0	0	0	1	0	0	0	0	5.92
52	0	0	0	0	0	0	0	0	0.00
53	0	1	0	1	0	0	0	0	2.47
54	1	0	0	1	0	1	0	1	6.14
55	1	0	1	1	0	0	0	0	1.53
56	0	0	0	1	0	0	0	0	3.84
57	1	1	0	1	0	0	0	0	3.84
58	1	1	0	0	0	0	0	0	6.23
59	1	1	0	0	0	0	0	0	6.23
60	1	1	0	0	0	0	0	0	6.23

1									
2									
3	1	0	0	1	0	0	0	0	0.00
4	1	0	0	0	0	0	0	0	1.42
5	0	1	0	1	0	0	0	0	0.77
6	0	0	1	1	0	0	0	1	8.63
7	1	0	0	1	0	0	0	0	3.67
8	0	0	0	0	0	0	0	0	0.00
9	0	1	0	0	1	0	0	1	10.34
10	0	0	0	0	0	0	0	0	0.00
11	1	0	0	1	0	0	0	0	0.00
12	1	1	0	1	0	0	0	1	2.27
13	1	0	0	1	0	0	0	0	0.00
14	1	1	0	1	0	0	0	1	4.34
15	0	1	0	1	0	0	0	0	0.00
16	0	0	0	1	0	0	0	0	5.04
17	1	1	0	1	0	0	0	0	0.64
18	0	0	0	1	0	0	0	0	3.07
19	0	0	0	0	0	0	0	0	0.00
20	0	0	0	0	0	0	0	0	0.95
21	0	0	0	0	0	0	0	0	0.00
22	0	0	0	0	0	0	0	0	0.00
23	1	1	1	1	0	0	0	0	4.99
24	0	1	0	1	0	0	0	0	0.00
25	0	0	0	0	0	0	0	0	0.66
26	1	0	0	1	0	0	0	1	3.84
27	0	0	0	0	0	0	0	0	0.16
28	0	0	0	0	0	0	0	0	0.00
29	0	1	0	1	0	0	0	0	1.79
30	1	0	0	1	0	0	0	0	6.93
31	0	0	0	0	0	0	0	0	1.23
32	1	1	0	1	0	0	0	0	0.00
33	1	0	0	0	0	0	0	1	1.53
34	1	0	0	1	0	0	0	0	0.38
35	0	0	0	1	0	0	0	0	3.84
36	0	1	0	1	0	0	0	0	2.81
37	0	0	0	0	0	0	0	0	0.12
38	0	0	1	1	0	0	0	0	0.32
39	1	1	0	1	0	0	0	1	7.67
40	1	0	0	1	0	0	0	1	0.00
41	1	1	0	1	1	0	0	0	0.12
42	1	0	1	1	0	0	0	0	4.66
43	0	0	0	0	0	0	0	0	0.00
44	0	0	0	0	0	0	0	0	0.52
45	1	0	0	1	0	0	0	0	3.45
46	1	1	0	1	0	0	0	0	1.70
47	0	0	0	0	0	0	0	0	0.00
48	0	0	0	0	0	0	0	0	5.10
49	0	0	0	1	0	0	0	0	0.00
50	0	1	0	1	0	0	0	0	0.07
51	0	1	0	1	0	0	0	0	0.00
52	0	0	0	1	0	0	0	0	0.19
53	0	1	0	0	0	0	0	0	0.06
54	0	0	0	1	0	0	0	0	0.29
55	0	0	0	0	0	0	0	0	0.00
56	0	0	0	0	0	0	0	0	0.00
57	1	1	1	1	1	0	0	1	7.16
58	0	1	1	0	0	0	0	0	0.96
59	1	0	0	1	0	0	0	1	8.95
60	1	0	1	1	0	0	0	0	0.00

1									
2									
3	1	1	1	0	1	0	0	1	2.30
4	0	0	0	1	0	0	0	0	0.00
5	0	0	0	0	0	0	0	0	0.00
6	0	0	1	1	0	0	0	0	4.28
7	1	0	0	1	0	0	0	0	1.53
8	1	0	0	1	1	0	0	0	4.99
9	0	0	0	1	0	0	0	0	6.99
10	0	0	0	1	0	0	0	0	2.07
11	0	0	1	0	0	0	0	1	7.56
12	1	0	0	1	0	0	0	0	1.44
13	1	1	0	1	0	0	0	0	1.73
14	0	1	1	1	1	0	0	1	2.97
15	0	1	0	1	0	1	0	0	7.48
16	1	0	0	1	0	0	0	1	0.00
17	1	1	0	0	0	0	0	0	1.37
18	0	0	0	0	0	0	0	0	3.15
19	0	0	0	0	0	0	0	0	1.53
20	1	1	0	1	0	0	0	0	2.58
21	0	0	0	0	0	0	0	0	0.00
22	1	1	0	1	0	0	0	0	9.01
23	1	0	0	1	0	0	0	1	0.00
24	1	0	0	0	0	0	0	0	2.59
25	0	0	0	0	0	0	0	0	0.00
26	0	0	0	0	0	0	0	0	0.00
27	0	0	0	0	0	0	0	0	0.00
28	0	0	0	1	0	0	0	0	4.40
29	0	1	0	0	0	0	0	0	2.59
30	0	0	0	0	0	0	0	0	0.71
31	0	1	0	1	0	0	0	0	5.23
32	1	1	0	1	0	0	0	0	6.44
33	0	0	1	1	0	0	0	0	10.26
34	0	1	0	1	0	0	0	0	3.14
35	0	0	0	0	0	0	0	0	0.00
36	0	0	0	1	0	0	0	0	4.22
37	1	1	0	0	0	0	0	0	1.73
38	0	0	0	0	0	0	0	0	0.00
39	1	1	0	1	0	0	0	0	1.25
40	1	0	0	1	0	0	0	1	2.68
41	0	1	1	0	0	0	0	0	8.64
42	1	1	1	1	0	0	0	0	4.90
43	1	1	1	1	0	0	0	0	8.66
44	0	0	1	0	0	0	0	1	0.72
45	1	1	0	0	0	0	0	1	4.60
46	0	0	0	0	0	0	0	0	0.00
47	0	0	0	1	0	0	0	0	4.60
48	0	0	0	1	0	0	0	0	0.00
49	1	1	1	0	0	0	0	1	0.27
50	0	0	0	1	0	0	0	0	0.62
51	0	1	0	1	0	0	0	0	0.77
52	0	0	0	0	0	0	0	0	0.00
53	1	1	0	1	0	0	0	0	1.25
54	0	1	0	0	0	0	0	0	0.00
55	1	0	0	1	0	0	0	0	3.60
56	1	1	0	1	0	0	0	0	6.00
57	1	1	0	0	0	0	0	0	3.07
58	0	1	0	1	0	1	0	0	5.08
59	0	0	1	0	0	0	0	0	3.56
60									

1										
2										
3	0	1	0	0	0	0	0	0	0	3.64
4	0	0	0	0	0	0	0	0	0	0.00
5	0	1	1	0	1	0	0	0	1	5.25
6	1	1	1	0	0	0	0	0	0	0.14
7	1	1	0	0	0	0	0	0	0	7.04
8	1	0	0	0	0	0	0	0	0	2.11
9	0	0	0	0	0	0	0	0	0	0.48
10	1	0	0	1	0	0	0	0	0	2.30
11	1	0	0	1	0	0	0	0	0	7.44
12	0	1	0	1	0	0	0	0	0	7.67
13	1	0	0	0	0	0	0	0	1	4.60
14	1	1	0	1	0	0	0	0	0	6.15
15	0	0	0	0	0	0	0	0	0	0.00
16	1	0	0	1	0	0	0	0	0	8.05
17	1	0	0	1	0	0	0	0	0	0.38
18	0	0	0	0	0	0	0	0	0	0.00
19	0	0	0	1	0	0	0	0	0	0.00
20	1	0	0	0	0	0	0	0	0	3.73
21	0	1	0	0	0	0	0	0	0	11.89
22	0	0	1	1	0	0	0	0	0	0.68
23	1	1	0	1	0	0	0	0	1	10.07
24	1	1	0	1	0	0	0	0	0	0.99
25	1	1	0	1	0	0	0	0	0	4.55
26	1	0	1	0	1	0	0	0	1	7.10
27	0	0	0	0	0	0	0	0	0	0.11
28	0	1	0	0	0	0	0	0	0	0.00
29	1	0	1	1	0	0	0	0	0	5.63
30	1	1	0	0	0	0	0	0	0	2.33
31	1	1	0	0	0	0	0	0	0	5.55
32	0	0	0	0	0	0	0	0	0	0.00
33	0	0	0	0	0	0	0	0	0	2.78
34	0	0	0	0	0	0	0	0	0	0.00
35	0	0	0	0	0	0	0	0	0	0.00
36	1	0	0	1	0	0	0	0	0	1.67
37	1	0	0	0	0	0	0	0	0	1.15
38	0	0	0	0	1	0	0	0	0	0.00
39	1	1	0	1	0	0	0	0	0	2.30
40	0	0	0	1	0	0	0	0	0	6.25
41	0	0	0	0	0	0	0	0	0	0.00
42	0	1	0	1	0	0	0	0	0	3.49
43	1	0	0	1	0	0	0	0	0	1.25
44	0	0	1	1	0	0	0	0	0	28.96
45	1	1	0	0	0	0	0	0	0	3.36
46	1	0	0	1	0	0	0	0	0	0.00
47	0	0	0	0	0	0	0	0	0	0.00
48	1	1	1	1	0	0	0	0	1	13.36
49	0	0	0	1	0	0	0	0	0	0.31
50	1	1	0	0	0	0	0	0	0	4.56
51	0	0	0	1	0	0	0	0	0	0.42
52	1	0	0	1	0	0	0	0	0	0.86
53	1	0	0	0	0	0	0	0	0	1.78
54	1	0	1	1	0	0	0	0	1	4.60
55	0	0	0	1	0	0	0	0	0	0.00
56	1	0	1	0	0	0	0	0	0	0.00
57	1	0	0	0	1	0	0	0	0	18.93
58	0	0	0	0	0	0	0	0	0	0.70
59	0	0	0	0	0	0	0	0	0	0.70
60	1	1	0	1	0	0	0	0	1	5.25

1									
2									
3	1	1	0	0	0	0	0	0	4.44
4	1	0	0	1	0	0	0	0	0.38
5	1	0	0	0	0	0	0	1	0.00
6	0	0	1	1	1	0	0	0	0.36
7	1	0	0	1	0	0	0	0	1.44
8	0	0	0	0	0	0	0	0	0.00
9	1	0	1	1	0	0	0	0	1.53
10	0	0	0	0	0	0	0	0	0.12
11	0	0	0	0	0	0	0	0	0.00
12	0	1	0	1	0	0	0	0	4.93
13	0	1	0	0	0	0	0	0	3.07
14	0	0	0	0	0	0	0	0	0.25
15	0	0	0	0	0	0	0	0	0.00
16	1	0	0	1	0	0	0	0	3.04
17	1	1	0	1	0	0	0	0	3.70
18	0	0	0	0	0	0	0	0	7.67
19	1	1	0	1	0	0	0	0	4.93
20	0	1	0	0	0	0	0	0	2.33
21	0	0	0	0	0	0	0	0	0.00
22	1	1	0	1	0	0	0	0	4.60
23	1	1	0	1	0	0	0	0	6.00
24	0	0	0	0	0	0	0	0	0.19
25	0	1	0	1	0	0	0	0	0.00
26	1	1	0	1	0	0	0	0	2.68
27	1	0	0	1	0	0	0	1	0.12
28	0	1	0	1	0	0	0	0	4.60
29	0	0	0	1	0	0	0	0	1.23
30	0	0	0	0	0	0	0	0	0.00
31	1	0	0	1	0	0	0	0	2.68
32	0	1	1	1	1	0	0	0	13.66
33	1	0	0	1	0	0	0	0	1.25
34	0	0	0	0	0	0	0	0	0.00
35	0	0	0	0	0	0	0	0	0.00
36	0	1	1	1	0	1	0	0	4.60
37	0	0	0	1	0	0	0	0	3.67
38	0	1	0	0	0	0	0	0	0.00
39	0	0	0	1	0	0	0	0	0.00
40	1	0	1	1	0	0	0	0	4.60
41	0	0	0	0	0	0	0	0	18.05
42	0	0	0	0	0	0	0	0	0.00
43	0	1	1	1	1	0	0	1	1.89
44	1	0	1	1	0	0	0	1	2.78
45	1	1	0	0	0	0	0	1	4.62
46	0	0	0	1	0	0	0	0	5.08
47	1	1	0	0	0	0	0	0	0.77
48	1	0	0	0	0	0	0	0	0.05
49	1	0	0	0	0	0	0	0	0.08
50	0	0	0	0	0	0	0	0	0.00
51	0	0	0	0	0	0	0	0	1.73
52	0	0	1	0	0	0	0	0	0.00
53	1	0	0	1	0	0	0	0	1.51
54	0	1	0	1	0	0	0	0	6.19
55	0	0	0	0	0	0	0	0	0.00
56	0	0	0	0	0	0	0	0	0.58
57	0	0	0	1	0	0	0	0	0.88
58	0	0	0	0	0	0	0	0	0.00
59	0	0	0	1	0	0	0	0	0.88
60	1	1	0	1	0	0	0	0	3.55

1									
2									
3	1	1	0	1	0	0	0	0	0.06
4	1	1	0	1	0	0	0	0	4.41
5	1	1	0	1	0	0	0	0	1.56
6	1	1	0	1	0	0	0	0	0.00
7	0	0	0	0	0	0	0	0	0.00
8	0	0	0	0	0	0	0	0	0.00
9	0	0	0	1	0	0	0	0	0.66
10	1	1	0	1	0	1	0	0	2.25
11	0	1	0	1	0	0	0	0	0.00
12	0	0	0	0	0	0	0	0	0.00
13	0	0	0	1	0	0	0	0	0.33
14	0	1	0	0	0	0	0	0	1.53
15	0	0	0	0	0	0	0	0	0.00
16	0	1	0	0	0	0	0	0	0.00
17	0	1	0	0	0	0	0	0	0.33
18	0	1	0	1	0	0	0	0	6.59
19	1	1	0	0	0	0	0	1	4.82
20	1	0	0	1	0	0	0	0	0.71
21	1	0	0	1	0	0	0	1	0.00
22	1	0	0	1	0	0	0	0	0.00
23	1	1	0	1	0	0	0	0	5.07
24	1	1	0	1	1	1	0	0	14.10
25	0	1	0	0	0	0	0	0	0.52
26	1	1	0	1	0	0	0	0	2.19
27	1	1	0	1	0	0	0	0	6.71
28	0	1	0	1	0	0	0	0	1.53
29	0	0	0	1	0	0	0	0	0.00
30	0	1	1	0	0	0	0	0	0.05
31	0	0	1	1	0	0	0	1	0.00
32	1	1	0	1	0	0	0	1	6.99
33	0	1	0	1	0	0	0	0	0.00
34	0	0	0	0	0	0	0	0	3.84
35	0	0	0	0	0	0	0	0	0.00
36	0	0	0	0	0	0	0	0	0.00
37	0	0	0	0	0	0	0	0	0.00
38	0	1	0	1	0	0	0	0	0.08
39	1	1	0	1	0	0	0	0	3.26
40	0	0	0	1	0	0	0	0	5.82
41	1	1	0	1	0	0	0	0	6.14
42	0	0	0	0	0	0	0	0	0.14
43	1	0	0	0	0	0	0	1	7.40
44	1	1	1	0	0	0	0	0	2.74
45	1	0	0	0	0	0	0	1	4.99
46	1	1	0	1	0	0	0	0	1.73
47	0	1	0	1	1	0	0	0	4.60
48	1	1	0	0	0	0	0	0	10.18
49	1	1	0	0	0	0	0	0	1.37
50	0	0	0	0	0	0	0	0	0.00
51	1	0	0	0	0	0	0	1	7.67
52	0	0	0	0	0	0	0	0	0.00
53	1	0	0	0	0	0	0	0	0.00
54	0	0	0	0	0	0	0	0	0.00
55	0	0	0	1	0	0	0	0	0.77
56	0	1	0	1	0	0	0	0	0.00
57	1	0	0	1	0	0	0	0	2.90
58	0	0	0	0	0	0	0	0	0.00
59	0	0	0	1	0	0	0	0	0.06
60	0	0	0	1	0	0	0	0	0.06

1									
2									
3	0	0	0	1	0	0	0	0	0.00
4	0	0	0	0	0	0	0	0	0.00
5	1	0	0	0	0	0	0	1	0.00
6	1	0	0	0	0	0	0	0	2.19
7	0	0	0	1	0	0	0	0	1.15
8	0	0	0	1	0	0	0	0	0.00
9	0	0	0	0	0	0	0	0	0.00
10	0	0	0	1	0	1	0	0	1.62
11	0	0	0	1	0	1	0	0	6.14
12	0	0	0	1	0	1	0	0	5.25
13	0	0	0	1	0	0	0	0	0.25
14	0	0	1	0	0	0	0	0	1.57
15	1	0	0	1	1	0	1	0	25.41
16	0	0	0	1	0	1	1	0	3.26
17	0	0	0	0	0	0	0	0	4.08
18	0	0	0	0	0	1	0	0	0.52
19	0	1	0	0	1	0	0	0	2.93
20	0	0	0	0	0	0	0	0	0.00
21	0	0	0	0	0	0	0	0	0.00
22	0	0	0	0	0	0	0	0	0.00
23	0	0	0	0	1	0	0	0	0.67
24	0	0	0	0	0	0	0	0	0.00
25	0	0	0	0	0	0	0	0	0.00
26	0	0	0	0	0	0	0	0	8.99
27	0	0	0	0	0	0	0	0	0.00
28	0	0	0	0	0	1	0	0	17.41
29	1	0	0	1	0	0	0	0	4.66
30	0	0	0	1	0	0	0	0	2.30
31	0	0	0	1	1	0	0	0	0.41
32	0	0	0	0	0	0	0	0	0.74
33	1	1	0	0	0	0	0	0	0.77
34	0	0	0	1	0	0	0	0	0.00
35	0	0	0	1	0	0	0	0	3.07
36	0	0	0	0	0	0	0	0	2.38
37	0	0	0	1	0	0	0	0	0.00
38	1	0	0	0	0	1	0	0	7.33
39	1	0	0	0	0	0	0	0	0.00
40	0	0	0	0	0	0	0	0	5.56
41	0	0	0	0	0	0	0	0	0.00
42	0	0	0	0	0	0	0	0	2.05
43	0	0	0	0	0	0	0	0	0.00
44	0	0	0	0	0	0	0	0	0.00
45	0	0	0	1	0	0	0	0	2.49
46	0	0	0	1	0	0	0	0	5.37
47	0	0	0	0	0	0	0	0	2.30
48	0	0	0	0	0	0	0	0	0.00
49	0	0	0	1	0	0	0	0	0.00
50	0	0	0	0	0	0	0	0	0.00
51	0	0	0	1	0	0	0	0	5.40
52	0	0	0	0	0	0	0	0	1.10
53	1	0	0	1	0	0	0	0	2.40
54	0	1	0	1	0	0	0	1	1.53
55	0	0	0	0	0	0	0	0	1.48
56	0	0	0	0	0	0	0	0	0.00
57	0	0	0	1	0	0	0	0	3.45
58	0	0	0	0	0	0	0	0	1.10
59	0	0	0	1	0	0	0	0	0.00
60	0	0	0	1	0	0	0	0	0.00

1									
2									
3	0	0	0	0	0	0	1	0	2.82
4	0	0	0	1	0	0	0	0	0.00
5	0	0	0	0	0	0	0	0	0.00
6	0	0	0	0	0	0	1	0	0.00
7	0	0	0	0	0	0	0	0	0.07
8	0	0	0	1	0	0	0	0	0.00
9	0	0	0	1	0	0	0	0	4.99
10	0	0	0	1	0	0	0	0	0.00
11	1	0	0	0	0	0	0	0	20.07
12	0	0	0	0	0	0	0	0	2.21
13	0	0	0	0	0	0	0	0	2.11
14	0	0	0	0	0	0	0	0	0.00
15	1	0	0	1	0	0	0	0	3.63
16	0	0	0	0	0	0	0	0	0.00
17	0	0	0	0	0	0	0	0	0.00
18	0	0	0	1	0	0	0	0	2.84
19	0	0	0	1	0	0	0	0	0.00
20	0	0	0	0	0	0	0	0	3.53
21	0	0	0	0	0	0	0	0	10.84
22	0	0	0	0	0	0	0	0	2.30
23	0	0	0	0	0	0	0	0	0.14
24	0	0	0	0	0	0	0	0	3.04
25	1	0	0	0	0	0	0	0	0.00
26	0	0	0	0	0	0	0	0	0.00
27	0	0	0	0	0	0	0	0	0.00
28	0	0	0	1	0	1	0	0	2.30
29	0	0	0	0	0	0	0	0	0.00
30	0	0	0	0	0	0	1	0	4.12
31	0	0	0	1	0	0	0	0	0.82
32	0	0	0	1	0	0	0	0	0.90
33	0	1	0	0	0	0	0	0	0.00
34	0	0	0	1	0	0	0	0	0.00
35	0	0	0	1	0	0	0	0	3.82
36	0	0	0	0	0	0	0	0	3.75
37	0	0	0	0	0	0	0	0	0.78
38	0	0	0	0	0	0	0	0	6.14
39	0	0	0	0	0	0	0	0	1.19
40	0	0	0	0	0	1	0	0	11.32
41	0	0	0	0	0	0	0	0	0.00
42	0	0	0	0	0	0	0	0	0.58
43	0	0	0	0	0	0	0	0	0.00
44	0	0	0	0	0	1	0	0	8.82
45	0	0	0	0	0	0	0	0	0.03
46	0	0	0	0	0	0	0	0	1.73
47	0	0	0	0	0	0	0	0	0.00
48	0	0	0	1	0	0	0	0	2.34
49	0	0	0	0	0	0	0	0	0.00
50	0	0	0	0	0	1	0	0	9.19
51	0	0	0	0	0	0	0	0	0.00
52	0	0	0	1	0	0	0	0	5.86
53	0	0	0	0	0	0	0	0	0.00
54	0	0	0	0	0	0	0	0	0.00
55	0	0	0	0	0	0	0	0	4.72
56	0	0	0	0	0	1	0	0	0.25
57	0	0	0	0	0	0	0	0	0.01
58	0	0	0	0	0	0	0	0	0.00
59	0	0	0	0	0	0	0	0	0.00
60	0	0	0	0	0	0	0	0	1.73

1									
2									
3	0	0	0	0	0	0	0	0	0.00
4	0	0	0	0	0	0	0	0	0.00
5	0	0	0	1	0	0	0	0	0.00
6	0	0	0	0	0	0	0	0	5.01
7	0	0	0	0	0	0	0	0	0.00
8	0	0	0	1	0	0	0	0	9.97
9	0	0	0	0	0	0	0	0	0.00
10	0	0	0	1	0	0	0	0	0.18
11	0	0	0	0	0	0	0	0	0.64
12	0	0	0	0	0	0	0	0	2.26
13	0	0	0	1	0	0	0	0	4.47
14	0	0	0	0	0	1	1	0	7.16
15	0	0	0	1	0	0	0	0	0.11
16	0	0	0	0	0	0	0	0	0.00
17	0	0	0	1	0	0	0	0	2.30
18	0	0	0	0	0	0	0	0	13.79
19	0	0	0	0	0	1	0	0	0.00
20	0	0	0	0	0	0	0	0	0.00
21	0	0	0	0	0	0	0	0	1.37
22	0	0	1	0	0	0	0	0	11.67
23	0	0	0	0	0	0	1	0	9.49
24	1	0	0	0	0	1	0	0	0.00
25	0	0	0	0	0	0	0	0	0.00
26	0	0	0	0	0	0	0	0	0.00
27	0	0	0	1	0	0	0	0	0.00
28	0	0	0	1	0	0	0	0	0.58
29	0	0	0	0	0	0	0	0	0.00
30	0	0	0	0	0	0	0	0	6.29
31	0	0	0	0	0	0	0	0	0.00
32	0	0	0	0	0	0	0	0	0.00
33	0	0	0	0	0	0	0	0	0.15
34	1	0	0	1	0	0	0	0	1.66
35	0	0	0	0	0	0	0	0	0.38
36	0	0	0	0	0	0	0	0	0.00
37	0	0	0	1	0	0	0	0	4.41
38	0	0	0	0	0	0	0	0	0.00
39	0	0	0	0	0	0	0	0	0.00
40	0	0	0	0	0	1	0	0	6.90
41	0	0	0	0	0	0	0	0	0.08
42	0	0	0	0	0	0	0	0	6.18
43	0	0	0	0	0	0	0	0	2.48
44	0	0	0	0	0	0	0	0	0.00
45	0	0	0	1	0	0	0	0	1.99
46	0	0	0	1	1	0	0	0	5.48
47	0	0	0	0	0	0	1	0	2.49
48	0	0	0	1	0	0	0	0	1.08
49	0	0	0	0	0	1	0	0	3.84
50	0	0	0	1	0	0	0	0	1.25
51	0	0	0	0	0	0	0	0	2.59
52	1	0	0	1	1	0	0	0	18.70
53	0	0	0	0	0	0	1	0	4.60
54	0	0	0	0	0	0	0	0	0.58
55	0	0	0	0	0	0	0	0	0.96
56	0	0	0	0	0	1	0	0	0.19
57	0	0	0	1	0	0	0	0	1.73
58	0	0	0	0	0	0	0	0	0.00
59	0	0	0	0	0	0	0	0	0.00
60	0	0	0	0	0	0	0	0	0.00

1									
2									
3	0	0	0	1	0	0	0	0	3.84
4	0	0	0	1	0	0	0	0	0.00
5	1	0	0	1	0	0	0	0	3.07
6	0	0	0	1	0	0	1	0	1.53
7	0	0	0	0	0	0	0	0	0.00
8	0	0	0	1	0	1	0	0	2.47
9	0	0	0	1	0	0	0	0	0.00
10	0	0	0	1	0	1	0	0	3.84
11	0	0	0	0	0	0	0	0	0.00
12	0	0	0	0	0	0	0	0	0.25
13	0	0	0	0	0	0	0	0	1.53
14	0	0	0	1	0	0	0	0	2.68
15	0	0	0	0	0	0	0	0	0.16
16	0	0	0	0	0	0	0	0	0.00
17	0	0	0	1	0	0	0	0	0.00
18	0	0	0	1	0	0	0	0	2.01
19	0	0	0	0	0	0	0	0	1.92
20	0	0	0	1	1	0	0	0	2.29
21	0	0	0	1	0	0	1	0	2.41
22	0	0	0	0	0	0	0	0	7.48
23	0	0	0	0	0	0	0	0	0.00
24	0	0	0	0	0	0	0	0	2.47
25	0	0	0	0	0	0	0	0	1.07
26	0	0	0	0	0	0	0	0	0.00
27	0	0	0	0	0	0	0	0	0.00
28	0	0	0	1	0	0	1	0	14.11
29	0	0	0	0	0	0	0	0	0.00
30	0	0	0	1	0	0	1	0	1.84
31	0	0	0	1	0	0	0	0	1.81
32	0	0	0	0	0	0	0	0	1.03
33	0	0	0	0	0	1	0	0	1.68
34	0	0	0	0	0	0	0	0	0.00
35	0	0	0	1	0	0	0	0	10.12
36	0	0	0	0	0	0	0	0	4.18
37	0	0	0	1	0	0	0	0	0.00
38	1	1	0	1	0	0	0	0	4.79
39	0	0	0	0	0	0	0	0	5.62
40	0	0	0	1	0	0	0	0	0.96
41	0	0	0	0	0	0	0	0	0.00
42	0	0	0	0	0	0	0	0	0.00
43	0	0	0	0	0	0	0	0	0.00
44	0	0	0	0	0	0	0	0	0.60
45	0	0	0	1	0	0	0	0	2.46
46	0	0	0	0	0	0	0	0	0.00
47	0	0	0	0	0	0	0	0	1.73
48	0	0	0	0	0	0	0	0	0.00
49	0	0	0	0	0	0	0	0	0.77
50	0	0	0	0	0	0	0	0	0.00
51	0	0	0	0	0	0	0	0	7.70
52	0	0	0	0	0	0	0	0	0.00
53	0	0	0	0	0	0	0	0	0.00
54	0	0	0	0	0	0	0	0	0.00
55	0	0	1	1	0	0	0	0	7.32
56	0	0	0	0	0	0	0	0	2.01
57	0	0	0	1	1	0	0	0	7.95
58	0	0	0	0	0	0	0	0	0.00
59	0	0	0	0	0	0	0	0	3.07
60	0	0	0	1	0	0	0	0	2.30

1									
2									
3	0	0	0	1	1	0	0	0	11.10
4	0	0	0	1	0	0	0	0	1.57
5	0	0	0	1	0	0	0	0	0.00
6	1	0	0	1	0	0	1	0	1.53
7	0	0	0	0	0	0	0	0	0.08
8	0	0	0	0	0	0	0	0	0.00
9	0	0	0	0	0	0	0	0	0.00
10	0	0	0	1	0	0	0	0	16.49
11	0	0	0	0	0	0	0	0	0.00
12	0	0	0	0	0	0	0	0	0.07
13	0	0	0	0	0	0	0	0	0.00
14	0	0	0	1	0	0	0	0	0.96
15	0	0	0	0	0	0	0	0	0.00
16	0	0	0	0	0	0	0	0	4.25
17	0	0	0	0	0	0	0	0	0.00
18	0	0	0	0	0	0	0	0	0.00
19	1	0	0	1	0	0	0	0	1.22
20	0	0	0	1	0	0	0	0	19.21
21	0	0	0	1	0	0	0	0	4.88
22	1	1	0	1	0	1	0	0	40.52
23	1	0	0	0	0	0	0	0	4.82
24	0	0	0	0	0	1	0	0	3.07
25	1	0	0	0	0	0	0	0	3.55
26	0	0	0	1	0	1	0	0	15.00
27	0	0	0	0	0	1	0	0	8.93
28	0	0	0	1	0	0	0	0	7.77
29	0	0	0	1	0	1	0	0	3.24
30	1	0	0	1	0	0	0	0	0.58
31	1	0	0	1	0	0	0	0	0.00
32	0	0	0	1	0	0	0	0	10.07
33	0	0	0	0	0	0	0	0	0.04
34	0	0	0	0	0	0	0	0	0.58
35	0	0	0	1	0	0	0	0	0.19
36	0	0	0	0	0	1	0	0	0.00
37	0	0	0	1	0	0	0	0	14.60
38	1	0	0	0	1	0	0	0	5.81
39	0	0	0	0	0	0	1	0	2.88
40	0	0	0	1	0	1	0	0	19.99
41	1	0	0	0	1	1	0	0	9.75
42	0	0	0	1	0	1	1	0	7.32
43	0	0	0	1	0	0	0	0	9.22
44	1	0	0	1	0	0	0	0	6.49
45	1	0	0	1	0	0	0	0	8.47
46	0	0	0	0	0	0	0	0	8.82
47	1	0	0	1	0	0	0	0	4.41
48	0	0	0	1	0	0	0	0	2.05
49	0	0	0	1	0	0	0	0	3.60
50	0	0	0	1	0	0	0	0	0.38
51	0	0	0	0	0	0	0	0	8.77
52	0	0	0	0	0	1	0	0	7.45
53	0	0	0	1	0	0	0	0	3.29
54	0	0	0	0	0	1	0	0	4.22
55	1	0	0	1	0	0	0	0	4.99
56	0	0	0	1	0	1	0	0	0.00
57	0	0	0	0	0	1	0	0	0.25
58	0	0	0	1	0	0	0	0	3.45
59	0	0	0	1	0	0	0	0	
60	0	0	0	1	0	0	0	0	

1									
2									
3	0	0	0	0	0	0	0	0	0.00
4	0	0	0	0	1	0	1	0	17.71
5	0	0	0	1	0	0	0	0	13.81
6	1	0	0	1	0	0	0	0	12.93
7	0	0	0	0	0	1	0	0	4.50
8	0	0	0	1	0	0	0	0	1.79
9	0	0	0	1	0	0	0	0	1.95
10	0	0	0	0	0	0	0	0	10.44
11	0	0	0	0	0	0	0	0	3.37
12	0	0	0	0	0	0	0	0	7.84
13	0	0	0	1	0	0	0	0	5.32
14	0	0	0	0	0	0	1	0	0.55
15	0	0	0	0	0	0	0	0	6.44
16	1	0	0	1	0	0	0	0	5.25
17	0	0	0	0	0	0	0	0	0.00
18	0	0	0	1	0	1	0	0	5.47
19	1	0	0	0	0	1	0	0	21.12
20	1	0	0	0	1	1	0	0	11.21
21	0	0	0	0	0	0	0	0	12.01
22	0	0	0	0	0	0	0	0	0.00
23	0	0	0	0	0	0	0	0	0.00
24	0	0	0	1	0	0	0	0	5.63
25	1	0	0	1	0	0	0	0	13.04
26	1	0	0	0	0	0	0	0	8.74
27	1	0	0	1	0	0	0	0	12.77
28	0	0	0	0	0	0	0	0	0.00
29	0	0	0	0	0	0	0	0	0.00
30	0	0	0	1	1	1	1	0	15.95
31	0	0	0	1	0	0	0	0	0.76
32	1	0	0	1	0	1	0	0	9.84
33	0	0	0	0	0	1	0	0	14.00
34	1	0	0	1	0	0	0	0	13.15
35	0	0	0	0	0	1	0	0	32.99
36	0	0	0	1	0	0	0	0	11.84
37	1	0	0	1	0	0	0	0	19.25
38	0	0	0	0	0	0	0	0	1.08
39	0	0	0	1	0	0	0	0	2.55
40	1	0	0	0	0	0	0	0	2.99
41	0	0	0	0	0	0	0	0	0.00
42	0	0	0	0	0	0	0	0	0.00
43	1	0	0	1	0	0	0	0	8.44
44	0	0	0	1	0	0	0	0	6.14
45	0	0	0	0	0	1	0	0	11.86
46	1	0	0	0	0	0	0	0	4.22
47	1	0	0	0	0	0	0	0	3.87
48	0	0	0	0	0	0	0	0	0.00
49	1	0	0	1	0	0	0	0	22.48
50	0	0	0	0	0	1	0	0	6.84
51	0	0	0	1	0	0	0	0	2.30
52	0	0	0	0	0	0	0	0	12.71
53	0	0	0	1	0	0	0	0	4.25
54	0	0	0	0	0	0	0	0	0.00
55	0	0	0	0	0	1	0	0	2.68
56	0	0	0	0	0	1	0	0	8.29
57	0	0	0	0	0	0	0	0	15.00
58	1	0	0	1	0	0	1	0	6.89
59	0	0	0	0	0	0	0	0	0.05
60	0	0	0	0	0	0	0	0	0.05

1									
2									
3	0	0	0	0	0	0	0	0	0.00
4	0	0	0	1	0	0	0	0	4.41
5	0	0	0	1	0	1	0	0	5.07
6	0	0	0	0	0	0	0	0	8.65
7	0	0	0	0	0	1	0	0	6.90
8	0	0	0	1	0	0	1	0	15.73
9	0	0	0	1	0	0	0	0	0.00
10	0	0	0	1	0	0	0	0	13.84
11	0	0	0	0	0	0	0	0	0.00
12	0	0	0	1	0	0	0	0	0.53
13	0	0	0	0	0	0	0	0	0.00
14	0	0	0	1	0	0	0	0	18.60
15	0	0	0	1	0	0	1	0	3.73
16	1	0	0	1	0	0	0	0	1.53
17	0	0	0	0	0	0	0	0	1.15
18	0	0	0	0	0	0	0	0	6.59
19	0	0	0	1	0	1	0	0	9.01
20	0	0	0	0	0	1	0	0	9.21
21	0	0	0	1	0	0	0	0	3.26
22	0	0	0	0	0	0	0	0	0.00
23	0	0	0	0	0	0	0	0	0.00
24	0	0	0	0	0	0	0	0	0.00
25	0	0	0	0	0	1	0	0	1.73
26	0	0	0	1	0	0	0	0	0.50
27	0	0	0	0	0	1	0	0	1.59
28	1	0	0	1	0	1	0	0	41.45
29	0	0	0	0	0	1	0	0	0.89
30	1	0	0	0	0	0	0	0	3.07
31	0	0	0	1	0	1	0	0	2.30
32	0	0	0	0	0	0	0	0	0.00
33	0	0	0	0	0	0	0	0	0.00
34	0	0	0	1	0	0	0	0	0.30
35	0	0	0	0	0	0	0	0	0.37
36	1	0	1	1	1	0	1	0	15.88
37	0	0	0	1	0	0	0	0	16.40
38	0	0	0	1	0	1	0	0	0.77
39	0	0	0	1	0	0	0	0	0.00
40	0	0	0	1	0	1	0	0	5.35
41	0	0	0	0	0	0	0	0	0.00
42	1	0	0	1	0	1	0	0	2.00
43	0	0	0	1	0	0	0	0	0.00
44	1	1	0	1	0	0	0	0	9.53
45	0	0	0	0	0	1	0	0	2.76
46	0	0	0	1	0	0	0	0	0.00
47	1	1	0	1	0	0	0	0	13.14
48	0	0	0	0	0	1	0	0	11.75
49	1	0	0	1	0	0	1	0	24.52
50	0	0	0	0	0	0	0	0	0.04
51	0	0	0	1	0	0	0	0	2.11
52	0	0	0	0	0	1	0	0	3.45
53	1	0	0	0	0	0	0	0	9.04
54	1	0	0	1	0	0	0	0	17.47
55	0	0	0	0	0	1	0	0	15.26
56	0	0	0	0	0	0	0	0	18.79
57	0	0	0	0	0	1	0	0	8.36
58	0	0	0	0	0	0	0	0	13.44
59	0	0	0	0	0	0	0	0	13.44
60	1	0	0	0	0	0	0	0	8.89

1									
2									
3	0	0	0	0	0	0	0	0	3.33
4	0	0	0	0	0	0	0	0	0.00
5	0	0	0	1	0	0	0	0	9.21
6	0	0	0	0	0	0	0	0	5.01
7	1	0	0	0	0	0	0	0	5.62
8	0	0	0	0	0	0	0	0	0.16
9	1	0	0	1	0	0	0	0	11.33
10	0	0	0	0	0	0	0	0	9.59
11	0	1	0	1	0	0	0	0	53.88
12	0	0	0	0	0	0	0	0	35.45
13	0	0	0	1	0	0	0	0	0.45
14	0	0	0	0	0	0	0	0	0.00
15	0	0	0	0	0	1	0	0	5.95
16	1	0	0	0	0	0	0	0	0.77
17	0	0	0	1	0	0	0	0	1.73
18	0	0	0	0	0	1	0	0	3.45
19	0	0	0	0	0	0	0	0	0.00
20	0	0	0	0	0	1	0	0	0.41
21	0	0	0	0	0	1	0	0	5.68
22	1	0	0	0	0	0	0	0	4.99
23	0	0	0	0	0	0	0	0	2.14
24	0	0	0	0	0	1	0	0	8.52
25	0	0	0	0	0	0	0	0	3.58
26	1	0	0	1	0	1	0	0	5.23
27	0	0	0	0	0	0	0	0	0.08
28	0	0	0	0	0	0	0	0	0.00
29	0	0	0	0	0	0	0	0	0.00
30	0	0	0	0	0	0	0	0	0.00
31	1	0	0	0	0	1	0	0	22.11
32	0	0	0	0	0	1	0	0	13.42
33	0	0	0	0	0	1	0	0	1.15
34	0	0	0	0	0	0	0	0	0.00
35	0	0	0	0	0	0	0	0	0.59
36	0	0	0	0	0	0	0	0	0.00
37	1	0	0	1	1	0	0	0	1.42
38	0	0	0	0	0	1	0	0	7.86
39	0	0	0	0	0	1	0	0	3.34
40	0	0	0	0	0	0	0	0	0.12
41	0	0	0	0	0	1	1	0	15.26
42	0	0	0	1	0	0	0	0	18.79
43	1	0	0	0	0	0	0	0	3.45
44	0	0	0	0	0	0	0	0	0.00
45	0	0	0	0	0	0	0	0	8.44
46	0	0	0	0	1	0	0	0	23.21
47	1	0	0	1	0	0	0	0	4.79
48	0	0	0	0	0	0	0	0	3.38
49	1	0	0	0	0	0	0	0	5.14
50	0	0	0	0	0	1	0	0	1.60
51	0	0	0	0	0	0	0	0	0.00
52	1	0	0	1	0	0	0	0	6.62
53	0	0	0	1	0	0	0	0	3.64
54	0	0	0	0	0	1	0	0	0.00
55	1	0	0	1	0	1	0	0	7.83
56	0	0	0	0	0	1	0	0	1.15
57	0	0	0	0	0	1	0	0	4.60
58	1	0	0	0	0	1	1	0	109.66
59	1	0	0	1	0	1	0	0	0.00
60	1	0	0	1	0	1	0	0	0.00

1									
2									
3	1	0	0	0	0	0	0	0	18.75
4	1	0	0	1	0	0	0	0	9.44
5	0	0	0	0	1	0	0	0	14.63
6	0	0	0	0	0	1	0	0	22.44
7	0	0	0	0	0	0	0	0	0.66
8	1	0	0	1	0	1	0	0	9.25
9	0	0	0	0	0	0	0	0	0.00
10	0	0	0	0	0	0	0	0	0.00
11	0	0	0	0	0	0	0	0	0.00
12	0	0	0	0	0	0	0	0	0.00
13	1	0	0	1	0	0	0	0	6.85
14	0	0	0	0	0	1	0	0	3.26
15	0	0	0	0	0	0	0	0	0.00
16	0	0	0	1	0	0	0	0	0.00
17	0	0	0	1	0	0	0	0	5.27
18	0	0	0	1	0	0	0	0	0.00
19	0	0	0	1	0	0	0	0	0.66
20	0	0	0	0	0	0	0	0	0.06
21	0	0	0	1	0	0	0	0	0.40
22	0	0	0	0	0	0	0	0	0.00
23	0	0	0	0	0	0	0	0	0.00
24	0	0	0	0	0	0	0	0	0.00
25	0	0	0	1	0	0	0	0	0.00
26	0	0	0	1	0	0	0	0	0.00
27	0	0	0	0	0	0	0	0	0.00
28	0	0	0	1	0	0	0	0	0.00
29	0	0	0	0	0	0	0	0	0.00
30	0	0	0	1	0	0	0	0	3.07
31	0	0	0	1	0	0	0	0	0.41
32	0	0	0	1	0	0	0	0	0.00
33	0	0	0	0	0	0	0	0	0.00
34	0	0	0	1	0	0	0	0	0.00
35	0	0	0	0	0	0	0	0	0.00
36	0	0	0	0	0	0	0	0	1.15
37	0	0	0	1	0	0	0	0	0.77
38	0	0	0	0	0	0	0	0	0.00
39	0	0	0	1	0	0	0	0	0.63
40	0	0	0	1	0	0	0	0	3.84
41	0	0	0	1	0	1	0	0	3.84
42	0	0	0	0	0	0	0	0	0.49
43	0	0	0	0	0	0	0	0	0.22
44	0	0	0	1	0	0	0	0	0.06
45	0	0	0	1	0	0	0	0	4.78
46	0	0	0	1	0	0	0	0	0.16
47	0	0	0	1	0	0	0	0	1.93
48	0	0	0	1	0	0	0	0	4.16
49	0	0	0	0	0	0	0	0	0.58
50	0	0	0	1	0	0	0	0	0.00
51	0	0	0	1	0	0	0	0	0.00
52	0	0	0	1	0	0	0	0	0.16
53	0	0	0	1	0	0	0	0	0.08
54	0	0	0	1	0	0	0	0	0.00
55	0	0	0	0	0	0	0	0	0.77
56	0	0	0	0	0	0	0	0	0.19
57	0	0	0	0	0	0	0	0	5.95
58	0	0	0	0	0	0	0	0	0.00
59	0	0	0	0	0	0	0	0	0.00
60	0	0	0	1	0	0	0	0	0.00

1									
2									
3	0	0	0	1	0	0	0	0	2.71
4	0	0	0	1	0	0	0	0	0.00
5	0	1	0	0	0	0	0	0	0.05
6	0	0	0	0	0	0	0	0	0.09
7	0	0	0	0	0	0	0	0	0.00
8	0	0	0	0	0	0	0	0	0.12
9	0	0	0	1	0	0	0	0	3.25
10	0	0	0	1	0	0	0	0	1.73
11	1	1	0	1	1	0	0	0	7.97
12	0	0	0	0	0	0	0	0	0.16
13	1	0	0	1	0	0	0	0	17.18
14	0	0	0	0	0	0	0	0	0.12
15	0	0	0	1	0	0	0	0	0.00
16	0	0	0	0	0	0	0	0	0.00
17	0	0	0	1	0	0	0	0	0.00
18	0	0	0	1	0	0	0	0	0.00
19	0	0	0	0	0	0	0	0	0.00
20	0	1	0	1	0	0	0	0	2.60
21	0	0	0	1	0	0	0	0	0.16
22	0	0	0	1	0	0	0	0	0.19
23	0	0	0	0	0	0	0	0	0.00
24	0	0	0	0	0	0	0	0	0.00
25	0	0	0	1	0	0	0	0	7.40
26	0	0	0	0	0	0	0	0	0.00
27	0	0	0	0	0	0	0	0	0.00
28	0	0	0	1	0	0	0	0	0.00
29	0	0	0	0	0	0	0	0	0.00
30	0	0	0	1	0	0	0	0	3.33
31	0	0	0	0	0	0	0	0	3.84
32	0	0	0	0	0	0	0	0	8.25
33	0	0	0	1	0	0	0	0	0.00
34	0	0	0	1	0	0	0	0	30.07
35	0	1	0	1	0	0	0	0	1.14
36	0	0	0	0	0	0	0	0	0.00
37	0	0	0	0	0	0	0	0	0.12
38	0	0	0	0	0	0	0	0	0.00
39	0	0	0	0	0	0	0	0	3.22
40	0	0	0	1	0	0	0	0	0.05
41	0	0	0	0	0	0	0	0	0.04
42	0	0	0	1	0	0	0	0	0.00
43	1	0	0	1	0	0	0	0	0.00
44	0	0	0	1	0	0	0	0	0.00
45	0	0	0	0	0	0	0	0	0.00
46	0	0	0	0	0	0	0	0	0.00
47	0	0	0	1	0	0	0	0	0.14
48	0	0	0	1	0	0	0	0	0.29
49	0	0	0	0	0	0	0	0	0.00
50	0	0	0	1	0	0	0	0	3.74
51	0	0	0	1	0	0	0	0	1.10
52	0	0	0	0	0	0	0	0	3.84
53	0	0	0	0	0	0	0	0	2.05
54	0	0	0	0	0	0	0	0	0.00
55	0	0	0	1	0	0	0	0	1.51
56	0	0	0	1	0	1	0	0	29.77
57	0	0	0	0	0	0	0	0	0.74
58	0	0	0	0	0	0	0	0	0.00
59	0	0	0	0	0	0	0	0	0.00
60	0	0	0	0	0	0	0	0	0.00

1									
2									
3	0	0	0	0	0	0	0	0	4.47
4	0	0	0	1	0	0	0	0	0.06
5	0	0	0	1	0	0	0	0	0.19
6	0	0	0	0	0	0	0	0	0.00
7	0	0	0	1	0	0	0	0	0.00
8	0	0	0	0	0	0	0	0	0.77
9	0	0	0	1	0	0	0	0	5.37
10	0	0	0	0	0	0	0	0	0.00
11	0	0	0	1	0	0	0	0	0.00
12	0	0	0	0	0	0	0	0	0.00
13	0	0	0	0	0	0	0	0	0.00
14	1	0	0	1	0	0	0	0	0.00
15	0	0	0	1	0	0	0	0	0.12
16	0	0	0	0	0	0	0	0	0.00
17	0	0	0	1	0	0	0	0	0.23
18	0	0	0	1	0	0	0	0	0.00
19	0	0	0	0	0	0	0	0	0.14
20	0	0	0	1	0	0	0	0	0.00
21	0	0	0	1	0	0	0	0	0.00
22	0	0	0	0	0	0	0	0	0.40
23	0	0	0	1	0	0	0	0	0.00
24	0	0	0	1	0	0	0	0	0.14
25	0	0	0	0	0	0	0	0	5.45
26	0	0	0	0	0	0	0	0	0.00
27	0	0	0	0	0	0	0	0	0.00
28	0	0	0	0	0	0	0	0	0.00
29	0	0	0	1	0	1	0	0	0.96
30	0	0	0	0	0	0	0	0	0.30
31	0	0	0	0	0	0	0	0	0.10
32	0	0	1	1	0	1	1	0	0.00
33	0	0	0	1	0	0	0	0	1.02
34	0	0	0	1	0	0	0	0	0.00
35	0	0	0	1	0	0	0	0	0.00
36	0	0	0	1	0	0	0	0	0.00
37	0	0	0	1	0	1	0	0	2.36
38	0	0	0	1	0	0	0	0	0.00
39	0	0	0	0	0	0	0	0	0.00
40	0	0	0	1	0	0	0	0	2.88
41	0	0	0	0	0	0	0	0	0.00
42	0	0	0	1	0	0	0	0	0.00
43	0	0	0	1	0	0	0	0	0.00
44	1	0	0	1	0	1	0	0	10.82
45	0	0	0	1	0	0	0	0	0.00
46	0	0	0	1	0	0	0	0	0.25
47	0	1	0	1	0	0	0	0	0.00
48	0	0	0	1	0	0	0	0	0.00
49	0	0	0	1	0	0	0	0	6.33
50	0	0	0	0	0	0	0	0	5.04
51	0	0	0	1	0	0	0	0	0.00
52	0	0	0	0	0	0	0	0	0.00
53	0	0	0	0	0	0	0	0	0.00
54	0	0	0	1	0	0	0	0	0.38
55	0	0	0	1	0	1	0	0	0.77
56	0	0	0	1	0	0	0	0	0.25
57	0	0	0	1	0	0	0	0	0.00
58	0	0	0	1	0	0	0	0	0.29
59	0	0	0	0	0	0	0	0	0.00
60	0	0	0	0	0	0	0	0	0.00

1									
2									
3	0	0	0	1	0	0	0	0	0.00
4	1	0	0	1	1	1	0	1	2.25
5	0	0	0	0	0	0	0	0	0.12
6	0	0	0	1	0	0	0	0	0.00
7	0	0	0	1	0	0	0	0	3.45
8	0	0	0	0	0	0	0	0	0.00
9	0	0	0	0	0	0	0	0	0.00
10	0	0	0	0	0	0	0	0	5.38
11	0	0	0	0	0	0	0	0	2.81
12	1	0	0	1	0	0	0	0	4.60
13	0	1	0	1	0	1	0	0	1.07
14	1	0	0	1	0	0	0	0	0.19
15	0	0	0	0	0	0	0	0	0.00
16	0	1	0	1	0	0	0	0	2.88
17	0	0	0	0	0	0	0	0	21.40
18	0	0	0	1	0	0	0	0	0.11
19	1	0	0	1	0	0	0	0	0.38
20	0	0	0	0	0	0	0	0	0.00
21	0	0	0	0	0	0	0	0	0.00
22	0	0	0	0	0	0	0	0	0.00
23	0	0	0	1	0	0	0	0	0.08
24	0	0	0	0	0	0	0	0	0.00
25	0	0	0	1	0	0	0	0	0.79
26	0	0	0	1	0	0	0	0	0.00
27	0	0	0	1	0	0	0	0	0.00
28	0	0	0	1	0	0	0	0	0.00
29	0	0	0	1	0	0	0	0	0.00
30	0	0	0	1	0	0	0	0	0.58
31	0	0	0	1	0	0	0	0	0.77
32	0	0	0	0	0	0	0	0	0.00
33	0	0	0	0	0	0	0	0	0.00
34	0	0	0	0	0	0	0	0	0.00
35	0	0	0	1	0	0	0	0	2.49
36	1	0	0	1	0	0	0	0	0.38
37	1	0	0	0	0	0	0	0	0.26
38	0	0	0	1	0	0	0	0	0.00
39	0	0	0	0	0	0	0	0	0.00
40	0	0	0	0	0	0	0	0	0.00
41	0	0	0	0	0	0	0	0	0.25
42	0	0	0	1	0	0	0	0	4.15
43	0	0	0	1	0	0	0	0	0.00
44	0	0	0	0	0	0	0	0	0.00
45	0	0	0	0	0	0	0	0	0.00
46	0	0	0	1	0	0	0	0	0.00
47	0	0	0	1	0	0	0	0	0.00
48	0	0	0	0	0	0	0	0	0.00
49	0	0	0	0	0	0	0	0	0.00
50	0	0	0	0	0	0	0	0	0.00
51	0	1	0	1	0	0	0	0	2.11
52	0	0	0	1	0	0	0	0	0.00
53	0	0	0	0	0	0	0	0	0.16
54	0	0	0	0	0	0	0	0	0.00
55	0	0	0	1	0	0	0	0	0.00
56	0	0	0	0	0	0	0	0	0.00
57	0	0	0	0	0	0	0	0	0.31
58	0	0	0	1	0	0	0	0	0.00
59	0	0	0	1	0	0	0	0	0.00
60	0	0	0	1	0	0	0	0	11.97

1									
2									
3	0	0	0	1	0	0	0	0	0.00
4	0	0	0	0	0	0	0	0	0.00
5	0	0	0	1	0	0	0	0	0.00
6	0	0	0	1	0	0	0	0	0.00
7	0	0	0	0	0	0	0	0	0.38
8	0	0	0	1	0	0	0	0	3.45
9	0	0	0	0	0	0	0	0	0.00
10	0	0	0	1	0	0	0	0	1.81
11	0	0	0	1	0	0	0	0	0.00
12	0	0	0	0	0	0	0	0	12.70
13	0	0	0	0	0	0	0	0	0.00
14	0	0	0	0	0	0	0	0	0.00
15	0	0	0	0	0	0	0	0	0.16
16	0	0	0	0	0	0	0	0	0.00
17	0	0	0	0	0	0	0	0	0.49
18	0	0	0	1	0	0	0	0	0.08
19	0	0	0	1	0	0	0	0	0.01
20	0	0	0	1	0	0	0	0	0.00
21	0	0	0	0	0	0	0	0	0.00
22	1	0	0	0	0	0	0	0	0.00
23	0	1	0	0	0	0	0	0	0.18
24	0	0	0	1	0	0	0	0	0.02
25	0	0	0	1	0	0	0	0	0.00
26	0	0	0	1	0	0	0	0	0.74
27	0	1	0	1	0	0	0	0	1.53
28	0	0	0	1	0	1	0	0	11.97
29	0	1	0	1	0	0	0	0	2.59
30	0	0	0	0	0	0	0	0	0.00
31	0	0	0	0	0	0	0	0	0.00
32	0	0	0	0	0	0	0	0	0.00
33	0	0	0	1	0	0	0	0	0.00
34	0	0	0	1	0	0	0	0	5.37
35	0	0	0	0	0	0	0	0	0.00
36	0	1	0	0	0	0	0	0	0.00
37	0	0	0	1	0	0	0	0	3.84
38	0	0	0	1	0	0	0	0	0.00
39	0	0	0	0	0	0	0	0	0.00
40	0	0	0	0	0	0	0	0	0.00
41	0	0	0	0	0	0	0	0	0.09
42	0	0	0	1	0	1	0	0	0.38
43	0	0	0	1	0	0	0	0	0.05
44	0	0	0	1	0	0	0	0	1.64
45	0	0	0	0	0	0	0	0	3.15
46	0	1	0	1	0	0	0	0	2.95
47	0	0	0	0	0	0	0	0	0.16
48	0	0	0	0	0	0	0	0	0.10
49	0	0	0	1	0	0	0	0	0.00
50	0	0	0	1	0	0	0	0	0.00
51	0	0	0	0	0	0	0	0	0.00
52	0	0	0	0	0	0	0	0	0.00
53	1	1	0	1	0	1	0	0	5.85
54	0	0	0	0	0	0	0	0	3.19
55	0	0	0	1	0	0	0	0	3.55
56	0	0	0	0	0	0	0	0	0.31
57	0	0	0	0	0	0	0	0	0.00
58	0	0	0	0	0	0	0	0	0.14
59	0	0	0	1	0	0	0	0	0.00
60	0	0	0	0	0	0	0	0	0.09

1									
2									
3	0	0	0	0	0	0	0	0	11.80
4	0	0	0	1	0	0	0	0	0.00
5	0	0	0	1	0	0	0	0	0.82
6	0	0	0	1	0	0	0	0	0.29
7	0	0	0	1	0	0	0	0	0.29
8	0	0	0	1	0	0	0	0	0.00
9	0	0	0	1	0	0	0	0	0.19
10	0	0	0	0	0	0	0	0	0.00
11	0	0	0	0	0	0	0	0	0.00
12	0	0	0	0	0	0	0	0	0.00
13	0	0	0	0	0	0	0	0	0.05
14	0	0	0	1	0	0	0	0	0.51
15	0	0	0	0	0	0	0	0	0.13
16	0	0	0	1	0	0	0	0	0.55
17	0	0	0	1	0	0	0	0	0.00
18	0	0	0	1	0	0	0	0	0.12
19	0	0	0	1	0	0	0	0	0.00
20	0	0	0	1	0	0	0	0	0.10
21	0	0	0	0	0	0	0	0	0.00
22	0	0	0	1	0	0	0	0	0.00
23	0	0	0	1	0	0	0	0	0.00
24	0	0	0	1	0	0	0	0	0.12
25	0	0	0	1	0	0	0	0	0.00
26	0	0	0	1	0	0	0	0	0.16
27	0	0	0	0	0	0	0	0	0.00
28	0	0	0	1	0	0	0	0	0.00
29	0	0	0	1	0	0	0	0	0.77
30	0	0	0	1	0	0	0	0	2.30
31	0	0	0	1	0	0	0	0	4.99
32	0	0	0	1	0	0	0	0	0.00
33	0	0	0	0	0	0	0	0	0.00
34	0	0	0	0	0	0	0	0	1.11
35	0	0	0	1	0	0	0	0	3.84
36	1	1	0	1	0	0	0	0	0.14
37	0	1	0	0	0	0	0	1	0.00
38	0	0	0	1	0	0	0	0	2.38
39	0	0	0	1	0	0	0	0	0.00
40	0	0	0	1	0	0	0	0	0.00
41	0	1	0	0	0	0	0	0	0.00
42	0	0	0	1	0	0	0	0	0.00
43	0	0	0	1	0	0	0	0	0.41
44	0	0	0	1	0	0	0	0	0.07
45	0	0	0	1	0	0	0	0	0.00
46	0	0	0	1	0	0	0	0	2.54
47	0	0	0	1	0	0	0	0	0.00
48	0	0	0	1	0	0	0	0	0.00
49	0	0	0	1	0	0	0	0	0.00
50	0	0	0	1	0	0	0	0	0.00
51	0	0	0	1	0	0	0	0	0.00
52	0	0	0	1	0	0	0	0	0.63
53	0	1	0	0	0	0	0	0	0.00
54	0	0	0	0	0	0	0	0	0.14
55	0	0	0	1	0	0	0	0	0.00
56	0	0	0	0	0	0	0	0	0.00
57	0	0	0	1	0	0	0	0	3.07
58	0	0	0	0	0	1	0	0	0.00
59	0	0	0	1	0	0	0	0	0.00
60	0	0	0	1	0	0	0	0	0.30

1									
2									
3	0	0	0	1	0	0	0	0	0.08
4	0	0	0	1	0	0	0	0	0.05
5	0	0	0	1	0	0	0	0	2.50
6	0	0	0	1	0	0	0	0	0.00
7	0	0	0	1	0	0	0	0	0.00
8	0	0	0	1	0	0	0	0	0.00
9	0	0	0	1	0	0	0	0	4.62
10	0	0	0	1	0	0	0	0	0.00
11	1	1	1	1	0	0	0	0	3.74
12	0	0	0	1	0	0	0	0	2.30
13	0	0	0	1	0	0	0	0	2.27
14	0	0	0	1	0	0	0	0	1.08
15	0	0	0	0	0	0	0	0	0.00
16	1	1	0	1	0	0	0	0	1.89
17	0	0	0	0	0	0	0	0	0.96
18	0	0	0	1	0	0	0	0	0.00
19	0	0	0	1	0	0	0	0	2.53
20	0	0	0	1	0	0	0	0	0.00
21	0	0	0	0	0	0	0	0	0.08
22	0	0	0	1	0	0	0	0	1.34
23	0	0	0	1	0	0	0	0	1.53
24	0	0	0	0	0	0	0	0	4.71
25	0	0	0	0	0	0	0	0	0.00
26	0	0	0	0	0	0	0	0	0.00
27	0	0	0	1	0	0	0	0	0.00
28	0	0	0	1	0	0	0	0	0.09
29	0	0	0	1	0	0	0	0	3.67
30	0	0	0	0	0	0	0	0	15.12
31	0	0	0	0	0	0	0	0	0.00
32	1	1	0	1	0	0	0	0	0.00
33	0	0	0	1	0	0	0	0	0.58
34	0	0	0	1	0	0	0	0	0.14
35	0	1	0	1	0	0	0	0	2.30
36	0	1	0	1	0	0	0	0	0.38
37	0	0	0	1	0	0	0	0	0.37
38	0	0	0	1	0	0	0	0	0.38
39	0	0	0	1	0	0	0	0	0.00
40	0	0	0	1	0	0	0	0	0.77
41	0	0	0	0	0	0	0	0	0.00
42	0	0	0	1	0	0	0	0	9.64
43	0	0	0	1	0	0	0	0	0.00
44	0	0	0	1	0	0	0	0	3.19
45	0	0	0	1	0	0	0	0	9.27
46	0	0	0	1	0	0	0	0	5.12
47	0	0	0	0	0	0	0	0	0.00
48	0	0	0	1	0	0	0	0	0.14
49	0	0	0	0	0	0	0	0	0.00
50	0	0	0	1	0	0	0	0	1.53
51	0	0	0	1	0	0	0	0	0.00
52	0	0	0	1	0	0	0	0	2.21
53	0	0	0	1	0	0	0	0	0.78
54	0	1	0	1	0	1	1	0	12.21
55	0	0	0	0	0	0	0	0	0.34
56	0	0	0	1	0	0	0	0	1.34
57	0	0	0	1	0	0	0	0	0.00
58	0	0	0	1	0	0	0	0	2.28
59	0	0	0	0	0	0	0	0	0.00
60	0	0	0	0	0	0	0	0	0.00

1									
2									
3	0	0	0	0	0	0	0	0	0.00
4	0	0	0	1	0	0	0	0	0.00
5	0	0	0	1	0	0	0	0	0.00
6	0	0	0	0	0	0	0	0	0.00
7	0	0	0	1	0	0	0	0	17.01
8	0	0	0	0	0	0	0	0	0.00
9	0	0	0	1	0	0	0	0	0.00
10	0	0	0	0	1	1	0	0	0.77
11	0	0	0	0	0	0	0	0	0.00
12	0	0	0	0	0	0	0	0	0.00
13	0	0	0	1	0	0	0	0	4.60
14	0	0	0	0	0	0	0	0	0.05
15	0	0	0	1	0	0	0	0	0.00
16	0	0	0	0	0	0	0	0	0.00
17	0	0	0	0	0	0	0	0	0.00
18	0	0	0	1	0	0	0	0	5.95
19	0	0	0	0	0	0	0	0	0.00
20	0	0	0	1	0	1	0	0	1.41
21	1	0	0	0	0	0	0	0	3.41
22	1	1	0	1	0	0	0	0	0.43
23	0	0	0	0	0	0	0	0	0.09
24	0	0	0	0	0	0	0	0	0.00
25	0	0	0	0	0	0	0	0	0.00
26	0	0	0	1	0	0	0	0	0.32
27	0	0	0	1	0	0	0	0	0.00
28	0	0	0	1	0	0	0	0	0.73
29	0	0	0	0	0	0	0	0	0.00
30	0	0	0	0	0	0	0	0	2.88
31	0	0	0	0	0	0	0	0	1.23
32	0	0	0	1	0	0	0	0	1.03
33	0	0	0	1	0	0	0	0	1.34
34	0	0	0	0	0	0	0	0	0.00
35	0	0	0	0	0	0	0	0	0.00
36	0	0	0	1	0	0	0	0	0.00
37	0	0	0	1	0	0	0	0	0.16
38	0	0	0	0	0	0	0	0	0.06
39	0	0	0	0	0	0	0	0	6.30
40	0	0	0	1	0	0	0	0	1.73
41	0	0	0	1	0	0	0	0	0.00
42	0	0	0	0	0	1	0	0	1.77
43	0	0	0	1	0	0	0	0	0.12
44	0	0	0	1	0	0	0	0	0.10
45	0	0	0	0	0	0	0	0	0.00
46	0	0	0	0	0	0	0	0	5.05
47	0	0	0	1	0	1	0	0	0.77
48	0	0	0	1	0	0	0	0	0.00
49	0	0	0	0	0	0	0	0	1.85
50	0	0	0	0	0	0	0	0	0.00
51	0	0	0	1	0	0	0	0	0.00
52	0	0	0	1	0	0	0	0	0.00
53	0	0	0	0	0	0	0	0	0.12
54	0	0	0	1	0	0	0	0	0.12
55	0	0	0	1	0	0	0	0	1.12
56	0	0	0	1	0	0	0	0	0.90
57	0	0	1	1	0	0	0	0	0.00
58	0	0	0	1	0	0	0	0	0.00
59	0	0	0	1	0	0	0	0	0.00
60	0	0	0	1	0	0	0	0	0.41

1									
2									
3	0	0	0	1	0	0	0	0	1.25
4	0	1	0	1	0	0	0	0	0.00
5	0	1	0	1	0	0	0	0	0.58
6	0	0	0	1	0	0	0	0	0.00
7	0	0	0	1	0	0	0	0	2.68
8	0	0	0	1	0	0	0	0	0.00
9	0	0	0	1	0	0	0	0	0.00
10	1	0	0	1	0	0	0	1	5.11
11	0	0	0	0	0	0	0	0	4.30
12	1	0	0	0	0	0	0	1	4.75
13	0	0	0	0	0	0	0	0	0.00
14	0	0	0	0	0	0	0	0	0.00
15	0	0	0	0	0	0	0	0	0.29
16	0	0	0	1	0	0	0	0	0.00
17	0	0	0	1	0	0	0	0	0.00
18	0	0	0	1	0	0	0	0	0.00
19	0	0	0	1	0	0	0	0	0.05
20	0	0	0	1	0	0	0	0	0.38
21	0	0	0	0	0	0	0	0	0.00
22	0	0	0	0	0	0	0	0	0.00
23	0	0	0	0	0	0	0	0	0.00
24	0	0	0	1	0	0	0	0	0.00
25	0	0	0	1	0	0	0	0	0.00
26	0	0	0	1	0	0	0	0	0.00
27	1	0	0	1	0	0	0	0	0.31
28	0	0	0	1	0	0	0	0	0.00
29	0	0	0	0	0	0	0	0	0.00
30	0	0	0	1	0	0	0	0	0.00
31	0	0	0	0	0	0	0	0	0.00
32	0	0	0	1	0	1	0	0	3.55
33	0	0	0	1	0	0	0	0	2.30
34	0	0	0	1	0	0	0	0	0.58
35	0	0	0	1	0	0	0	0	0.00
36	0	0	0	0	0	0	0	0	0.00
37	0	0	0	1	0	0	0	0	0.00
38	0	0	0	1	0	0	0	0	0.00
39	0	0	0	1	0	0	0	0	8.11
40	0	0	0	1	0	0	0	0	0.28
41	0	0	0	0	0	0	0	0	0.00
42	0	0	0	1	0	1	0	0	1.01
43	0	0	0	0	0	0	0	0	0.00
44	0	0	0	1	0	0	0	0	0.00
45	0	0	0	0	0	0	0	0	0.00
46	0	0	0	0	0	0	0	0	0.00
47	0	0	0	1	0	0	0	0	0.00
48	0	0	0	1	0	0	0	0	0.00
49	0	0	0	0	0	0	0	0	0.00
50	0	0	0	0	0	0	0	0	0.00
51	0	0	0	0	0	0	0	0	0.00
52	0	0	0	0	0	0	0	0	0.00
53	0	0	0	1	0	0	0	0	0.67
54	0	0	0	1	0	1	0	0	6.73
55	0	0	0	1	0	0	0	0	0.00
56	0	0	0	1	0	1	0	0	0.29
57	0	0	0	0	0	0	0	0	0.00
58	0	0	0	1	0	0	0	0	0.00
59	0	0	0	1	0	0	0	0	0.99
60	0	0	0	1	0	0	0	0	4.95

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2									
3	0	0	0	1	0	0	0	0	0.00
4	0	0	0	0	0	0	0	0	0.00
5	0	0	0	1	0	0	0	0	0.00
6	0	0	0	0	0	0	0	0	0.16
7	0	0	0	1	0	0	0	0	0.00
8	0	0	0	1	0	0	0	0	8.48
9	0	1	0	0	0	0	0	0	4.63
10	0	0	0	0	0	0	0	0	0.10
11	0	0	0	1	0	0	0	0	4.44
12	0	1	0	1	0	0	0	0	2.78
13	0	0	0	1	0	0	0	0	1.07
14	0	0	0	1	0	1	0	0	0.00
15	0	0	0	1	0	0	0	0	0.00
16	0	0	0	1	0	0	0	0	0.58
17	0	0	0	0	0	0	0	0	0.00
18	0	0	0	1	0	0	0	0	0.00
19	0	0	0	0	0	0	0	0	0.11
20	0	0	0	1	0	0	0	0	0.27
21	1	0	0	0	0	0	0	0	0.00
22	0	0	0	0	0	0	0	0	0.00
23	0	0	0	0	0	0	0	0	0.00
24	1	1	0	1	0	0	0	0	1.44
25	0	0	0	1	0	0	0	0	0.00
26	0	0	0	1	0	0	0	0	0.00
27	0	0	0	1	0	0	0	0	0.38
28	0	0	0	0	0	0	0	0	0.82
29	0	0	0	1	0	1	0	0	3.64
30	0	0	0	0	0	0	0	0	0.62
31	0	0	0	0	0	0	0	0	0.00
32	0	0	0	0	0	0	0	0	0.06
33	0	0	0	0	0	0	0	0	5.37
34	0	0	0	0	0	0	0	0	0.25
35	0	0	0	1	0	0	0	0	1.15
36	0	0	0	0	0	0	0	0	0.00
37	0	0	0	0	0	0	0	0	0.00
38	0	0	0	0	0	0	0	0	0.00
39	0	1	0	1	0	0	0	0	0.00
40	0	0	0	0	0	0	0	0	0.00
41	0	0	0	0	0	0	0	0	0.00
42	0	0	0	1	0	0	0	0	1.53
43	0	0	0	1	0	0	0	0	1.78
44	0	0	0	1	0	0	0	0	0.00
45	0	0	0	1	0	0	0	0	0.00
46	0	1	0	1	0	0	0	0	0.38
47	0	0	0	1	0	0	0	0	1.26
48	1	0	0	1	0	0	0	0	5.32
49	0	0	0	0	0	0	0	0	0.00
50	0	0	0	1	0	0	0	0	0.00
51	0	0	0	1	0	0	0	0	0.00
52	0	0	0	0	0	0	0	0	0.00
53	0	0	0	0	0	0	0	0	0.00
54	0	0	0	1	0	1	0	0	14.40
55	0	0	0	0	0	0	0	0	0.00
56	0	0	0	0	0	0	0	0	0.00
57	0	0	0	0	0	0	0	0	0.99
58	0	0	0	1	0	0	0	0	0.12
59	0	0	0	1	0	0	0	0	1.40
60	1	0	0	1	0	0	0	1	7.00

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3	0	0	0	1	0	0	0	0	0.96
4	0	0	0	1	0	0	0	0	0.00
5	0	0	0	1	0	0	0	0	4.01
6	0	0	0	0	0	0	0	0	0.00
7	0	0	0	1	0	0	0	0	0.77
8	0	0	0	0	0	0	0	0	0.00
9	0	0	0	1	0	0	0	0	0.00
10	0	0	0	1	0	0	0	0	0.23
11	0	0	0	1	0	0	0	0	1.88
12	0	0	0	1	0	0	0	0	0.00
13	0	0	0	1	0	0	0	0	0.00
14	0	0	0	1	0	0	0	0	0.33
15	0	0	0	1	0	0	0	0	1.47
16	0	0	0	1	0	0	0	0	0.12
17	0	0	0	0	0	0	0	0	0.00
18	0	0	0	1	0	0	0	0	0.16
19	0	0	0	1	0	0	0	0	0.29
20	0	0	0	0	0	0	0	0	0.08
21	0	0	0	0	0	0	0	0	0.00
22	1	1	0	1	0	1	0	0	10.36
23	0	0	0	1	0	0	0	0	0.00
24	0	0	0	1	0	0	0	0	0.17
25	0	0	0	1	0	0	0	0	0.00
26	0	0	0	1	0	0	0	0	0.00
27	0	0	0	1	0	0	0	0	0.00
28	0	0	0	1	0	0	0	0	3.32
29	0	0	0	0	0	0	0	0	0.00
30	0	0	0	0	0	0	0	0	0.00
31	0	0	0	1	0	0	0	0	5.37
32	0	0	0	1	0	0	0	0	0.00
33	0	0	0	0	0	0	0	0	0.67
34	0	0	0	1	0	1	0	0	1.52
35	0	0	0	1	0	0	0	0	0.12
36	0	0	0	0	0	0	0	0	0.19
37	0	0	0	0	0	0	0	0	3.16
38	0	0	0	1	0	0	0	0	0.00
39	0	0	0	1	0	0	0	0	0.12
40	0	0	0	1	0	1	0	0	5.18
41	0	1	0	1	0	1	0	0	4.60
42	0	0	0	1	0	0	0	0	4.34
43	0	0	0	0	0	0	0	0	0.00
44	0	0	0	1	0	0	0	0	1.92
45	0	0	0	0	0	1	0	0	0.00
46	0	0	0	1	0	0	0	0	0.38
47	0	0	0	1	0	0	0	0	1.56
48	0	0	0	1	0	0	0	0	0.52
49	0	0	0	0	0	0	0	0	0.00
50	0	0	0	0	0	0	0	0	0.00
51	0	0	1	1	0	0	0	0	0.00
52	0	0	0	1	0	0	0	0	2.29
53	0	1	0	1	0	0	0	0	0.18
54	0	0	0	0	0	0	0	0	1.93
55	0	0	0	1	0	0	0	0	0.00
56	1	0	0	1	0	0	0	0	0.08
57	0	0	0	1	0	0	0	0	0.16
58	0	0	0	1	0	0	0	0	0.00
59	0	0	0	1	0	0	0	0	0.00
60	0	1	0	1	0	0	0	0	1.67

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3	1	0	0	0	0	0	0	0	0.00
4	0	0	0	1	0	0	0	0	1.53
5	0	0	0	1	0	0	0	0	0.12
6	0	0	0	1	0	0	0	0	17.82
7	0	0	0	0	0	0	1	0	8.84
8	0	0	0	1	0	0	0	0	3.84
9									
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For peer review only

	Steroid ,Y/IMMF	Immunosup	CO-1Y	CO-2Y	PM25-1Y	PM2.5-2Y	PM10-1Y	PM10-2Y	
1	1	0	1	0.46	0.46	2.27	2.41	3.94	4.28
2	0	0	0	0.85	0.87	3.00	3.16	4.57	4.81
3	1	0	0	0.37	0.37	4.02	4.02	6.54	6.41
4	1	0	1	0.45	0.46	2.77	3.00	4.85	5.19
5	1	0	1	0.61	0.63	3.76	3.83	6.71	6.59
6	1	0	1	0.35	0.36	3.22	3.53	6.70	7.03
7	1	0	1	0.54	0.55	2.48	2.50	5.01	5.08
8	1	0	1	0.52	0.53	2.32	2.55	3.96	4.46
9	0	0	0	0.44	0.44	4.05	4.06	7.13	7.16
10	1	0	0	0.58	0.59	4.22	4.40	6.50	7.01
11	0	0	0	0.64	0.63	2.38	2.50	5.57	5.63
12	0	1	1	0.34	0.33	3.28	3.33	6.06	6.04
13	1	0	0	0.56	0.56	2.65	2.65	4.10	4.11
14	1	0	0	0.65	0.67	4.48	4.58	8.12	8.34
15	1	0	1	0.41	0.41	2.53	2.53	4.62	4.64
16	1	0	0	0.52	0.52	2.84	2.84	4.62	4.62
17	1	1	1	0.46	0.46	3.77	3.77	5.74	5.74
18	1	0	0	0.39	0.39	4.40	4.40	6.72	6.72
19	1	0	0	0.84	0.86	2.76	2.98	4.56	4.90
20	1	0	0	0.53	0.53	3.64	3.64	5.82	5.83
21	1	0	1	0.45	0.47	3.50	3.66	5.31	5.56
22	1	0	1	0.40	0.40	4.41	4.42	7.13	7.14
23	1	0	0	0.39	0.39	3.20	3.23	5.21	5.27
24	1	0	1	0.42	0.43	4.46	4.48	7.38	7.43
25	1	0	1	0.62	0.63	3.73	4.12	6.64	7.02
26	1	0	0	0.39	0.39	1.71	1.71	3.00	3.01
27	1	0	0	0.44	0.44	3.93	3.95	6.57	6.59
28	0	0	0	0.50	0.54	3.19	3.56	5.12	5.67
29	1	0	0	0.38	0.38	3.42	3.47	7.70	7.40
30	1	0	1	0.55	0.55	2.83	2.83	5.52	5.54
31	1	0	0	0.45	0.46	2.20	2.41	3.87	4.32
32	1	0	0	0.36	0.37	2.03	2.07	3.51	3.62
33	1	0	1	0.39	0.39	3.58	3.58	5.84	5.84
34	1	0	0	0.38	0.38	3.06	3.06	5.02	5.02
35	1	0	1	0.54	0.56	2.35	2.67	3.75	4.26
36	0	0	0	0.35	0.35	3.07	3.39	5.32	5.79
37	0	0	0	0.85	0.86	3.05	3.15	4.65	4.79
38	1	0	0	0.59	0.57	2.84	2.60	4.42	4.08
39	1	0	0	0.36	0.36	2.87	3.21	4.81	5.28
40	1	0	0	0.52	0.52	2.82	2.81	4.57	4.58
41	1	0	1	0.41	0.42	4.22	4.40	7.21	7.51
42	1	0	0	0.35	0.34	3.57	3.75	5.99	6.31
43	1	0	0	0.40	0.40	3.83	3.84	7.09	7.10
44	1	1	1	0.37	0.37	3.83	3.83	7.59	7.60
45	0	0	0	0.41	0.41	2.49	2.49	4.52	4.57
46	1	0	0	1.54	1.54	3.47	3.47	5.35	5.37
47	0	0	0	0.62	0.62	3.06	3.05	5.08	5.08
48	1	0	0	0.40	0.40	3.13	3.13	5.01	5.01
49	1	0	0	0.58	0.56	2.63	2.50	4.28	4.06
50	0	0	0	0.63	0.63	2.55	2.62	5.38	5.55
51	1	0	0	0.44	0.45	3.90	4.15	6.66	7.01
52	1	0	0	0.58	0.59	4.18	4.37	6.43	6.93
53	1	1	1	0.34	0.33	3.30	3.29	6.73	6.25
54	0	0	0	0.62	0.62	2.67	2.67	5.78	5.78
55	1	0	1	0.45	0.45	3.32	3.55	6.42	6.63

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3	0	0	0	0.36	0.36	2.06	2.07	3.79	3.81
4	1	1	1	0.37	0.37	3.84	3.85	7.45	7.47
5	1	0	1	0.58	0.62	4.20	4.77	6.83	7.71
6	0	0	0	0.38	0.40	4.15	4.35	6.40	6.68
7	1	0	0	0.65	0.65	4.53	4.53	8.25	8.25
8	1	0	0	0.39	0.39	3.19	3.51	6.45	6.76
9	1	0	0	0.40	0.43	2.97	3.31	4.68	5.23
10	1	0	0	0.46	0.46	3.77	3.77	5.74	5.75
11	1	0	1	0.40	0.40	2.53	2.83	4.12	4.56
12	0	0	0	0.33	0.32	3.22	3.37	5.85	6.07
13	1	0	1	0.60	0.61	2.46	2.75	4.06	4.40
14	1	0	0	0.40	0.40	3.06	3.08	4.83	4.90
15	1	0	0	0.50	0.50	3.21	3.35	5.39	5.71
16	1	0	0	0.63	0.63	2.38	2.53	4.93	5.27
17	1	0	0	0.60	0.60	4.59	4.59	7.53	7.54
18	1	0	1	0.39	0.39	4.38	4.40	6.70	6.72
19	1	0	1	0.40	0.40	4.03	4.38	6.68	7.14
20	1	0	0	0.46	0.49	3.08	3.35	4.93	5.35
21	0	0	0	0.55	0.55	2.60	2.60	5.24	5.24
22	1	0	0	0.41	0.40	3.13	3.01	5.34	5.15
23	1	0	1	0.60	0.61	2.62	2.75	4.49	4.61
24	1	0	0	1.47	1.50	3.02	3.25	5.02	5.19
25	1	0	0	0.50	0.53	2.35	2.61	3.87	4.29
26	1	0	0	0.29	0.30	3.25	3.38	5.40	5.73
27	1	0	1	0.62	0.62	3.06	3.06	5.09	5.09
28	1	0	0	0.53	0.54	4.21	4.21	7.79	7.80
29	1	0	0	0.54	0.55	2.24	2.44	3.65	3.86
30	0	0	0	0.38	0.38	2.99	3.27	4.70	5.09
31	1	0	0	0.68	0.65	2.50	2.45	5.53	5.43
32	1	0	0	0.33	0.34	1.80	1.99	3.05	3.22
33	1	0	1	0.43	0.43	3.27	3.53	6.53	6.73
34	1	1	1	0.85	0.86	2.77	2.90	4.73	4.81
35	1	0	0	0.38	0.38	2.13	2.13	3.71	3.71
36	1	0	0	0.36	0.36	2.92	3.26	5.14	5.58
37	1	0	0	0.55	0.55	2.57	2.57	5.18	5.20
38	0	0	0	0.43	0.43	3.78	3.82	6.91	6.98
39	1	0	0	0.40	0.39	3.69	4.03	5.95	6.31
40	1	0	0	0.60	0.61	4.58	4.60	7.50	7.56
41	0	0	0	0.61	0.62	2.94	2.97	4.83	4.90
42	1	1	1	0.44	0.44	2.49	2.49	4.29	4.30
43	1	0	1	0.60	0.61	2.47	2.75	4.08	4.39
44	1	0	0	0.46	0.46	3.75	3.76	5.71	5.73
45	1	0	1	0.59	0.59	3.80	4.21	6.76	7.08
46	0	0	0	0.42	0.42	3.62	3.62	5.65	5.65
47	1	0	0	0.49	0.50	2.71	2.96	5.24	5.48
48	1	0	0	0.95	0.95	3.35	3.35	5.12	5.12
49	1	0	0	0.56	0.56	2.65	2.65	4.10	4.10
50	1	0	0	0.60	0.60	4.58	4.60	7.51	7.55
51	0	0	0	1.44	1.48	2.83	3.10	5.40	5.57
52	1	0	1	0.50	0.50	3.71	4.01	6.94	7.17
53	1	0	1	0.37	0.37	3.49	3.49	5.71	5.72
54	0	0	1	0.35	0.37	1.75	1.93	3.07	3.32
55	1	0	1	0.84	0.85	2.79	2.99	4.39	4.63
56	1	0	0	0.42	0.45	3.24	3.51	5.08	5.48
57	1	0	0	0.54	0.54	2.30	2.44	4.18	4.69
58	1	0	0	0.45	0.46	2.68	2.95	4.83	5.16

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3	1	0	0	0.56	0.56	2.84	2.84	4.46	4.51
4	1	1	1	0.44	0.45	4.59	4.66	7.28	7.43
5	1	0	1	0.62	0.62	3.00	2.99	4.95	4.97
6	1	0	0	0.47	0.46	3.32	3.25	5.31	5.13
7	1	0	0	0.41	0.43	2.98	3.06	5.07	5.19
8	1	0	0	0.63	0.63	2.63	2.63	5.50	5.54
9	0	0	0	0.95	0.95	3.36	3.36	5.13	5.13
10	1	0	1	0.47	0.46	3.25	3.18	5.26	5.12
11	1	0	0	0.38	0.38	2.81	2.86	4.61	4.71
12	1	0	0	0.36	0.37	1.76	1.93	3.08	3.31
13	0	0	0	0.52	0.53	3.57	3.61	5.61	5.67
14	0	0	0	0.84	0.85	2.79	2.99	4.39	4.63
15	1	0	1	0.41	0.43	2.98	3.30	4.89	5.33
16	1	0	0	0.42	0.42	3.62	3.62	5.64	5.64
17	1	0	1	0.41	0.40	2.55	2.82	4.17	4.53
18	0	0	0	0.54	0.55	3.48	3.55	6.15	6.22
19	1	0	1	0.48	0.48	2.47	2.47	5.45	5.46
20	1	0	1	0.45	0.46	4.44	4.44	7.56	7.56
21	1	0	1	0.40	0.40	3.12	3.12	4.96	4.99
22	1	0	0	0.94	0.96	2.99	3.25	4.63	4.99
23	1	0	1	0.35	0.35	3.12	3.43	5.43	5.89
24	1	0	0	0.37	0.37	2.52	2.80	4.14	4.60
25	1	0	0	0.52	0.52	3.63	3.63	5.76	5.76
26	1	0	0	0.48	0.48	2.48	2.48	5.47	5.47
27	1	1	1	0.59	0.60	2.60	2.81	4.22	4.53
28	1	0	1	0.41	0.41	2.55	2.88	4.02	4.49
29	1	0	1	0.87	0.89	2.91	3.13	4.71	5.09
30	1	0	0	1.48	1.50	3.06	3.13	5.23	5.10
31	1	0	0	0.54	0.56	3.40	3.45	5.57	5.65
32	1	0	0	0.63	0.64	3.81	4.17	7.40	7.82
33	1	0	0	0.58	0.59	4.17	4.37	6.43	6.92
34	1	0	1	0.37	0.37	3.79	3.84	7.03	7.11
35	0	0	0	0.52	0.53	2.32	2.53	3.81	4.10
36	1	0	1	0.51	0.53	3.06	3.28	5.12	5.42
37	1	0	0	0.41	0.40	3.68	3.98	6.49	6.67
38	0	0	0	0.84	0.85	2.79	2.85	4.50	4.46
39	1	0	1	0.52	0.53	4.53	4.60	7.24	7.37
40	1	0	0	0.44	0.44	4.60	4.66	7.30	7.42
41	1	0	0	0.58	0.59	4.21	4.40	6.49	7.01
42	1	0	1	1.44	1.48	2.84	3.10	5.42	5.57
43	1	0	0	0.53	0.53	3.63	3.64	5.81	5.82
44	1	0	0	0.53	0.53	4.21	4.21	7.79	7.80
45	1	0	1	0.40	0.39	3.69	4.02	5.95	6.30
46	1	0	0	0.52	0.56	4.16	4.69	6.82	7.63
47	1	0	1	0.44	0.44	4.65	4.66	7.38	7.41
48	1	0	1	0.38	0.39	4.32	4.38	6.63	6.72
49	1	0	0	0.43	0.47	4.53	5.05	7.19	7.99
50	1	0	0	0.46	0.46	3.76	3.77	5.73	5.74
51	1	0	1	0.87	0.87	3.20	3.19	5.22	5.23
52	1	0	0	0.40	0.40	3.13	3.13	5.01	5.01
53	1	0	1	0.46	0.46	3.77	3.77	5.74	5.74
54	1	0	1	0.45	0.46	4.35	4.50	7.40	7.67
55	1	0	1	0.65	0.67	4.46	4.59	8.08	8.37
56	1	0	0	0.57	0.58	3.84	4.24	6.80	7.07
57	0	0	0	0.46	0.46	2.26	2.41	3.94	4.28
58	0	0	0	0.62	0.62	3.05	3.05	4.75	4.75

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3	1	0	1	0.42	0.41	2.82	2.70	4.51	4.29
4	1	0	1	0.60	0.61	2.62	2.84	4.35	4.71
5	1	0	0	0.34	0.34	1.86	1.83	3.44	3.39
6	1	0	0	1.51	1.52	3.35	3.35	5.71	5.73
7	1	0	0	1.51	1.52	3.32	3.33	5.66	5.70
8	1	0	0	0.54	0.54	2.28	2.44	4.18	4.71
9	1	0	0	1.00	1.03	2.54	2.79	4.62	4.86
10	1	0	0	0.55	0.55	2.60	2.60	5.25	5.25
11	0	0	0	0.38	0.39	2.98	3.01	4.63	4.74
12	1	0	0	0.54	0.54	2.77	2.77	4.43	4.43
13	1	0	0	0.62	0.62	3.04	3.04	4.74	4.74
14	1	0	1	1.00	1.00	3.02	3.02	5.13	5.13
15	1	0	0	1.01	1.04	2.50	2.80	4.49	4.85
16	0	0	0	0.37	0.38	3.30	3.54	7.32	7.46
17	0	0	0	0.27	0.27	3.24	3.29	5.05	5.19
18	1	0	0	0.52	0.53	3.15	3.37	5.19	5.61
19	0	0	0	0.45	0.46	3.67	3.72	5.55	5.66
20	1	1	1	0.42	0.42	3.93	3.96	6.39	6.43
21	1	0	0	0.53	0.54	2.28	2.44	4.18	4.71
22	1	0	0	0.60	0.61	4.58	4.61	7.49	7.56
23	1	0	0	0.30	0.30	2.77	3.02	5.23	5.39
24	0	0	0	0.60	0.61	2.47	2.75	4.07	4.40
25	1	0	1	0.61	0.62	2.97	2.98	4.88	4.93
26	1	1	1	0.52	0.52	2.84	2.84	4.62	4.62
27	1	0	1	0.36	0.39	1.84	2.05	3.10	3.46
28	1	0	0	0.62	0.62	3.06	3.06	5.09	5.09
29	1	0	1	0.62	0.63	3.81	3.96	7.43	7.52
30	0	0	0	0.32	0.32	3.47	3.70	5.98	6.34
31	0	0	0	0.44	0.44	4.66	4.66	7.40	7.40
32	1	0	1	0.88	0.88	3.20	3.20	5.24	5.24
33	1	0	1	0.55	0.56	2.64	2.64	4.09	4.10
34	1	0	0	0.38	0.39	3.70	3.82	7.42	7.72
35	1	0	0	0.84	0.86	2.77	2.98	4.56	4.89
36	1	0	0	0.46	0.46	3.74	4.05	7.26	7.52
37	0	0	0	0.67	0.65	2.52	2.53	5.56	5.47
38	0	0	0	0.60	0.60	2.65	2.65	4.35	4.36
39	1	0	0	1.43	1.45	3.11	2.98	5.75	5.52
40	1	0	0	0.61	0.62	3.69	4.03	6.77	6.97
41	1	0	0	0.40	0.43	3.48	4.05	5.50	6.30
42	1	0	0	0.45	0.47	3.43	3.63	5.37	5.67
43	0	0	0	0.45	0.47	4.29	4.47	7.37	7.67
44	1	1	1	0.50	0.51	2.32	2.54	3.91	4.24
45	0	0	0	0.86	0.88	2.81	3.06	4.60	4.99
46	0	0	1	0.50	0.50	3.43	3.43	5.76	5.76
47	1	0	1	0.52	0.55	2.38	2.63	3.76	4.20
48	1	0	1	0.40	0.40	3.21	3.50	6.66	6.84
49	1	0	1	0.86	0.86	3.25	3.25	4.99	5.00
50	0	0	0	0.46	0.46	3.70	3.73	5.60	5.68
51	1	0	0	0.49	0.50	2.73	2.96	5.29	5.48
52	1	0	0	0.29	0.29	3.34	3.35	5.66	5.69
53	0	0	0	0.35	0.36	1.79	1.96	3.35	3.59
54	1	0	1	0.45	0.47	3.21	3.60	5.13	5.68
55	1	0	1	0.49	0.49	2.26	2.47	3.76	4.10
56	1	1	1	0.51	0.52	4.20	3.99	6.55	6.82
57	1	0	0	0.64	0.64	2.97	2.95	4.64	4.65
58	1	0	1	0.35	0.35	1.50	1.51	3.42	3.45

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3	1	0	1	0.95	0.95	3.34	3.33	5.09	5.10
4	1	0	0	0.34	0.34	3.86	3.88	6.89	6.94
5	1	0	0	0.83	0.85	2.79	3.02	4.34	4.66
6	1	1	1	0.43	0.43	2.29	2.29	3.58	3.58
7	1	0	0	0.44	0.42	3.22	3.10	5.18	4.93
8	1	0	0	0.84	0.85	2.79	3.00	4.37	4.64
9	1	0	0	0.63	0.64	3.81	4.17	7.40	7.82
10	1	0	1	1.48	1.50	3.04	3.18	5.17	5.13
11	1	1	1	0.49	0.49	2.23	2.27	5.49	5.36
12	0	0	0	0.44	0.44	4.65	4.66	7.39	7.40
13	1	0	0	0.43	0.43	3.81	3.82	6.96	6.97
14	0	0	0	0.43	0.45	4.50	4.65	7.16	7.43
15	1	0	1	0.38	0.38	3.12	3.12	5.05	5.05
16	1	0	0	0.46	0.46	3.62	3.63	5.77	5.77
17	0	0	0	0.63	0.64	3.79	4.15	6.54	7.04
18	1	0	1	0.45	0.46	3.77	3.81	6.81	6.88
19	1	0	0	0.40	0.42	2.21	2.43	4.05	4.46
20	1	0	0	0.84	0.86	2.76	2.98	4.55	4.90
21	0	0	0	0.40	0.39	3.69	4.04	5.95	6.33
22	1	0	1	0.44	0.45	4.51	4.52	7.77	7.79
23	1	0	0	0.39	0.39	4.40	4.40	6.72	6.72
24	1	0	0	0.34	0.34	3.02	3.01	4.65	4.73
25	1	0	0	0.42	0.45	3.90	4.48	6.55	7.31
26	1	0	0	0.43	0.43	3.81	4.23	6.76	7.08
27	0	0	0	0.39	0.40	4.03	4.12	7.02	7.17
28	1	0	1	0.51	0.51	2.33	2.48	4.01	4.16
29	1	0	0	0.62	0.62	3.05	3.04	5.06	5.07
30	1	0	1	0.48	0.48	2.93	2.98	5.35	5.29
31	0	0	0	0.61	0.62	2.95	2.95	4.53	4.59
32	1	0	0	0.84	0.86	2.77	2.98	4.57	4.89
33	1	0	0	0.44	0.44	4.66	4.66	7.40	7.40
34	1	0	1	0.41	0.42	3.92	4.11	6.58	6.73
35	1	1	1	0.34	0.35	1.69	1.87	3.27	3.51
36	1	0	0	0.40	0.40	2.56	2.84	4.35	4.78
37	1	0	1	0.36	0.35	3.40	3.38	7.58	7.08
38	0	0	0	0.38	0.38	3.42	3.47	7.72	7.40
39	0	0	0	0.40	0.41	2.20	2.26	3.30	3.39
40	1	0	1	0.33	0.35	1.93	2.01	3.51	3.68
41	1	0	0	0.56	0.56	2.47	2.65	5.02	5.26
42	0	0	0	0.54	0.54	2.28	2.44	4.18	4.71
43	1	0	1	0.43	0.43	3.03	3.25	5.07	5.28
44	1	0	1	0.43	0.43	4.13	4.13	7.34	7.35
45	1	0	1	0.42	0.42	3.27	3.54	6.49	6.73
46	0	0	0	0.29	0.29	2.80	3.12	5.12	5.48
47	1	1	1	0.61	0.62	2.98	2.97	4.58	4.62
48	1	0	1	0.87	0.87	3.12	3.12	5.04	5.10
49	1	0	0	0.49	0.50	3.13	3.31	5.12	5.32
50	1	0	1	0.41	0.41	4.42	4.44	6.73	6.76
51	1	0	0	0.49	0.52	3.29	3.64	5.48	5.97
52	0	0	0	0.44	0.44	4.65	4.66	7.39	7.40
53	1	0	1	0.95	0.95	3.35	3.35	5.11	5.12
54	1	0	0	0.93	0.95	2.91	3.18	4.54	4.88
55	1	0	0	0.37	0.37	3.81	3.84	7.40	7.47
56	1	0	0	0.41	0.41	3.81	3.83	7.04	7.07
57	0	0	0	0.55	0.55	2.85	2.85	5.57	5.57
58	1	0	1	0.52	0.53	3.81	4.01	7.11	7.45

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3	1	0	0	0.94	0.94	2.90	3.08	4.56	4.75
4	1	0	0	0.42	0.40	3.24	3.15	5.45	5.30
5	1	0	0	0.43	0.43	4.13	4.14	7.34	7.35
6	0	0	1	0.40	0.40	3.74	3.70	5.46	5.64
7	1	0	1	0.43	0.43	2.52	2.52	4.13	4.14
8	1	0	0	0.37	0.37	3.76	3.84	7.32	7.46
9	0	0	0	0.51	0.53	3.04	3.28	5.10	5.42
10	1	0	0	0.49	0.49	2.31	2.25	5.62	5.35
11	1	0	0	0.52	0.53	3.83	4.00	7.07	7.35
12	1	0	0	0.40	0.41	2.11	2.35	3.77	4.21
13	0	0	0	0.41	0.41	1.80	2.01	2.89	3.12
14	1	0	1	0.44	0.44	3.34	3.52	6.52	6.62
15	1	0	0	0.44	0.44	3.79	3.81	6.89	6.93
16	1	0	0	0.19	0.19	1.68	1.67	3.12	3.00
17	1	0	1	0.49	0.51	3.16	3.40	5.06	5.44
18	0	0	0	0.86	0.87	3.08	3.11	4.96	5.06
19	0	0	0	0.44	0.44	3.46	3.45	6.70	6.57
20	1	0	0	1.44	1.46	3.01	3.01	5.73	5.53
21	1	0	1	0.60	0.62	2.60	2.86	4.29	4.72
22	0	0	1	0.62	0.62	3.01	3.01	4.98	5.00
23	1	0	0	0.31	0.31	3.76	3.76	6.66	6.67
24	1	0	1	0.52	0.53	2.33	2.48	3.90	4.04
25	1	0	0	0.29	0.29	3.35	3.38	5.63	5.70
26	1	0	0	0.38	0.38	3.83	3.84	7.73	7.74
27	1	0	1	1.01	1.03	2.52	2.79	4.56	4.86
28	1	0	1	0.52	0.53	2.33	2.50	3.87	4.06
29	1	0	0	1.00	1.00	3.00	3.00	5.09	5.10
30	1	0	1	0.44	0.45	3.74	4.00	6.83	7.06
31	1	0	1	0.39	0.40	4.11	4.13	7.42	7.48
32	1	0	1	0.40	0.40	4.40	4.40	6.68	6.69
33	0	0	0	0.29	0.30	3.31	3.56	5.87	6.35
34	1	0	1	0.93	0.94	2.90	3.12	4.48	4.80
35	1	0	1	0.93	0.94	2.90	3.12	4.49	4.79
36	1	0	0	1.47	1.50	3.02	3.25	5.02	5.19
37	1	0	0	0.41	0.40	3.20	3.08	4.22	4.14
38	1	0	0	0.39	0.39	4.39	4.40	6.71	6.72
39	1	0	1	0.48	0.49	3.56	3.60	5.71	5.76
40	1	0	0	0.55	0.55	2.46	2.66	4.99	5.28
41	0	0	0	0.57	0.57	2.91	2.91	4.64	4.64
42	0	0	0	0.83	0.85	2.79	3.02	4.34	4.66
43	1	0	1	0.47	0.50	3.08	3.36	4.97	5.36
44	1	0	1	0.94	0.96	3.05	3.26	4.69	4.99
45	1	0	1	0.34	0.35	1.79	1.96	3.44	3.70
46	1	0	1	0.56	0.57	2.71	2.77	4.21	4.39
47	1	0	0	0.50	0.50	2.60	2.63	4.31	4.35
48	1	0	1	0.55	0.55	3.64	3.65	5.91	5.93
49	1	0	1	0.38	0.40	3.22	3.76	6.34	7.13
50	1	0	1	0.83	0.85	2.79	3.02	4.34	4.66
51	1	1	1	0.47	0.50	3.09	3.38	4.94	5.42
52	0	0	0	0.56	0.56	2.90	2.90	4.62	4.63
53	1	0	0	0.55	0.55	2.84	2.84	5.55	5.56
54	1	0	0	0.88	0.88	3.20	3.20	5.24	5.25
55	1	0	1	0.52	0.52	2.46	2.40	3.96	3.85
56	0	0	0	0.66	0.67	4.46	4.54	7.43	7.62
57	1	0	1	0.44	0.45	3.76	4.01	6.86	7.08
58	1	0	0	0.84	0.86	2.77	2.97	4.60	4.87

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3	1	0	0	0.54	0.54	2.78	2.78	4.43	4.44
4	1	0	1	0.27	0.27	3.33	3.33	5.25	5.26
5	1	0	0	0.59	0.60	2.60	2.79	4.24	4.52
6	1	0	0	0.54	0.55	2.31	2.44	4.19	4.68
7	1	1	1	0.86	0.85	2.84	2.80	4.83	4.67
8	1	0	1	0.55	0.55	3.65	3.65	5.93	5.93
9	0	0	0	0.76	0.78	2.40	2.66	4.02	4.28
10	0	0	0	0.43	0.43	2.28	2.28	3.55	3.57
11	1	0	0	0.48	0.50	3.10	3.34	5.01	5.32
12	1	0	1	0.93	0.94	2.90	3.12	4.49	4.79
13	1	0	1	0.61	0.63	3.76	3.82	6.69	6.58
14	0	0	0	0.37	0.37	2.12	2.12	3.77	3.78
15	1	0	0	0.40	0.40	3.19	3.21	4.93	4.96
16	1	1	1	0.53	0.53	4.54	4.59	7.25	7.36
17	1	0	1	0.66	0.67	4.47	4.53	7.47	7.59
18	1	0	0	0.45	0.47	2.83	3.13	4.89	5.24
19	1	1	1	0.45	0.46	3.56	3.60	5.66	5.71
20	1	0	0	0.80	0.79	2.96	2.96	4.65	4.65
21	0	0	1	0.38	0.38	3.03	3.04	4.96	4.98
22	1	0	0	0.76	0.78	2.37	2.67	3.95	4.30
23	1	0	1	0.61	0.63	3.76	3.83	6.71	6.59
24	0	0	0	0.37	0.39	3.33	3.67	5.99	6.60
25	0	0	0	0.43	0.43	3.81	4.23	6.76	7.07
26	0	0	0	0.33	0.33	1.83	1.95	3.35	3.62
27	1	0	0	0.86	0.86	3.26	3.26	5.00	5.00
28	1	0	1	0.41	0.41	1.83	2.04	2.88	3.16
29	1	0	0	0.93	0.95	2.57	2.82	4.54	4.83
30	1	0	1	0.44	0.44	3.80	3.81	6.90	6.92
31	1	0	1	0.80	0.80	2.96	2.96	4.65	4.65
32	1	0	0	0.49	0.49	2.26	2.47	3.75	4.11
33	0	0	0	0.40	0.41	2.23	2.25	3.38	3.41
34	1	0	0	1.00	1.00	3.02	3.02	5.13	5.13
35	1	0	1	1.44	1.47	2.87	3.09	5.50	5.56
36	1	0	1	0.34	0.34	2.08	2.08	3.88	3.89
37	1	0	0	0.50	0.50	3.42	3.42	5.74	5.75
38	1	0	0	0.38	0.38	2.80	2.72	4.72	4.58
39	1	0	0	0.54	0.55	3.44	3.47	5.64	5.68
40	0	0	0	0.55	0.55	2.50	2.52	5.05	5.10
41	1	0	0	1.52	1.52	3.37	3.37	5.75	5.75
42	0	0	0	0.52	0.52	3.61	3.63	5.72	5.74
43	1	0	0	0.32	0.32	2.38	2.58	4.79	5.16
44	1	0	1	0.47	0.48	2.85	3.13	5.13	5.43
45	1	0	0	1.44	1.48	2.83	3.10	5.41	5.57
46	1	0	0	0.41	0.43	2.98	3.30	4.90	5.33
47	1	0	1	0.52	0.52	2.45	2.37	3.91	3.80
48	1	0	0	0.39	0.41	3.78	3.91	6.61	6.81
49	1	0	1	0.50	0.51	3.19	3.36	5.15	5.41
50	1	0	0	0.55	0.56	2.42	2.67	3.96	4.30
51	1	0	1	1.00	1.03	2.54	2.79	4.62	4.86
52	1	0	1	0.41	0.41	3.83	3.83	7.06	7.07
53	1	0	1	0.59	0.60	2.21	2.44	3.70	4.03
54	1	0	0	0.31	0.31	2.64	2.64	5.64	5.64
55	1	0	1	0.44	0.45	4.49	4.53	7.42	7.51
56	1	0	1	0.40	0.39	3.69	4.03	5.95	6.32
57	1	0	1	0.52	0.53	2.62	2.68	4.29	4.39
58	1	0	0	0.64	0.65	4.49	4.59	7.35	7.56

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3	1	0	1	0.36	0.36	2.07	2.08	3.80	3.82
4	1	0	1	0.94	0.94	2.88	2.92	4.69	4.65
5	1	0	0	0.41	0.41	3.16	3.44	5.48	5.93
6	0	0	0	0.94	0.95	3.13	3.25	4.77	4.94
7	1	0	1	0.37	0.37	3.29	3.53	6.52	6.75
8	1	0	1	0.31	0.31	2.63	2.63	5.63	5.64
9	1	0	1	0.55	0.55	2.39	2.43	4.23	4.61
10	0	0	0	0.42	0.43	2.99	3.28	4.95	5.31
11	0	0	0	0.36	0.36	3.61	3.84	5.72	6.12
12	0	0	0	0.53	0.53	3.36	3.41	5.37	5.52
13	1	0	1	0.39	0.39	3.83	3.84	7.09	7.10
14	1	0	0	0.52	0.49	3.19	3.13	5.35	5.09
15	0	0	0	0.84	0.85	2.77	2.85	4.50	4.48
16	0	0	0	0.44	0.45	4.53	4.56	7.72	7.78
17	1	0	0	0.62	0.62	3.06	3.06	5.09	5.09
18	1	0	0	1.02	1.04	2.51	2.81	4.49	4.86
19	0	0	0	0.56	0.56	2.85	2.84	4.48	4.52
20	0	0	0	0.56	0.56	2.48	2.67	4.08	4.29
21	1	0	1	0.53	0.56	2.49	2.69	3.90	4.27
22	1	0	0	0.33	0.32	3.57	3.66	6.24	6.29
23	1	0	0	0.43	0.43	3.81	3.82	6.96	6.97
24	1	0	0	0.40	0.40	4.14	4.15	7.51	7.55
25	1	0	0	0.32	0.32	3.99	4.00	6.81	6.85
26	0	0	0	0.58	0.56	2.62	2.40	4.40	4.35
27	1	0	0	0.60	0.61	4.57	4.63	7.46	7.59
28	0	0	0	0.49	0.50	3.11	3.39	5.29	5.79
29	1	0	0	0.61	0.63	2.68	2.92	4.42	4.82
30	1	0	0	0.54	0.54	2.77	2.77	4.43	4.43
31	1	0	0	0.83	0.85	2.79	3.02	4.33	4.66
32	1	0	0	0.54	0.55	2.23	2.44	3.62	3.87
33	1	0	0	0.43	0.44	3.43	3.73	6.63	6.87
34	1	0	0	0.62	0.62	3.04	3.03	4.72	4.73
35	1	0	0	0.47	0.47	2.62	2.61	4.74	4.75
36	1	0	0	0.53	0.56	2.46	2.69	3.85	4.28
37	0	0	0	0.36	0.36	4.15	4.16	6.65	6.66
38	0	0	0	0.36	0.37	1.87	2.04	3.24	3.52
39	1	0	0	0.38	0.36	3.63	3.56	6.40	6.12
40	0	0	0	0.38	0.38	3.52	3.81	6.66	6.91
41	0	0	0	0.40	0.40	4.04	4.39	6.69	7.16
42	0	0	0	0.36	0.36	2.08	2.08	3.83	3.83
43	0	0	0	0.49	0.49	3.17	3.43	5.23	5.63
44	1	0	0	0.47	0.46	2.34	2.41	4.01	4.23
45	1	0	0	0.76	0.78	2.37	2.67	3.96	4.30
46	1	0	0	0.55	0.57	2.26	2.51	3.56	3.95
47	1	0	0	0.35	0.35	1.26	1.38	3.16	3.29
48	1	0	0	0.42	0.42	3.15	3.17	5.33	5.36
49	1	0	0	0.54	0.57	3.41	3.55	5.77	5.93
50	0	0	0	0.41	0.40	3.11	3.35	5.24	5.48
51	1	0	0	0.39	0.39	4.37	4.39	6.69	6.73
52	0	0	0	0.40	0.41	4.36	4.41	7.02	7.13
53	1	0	0	0.40	0.40	4.67	4.68	7.56	7.57
54	1	0	0	0.34	0.34	3.96	3.99	6.67	6.74
55	1	0	0	0.63	0.63	2.73	2.73	5.68	5.68
56	1	0	0	0.58	0.59	4.21	4.40	6.50	7.01
57	1	0	1	0.32	0.31	3.12	3.34	6.07	6.19
58	0	0	0	0.41	0.41	3.83	3.83	7.02	7.02

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3	1	0	0	0.87	0.87	3.15	3.14	5.10	5.14
4	1	0	0	1.44	1.48	2.83	3.10	5.41	5.57
5	0	0	0	0.63	0.63	2.67	2.67	5.58	5.60
6	0	0	0	0.44	0.43	3.83	4.12	6.96	7.01
7	1	0	0	0.36	0.35	2.23	2.56	3.86	4.21
8	1	0	0	0.55	0.56	2.45	2.67	4.02	4.30
9	0	0	0	0.41	0.41	3.73	3.82	6.91	7.07
10	1	0	1	0.39	0.39	3.55	3.57	5.80	5.83
11	1	0	0	0.62	0.62	3.04	3.03	5.04	5.05
12	1	0	0	0.39	0.37	3.68	3.85	6.41	6.34
13	1	0	0	0.39	0.39	3.82	3.84	7.05	7.08
14	1	0	0	0.45	0.46	2.76	3.00	4.83	5.19
15	0	0	0	0.45	0.45	3.77	3.98	6.87	7.03
16	0	0	0	0.95	0.95	3.36	3.36	5.13	5.13
17	0	0	0	0.88	0.88	3.20	3.20	5.24	5.24
18	0	0	0	0.60	0.61	2.48	2.75	4.09	4.39
19	1	0	0	0.35	0.34	2.58	2.78	4.28	4.61
20	1	0	0	0.41	0.41	4.47	4.47	7.10	7.11
21	1	0	0	0.54	0.54	2.28	2.44	4.18	4.71
22	0	0	0	0.38	0.38	2.48	2.81	4.01	4.49
23	1	0	0	0.37	0.36	2.41	2.39	4.09	4.01
24	1	0	1	0.44	0.44	3.81	3.81	6.91	6.92
25	0	0	0	0.43	0.44	3.74	3.76	5.88	5.90
26	0	0	0	0.63	0.63	2.73	2.73	5.68	5.68
27	0	0	0	0.63	0.63	2.35	2.51	5.51	5.64
28	0	0	0	0.98	0.99	2.70	2.61	4.69	4.62
29	1	0	0	0.46	0.46	3.77	3.77	5.74	5.75
30	1	0	0	0.56	0.55	2.39	2.29	3.84	3.68
31	1	0	0	0.34	0.34	3.28	3.53	6.87	7.10
32	1	0	0	0.63	0.63	2.38	2.53	4.93	5.28
33	0	0	0	0.52	0.52	2.42	2.58	4.08	4.23
34	1	0	0	0.25	0.26	2.23	2.41	4.50	4.77
35	1	0	0	0.54	0.55	2.23	2.44	3.64	3.87
36	1	0	0	0.44	0.44	3.74	4.03	6.84	7.10
37	1	0	0	0.53	0.55	2.16	2.43	4.22	4.78
38	0	0	0	0.47	0.47	2.62	2.61	4.74	4.75
39	1	0	0	0.66	0.68	2.40	2.69	3.96	4.32
40	1	0	0	0.39	0.39	2.60	2.60	4.50	4.52
41	1	0	0	0.45	0.46	3.61	3.62	5.74	5.76
42	1	0	0	0.41	0.41	3.13	3.13	5.22	5.22
43	1	0	0	0.61	0.61	3.04	3.04	4.90	4.90
44	0	0	0	0.40	0.40	2.54	2.82	4.14	4.55
45	1	0	0	0.52	0.53	2.32	2.54	3.79	4.10
46	1	0	0	0.37	0.37	3.35	3.47	7.19	7.11
47	0	0	0	0.35	0.36	3.87	3.94	7.08	7.24
48	1	0	0	0.44	0.44	3.80	4.18	6.85	7.04
49	1	0	0	0.99	1.01	2.75	2.66	4.80	4.66
50	1	0	0	0.41	0.41	3.88	3.91	6.13	6.11
51	1	0	0	0.51	0.51	3.67	3.67	6.29	6.29
52	1	0	0	0.43	0.44	3.13	3.41	4.96	5.59
53	1	0	0	0.45	0.45	3.12	3.44	5.00	5.36
54	1	0	0	0.40	0.43	3.53	4.04	5.61	6.29
55	1	0	0	0.41	0.41	2.55	2.55	4.66	4.67
56	0	0	0	1.44	1.47	2.92	3.05	5.60	5.53
57	1	0	0	0.41	0.40	3.68	4.02	6.38	6.69
58	0	0	0	0.36	0.36	3.83	3.91	6.99	7.14

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3	1	0	0	0.76	0.78	2.41	2.66	4.03	4.28
4	1	0	0	1.05	1.07	2.68	2.95	4.58	5.02
5	1	0	0	0.30	0.31	3.36	3.41	5.84	5.97
6	1	0	0	0.33	0.33	1.82	1.95	3.35	3.62
7	1	0	0	0.59	0.59	3.79	4.18	6.77	7.04
8	1	0	0	0.39	0.41	2.98	3.37	4.08	4.62
9	1	0	0	0.63	0.63	2.72	2.72	5.65	5.66
10	1	0	0	0.87	0.87	3.19	3.18	5.20	5.21
11	0	0	0	0.42	0.42	3.72	4.10	6.80	7.11
12	1	0	0	1.52	1.52	3.37	3.37	5.74	5.74
13	1	0	0	0.48	0.49	3.42	3.43	5.57	5.58
14	0	0	0	0.41	0.41	2.67	2.92	4.66	5.02
15	1	0	0	0.84	0.86	2.77	2.98	4.57	4.89
16	1	0	0	0.43	0.46	3.53	4.09	6.55	7.33
17	1	0	0	0.50	0.50	3.13	3.37	5.31	5.76
18	0	0	0	0.35	0.36	2.04	2.07	3.64	3.73
19	1	0	0	0.52	0.56	3.09	3.50	5.51	6.12
20	1	0	0	0.53	0.54	4.20	4.22	7.78	7.81
21	0	0	0	0.40	0.39	2.48	2.65	4.24	4.39
22	1	0	0	0.39	0.40	3.20	3.54	6.36	6.76
23	0	0	0	0.59	0.60	2.21	2.44	3.69	4.04
24	1	0	0	0.39	0.41	4.08	4.36	6.31	6.69
25	0	0	0	0.60	0.61	2.62	2.84	4.35	4.71
26	1	0	0	0.34	0.34	3.03	3.03	4.91	4.91
27	1	0	0	0.33	0.35	1.69	1.88	3.25	3.53
28	0	0	0	0.60	0.61	2.50	2.75	4.15	4.38
29	1	0	0	0.44	0.44	3.56	3.39	6.68	6.49
30	1	0	0	0.43	0.43	3.79	3.82	6.92	6.98
31	1	0	0	0.54	0.54	2.76	2.76	4.41	4.42
32	0	0	0	0.39	0.39	3.14	3.14	5.02	5.02
33	1	0	0	0.34	0.35	1.69	1.90	3.19	3.53
34	0	0	0	0.45	0.46	3.59	3.61	5.71	5.74
35	1	0	0	0.65	0.65	4.53	4.53	8.24	8.25
36	1	0	0	0.84	0.86	2.76	2.98	4.55	4.90
37	1	0	0	0.63	0.64	3.81	4.16	7.40	7.82
38	1	0	1	0.37	0.36	2.93	3.25	5.16	5.56
39	1	0	0	0.39	0.40	2.96	3.29	4.73	5.19
40	1	0	0	0.39	0.39	3.82	3.84	7.07	7.10
41	0	0	0	0.41	0.41	3.70	4.05	6.47	6.79
42	1	0	1	0.41	0.40	3.68	4.03	6.38	6.69
43	0	0	0	0.40	0.40	3.21	3.51	6.66	6.85
44	1	0	0	0.64	0.65	3.71	3.73	7.00	6.91
45	0	0	0	0.56	0.56	3.61	3.61	6.06	6.07
46	1	0	0	0.40	0.41	2.11	2.35	3.77	4.21
47	1	0	1	0.53	0.56	2.52	2.69	3.95	4.26
48	1	0	0	0.50	0.50	2.43	2.37	3.94	3.89
49	1	0	0	0.35	0.35	1.52	1.52	3.47	3.47
50	1	0	0	0.58	0.60	2.20	2.44	3.68	4.04
51	1	0	0	0.44	0.45	3.97	4.27	6.60	7.07
52	1	0	0	0.46	0.45	3.58	3.41	6.66	6.44
53	0	0	0	0.44	0.45	3.72	4.02	6.81	7.10
54	1	0	0	0.60	0.59	2.39	2.28	3.92	3.76
55	1	0	0	0.41	0.42	3.74	3.82	6.89	7.03
56	1	0	1	0.40	0.40	2.54	2.82	4.16	4.54
57	1	0	0	0.39	0.39	3.83	3.84	7.10	7.11
58	1	0	0	0.50	0.50	3.01	3.22	5.50	6.08

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3	1	0	0	0.37	0.39	2.79	2.94	4.61	4.83
4	1	0	0	0.35	0.34	3.33	3.44	7.24	7.09
5	1	0	0	0.41	0.41	3.14	3.45	5.46	5.97
6	0	0	0	0.49	0.49	3.16	3.44	5.22	5.65
7	1	0	0	0.42	0.41	2.61	2.80	4.26	4.48
8	1	0	0	0.32	0.34	1.76	2.00	2.88	3.21
9	0	0	0	0.40	0.40	3.12	3.13	4.99	5.00
10	1	0	0	0.48	0.48	3.78	4.01	7.24	7.51
11	0	0	0	0.37	0.38	2.90	2.97	4.75	4.87
12	1	0	0	0.43	0.43	4.48	4.48	7.39	7.39
13	0	0	0	0.56	0.56	2.65	2.65	4.10	4.11
14	1	0	0	0.86	0.86	3.18	3.19	4.87	4.90
15	0	0	0	0.93	0.94	2.90	3.12	4.49	4.79
16	0	0	0	0.39	0.39	3.78	3.83	7.01	7.10
17	0	0	0	0.35	0.38	1.81	2.03	3.16	3.53
18	1	0	0	0.34	0.34	2.20	2.20	3.42	3.42
19	1	0	0	0.49	0.50	2.94	3.24	5.47	6.15
20	1	0	0	0.46	0.46	3.74	4.06	7.25	7.53
21	0	0	0	0.55	0.55	2.39	2.31	3.85	3.69
22	1	0	0	0.50	0.50	4.32	4.34	7.40	7.43
23	0	0	0	0.52	0.52	2.72	2.73	4.47	4.50
24	1	0	0	0.57	0.57	2.91	2.91	4.64	4.64
25	0	0	0	1.51	1.52	3.32	3.32	5.65	5.70
26	0	0	0	0.83	0.85	2.79	3.02	4.33	4.66
27	1	0	0	0.33	0.33	1.83	1.96	3.36	3.62
28	1	0	0	0.56	0.56	2.83	2.83	4.44	4.50
29	0	0	0	0.55	0.56	3.60	3.61	6.05	6.06
30	0	0	0	0.66	0.69	2.31	2.59	3.92	4.35
31	1	0	0	0.49	0.50	3.63	3.69	5.95	6.04
32	1	0	0	0.43	0.44	3.74	3.82	6.85	6.98
33	1	0	0	0.87	0.87	3.20	3.19	5.22	5.23
34	0	0	0	0.95	0.95	3.36	3.36	5.13	5.13
35	0	0	0	0.85	0.84	2.87	2.83	4.53	4.43
36	1	0	0	0.35	0.36	2.81	2.80	4.84	4.85
37	1	0	0	0.63	0.61	2.65	2.54	4.37	4.15
38	1	0	0	0.46	0.50	3.07	3.35	4.85	5.32
39	0	0	0	0.48	0.48	2.43	2.44	5.40	5.42
40	0	0	0	0.63	0.64	3.79	4.14	6.54	7.02
41	0	0	0	0.65	0.67	3.65	4.05	6.90	7.36
42	0	0	0	0.93	0.95	2.61	2.82	4.64	4.81
43	1	0	0	0.34	0.34	2.08	2.08	3.87	3.88
44	1	0	1	0.52	0.53	3.81	4.01	7.11	7.45
45	0	0	0	0.37	0.37	2.53	2.80	4.14	4.60
46	0	0	0	0.46	0.46	3.76	4.04	7.28	7.50
47	0	0	0	0.69	0.69	2.80	2.80	4.68	4.68
48	1	0	0	0.40	0.40	2.28	2.28	3.47	3.47
49	1	0	0	0.36	0.36	2.93	3.26	5.16	5.58
50	0	0	0	0.36	0.36	2.90	3.23	4.78	5.24
51	1	0	0	0.54	0.55	2.22	2.44	3.62	3.87
52	1	0	0	0.35	0.35	3.73	3.75	6.32	6.36
53	1	0	0	0.60	0.61	2.48	2.75	4.10	4.39
54	1	0	0	0.41	0.41	1.85	2.06	2.90	3.18
55	0	0	0	0.54	0.55	2.47	2.50	4.98	5.06
56	1	0	0	0.58	0.59	4.21	4.39	6.48	6.99
57	0	0	0	0.85	0.85	2.77	2.94	4.43	4.58
58	1	0	0	0.64	0.65	4.52	4.56	7.43	7.52

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2									
3	1	0	0	0.55	0.55	3.49	3.51	5.71	5.73
4	1	0	0	0.32	0.32	3.66	3.68	6.65	6.69
5	1	0	0	0.59	0.60	2.60	2.82	4.21	4.55
6	1	0	0	0.50	0.50	3.78	4.13	7.03	7.28
7	1	0	0	0.56	0.56	2.65	2.65	4.11	4.11
8	1	0	0	0.34	0.35	1.73	1.91	3.27	3.55
9	1	0	1	0.85	0.87	2.76	3.02	4.53	4.93
10	0	0	0	0.52	0.53	3.58	3.61	5.63	5.68
11	1	0	0	0.35	0.36	3.74	3.79	7.27	7.42
12	1	0	0	0.30	0.31	3.28	3.55	5.68	6.07
13	1	0	0	0.37	0.36	2.94	3.25	5.16	5.56
14	1	0	0	0.69	0.69	2.80	2.80	4.68	4.68
15	1	0	0	0.94	0.93	2.96	2.92	4.98	4.71
16	0	0	0	0.44	0.44	4.02	4.06	7.09	7.17
17	0	0	0	1.54	1.54	3.47	3.47	5.36	5.37
18	0	0	0	0.93	0.94	2.90	3.11	4.52	4.78
19	1	0	0	1.44	1.47	2.94	3.05	5.64	5.54
20	0	0	0	0.85	0.86	2.77	2.84	4.77	4.74
21	1	0	1	0.39	0.39	2.68	2.94	4.52	4.90
22	1	0	0	0.55	0.54	2.62	2.47	4.23	4.14
23	0	0	0	0.95	0.95	3.36	3.36	5.13	5.13
24	1	0	0	0.60	0.61	2.46	2.75	4.06	4.40
25	1	0	0	0.62	0.62	3.05	3.04	5.06	5.06
26	1	0	0	0.55	0.56	2.42	2.67	3.97	4.30
27	1	0	0	0.44	0.45	4.44	4.58	7.60	7.85
28	1	0	0	0.55	0.55	3.51	3.51	5.73	5.74
29	1	0	0	0.83	0.85	2.79	3.02	4.34	4.66
30	1	0	0	0.62	0.62	3.06	3.06	5.09	5.09
31	1	0	0	0.40	0.42	4.25	4.40	6.83	7.11
32	1	0	0	0.45	0.46	2.21	2.41	3.88	4.31
33	1	0	1	0.30	0.31	3.22	3.49	5.70	6.18
34	1	0	0	0.39	0.39	3.42	3.30	6.67	6.54
35	1	0	0	0.55	0.55	2.64	2.63	4.08	4.09
36	0	0	0	0.54	0.55	3.51	3.56	6.20	6.25
37	1	0	0	0.55	0.55	2.60	2.60	4.00	4.03
38	1	0	0	0.64	0.64	2.41	2.57	5.36	5.51
39	1	0	0	0.53	0.53	3.61	3.63	5.78	5.81
40	1	0	0	0.53	0.56	3.20	3.45	5.30	5.62
41	1	0	0	0.88	0.88	3.20	3.20	5.24	5.25
42	0	0	0	0.63	0.63	2.35	2.51	5.50	5.64
43	1	0	0	0.44	0.44	3.59	3.61	5.63	5.66
44	1	0	0	0.37	0.37	3.54	3.54	5.74	5.75
45	1	0	0	0.60	0.61	2.47	2.75	4.08	4.40
46	1	0	0	0.68	0.68	2.78	2.77	4.63	4.64
47	0	0	0	0.39	0.39	3.23	3.24	5.30	5.30
48	0	0	0	0.40	0.40	3.10	3.10	4.92	4.96
49	0	0	0	0.94	0.95	3.25	3.27	4.92	4.98
50	1	0	0	0.59	0.59	3.80	4.21	6.77	7.08
51	1	0	0	0.65	0.65	4.53	4.53	8.24	8.25
52	1	0	0	0.43	0.44	3.79	4.14	7.10	7.40
53	0	0	0	0.59	0.60	2.60	2.80	4.22	4.53
54	0	0	0	0.40	0.40	3.24	3.24	5.00	5.01
55	0	0	0	0.33	0.32	3.23	3.43	6.14	6.32
56	1	0	0	0.36	0.37	3.28	3.54	6.50	6.77
57	1	0	0	0.40	0.39	3.07	3.38	5.18	5.55
58	1	0	0	0.63	0.63	2.73	2.73	5.67	5.68

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3	1	0	0	0.44	0.44	4.64	4.66	7.36	7.41
4	1	0	0	0.46	0.48	3.78	4.34	7.15	8.00
5	0	0	0	0.33	0.35	1.69	1.88	3.25	3.53
6	1	0	0	0.55	0.55	2.34	2.44	4.20	4.66
7	0	0	0	0.64	0.66	3.66	3.78	7.03	6.98
8	1	0	0	0.34	0.34	3.06	3.06	4.87	4.88
9	0	0	0	0.86	0.86	3.26	3.26	5.00	5.00
10	1	0	1	0.39	0.38	2.59	2.54	4.46	4.20
11	0	0	0	0.35	0.36	2.81	2.80	4.84	4.85
12	1	0	0	0.40	0.40	2.53	2.83	4.13	4.56
13	1	0	1	0.47	0.50	3.08	3.36	4.97	5.36
14	0	0	0	0.45	0.46	3.61	3.62	5.74	5.76
15	1	0	0	0.60	0.60	2.61	2.62	4.28	4.31
16	0	0	0	0.92	0.94	2.89	3.13	4.47	4.80
17	1	0	0	0.39	0.39	4.48	4.51	7.14	7.21
18	1	0	0	0.59	0.59	2.59	2.75	4.28	4.47
19	1	0	0	0.52	0.52	4.24	3.98	6.69	6.88
20	1	0	0	0.51	0.53	3.06	3.29	5.10	5.42
21	0	0	0	0.47	0.49	3.49	3.57	5.60	5.69
22	1	0	0	0.37	0.36	3.43	3.42	7.56	7.20
23	1	0	0	0.47	0.50	3.09	3.35	4.97	5.34
24	1	0	0	0.34	0.34	1.69	1.83	3.20	3.38
25	1	0	0	0.52	0.52	4.08	3.98	7.07	6.86
26	0	0	0	0.40	0.40	2.17	2.36	3.91	4.27
27	1	0	1	0.49	0.50	3.11	3.38	5.30	5.78
28	1	0	0	0.36	0.36	2.91	3.21	4.80	5.22
29	1	0	0	0.85	0.88	2.81	3.06	4.60	4.99
30	1	0	0	0.51	0.53	3.25	3.45	5.18	5.55
31	0	0	0	0.43	0.43	3.72	3.74	5.13	5.15
32	0	0	0	0.50	0.50	2.62	2.64	4.33	4.36
33	1	0	0	0.41	0.44	2.97	3.31	4.75	5.31
34	0	0	0	0.60	0.61	2.69	2.69	4.55	4.49
35	0	0	0	0.84	0.85	2.79	3.01	4.35	4.65
36	1	0	0	0.60	0.62	2.70	2.94	4.29	4.70
37	1	0	0	0.52	0.52	3.53	3.55	6.81	6.83
38	1	0	0	0.76	0.78	2.38	2.66	3.98	4.29
39	0	0	0	0.43	0.43	1.92	2.09	3.22	3.36
40	0	0	0	0.47	0.50	3.09	3.36	4.95	5.34
41	0	0	0	0.38	0.38	2.98	3.27	4.69	5.10
42	1	0	0	0.43	0.44	3.95	4.22	6.59	7.03
43	1	0	0	0.34	0.35	1.81	1.97	3.29	3.59
44	0	0	0	0.54	0.54	2.75	2.76	4.39	4.40
45	1	0	0	0.42	0.43	3.28	3.54	6.51	6.72
46	0	0	0	0.62	0.62	3.05	3.04	5.06	5.06
47	1	0	0	0.49	0.50	2.70	2.96	5.24	5.48
48	1	0	0	0.79	0.79	2.82	2.86	4.34	4.46
49	0	0	0	0.35	0.35	2.12	2.12	3.88	3.88
50	1	0	0	0.35	0.37	1.86	2.05	3.36	3.67
51	0	0	0	0.34	0.35	1.74	1.88	3.33	3.49
52	1	0	0	0.34	0.35	1.78	1.97	3.44	3.71
53	1	0	0	0.39	0.39	1.69	1.69	2.74	2.75
54	1	0	0	0.32	0.31	3.27	3.35	5.63	5.85
55	0	0	0	0.60	0.61	2.62	2.84	4.35	4.71
56	0	0	0	0.38	0.39	3.49	3.56	5.38	5.50
57	1	0	0	0.57	0.56	2.49	2.65	5.05	5.25
58	0	0	0	0.55	0.55	2.55	2.55	5.14	5.16

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3	0	0	0	0.35	0.35	2.87	2.87	4.54	4.54
4	1	0	0	0.86	0.85	2.84	2.79	4.83	4.67
5	1	0	0	0.61	0.62	3.69	4.04	6.75	6.97
6	0	0	0	0.59	0.59	2.65	2.68	4.33	4.31
7	1	0	0	1.49	1.52	2.89	3.19	5.29	5.68
8	1	0	1	0.76	0.78	2.41	2.66	4.05	4.27
9	0	0	0	0.41	0.41	1.84	2.05	2.91	3.17
10	1	0	0	0.63	0.61	2.66	2.54	4.37	4.15
11	0	0	0	0.64	0.64	2.98	2.96	4.64	4.65
12	0	0	0	0.76	0.78	2.38	2.66	3.97	4.30
13	0	0	0	0.38	0.39	3.01	3.01	4.82	4.83
14	1	0	0	0.52	0.53	2.33	2.47	3.93	4.03
15	1	0	0	0.62	0.62	3.06	3.06	5.09	5.09
16	1	0	0	0.66	0.69	4.39	4.62	7.26	7.72
17	0	0	0	1.44	1.48	2.82	3.10	5.38	5.57
18	0	0	0	0.60	0.60	2.57	2.60	4.20	4.26
19	0	0	0	0.39	0.40	2.00	2.26	3.06	3.35
20	0	0	0	0.19	0.19	1.64	1.64	3.08	3.03
21	1	0	0	0.40	0.40	3.06	3.08	4.84	4.91
22	1	0	0	0.36	0.36	3.45	3.36	7.09	6.82
23	1	0	0	0.36	0.36	2.08	2.08	3.82	3.83
24	1	0	0	0.44	0.46	3.58	3.83	6.56	6.98
25	1	0	0	0.88	0.88	3.20	3.20	5.24	5.25
26	0	0	0	0.63	0.63	2.73	2.73	5.68	5.68
27	0	0	0	0.39	0.39	3.43	3.74	7.16	7.39
28	1	0	0	0.41	0.41	1.85	2.06	2.91	3.18
29	1	0	0	0.40	0.40	1.90	2.12	2.99	3.29
30	1	0	0	0.93	0.94	2.90	3.12	4.48	4.80
31	1	0	0	0.92	0.94	2.90	3.13	4.48	4.80
32	0	0	0	0.92	0.94	2.90	3.13	4.47	4.80
33	0	0	0	0.42	0.43	1.87	2.10	3.07	3.38
34	1	0	0	0.38	0.38	3.83	3.84	7.73	7.74
35	0	0	0	0.84	0.86	2.76	2.98	4.55	4.90
36	1	0	0	0.60	0.60	2.96	2.98	4.75	4.78
37	1	0	0	0.60	0.62	2.61	2.87	4.32	4.74
38	1	0	1	0.38	0.39	3.24	3.52	6.58	6.82
39	1	0	0	0.37	0.36	3.58	3.84	6.11	6.36
40	1	0	0	0.39	0.42	3.00	3.39	4.13	4.68
41	0	0	0	0.93	0.94	2.90	3.12	4.48	4.80
42	1	0	0	0.44	0.45	4.53	4.56	7.71	7.78
43	0	0	0	0.61	0.62	3.69	4.05	6.74	6.98
44	0	0	0	0.69	0.69	2.79	2.79	4.67	4.67
45	0	0	0	0.32	0.32	3.82	3.83	6.45	6.50
46	1	0	0	0.58	0.60	2.16	2.44	3.60	4.04
47	0	0	0	0.83	0.85	2.79	3.02	4.33	4.66
48	1	0	0	0.38	0.39	3.38	3.75	6.01	6.62
49	0	0	0	0.33	0.33	1.83	1.96	3.36	3.62
50	0	0	0	0.60	0.60	2.61	2.62	4.27	4.30
51	0	0	0	0.59	0.59	2.58	2.72	4.34	4.44
52	1	0	0	0.93	0.94	2.90	3.13	4.48	4.80
53	1	0	0	0.63	0.63	2.71	2.71	5.64	5.66
54	1	0	0	0.50	0.50	4.47	4.49	7.52	7.55
55	0	0	0	0.52	0.53	2.33	2.51	3.86	4.06
56	0	0	0	0.60	0.61	2.48	2.75	4.10	4.39
57	1	0	0	1.47	1.50	3.02	3.24	5.03	5.18
58	1	0	0	0.93	0.94	2.90	3.12	4.48	4.80

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3	0	0	0	0.55	0.55	2.55	2.55	5.14	5.17
4	1	0	0	0.94	0.94	2.89	3.05	4.59	4.73
5	1	0	0	0.47	0.50	3.08	3.36	4.97	5.36
6	1	0	0	0.32	0.32	3.24	3.22	5.88	5.72
7	0	0	0	0.64	0.63	2.40	2.57	5.35	5.51
8	1	0	0	0.39	0.40	3.04	3.37	4.96	5.40
9	1	0	0	0.60	0.61	2.66	2.70	4.54	4.50
10	1	0	0	0.43	0.43	3.32	3.49	6.61	6.67
11	1	0	0	0.36	0.36	3.27	3.54	6.86	7.10
12	1	0	1	0.84	0.86	2.77	2.98	4.57	4.89
13	1	0	0	0.62	0.62	2.98	2.98	4.91	4.95
14	0	0	0	0.51	0.52	4.24	4.57	6.96	7.56
15	1	0	0	0.55	0.55	2.45	2.66	4.97	5.28
16	1	0	0	0.55	0.55	3.50	3.51	5.72	5.74
17	1	0	0	0.66	0.67	2.35	2.55	4.04	4.31
18	1	0	0	0.46	0.46	3.62	3.62	5.76	5.77
19	1	0	0	0.84	0.86	2.77	2.98	4.57	4.89
20	1	0	0	0.84	0.85	2.76	2.88	4.51	4.55
21	1	0	0	0.39	0.40	2.97	3.28	4.75	5.17
22	0	0	0	0.93	0.94	2.90	3.12	4.49	4.79
23	1	0	0	0.39	0.39	3.95	4.30	6.63	7.07
24	1	0	1	0.45	0.45	3.13	3.42	5.07	5.42
25	1	0	1	0.53	0.56	3.19	3.43	5.29	5.62
26	0	0	0	0.39	0.39	2.57	2.57	4.43	4.48
27	1	0	0	0.53	0.55	2.18	2.45	4.31	4.85
28	1	0	0	0.41	0.43	2.98	3.30	4.89	5.33
29	0	0	0	0.36	0.37	1.86	2.04	3.23	3.53
30	1	0	0	0.38	0.39	1.31	1.45	2.73	2.74
31	1	0	0	0.38	0.39	3.37	3.73	5.98	6.58
32	0	0	0	0.34	0.35	3.24	3.58	6.21	6.74
33	1	0	0	0.65	0.66	4.51	4.55	8.19	8.29
34	1	0	0	0.65	0.66	4.51	4.55	8.19	8.29
35	0	0	0	0.52	0.53	2.32	2.54	3.80	4.10
36	1	0	0	0.83	0.85	2.79	3.02	4.33	4.66
37	0	0	0	0.93	0.94	2.90	3.12	4.48	4.80
38	0	0	0	0.99	1.00	2.97	2.97	5.02	5.06
39	1	0	0	0.30	0.31	3.83	3.85	6.88	6.92
40	1	0	1	1.48	1.51	2.85	3.16	5.29	5.64
41	0	0	0	0.95	0.95	3.36	3.36	5.13	5.13
42	0	0	0	1.04	1.04	2.97	2.97	4.94	5.01
43	1	0	1	0.30	0.31	3.23	3.48	5.71	6.16
44	1	0	1	0.38	0.40	3.07	3.16	5.01	5.15
45	1	0	0	0.45	0.45	3.40	3.51	6.53	6.55
46	0	0	0	0.39	0.38	2.40	2.71	4.21	4.57
47	1	0	0	0.35	0.35	1.33	1.29	3.20	3.10
48	1	0	0	0.49	0.50	2.94	3.24	5.47	6.15
49	0	0	0	0.60	0.61	2.46	2.75	4.06	4.40
50	1	0	0	0.67	0.65	2.54	2.53	5.59	5.47
51	1	0	1	0.36	0.37	3.24	3.54	6.93	7.20
52	0	0	0	1.44	1.47	2.89	3.08	5.53	5.55
53	1	0	0	0.52	0.52	3.88	4.21	6.81	7.04
54	1	0	0	0.37	0.37	3.51	3.53	5.69	5.73
55	1	0	1	0.49	0.49	3.26	3.14	5.68	5.83
56	0	0	0	0.41	0.41	2.54	2.54	4.64	4.65
57	1	0	0	0.52	0.54	2.35	2.61	3.74	4.16
58	0	0	0	0.40	0.40	3.42	3.29	6.77	6.63

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2									
3	1	0	0	0.49	0.53	3.24	3.55	5.11	5.57
4	0	0	0	0.35	0.34	3.55	3.76	5.97	6.33
5	1	0	0	0.35	0.35	3.09	3.41	5.36	5.82
6	1	0	0	0.34	0.35	1.77	1.94	3.27	3.56
7	0	0	0	0.51	0.53	3.05	3.27	5.12	5.42
8	1	0	0	0.35	0.36	3.24	3.54	6.80	7.08
9	1	0	0	0.44	0.44	3.30	3.55	6.46	6.67
10	0	0	0	0.40	0.40	4.41	4.42	7.12	7.14
11	1	0	0	0.35	0.35	3.40	3.48	6.75	6.75
12	0	0	0	0.59	0.58	2.29	2.43	5.46	5.55
13	1	0	0	0.48	0.50	3.09	3.34	4.99	5.33
14	0	0	0	0.45	0.45	3.13	3.42	5.03	5.33
15	1	0	0	0.35	0.36	3.25	3.55	6.78	7.07
16	1	0	0	0.43	0.43	4.13	4.15	7.36	7.40
17	1	0	0	0.37	0.37	2.15	2.15	3.91	3.91
18	1	0	0	0.85	0.85	2.82	2.85	4.50	4.45
19	1	0	0	0.40	0.40	3.83	3.84	7.08	7.10
20	0	0	0	0.59	0.60	2.60	2.82	4.20	4.55
21	0	0	0	0.31	0.31	3.15	3.33	5.45	5.79
22	1	0	0	0.52	0.56	3.10	3.51	5.23	5.85
23	0	0	0	0.87	0.87	3.20	3.19	5.22	5.23
24	1	0	0	0.53	0.53	4.54	4.59	7.25	7.35
25	0	0	0	0.56	0.55	2.48	2.44	4.32	4.58
26	0	0	0	0.45	0.47	3.93	4.41	6.59	7.46
27	0	0	0	0.92	0.94	2.90	3.13	4.48	4.80
28	1	0	0	0.31	0.31	3.85	3.85	6.94	6.94
29	1	0	1	0.41	0.41	2.77	2.79	4.81	4.83
30	0	0	0	0.41	0.41	1.83	2.04	2.88	3.16
31	0	0	0	0.45	0.46	4.44	4.45	7.55	7.57
32	1	0	0	0.50	0.50	4.30	4.35	7.37	7.46
33	1	0	0	0.65	0.66	4.52	4.54	8.23	8.26
34	1	0	0	0.53	0.55	2.19	2.44	3.56	3.86
35	1	0	0	0.76	0.78	2.39	2.66	3.99	4.29
36	1	0	0	0.63	0.64	3.80	4.16	7.40	7.81
37	1	0	0	0.40	0.41	2.19	2.24	3.30	3.37
38	1	0	1	0.68	0.69	4.47	4.48	7.83	7.86
39	1	0	0	0.36	0.37	3.50	3.56	5.86	5.98
40	1	0	0	0.39	0.38	2.45	2.59	4.28	4.37
41	1	0	0	0.35	0.35	1.46	1.49	3.29	3.42
42	0	0	0	0.62	0.62	3.01	3.00	4.65	4.67
43	1	0	0	0.31	0.31	2.27	2.45	5.06	5.35
44	1	0	1	0.46	0.46	3.72	3.75	5.64	5.70
45	1	0	0	0.52	0.53	3.81	4.01	7.10	7.44
46	0	0	0	0.43	0.43	3.87	4.24	6.65	7.00
47	1	0	0	0.39	0.40	2.28	2.51	4.05	4.47
48	0	0	0	0.37	0.38	3.30	3.54	7.30	7.47
49	1	0	1	0.68	0.65	2.59	2.44	5.17	5.03
50	1	0	0	0.36	0.35	3.34	3.49	7.21	7.13
51	1	0	0	0.51	0.53	3.06	3.29	5.11	5.42
52	0	0	0	1.52	1.53	3.39	3.40	5.17	5.28
53	0	0	0	0.40	0.42	2.27	2.43	4.14	4.46
54	1	0	0	0.51	0.51	3.21	3.35	5.19	5.40
55	1	0	0	0.47	0.47	2.88	3.11	5.00	5.21
56	1	0	0	0.36	0.37	3.75	3.83	7.21	7.36
57	1	0	0	0.42	0.42	3.20	3.20	5.39	5.40
58	0	0	0	0.61	0.62	2.97	2.98	4.88	4.93

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3	1	0	0	0.39	0.39	4.40	4.40	6.72	6.72
4	0	0	0	0.30	0.31	1.71	1.87	3.83	4.07
5	0	0	0	0.51	0.51	2.33	2.50	3.99	4.18
6	0	0	0	0.45	0.45	3.83	3.84	6.59	6.60
7	0	0	0	0.40	0.40	2.17	2.36	3.91	4.27
8	0	0	0	0.39	0.39	4.39	4.40	6.71	6.72
9	0	0	0	0.42	0.42	3.19	3.20	5.39	5.40
10	1	0	0	0.41	0.40	3.74	3.74	6.20	6.04
11	0	0	0	0.92	0.94	2.89	3.13	4.47	4.80
12	1	0	0	0.39	0.38	3.42	3.36	6.82	6.64
13	1	0	0	0.83	0.85	2.79	3.02	4.33	4.66
14	1	0	0	0.60	0.61	2.62	2.84	4.35	4.71
15	1	0	0	0.50	0.52	3.58	3.64	6.15	6.22
16	1	0	0	0.37	0.37	2.16	2.16	3.89	3.90
17	1	0	1	0.51	0.53	3.01	3.27	5.01	5.40
18	1	0	0	0.50	0.50	3.78	4.11	7.03	7.25
19	1	0	0	0.76	0.79	2.34	2.69	3.83	4.31
20	0	0	0	0.36	0.37	2.03	2.06	3.67	3.74
21	0	0	0	0.60	0.61	2.64	2.70	4.53	4.52
22	0	0	0	0.36	0.36	3.27	3.55	6.48	6.79
23	0	0	0	0.33	0.33	1.86	1.96	3.42	3.59
24	1	0	0	0.59	0.60	3.71	4.09	7.50	7.89
25	0	0	0	0.58	0.60	2.57	2.84	4.14	4.55
26	0	0	0	0.54	0.55	2.23	2.44	3.62	3.87
27	1	0	0	0.84	0.86	2.76	2.98	4.55	4.90
28	0	0	0	0.93	0.94	2.90	3.10	4.52	4.78
29	1	0	0	0.67	0.70	2.42	2.77	3.88	4.41
30	1	0	0	0.31	0.33	3.43	3.79	5.85	6.48
31	1	0	0	0.40	0.42	2.20	2.43	4.03	4.46
32	1	0	0	0.41	0.41	1.84	2.05	2.91	3.17
33	0	0	0	0.54	0.55	2.23	2.44	3.64	3.87
34	1	0	0	0.31	0.31	2.64	2.64	5.64	5.64
35	1	0	0	0.45	0.46	3.75	3.81	6.78	6.88
36	0	0	0	0.59	0.59	2.30	2.43	5.49	5.54
37	1	0	0	0.34	0.36	1.75	1.94	3.23	3.51
38	1	0	0	0.53	0.54	2.70	2.71	4.28	4.32
39	1	0	0	0.36	0.35	3.39	3.64	6.78	6.95
40	1	0	0	0.54	0.54	2.30	2.44	4.18	4.69
41	0	0	0	0.39	0.40	4.63	4.66	7.41	7.47
42	1	0	0	0.41	0.41	3.66	4.01	6.81	7.11
43	0	0	0	0.51	0.51	3.21	3.22	5.73	5.73
44	0	0	0	0.93	0.94	2.90	3.12	4.49	4.79
45	0	0	0	0.57	0.57	2.91	2.91	4.63	4.64
46	1	0	0	0.43	0.43	3.26	3.54	6.52	6.74
47	1	0	0	0.26	0.26	2.56	2.58	4.98	5.02
48	1	0	0	0.46	0.47	4.37	4.39	7.80	7.83
49	0	0	0	0.62	0.63	3.71	4.12	6.70	7.07
50	1	0	0	0.42	0.42	3.52	3.38	6.73	6.59
51	0	0	0	0.40	0.40	3.13	3.13	5.00	5.01
52	0	0	0	0.39	0.39	3.82	3.84	7.07	7.10
53	1	0	0	0.43	0.43	3.30	3.51	6.58	6.70
54	0	0	0	0.46	0.46	3.62	3.62	5.76	5.77
55	1	0	0	0.60	0.62	2.50	2.84	3.99	4.50
56	1	0	0	0.39	0.38	3.46	3.36	6.72	6.55
57	1	0	0	0.59	0.59	3.80	4.21	6.76	7.08
58	1	0	1	0.43	0.43	4.48	4.48	7.39	7.40

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3	0	0	0	0.61	0.61	2.67	2.67	4.40	4.40
4	0	0	0	0.40	0.41	2.65	2.93	4.64	5.02
5	1	0	0	0.36	0.36	4.15	4.16	6.66	6.66
6	1	0	0	0.86	0.86	3.24	3.24	4.97	4.98
7	1	0	0	0.33	0.34	2.04	2.05	3.72	3.80
8	0	0	0	0.39	0.38	2.42	2.69	4.26	4.54
9	1	0	0	0.35	0.37	3.20	3.69	6.53	7.29
10	1	0	1	0.37	0.36	3.44	3.33	6.55	6.43
11	1	0	0	0.50	0.50	4.03	4.11	6.75	6.81
12	0	0	0	0.61	0.62	2.95	2.97	4.84	4.91
13	1	0	1	0.53	0.50	3.23	3.17	5.44	5.19
14	1	0	0	0.43	0.43	3.80	4.21	6.78	7.06
15	1	0	0	0.53	0.54	2.61	2.68	4.12	4.24
16	0	0	0	0.44	0.44	2.49	2.49	4.29	4.30
17	1	0	0	0.61	0.61	2.62	2.79	4.43	4.64
18	1	0	1	0.37	0.37	3.84	3.84	7.10	7.11
19	1	0	0	0.39	0.39	3.99	4.33	6.69	7.11
20	0	0	0	0.62	0.62	3.06	3.06	5.09	5.09
21	1	0	0	0.45	0.46	2.79	3.00	4.87	5.18
22	1	0	1	0.43	0.43	3.81	4.23	6.76	7.08
23	1	0	0	0.43	0.43	2.03	1.99	3.30	3.21
24	1	0	0	0.61	0.63	3.76	3.82	6.69	6.58
25	1	0	0	0.93	0.94	2.90	3.12	4.48	4.80
26	0	0	0	0.37	0.36	2.94	3.24	5.17	5.55
27	1	0	0	0.48	0.48	2.48	2.48	5.46	5.47
28	1	0	0	0.43	0.44	3.43	3.73	6.63	6.87
29	1	0	0	0.26	0.27	2.72	3.02	4.66	4.93
30	1	0	0	0.59	0.62	2.44	2.78	3.94	4.43
31	1	0	0	0.60	0.60	3.00	3.00	4.81	4.83
32	0	0	0	0.47	0.46	3.29	3.35	5.30	5.26
33	1	0	0	0.88	0.88	3.21	3.21	5.25	5.25
34	1	0	1	0.50	0.52	3.05	3.31	5.25	5.78
35	1	0	0	0.32	0.31	3.35	3.33	5.71	5.81
36	1	0	0	0.62	0.62	3.06	3.05	5.08	5.09
37	1	0	0	0.50	0.50	2.59	2.62	4.28	4.33
38	1	0	0	0.62	0.62	3.06	3.05	5.08	5.08
39	0	0	0	0.64	0.63	2.40	2.57	5.34	5.51
40	1	0	0	0.39	0.39	4.09	4.10	7.14	7.17
41	0	0	0	0.40	0.40	3.57	3.83	5.41	5.93
42	1	0	0	0.62	0.62	3.05	3.04	5.06	5.06
43	1	0	0	0.32	0.32	3.63	3.67	6.55	6.67
44	1	0	0	0.45	0.46	4.40	4.45	7.50	7.60
45	1	0	0	0.45	0.45	3.12	3.43	5.01	5.35
46	1	0	0	1.47	1.50	3.02	3.25	5.00	5.19
47	1	0	0	0.63	0.63	2.39	2.53	4.93	5.27
48	1	0	0	0.40	0.41	2.22	2.36	3.95	4.25
49	1	0	0	0.54	0.55	2.23	2.44	3.64	3.87
50	1	0	0	0.53	0.56	3.25	3.44	5.38	5.62
51	1	0	0	0.54	0.55	2.23	2.44	3.63	3.87
52	0	0	0	0.37	0.37	3.85	3.85	7.40	7.41
53	1	0	0	0.42	0.43	4.10	4.40	6.81	7.25
54	1	0	0	0.41	0.41	1.85	2.06	2.90	3.18
55	1	0	0	0.40	0.40	3.12	3.12	4.98	4.99
56	1	0	0	0.41	0.43	2.98	3.30	4.90	5.33
57	1	0	0	0.42	0.42	3.20	3.20	5.40	5.41
58	1	0	0	0.35	0.36	3.63	3.82	6.86	7.21

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3	1	0	0	0.40	0.40	3.75	4.06	6.32	6.71
4	0	0	0	0.45	0.45	3.79	3.81	6.85	6.87
5	0	0	0	0.53	0.53	3.34	3.41	5.33	5.52
6	1	0	0	0.33	0.32	3.22	3.37	5.85	6.07
7	0	0	0	0.55	0.55	2.53	2.53	5.10	5.13
8	1	0	0	0.35	0.35	3.09	3.41	5.36	5.82
9	1	0	0	0.66	0.67	2.32	2.56	3.99	4.33
10	0	0	0	0.62	0.64	3.73	4.06	6.52	6.88
11	1	0	0	0.31	0.31	3.74	3.76	6.62	6.66
12	1	0	0	0.49	0.50	3.15	3.30	5.17	5.31
13	1	0	0	0.94	0.94	2.88	3.04	4.61	4.73
14	1	0	0	0.39	0.42	3.12	3.50	4.84	5.44
15	1	0	0	0.67	0.67	2.58	2.50	4.20	4.04
16	1	0	0	0.38	0.38	2.11	2.11	3.57	3.58
17	1	0	0	0.40	0.40	3.83	3.84	7.09	7.10
18	1	0	0	0.44	0.44	4.64	4.66	7.36	7.41
19	1	0	0	0.34	0.34	1.81	1.99	3.07	3.21
20	0	0	0	0.50	0.50	4.46	4.49	7.51	7.56
21	1	0	0	0.37	0.36	2.93	3.25	5.16	5.56
22	1	0	0	0.37	0.38	3.98	4.23	6.39	6.78
23	1	0	0	0.86	0.87	3.11	3.12	5.02	5.09
24	0	0	0	0.84	0.85	2.79	3.00	4.37	4.64
25	1	0	0	0.85	0.86	2.77	2.96	4.63	4.85
26	1	0	0	1.52	1.52	3.37	3.37	5.74	5.75
27	1	0	1	0.47	0.46	3.32	3.26	5.30	5.15
28	0	0	0	0.60	0.61	2.62	2.84	4.35	4.71
29	1	0	0	0.66	0.68	2.39	2.70	3.94	4.33
30	0	0	0	0.67	0.70	3.76	4.28	6.81	7.67
31	1	0	1	0.60	0.61	2.48	2.75	4.10	4.39
32	0	0	0	0.38	0.39	2.54	2.83	4.20	4.66
33	1	0	0	0.51	0.53	3.06	3.29	5.11	5.42
34	1	0	0	0.54	0.54	2.29	2.44	4.18	4.70
35	1	0	0	0.68	0.69	2.91	2.91	4.49	4.55
36	1	0	0	0.52	0.52	3.88	4.22	6.80	7.05
37	1	0	0	0.59	0.59	2.59	2.70	4.36	4.41
38	0	0	0	0.36	0.35	1.27	1.35	3.18	3.17
39	1	0	0	0.62	0.62	3.04	3.04	4.74	4.74
40	1	0	1	0.30	0.30	2.75	3.03	5.22	5.40
41	1	0	1	0.52	0.52	3.88	4.22	6.80	7.05
42	0	0	0	0.65	0.65	4.53	4.53	8.24	8.25
43	1	0	0	0.51	0.53	3.06	3.29	5.10	5.42
44	0	0	0	0.50	0.50	4.48	4.48	7.54	7.54
45	0	0	0	0.62	0.62	3.03	3.02	4.69	4.70
46	0	0	0	0.38	0.37	2.49	2.81	3.95	4.45
47	1	0	0	0.44	0.44	3.77	3.81	6.85	6.93
48	1	0	0	0.44	0.44	3.87	4.08	7.28	7.42
49	1	0	0	0.40	0.41	2.18	2.36	3.91	4.27
50	0	0	0	0.39	0.39	1.69	1.69	2.73	2.75
51	1	0	0	0.62	0.62	3.06	3.06	5.09	5.09
52	1	0	0	0.60	0.61	2.62	2.84	4.34	4.71
53	1	0	0	0.38	0.37	3.27	3.14	5.68	5.47
54	1	0	0	0.64	0.63	2.37	2.50	5.56	5.63
55	1	0	0	0.41	0.41	3.66	4.01	6.80	7.11
56	1	0	0	0.44	0.44	4.65	4.66	7.39	7.40
57	1	0	0	0.39	0.40	2.97	3.29	4.75	5.18
58	1	0	0	0.58	0.59	4.21	4.40	6.49	7.01

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3	0	0	0	0.38	0.38	2.19	2.19	3.78	3.80
4	1	0	0	0.85	0.88	2.80	3.05	4.59	4.98
5	0	0	0	0.30	0.31	3.76	3.81	6.70	6.84
6	1	0	0	0.54	0.55	2.23	2.44	3.62	3.87
7	1	0	0	0.63	0.63	2.69	2.69	5.63	5.63
8	0	0	0	0.46	0.46	3.75	4.04	7.26	7.50
9	0	0	0	0.43	0.44	3.43	3.72	6.63	6.85
10	1	0	0	0.50	0.53	4.16	4.58	7.18	7.83
11	1	0	1	0.34	0.35	1.73	1.91	3.26	3.55
12	0	0	0	0.50	0.51	2.32	2.54	3.92	4.24
13	0	0	0	0.37	0.38	3.30	3.54	7.29	7.47
14	0	0	0	0.97	0.98	3.01	3.01	4.97	5.03
15	0	0	0	0.49	0.49	2.26	2.47	3.75	4.10
16	1	0	0	0.39	0.39	3.58	3.60	5.53	5.57
17	1	0	0	0.50	0.50	3.78	4.11	7.03	7.25
18	1	0	0	0.43	0.43	3.34	3.49	6.60	6.65
19	0	0	0	1.52	1.52	3.36	3.36	5.73	5.74
20	1	0	0	0.45	0.46	3.59	3.61	5.71	5.74
21	0	0	0	0.34	0.34	3.03	3.02	4.71	4.77
22	1	0	0	0.58	0.58	2.68	2.64	4.31	4.25
23	1	0	0	0.38	0.38	2.38	2.72	4.18	4.59
24	0	0	0	0.85	0.87	2.97	3.16	4.51	4.84
25	1	0	0	0.48	0.50	3.10	3.34	5.02	5.32
26	1	0	0	0.67	0.72	3.87	4.52	6.90	8.02
27	1	0	0	0.43	0.45	4.58	4.66	7.26	7.43
28	1	0	0	0.40	0.40	3.58	3.78	5.28	5.81
29	0	0	0	0.61	0.63	3.76	3.82	6.68	6.59
30	0	0	0	0.32	0.31	3.16	3.30	6.26	6.17
31	1	0	0	0.43	0.45	3.23	3.64	6.29	6.81
32	1	0	0	0.40	0.40	1.97	2.21	3.06	3.38
33	1	0	0	1.47	1.50	3.02	3.25	5.01	5.19
34	1	0	0	0.46	0.48	4.47	4.73	7.24	7.73
35	1	0	0	0.31	0.32	3.54	3.54	6.31	6.33
36	1	0	0	0.58	0.58	2.60	2.60	5.66	5.67
37	0	0	0	0.34	0.34	3.54	3.77	5.96	6.35
38	1	0	0	0.22	0.21	1.92	1.96	3.51	3.43
39	0	0	1	0.36	0.36	3.57	3.59	5.99	6.02
40	1	0	0	0.53	0.53	4.57	4.58	7.30	7.31
41	1	0	1	0.83	0.85	2.79	3.02	4.34	4.66
42	1	0	0	0.61	0.61	3.03	3.04	4.88	4.89
43	0	0	0	0.41	0.41	2.55	2.55	4.67	4.67
44	1	0	0	0.49	0.51	3.16	3.40	5.06	5.44
45	1	0	0	0.40	0.40	3.20	3.21	5.29	5.31
46	1	0	0	0.46	0.46	3.74	4.06	7.25	7.53
47	1	0	0	0.44	0.44	3.80	4.18	6.85	7.04
48	1	0	0	0.43	0.43	3.26	3.54	6.52	6.74
49	1	0	0	0.86	0.86	3.25	3.25	4.99	4.99
50	1	0	0	0.37	0.37	3.29	3.56	7.25	7.48
51	1	0	0	0.53	0.53	3.63	3.64	5.76	5.77
52	1	0	0	0.35	0.35	3.14	3.42	5.45	5.85
53	1	0	0	0.38	0.39	4.01	4.33	6.63	7.05
54	0	0	0	0.67	0.73	3.94	4.57	7.00	8.09
55	0	0	0	0.35	0.37	1.81	2.00	3.35	3.64
56	1	0	0	0.49	0.49	3.72	3.73	6.09	6.10
57	1	0	0	0.34	0.34	3.78	3.78	7.37	7.39
58	1	0	1	0.40	0.42	3.62	3.82	6.76	7.10

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3	1	0	0	0.60	0.60	3.02	3.02	4.86	4.87
4	0	0	0	0.55	0.55	2.83	2.83	5.51	5.53
5	0	0	0	0.49	0.49	2.28	2.45	3.80	4.08
6	1	0	0	0.39	0.41	4.02	4.36	6.22	6.69
7	1	0	0	0.41	0.41	4.47	4.47	7.11	7.11
8	0	0	0	0.95	0.95	3.36	3.35	5.12	5.13
9	0	0	0	0.62	0.62	2.56	2.59	5.59	5.67
10	1	0	0	0.61	0.62	2.40	2.69	3.95	4.31
11	0	0	0	0.61	0.62	2.94	2.95	4.50	4.57
12	1	0	0	0.55	0.58	2.44	2.77	3.84	4.40
13	1	0	0	0.40	0.41	3.13	3.44	5.49	6.02
14	0	0	0	0.50	0.50	2.44	2.36	3.99	3.88
15	0	0	0	0.34	0.35	3.29	3.56	6.56	6.87
16	0	0	0	0.60	0.60	4.63	4.63	7.41	7.41
17	1	0	0	0.54	0.54	2.28	2.44	4.18	4.71
18	1	0	0	0.63	0.63	2.68	2.68	5.79	5.79
19	1	0	0	0.47	0.47	3.72	3.72	6.39	6.39
20	0	0	0	0.86	0.86	3.24	3.24	4.97	4.98
21	1	0	0	1.52	1.53	3.37	3.40	5.15	5.28
22	1	0	0	0.44	0.44	4.64	4.66	7.37	7.41
23	1	0	0	0.84	0.85	2.77	2.85	4.50	4.49
24	0	0	0	1.54	1.54	3.48	3.47	5.37	5.38
25	1	0	0	0.36	0.39	1.91	2.06	3.31	3.59
26	1	0	0	0.95	0.95	3.34	3.34	5.10	5.11
27	0	0	0	0.43	0.43	3.84	4.23	6.70	7.03
28	1	0	1	0.41	0.40	3.19	3.09	4.21	4.16
29	0	0	0	0.44	0.43	2.08	1.98	3.31	3.20
30	1	0	0	0.88	0.88	3.20	3.20	5.23	5.24
31	1	0	0	0.35	0.35	3.84	3.85	7.21	7.23
32	1	0	0	0.33	0.33	1.87	1.95	3.44	3.57
33	1	0	1	0.45	0.45	3.12	3.44	5.00	5.36
34	0	0	0	0.42	0.45	3.48	3.67	4.81	5.05
35	1	0	0	0.38	0.38	3.81	3.83	7.69	7.74
36	1	0	0	0.60	0.60	2.94	2.96	4.70	4.75
37	0	0	0	0.44	0.44	2.49	2.49	4.29	4.30
38	1	0	0	0.36	0.35	1.85	1.84	3.61	3.51
39	1	0	1	0.58	0.57	2.69	2.63	4.38	4.19
40	1	0	0	0.39	0.40	1.95	2.20	3.01	3.29
41	0	0	0	0.51	0.52	2.77	2.76	4.44	4.48
42	1	0	0	1.47	1.50	3.02	3.24	5.04	5.18
43	1	0	0	0.41	0.42	3.22	3.48	4.78	5.37
44	1	0	0	0.38	0.38	3.52	3.82	6.64	6.91
45	1	0	0	0.40	0.40	3.69	3.65	6.02	6.12
46	0	0	1	0.52	0.52	3.54	3.55	6.83	6.84
47	1	0	0	0.36	0.36	3.59	3.60	6.02	6.03
48	1	0	0	0.45	0.45	3.80	4.12	7.01	7.28
49	1	0	0	0.49	0.49	2.66	2.69	5.28	5.23
50	1	0	0	0.63	0.64	2.91	2.92	4.50	4.57
51	1	0	0	0.50	0.50	2.73	2.81	5.30	5.33
52	0	0	0	0.64	0.64	4.54	4.55	7.47	7.49
53	1	0	0	0.62	0.62	3.05	3.05	4.75	4.75
54	1	0	1	0.36	0.36	2.12	2.12	3.86	3.86
55	1	0	0	0.50	0.51	2.32	2.55	3.89	4.25
56	1	0	0	0.94	0.95	3.18	3.25	4.81	4.93
57	1	0	0	0.38	0.38	3.83	3.84	7.73	7.74
58	1	0	0	0.47	0.47	4.12	3.99	6.68	6.69

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3	0	0	0	0.62	0.63	3.72	4.14	6.70	7.08
4	1	0	0	0.54	0.57	2.38	2.71	3.77	4.30
5	1	0	0	0.45	0.46	3.59	3.61	5.71	5.74
6	1	0	0	0.41	0.41	1.69	1.78	2.82	2.82
7	1	0	0	0.43	0.43	3.81	4.23	6.77	7.07
8	0	0	0	0.60	0.60	2.59	2.61	4.24	4.28
9	1	0	1	0.36	0.36	3.69	3.69	6.20	6.21
10	0	0	0	0.40	0.39	3.08	3.37	5.19	5.53
11	0	0	0	0.51	0.51	3.17	3.17	5.67	5.68
12	1	0	0	0.64	0.63	2.41	2.57	5.35	5.51
13	0	0	0	0.34	0.34	1.79	1.94	3.31	3.58
14	1	0	0	0.31	0.32	3.49	3.53	6.21	6.31
15	0	0	0	0.86	0.86	3.24	3.24	4.97	4.98
16	1	0	0	0.55	0.56	2.41	2.71	3.94	4.34
17	1	0	0	0.39	0.39	2.74	2.62	4.23	4.10
18	1	0	0	0.34	0.35	3.24	3.58	6.21	6.73
19	0	0	0	0.64	0.66	3.72	3.72	6.99	6.91
20	1	0	0	0.44	0.44	4.63	4.66	7.35	7.42
21	0	0	0	0.38	0.38	3.81	3.83	7.69	7.74
22	1	0	0	0.39	0.39	4.01	4.02	7.15	7.18
23	0	0	0	0.61	0.62	2.39	2.70	3.92	4.33
24	1	0	0	0.53	0.56	3.43	3.58	5.63	5.80
25	1	0	0	0.84	0.86	2.77	2.97	4.58	4.88
26	1	0	0	0.66	0.69	4.41	4.59	7.31	7.69
27	0	0	0	0.84	0.86	2.82	3.08	4.36	4.73
28	1	0	0	0.29	0.30	3.30	3.57	5.85	6.38
29	1	0	0	0.34	0.34	2.19	2.19	3.41	3.41
30	1	0	0	0.60	0.61	2.61	2.84	4.32	4.72
31	0	0	0	0.76	0.78	2.38	2.66	3.98	4.29
32	1	0	0	0.43	0.43	3.78	3.82	6.91	6.98
33	1	0	0	0.57	0.57	2.94	2.93	4.59	4.61
34	1	0	0	0.45	0.46	2.22	2.41	3.89	4.30
35	1	0	0	0.86	0.86	3.24	3.24	4.98	4.98
36	1	0	0	0.52	0.50	3.17	3.16	5.34	5.20
37	1	0	0	0.93	0.94	2.90	3.12	4.49	4.79
38	1	0	0	0.47	0.46	3.31	3.33	5.32	5.23
39	0	0	0	0.49	0.50	3.16	3.20	5.65	6.01
40	1	0	1	0.57	0.57	2.99	2.99	4.71	4.72
41	1	0	0	0.85	0.86	2.77	2.97	4.61	4.87
42	0	0	0	0.57	0.58	3.84	4.24	6.81	7.07
43	1	0	0	0.39	0.41	2.99	3.35	4.08	4.60
44	1	0	0	0.34	0.36	1.75	1.93	3.24	3.51
45	1	0	0	0.84	0.85	2.80	2.85	4.49	4.46
46	0	0	0	0.86	0.86	3.25	3.25	4.99	4.99
47	1	1	1	0.45	0.46	3.61	3.62	5.74	5.76
48	0	0	0	0.59	0.59	2.67	2.67	4.33	4.30
49	1	0	0	0.46	0.46	3.77	3.77	5.74	5.75
50	0	0	0	0.40	0.38	3.31	3.15	5.04	4.82
51	1	0	0	0.49	0.50	2.95	3.24	5.47	6.14
52	1	0	0	0.55	0.55	2.84	2.84	5.55	5.56
53	1	0	0	0.58	0.60	2.60	2.82	4.20	4.55
54	0	0	0	0.45	0.45	3.81	3.83	6.57	6.59
55	1	0	1	0.45	0.47	3.40	3.66	5.21	5.58
56	1	0	0	1.48	1.50	3.03	3.22	5.11	5.15
57	1	0	0	0.42	0.42	3.71	4.09	6.82	7.10
58	0	0	0	0.86	0.86	3.18	3.19	4.87	4.90

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3	1	0	1	0.41	0.43	2.98	3.30	4.90	5.32
4	0	0	0	0.41	0.41	2.54	2.54	4.65	4.66
5	0	0	0	0.35	0.35	3.26	3.52	6.26	6.61
6	1	0	0	0.40	0.39	3.69	4.02	5.95	6.30
7	1	0	0	0.34	0.35	1.73	1.90	3.28	3.54
8	1	0	1	0.34	0.34	1.88	1.77	3.32	3.24
9	1	0	0	0.39	0.39	2.38	2.70	4.07	4.45
10	1	0	0	0.50	0.52	3.45	3.60	5.96	6.14
11	1	0	0	0.33	0.33	2.05	1.91	3.66	3.46
12	1	0	0	0.48	0.51	3.15	3.39	5.05	5.44
13	1	0	0	0.55	0.56	2.43	2.67	3.98	4.30
14	1	0	1	0.40	0.43	3.83	4.40	6.27	7.10
15	1	0	1	0.39	0.41	2.99	3.36	4.08	4.62
16	0	0	0	0.39	0.39	2.38	2.69	4.07	4.45
17	1	0	0	0.57	0.57	3.00	3.00	4.74	4.74
18	1	0	0	0.43	0.43	3.75	3.75	5.17	5.17
19	1	0	0	0.46	0.45	4.00	3.93	7.23	7.08
20	1	0	0	0.39	0.40	2.98	3.28	4.76	5.17
21	0	0	0	0.54	0.56	2.24	2.49	4.48	4.97
22	1	0	0	0.63	0.61	2.66	2.54	4.38	4.15
23	0	0	0	0.42	0.43	2.99	3.28	4.94	5.31
24	1	0	0	0.36	0.37	3.26	3.67	5.69	6.40
25	0	0	0	0.45	0.46	4.31	4.47	7.39	7.66
26	0	0	0	0.45	0.45	3.39	3.51	6.51	6.55
27	1	0	0	0.37	0.38	3.98	4.23	6.39	6.77
28	1	0	0	0.41	0.40	2.56	2.82	4.19	4.53
29	1	0	0	0.44	0.44	2.56	2.61	4.88	4.82
30	1	0	0	0.64	0.63	2.40	2.57	5.35	5.51
31	1	0	0	0.41	0.40	2.67	2.48	4.64	4.35
32	1	0	0	0.39	0.39	3.58	3.58	5.84	5.84
33	1	0	0	0.42	0.43	3.27	3.54	6.50	6.73
34	0	0	0	0.43	0.45	4.58	4.66	7.26	7.43
35	1	0	0	0.44	0.44	3.73	3.74	5.68	5.69
36	1	0	0	0.44	0.44	3.71	4.02	6.80	7.09
37	0	0	0	0.76	0.78	2.37	2.67	3.95	4.30
38	1	0	0	0.43	0.44	3.70	3.73	5.10	5.14
39	1	0	0	0.84	0.85	2.79	3.00	4.36	4.64
40	1	0	0	0.40	0.40	3.21	3.50	6.66	6.85
41	1	0	0	0.53	0.53	2.78	2.78	4.59	4.59
42	1	0	0	0.41	0.40	2.45	2.46	4.48	4.35
43	1	0	0	0.52	0.52	2.45	2.38	3.92	3.81
44	1	0	0	0.41	0.41	3.66	4.01	6.81	7.11
45	0	0	0	0.43	0.43	3.80	4.22	6.78	7.07
46	1	0	0	0.34	0.35	1.77	1.96	3.33	3.62
47	0	0	0	0.30	0.29	2.80	3.11	5.16	5.46
48	1	0	0	0.62	0.62	3.04	3.04	4.74	4.74
49	1	0	0	0.43	0.43	3.27	3.53	6.53	6.73
50	1	0	0	0.62	0.62	3.06	3.06	5.09	5.09
51	0	0	0	0.55	0.55	3.49	3.50	5.71	5.73
52	1	0	0	0.48	0.46	3.33	3.22	5.29	5.11
53	0	0	0	1.00	1.03	2.54	2.79	4.60	4.86
54	1	0	0	0.50	0.50	4.48	4.49	7.53	7.54
55	1	0	0	0.44	0.44	3.79	3.81	6.88	6.92
56	1	0	0	0.41	0.40	3.79	4.03	5.87	6.19
57	1	0	1	0.37	0.36	3.37	3.31	6.57	6.49
58	1	0	0	0.36	0.36	2.24	2.56	3.88	4.21

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3	1	0	0	0.34	0.34	3.06	3.05	4.84	4.85
4	0	0	0	0.55	0.57	2.40	2.57	3.72	4.00
5	1	0	1	0.49	0.49	3.73	3.73	6.10	6.10
6	1	0	0	0.66	0.67	2.31	2.56	3.95	4.33
7	1	0	0	0.52	0.52	3.63	3.63	5.75	5.76
8	1	0	0	0.54	0.54	4.19	4.26	7.73	7.85
9	1	0	0	1.49	1.52	3.03	3.23	5.35	5.67
10	1	0	0	0.43	0.43	1.96	2.06	3.29	3.33
11	1	0	0	0.46	0.46	3.74	4.06	7.25	7.53
12	1	0	0	1.00	1.03	2.54	2.79	4.61	4.86
13	1	0	0	0.63	0.63	2.73	2.73	5.68	5.68
14	1	0	0	0.38	0.36	3.20	3.04	5.22	4.98
15	0	0	0	0.48	0.50	3.14	3.38	5.07	5.44
16	1	0	0	0.38	0.38	2.12	2.12	3.70	3.71
17	1	0	0	0.67	0.69	3.74	4.20	6.83	7.55
18	0	0	0	0.34	0.34	3.86	3.88	6.88	6.93
19	0	0	0	0.41	0.40	3.24	3.15	5.50	5.33
20	1	0	0	0.39	0.41	4.16	4.37	6.65	7.01
21	1	0	0	0.38	0.38	2.71	2.99	4.50	4.91
22	1	0	0	0.50	0.52	3.05	3.31	5.26	5.77
23	1	0	0	0.48	0.49	3.43	3.43	5.59	5.59
24	1	0	0	0.87	0.87	3.17	3.16	5.16	5.18
25	1	0	0	0.40	0.40	3.82	3.84	7.07	7.10
26	1	0	1	0.63	0.64	3.80	4.15	6.54	7.04
27	1	0	0	0.43	0.45	2.05	2.19	3.23	3.46
28	0	0	0	0.40	0.40	3.22	3.22	4.97	4.98
29	1	0	0	0.34	0.32	3.22	3.20	6.77	6.24
30	1	0	0	0.54	0.54	2.72	2.73	4.32	4.35
31	1	0	0	0.39	0.39	4.38	4.40	6.70	6.72
32	0	0	0	0.34	0.34	2.54	2.79	3.93	4.35
33	1	0	0	0.60	0.61	2.62	2.83	4.36	4.69
34	0	0	0	0.54	0.54	3.64	3.64	5.83	5.83
35	1	0	0	0.36	0.37	3.25	3.55	6.94	7.21
36	1	0	0	0.51	0.51	4.21	4.48	6.90	7.39
37	0	0	1	0.62	0.62	3.05	3.05	4.75	4.75
38	1	0	0	0.60	0.61	2.46	2.76	4.05	4.40
39	1	0	0	0.64	0.63	2.37	2.50	5.54	5.63
40	0	0	0	0.45	0.46	2.18	2.39	3.56	3.90
41	1	0	0	0.95	0.95	3.35	3.35	5.11	5.12
42	1	0	0	0.40	0.43	3.68	4.32	6.54	7.45
43	1	0	0	0.54	0.55	2.23	2.44	3.64	3.87
44	1	0	0	0.40	0.40	3.07	3.08	4.86	4.92
45	0	0	0	0.61	0.63	2.92	2.97	4.78	4.89
46	0	0	0	0.38	0.38	3.08	3.09	5.06	5.07
47	1	0	0	0.49	0.50	2.96	3.23	5.47	6.13
48	1	0	0	0.39	0.39	3.70	3.72	5.94	5.98
49	1	0	0	0.40	0.40	2.54	2.82	4.16	4.54
50	1	0	0	0.49	0.50	3.12	3.38	5.30	5.77
51	1	0	0	0.59	0.60	2.60	2.80	4.24	4.52
52	1	0	0	0.60	0.61	2.47	2.75	4.07	4.40
53	1	0	0	0.57	0.57	2.98	2.97	4.68	4.69
54	0	0	0	0.60	0.61	2.62	2.83	4.36	4.70
55	0	0	0	0.25	0.27	2.29	2.55	4.62	4.94
56	1	0	1	0.30	0.32	3.08	3.45	5.55	6.16
57	1	0	0	0.44	0.44	4.64	4.66	7.37	7.41
58	1	0	0	0.31	0.31	3.36	3.49	6.00	6.08

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2									
3	1	0	0	0.32	0.32	2.79	2.79	5.56	5.56
4	1	0	0	0.61	0.61	3.03	3.04	4.88	4.89
5	0	0	0	0.61	0.61	2.51	2.74	4.18	4.36
6	1	0	1	0.46	0.46	3.16	3.25	5.36	5.37
7	1	0	0	0.37	0.38	2.96	3.28	4.61	5.09
8	0	0	0	0.47	0.50	3.12	3.38	5.03	5.44
9	1	0	0	0.33	0.31	3.37	3.21	6.05	5.79
10	1	0	0	0.36	0.35	3.46	3.67	6.27	6.60
11	0	0	0	0.40	0.42	2.00	2.21	2.93	3.25
12	1	0	0	0.42	0.40	2.63	2.36	4.23	4.02
13	1	0	0	0.61	0.63	3.76	3.82	6.69	6.58
14	1	0	0	0.39	0.42	3.50	4.07	6.26	7.16
15	0	0	0	0.35	0.36	3.74	3.79	7.27	7.42
16	1	0	0	0.49	0.50	2.96	3.23	5.47	6.12
17	1	0	0	0.41	0.41	3.69	4.03	6.51	6.77
18	1	0	0	0.37	0.37	2.96	2.97	4.73	4.75
19	1	0	0	0.38	0.39	1.97	2.13	3.35	3.63
20	1	0	0	1.50	1.52	3.30	3.30	5.61	5.68
21	0	0	0	0.55	0.55	2.26	2.43	3.70	3.85
22	1	0	0	0.92	0.94	2.89	3.13	4.47	4.80
23	1	0	0	0.62	0.62	3.00	2.98	4.62	4.64
24	1	0	0	0.43	0.43	3.81	4.23	6.76	7.07
25	0	0	0	0.39	0.39	4.36	4.39	6.67	6.73
26	1	0	0	0.43	0.43	3.81	3.82	6.95	6.97
27	1	0	0	0.64	0.68	3.88	4.40	6.47	7.39
28	1	0	0	0.65	0.70	3.94	4.56	6.55	7.63
29	1	0	0	0.61	0.62	3.69	4.03	6.77	6.97
30	0	0	0	0.62	0.62	3.04	3.03	4.72	4.72
31	1	0	0	0.51	0.51	2.35	2.59	3.95	4.26
32	1	0	1	0.29	0.29	2.80	3.12	5.14	5.48
33	1	0	0	0.60	0.60	2.65	2.65	4.35	4.36
34	0	0	0	0.44	0.44	3.95	3.95	6.59	6.60
35	0	0	0	0.44	0.44	3.30	3.54	6.46	6.67
36	1	0	1	0.44	0.43	3.83	3.87	6.93	6.74
37	1	0	0	0.52	0.53	3.81	4.01	7.11	7.44
38	0	0	0	0.61	0.63	2.85	2.94	4.33	4.56
39	0	0	0	0.41	0.41	2.58	2.81	4.22	4.50
40	1	0	0	0.31	0.32	3.80	3.83	6.42	6.49
41	1	0	0	0.50	0.50	3.91	3.97	7.27	7.15
42	0	0	0	0.40	0.41	2.48	2.50	3.61	3.64
43	1	0	1	0.54	0.56	2.36	2.71	3.83	4.33
44	1	0	0	0.36	0.36	2.08	2.08	3.81	3.83
45	1	0	0	0.48	0.52	3.09	3.50	4.89	5.52
46	1	0	0	0.36	0.35	3.46	3.66	6.30	6.60
47	1	0	0	0.56	0.56	2.65	2.65	4.11	4.11
48	1	0	0	0.54	0.55	2.24	2.44	3.65	3.86
49	1	0	0	0.32	0.31	3.35	3.33	5.70	5.81
50	0	0	0	0.65	0.66	4.53	4.53	8.23	8.25
51	1	0	0	0.88	0.88	3.20	3.20	5.24	5.24
52	0	0	0	0.86	0.86	3.20	3.21	4.90	4.92
53	1	0	0	0.51	0.53	3.06	3.29	5.10	5.42
54	1	0	0	0.56	0.56	2.90	2.89	4.60	4.61
55	0	0	0	0.57	0.57	2.93	2.92	4.56	4.59
56	1	0	0	0.42	0.42	3.27	3.54	6.50	6.73
57	1	0	0	0.29	0.29	2.80	3.12	5.14	5.48
58	1	0	0	0.37	0.39	3.97	4.12	6.88	7.19

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3	1	0	0	0.49	0.49	2.25	2.47	3.75	4.11
4	1	0	0	0.38	0.37	3.13	3.07	5.48	5.34
5	1	0	0	0.59	0.57	2.84	2.60	4.43	4.09
6	0	0	0	0.61	0.63	2.66	2.91	4.40	4.80
7	0	0	0	0.40	0.40	1.91	2.14	3.08	3.31
8	0	0	0	0.61	0.62	2.97	2.98	4.88	4.93
9	1	0	0	0.44	0.45	3.92	4.16	6.67	7.08
10	1	0	1	0.40	0.40	1.97	2.20	3.07	3.37
11	0	0	0	0.35	0.36	1.76	1.92	3.27	3.47
12	0	0	0	0.88	0.88	3.20	3.20	5.23	5.24
13	1	0	0	0.85	0.86	2.81	2.82	4.80	4.71
14	1	0	0	0.39	0.39	3.50	3.77	6.92	7.11
15	0	0	0	0.38	0.38	2.38	2.72	4.18	4.59
16	0	0	0	0.84	0.86	2.77	2.98	4.56	4.89
17	1	0	0	0.87	0.87	3.19	3.19	5.21	5.22
18	1	0	0	0.50	0.50	2.45	2.36	3.99	3.87
19	1	0	0	0.36	0.36	3.81	3.81	7.50	7.51
20	1	0	0	0.40	0.41	2.25	2.27	3.41	3.44
21	0	0	0	0.37	0.37	2.14	2.14	3.90	3.91
22	0	0	0	0.95	0.95	3.31	3.30	5.03	5.05
23	1	0	0	0.39	0.39	4.00	4.33	6.56	6.99
24	1	0	1	0.43	0.43	1.94	2.08	3.25	3.34
25	1	0	0	0.40	0.40	3.43	3.31	6.81	6.62
26	1	0	0	0.66	0.67	2.32	2.56	3.99	4.33
27	1	0	0	0.58	0.59	4.17	4.37	6.43	6.92
28	1	0	0	0.40	0.39	3.69	4.04	5.95	6.32
29	0	0	0	0.45	0.45	4.49	4.49	7.80	7.80
30	1	0	0	0.84	0.86	2.77	2.98	4.57	4.89
31	0	0	0	0.40	0.40	3.81	3.83	7.06	7.10
32	1	0	0	1.47	1.50	3.02	3.24	5.03	5.19
33	0	0	0	0.59	0.60	2.60	2.81	4.21	4.54
34	1	0	0	0.35	0.35	3.13	3.42	5.44	5.86
35	0	0	0	0.39	0.40	4.04	4.08	7.58	7.66
36	0	0	0	1.44	1.48	2.84	3.10	5.42	5.57
37	1	0	0	0.39	0.39	3.74	4.08	5.91	6.31
38	1	0	0	0.36	0.36	2.82	2.82	4.88	4.88
39	1	0	0	0.54	0.55	2.23	2.44	3.63	3.87
40	1	0	0	0.36	0.36	2.91	3.18	4.86	5.23
41	1	0	0	1.53	1.53	3.43	3.43	5.25	5.32
42	1	0	0	0.38	0.38	3.83	3.84	7.73	7.74
43	1	0	0	0.60	0.61	2.62	2.84	4.34	4.71
44	1	0	0	0.34	0.36	1.75	1.93	3.24	3.50
45	1	0	0	0.40	0.41	3.23	3.52	6.62	6.83
46	1	0	1	0.32	0.32	2.39	2.58	4.79	5.14
47	1	0	0	0.25	0.26	2.23	2.42	4.50	4.77
48	1	0	0	0.39	0.39	2.53	2.80	4.04	4.44
49	0	0	0	0.42	0.45	3.35	3.66	4.63	5.04
50	1	0	0	0.62	0.62	3.04	3.04	4.73	4.73
51	0	0	0	0.66	0.64	2.51	2.54	5.53	5.47
52	0	0	0	1.51	1.52	3.31	3.32	5.63	5.69
53	0	0	0	0.39	0.39	3.83	3.84	7.09	7.10
54	1	0	0	0.66	0.66	4.49	4.51	7.51	7.57
55	0	0	0	0.79	0.79	2.96	2.95	4.63	4.64
56	1	0	0	0.65	0.68	4.42	4.63	8.01	8.45
57	0	0	0	0.48	0.50	3.13	3.38	5.06	5.45
58	1	0	0	0.53	0.53	3.63	3.64	5.77	5.77

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3	0	0	0	0.60	0.61	2.62	2.84	4.34	4.71
4	0	0	0	0.50	0.51	2.32	2.55	3.90	4.24
5	0	0	0	0.63	0.64	3.78	4.13	6.53	7.00
6	1	0	0	0.55	0.55	3.51	3.51	5.74	5.74
7	1	0	0	0.38	0.38	3.79	3.83	7.65	7.74
8	0	0	0	0.63	0.64	3.79	4.13	7.38	7.75
9	0	0	0	0.40	0.39	2.45	2.67	4.30	4.52
10	1	0	1	0.59	0.59	2.30	2.43	5.48	5.54
11	1	0	1	0.52	0.54	4.50	4.61	7.19	7.40
12	1	0	1	0.54	0.54	2.77	2.77	4.43	4.43
13	1	0	0	0.41	0.43	2.03	2.29	3.50	3.93
14	1	0	0	0.40	0.40	3.20	3.21	4.94	4.96
15	1	0	1	0.42	0.42	3.19	3.20	5.39	5.40
16	1	0	1	0.39	0.41	3.97	4.36	6.15	6.69
17	1	0	0	0.92	0.94	2.89	3.13	4.47	4.80
18	1	0	1	0.62	0.63	3.71	4.13	6.70	7.07
19	1	0	1	0.38	0.39	1.38	1.58	2.73	2.88
20	0	0	0	0.56	0.56	2.48	2.67	4.08	4.29
21	0	0	0	0.45	0.46	4.40	4.45	7.50	7.60
22	1	0	1	0.53	0.53	3.10	3.18	5.28	5.34
23	0	0	0	0.40	0.40	3.09	3.10	4.90	4.95
24	0	0	0	0.51	0.51	3.67	3.67	6.28	6.29
25	1	0	0	0.41	0.41	1.81	2.02	2.89	3.14
26	0	0	0	0.38	0.39	4.34	4.39	6.66	6.73
27	1	0	1	0.36	0.37	1.77	1.89	3.13	3.24
28	1	0	0	0.62	0.62	3.03	3.03	4.71	4.72
29	1	0	0	0.40	0.40	3.12	3.12	4.98	4.99
30	1	0	1	0.68	0.69	4.45	4.49	7.78	7.88
31	1	0	0	0.39	0.39	2.52	2.81	4.02	4.46
32	1	0	0	1.49	1.50	3.06	3.09	5.23	5.06
33	0	0	0	0.41	0.42	2.98	3.28	4.84	5.22
34	1	0	0	0.34	0.34	3.99	4.00	6.73	6.75
35	1	0	0	0.51	0.51	3.20	3.20	5.70	5.71
36	0	0	0	0.92	0.94	2.87	3.14	4.43	4.80
37	1	0	1	0.40	0.40	3.58	3.78	5.28	5.80
38	0	0	0	0.41	0.41	1.85	2.06	2.91	3.18
39	1	0	0	0.59	0.61	2.44	2.76	4.01	4.40
40	0	0	0	0.47	0.50	3.09	3.36	4.95	5.34
41	1	0	0	0.45	0.45	3.82	4.14	6.98	7.26
42	0	0	0	0.44	0.44	3.82	4.14	7.20	7.49
43	0	0	0	0.49	0.49	2.34	2.40	3.96	4.00
44	1	0	0	0.55	0.55	2.85	2.85	5.57	5.57
45	1	0	0	0.37	0.36	2.93	3.25	5.16	5.56
46	1	0	0	0.40	0.39	3.08	3.38	5.19	5.53
47	0	0	0	0.50	0.50	3.16	3.37	5.34	5.74
48	0	0	0	0.54	0.55	3.56	3.58	6.26	6.29
49	0	0	0	0.56	0.57	2.66	2.77	4.14	4.38
50	1	0	0	0.37	0.38	4.23	4.26	6.52	6.57
51	1	0	0	0.44	0.44	3.79	3.81	6.87	6.92
52	1	0	0	0.49	0.53	3.21	3.55	5.07	5.57
53	1	0	0	0.60	0.61	2.47	2.75	4.07	4.40
54	1	0	0	0.53	0.56	2.19	2.47	4.36	4.89
55	0	0	0	0.41	0.41	4.38	4.38	7.44	7.44
56	1	0	0	0.39	0.39	2.52	2.81	4.02	4.46
57	1	0	0	0.46	0.46	3.17	3.24	5.38	5.36
58	0	0	0	0.38	0.39	3.24	3.53	6.58	6.82

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3	1	0	1	0.60	0.60	3.02	3.02	4.86	4.87
4	0	0	0	0.34	0.36	1.75	1.93	3.23	3.51
5	0	0	0	0.40	0.40	3.19	3.20	4.93	4.95
6	0	0	1	0.35	0.35	3.44	3.74	5.96	6.64
7	1	0	0	0.35	0.34	3.30	3.23	6.32	5.96
8	0	0	0	0.95	0.95	3.36	3.36	5.13	5.13
9	1	0	0	0.42	0.43	3.30	3.44	4.96	5.45
10	0	0	0	0.51	0.49	3.15	3.14	5.35	5.18
11	1	0	0	0.84	0.86	2.74	2.99	4.50	4.90
12	1	0	0	0.87	0.87	3.20	3.19	5.22	5.23
13	1	0	0	0.95	0.94	2.95	2.92	4.82	4.66
14	0	0	0	0.60	0.60	2.64	2.65	4.35	4.36
15	1	0	0	0.36	0.36	3.68	3.68	6.18	6.20
16	0	0	0	0.43	0.45	4.49	4.65	7.15	7.43
17	0	0	0	0.40	0.40	3.22	3.23	5.33	5.34
18	1	0	0	0.39	0.39	4.36	4.39	6.68	6.73
19	0	0	0	0.51	0.55	3.00	3.33	5.01	5.49
20	1	0	0	0.34	0.36	1.75	1.93	3.24	3.50
21	1	0	0	1.51	1.52	3.32	3.33	5.66	5.70
22	1	0	0	0.26	0.26	2.60	2.60	5.04	5.04
23	1	0	0	0.49	0.49	4.28	4.30	7.81	7.85
24	1	0	0	0.39	0.39	2.52	2.81	4.02	4.46
25	0	0	0	0.40	0.40	3.21	3.50	6.66	6.84
26	0	0	0	0.41	0.41	1.73	1.95	2.88	3.07
27	1	0	1	0.55	0.55	2.60	2.60	5.24	5.25
28	0	0	0	0.44	0.45	3.96	4.06	7.00	7.18
29	1	0	1	0.40	0.41	3.74	3.76	6.55	6.60
30	1	0	0	0.52	0.52	3.62	3.64	5.81	5.83
31	1	0	0	0.35	0.37	3.24	3.69	6.67	7.46
32	0	0	0	0.66	0.67	2.33	2.55	4.01	4.32
33	0	0	0	0.51	0.51	3.15	3.15	5.64	5.65
34	1	0	0	0.48	0.48	3.42	3.42	5.56	5.58
35	1	0	0	0.66	0.68	4.43	4.57	7.35	7.66
36	1	0	0	0.68	0.70	4.39	4.53	7.65	7.96
37	1	0	0	0.63	0.61	2.66	2.54	4.37	4.15
38	1	0	0	0.52	0.52	3.62	3.63	5.73	5.75
39	1	0	1	0.57	0.58	2.45	2.51	5.44	5.55
40	0	0	0	0.51	0.51	3.17	3.17	5.66	5.67
41	1	0	0	0.50	0.50	4.46	4.50	7.50	7.57
42	0	0	0	0.60	0.62	3.72	3.91	6.92	6.88
43	1	0	1	0.64	0.66	4.46	4.61	7.29	7.60
44	1	0	0	0.36	0.36	4.15	4.16	6.65	6.66
45	1	0	0	1.52	1.52	3.37	3.37	5.74	5.75
46	0	0	0	0.51	0.51	3.26	3.30	5.38	5.38
47	1	0	0	0.38	0.39	3.73	3.82	7.49	7.72
48	0	0	0	0.32	0.32	3.17	3.42	6.12	6.39
49	1	0	1	0.43	0.43	3.80	3.82	6.95	6.98
50	0	0	0	0.39	0.40	3.21	3.52	6.64	6.87
51	1	0	0	0.94	0.95	3.22	3.25	4.88	4.95
52	0	0	0	0.63	0.63	2.73	2.73	5.68	5.68
53	0	0	0	0.85	0.86	2.77	2.95	4.63	4.84
54	1	0	0	0.87	0.87	3.16	3.14	5.11	5.14
55	1	0	1	0.49	0.50	2.70	2.96	5.23	5.48
56	1	0	0	0.40	0.40	3.10	3.10	4.92	4.96
57	0	0	0	0.25	0.26	2.23	2.41	4.50	4.77
58	1	0	0	0.38	0.37	3.27	3.14	5.68	5.47

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3	0	0	0	0.41	0.41	2.50	2.49	4.54	4.58
4	0	0	0	0.38	0.39	2.67	2.94	4.50	4.91
5	0	0	0	0.84	0.86	2.76	2.98	4.55	4.90
6	1	0	0	1.44	1.48	2.85	3.09	5.45	5.56
7	0	0	0	0.43	0.44	3.70	3.72	5.10	5.13
8	1	0	0	0.45	0.45	3.79	3.81	6.83	6.87
9	0	0	0	0.60	0.61	2.46	2.75	4.06	4.40
10	1	0	0	0.52	0.52	2.45	2.37	3.91	3.80
11	1	0	0	0.51	0.51	3.21	3.21	5.72	5.72
12	1	0	0	0.50	0.52	2.33	2.59	3.85	4.27
13	1	0	0	0.43	0.44	2.43	2.43	4.14	4.20
14	1	0	1	0.38	0.36	3.28	3.16	5.68	5.48
15	1	0	0	0.53	0.53	3.31	3.43	5.26	5.53
16	0	0	0	1.52	1.52	3.36	3.36	5.73	5.74
17	1	0	0	1.00	1.02	2.55	2.79	4.64	4.84
18	1	0	0	0.54	0.56	2.35	2.66	3.79	4.27
19	0	0	1	0.84	0.85	2.79	2.98	4.40	4.62
20	0	0	0	0.55	0.56	2.41	2.71	3.95	4.34
21	1	0	0	0.86	0.88	2.82	3.07	4.61	5.00
22	1	0	1	0.47	0.46	3.30	3.20	5.34	5.19
23	1	0	1	0.60	0.61	2.62	2.84	4.34	4.71
24	0	0	0	0.61	0.61	2.66	2.66	4.38	4.39
25	0	0	0	1.51	1.52	3.34	3.34	5.68	5.72
26	0	0	0	0.35	0.36	3.24	3.53	6.82	7.07
27	1	0	0	0.95	0.95	3.34	3.33	5.09	5.10
28	0	0	0	0.41	0.42	2.64	2.95	4.60	5.06
29	1	0	0	0.85	0.86	2.78	2.83	4.78	4.73
30	0	0	0	0.60	0.61	2.62	2.84	4.34	4.71
31	0	0	0	1.44	1.48	2.83	3.10	5.40	5.57
32	1	0	0	0.40	0.41	3.61	3.53	5.89	6.06
33	1	0	0	0.52	0.52	3.99	4.04	7.08	6.92
34	1	0	0	0.43	0.46	3.28	3.81	6.30	7.07
35	0	0	0	0.37	0.37	2.16	2.16	3.89	3.90
36	1	0	0	0.52	0.54	3.46	3.57	5.55	5.68
37	0	0	0	0.62	0.62	3.02	3.01	4.99	5.01
38	0	0	0	0.41	0.41	2.19	2.35	3.86	4.15
39	1	0	1	0.52	0.53	2.33	2.52	3.84	4.08
40	1	0	0	0.86	0.86	3.24	3.24	4.98	4.98
41	1	0	0	0.54	0.55	2.22	2.44	3.62	3.87
42	1	0	0	0.39	0.39	3.81	3.84	7.05	7.10
43	0	0	0	0.39	0.39	3.72	3.73	5.99	5.99
44	1	0	0	0.51	0.50	3.19	3.15	5.34	5.12
45	1	0	1	0.49	0.49	3.63	3.63	5.83	5.84
46	1	0	1	0.52	0.55	3.94	4.55	6.65	7.49
47	1	0	0	0.92	0.94	2.86	3.14	4.43	4.80
48	1	0	1	0.45	0.47	3.17	3.59	4.94	5.55
49	1	0	0	0.34	0.35	3.29	3.56	6.55	6.88
50	1	0	0	0.39	0.39	4.39	4.40	6.71	6.72
51	1	0	1	0.46	0.46	3.77	3.77	5.74	5.75
52	1	0	1	0.36	0.36	4.13	4.13	6.93	6.94
53	1	0	0	0.43	0.45	2.05	2.19	3.24	3.46
54	1	0	0	0.36	0.36	3.27	3.55	6.48	6.79
55	1	0	1	0.44	0.44	2.50	2.50	4.32	4.32
56	1	0	0	0.44	0.44	3.81	3.81	6.91	6.92
57	0	0	0	0.52	0.55	3.84	4.33	7.11	7.96
58	0	0	0	0.36	0.37	2.08	2.10	3.76	3.84

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2									
3	1	0	0	0.54	0.55	2.23	2.44	3.63	3.87
4	0	0	0	0.40	0.40	2.26	2.26	3.43	3.43
5	1	0	0	0.42	0.41	2.81	2.71	4.50	4.30
6	1	0	1	0.41	0.41	4.43	4.45	6.75	6.78
7	0	0	0	0.40	0.42	4.35	4.46	6.90	7.10
8	1	0	1	0.56	0.57	2.69	2.77	4.19	4.38
9	0	0	0	0.45	0.46	2.20	2.41	3.87	4.32
10	1	0	1	0.39	0.39	4.38	4.40	6.70	6.72
11	0	0	0	0.53	0.55	2.40	2.65	3.78	4.22
12	1	0	0	0.55	0.55	2.60	2.60	5.24	5.25
13	1	0	0	0.44	0.47	3.00	3.35	4.84	5.41
14	1	0	0	0.69	0.69	2.79	2.79	4.67	4.67
15	1	0	0	0.46	0.46	3.77	3.77	5.74	5.75
16	0	0	0	0.53	0.53	3.63	3.64	5.82	5.83
17	0	0	0	0.41	0.41	2.55	2.55	4.67	4.67
18	1	0	0	0.41	0.40	2.57	2.82	4.20	4.52
19	1	0	0	0.52	0.53	3.61	3.63	5.68	5.71
20	1	0	1	0.53	0.53	3.63	3.64	5.77	5.77
21	1	0	1	0.55	0.56	2.44	2.67	4.02	4.30
22	1	0	0	0.36	0.37	3.82	3.85	7.31	7.37
23	0	0	0	0.37	0.37	2.97	3.21	5.21	5.49
24	1	0	0	0.61	0.61	2.66	2.66	4.38	4.39
25	1	0	0	0.35	0.37	1.84	2.04	3.34	3.67
26	0	0	0	0.42	0.41	2.65	2.36	4.26	4.03
27	1	0	1	0.39	0.39	3.29	3.29	5.36	5.36
28	0	0	0	0.58	0.60	2.20	2.44	3.68	4.04
29	1	0	1	0.48	0.49	2.29	2.37	5.21	5.33
30	1	0	0	0.54	0.54	2.75	2.75	4.38	4.39
31	1	0	0	0.53	0.54	4.20	4.22	7.78	7.81
32	1	0	1	0.60	0.60	3.03	3.03	4.87	4.87
33	0	0	0	0.44	0.44	4.58	4.64	7.63	7.74
34	1	0	0	0.40	0.40	2.52	2.83	4.11	4.56
35	1	0	0	0.34	0.34	3.78	3.78	7.38	7.39
36	0	0	0	0.39	0.40	3.00	3.09	4.98	5.12
37	1	0	0	0.55	0.55	2.59	2.59	5.22	5.23
38	1	0	0	0.52	0.52	2.69	2.71	4.42	4.46
39	1	0	0	0.55	0.55	2.85	2.85	5.56	5.57
40	0	0	0	0.56	0.55	2.38	2.28	3.83	3.68
41	0	0	0	0.46	0.46	2.52	2.53	4.54	4.60
42	0	0	0	0.41	0.44	2.98	3.33	4.74	5.34
43	1	0	0	0.53	0.53	2.77	2.77	4.58	4.58
44	1	0	0	0.66	0.69	4.38	4.62	7.24	7.73
45	0	0	0	0.41	0.40	2.56	2.90	4.01	4.50
46	1	0	0	0.75	0.77	2.47	2.60	4.14	4.17
47	0	0	0	0.59	0.60	3.71	4.08	7.48	7.86
48	1	0	0	0.43	0.43	3.88	4.25	6.64	7.00
49	0	0	0	0.58	0.60	2.60	2.82	4.20	4.55
50	1	0	0	0.36	0.37	3.76	3.84	7.22	7.36
51	0	0	0	0.37	0.37	3.30	3.48	7.09	7.12
52	0	0	0	0.50	0.51	2.32	2.54	3.91	4.24
53	1	0	0	0.87	0.87	3.18	3.17	5.19	5.20
54	1	0	0	0.37	0.38	2.97	3.29	4.61	5.10
55	1	0	1	0.50	0.53	3.44	3.55	5.41	5.56
56	0	0	0	0.85	0.86	3.17	3.19	4.85	4.89
57	1	0	0	0.87	0.88	2.96	3.13	4.78	5.09
58	1	0	0	0.69	0.69	2.80	2.80	4.68	4.68

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3	1	0	1	0.52	0.51	3.24	3.20	5.44	5.25
4	1	0	0	0.56	0.55	2.42	2.43	4.26	4.60
5	0	0	0	0.46	0.46	3.62	3.62	5.75	5.76
6	1	0	1	0.37	0.37	3.79	3.84	7.03	7.11
7	1	0	0	0.53	0.54	2.25	2.44	4.17	4.72
8	0	0	0	0.40	0.39	3.69	4.04	5.95	6.32
9	0	0	0	0.50	0.53	3.33	3.56	5.31	5.61
10	1	0	0	0.63	0.63	2.71	2.71	5.64	5.66
11	0	0	0	0.60	0.60	2.95	2.97	4.73	4.77
12	1	0	0	0.43	0.43	3.75	3.75	5.16	5.17
13	0	0	0	1.44	1.47	2.89	3.08	5.53	5.54
14	1	0	0	0.62	0.62	3.05	3.05	4.75	4.75
15	0	0	0	0.53	0.52	2.96	2.94	5.34	5.19
16	1	0	0	0.47	0.48	2.45	2.56	5.15	5.15
17	0	0	0	0.85	0.86	2.77	2.97	4.61	4.87
18	0	0	0	0.40	0.41	2.19	2.24	3.29	3.37
19	1	0	0	0.56	0.56	2.65	2.65	4.10	4.11
20	1	0	0	0.35	0.36	2.01	2.04	3.66	3.74
21	1	0	0	0.51	0.52	4.20	3.99	6.55	6.82
22	1	0	1	0.37	0.36	2.32	2.27	3.93	3.87
23	1	0	0	0.35	0.37	1.77	1.98	3.30	3.62
24	1	0	1	0.40	0.41	2.99	3.05	4.71	4.85
25	1	0	0	0.36	0.36	2.26	2.55	3.90	4.20
26	1	0	1	0.87	0.87	3.19	3.18	5.20	5.21
27	1	0	1	0.50	0.51	2.32	2.54	3.92	4.24
28	1	0	0	0.51	0.51	4.18	4.50	6.83	7.39
29	1	0	1	0.34	0.35	3.67	3.87	6.38	6.80
30	1	0	0	0.36	0.36	3.59	3.59	6.01	6.03
31	0	0	0	0.43	0.43	3.80	4.21	6.78	7.06
32	1	0	0	0.61	0.61	2.57	2.70	4.31	4.32
33	1	0	0	0.40	0.40	3.24	3.24	5.00	5.01
34	1	0	0	0.50	0.50	4.48	4.49	7.52	7.55
35	1	0	0	1.44	1.48	2.82	3.10	5.38	5.57
36	0	0	1	0.61	0.62	2.38	2.70	3.91	4.33
37	1	0	0	0.83	0.85	2.79	3.02	4.34	4.66
38	1	0	1	0.38	0.39	4.01	4.32	6.59	7.01
39	1	0	1	0.52	0.52	4.19	3.96	6.84	6.93
40	1	0	1	0.50	0.51	2.33	2.53	3.94	4.22
41	1	0	1	0.41	0.42	3.50	3.57	5.44	5.54
42	1	0	1	0.43	0.43	1.92	2.09	3.21	3.36
43	1	0	0	0.63	0.61	2.65	2.53	4.36	4.15
44	1	0	0	0.51	0.49	3.20	3.12	5.36	5.10
45	1	0	0	0.85	0.86	2.79	2.83	4.79	4.72
46	1	0	0	0.88	0.88	3.21	3.21	5.25	5.25
47	1	0	0	0.45	0.46	3.60	3.61	5.71	5.74
48	1	0	0	0.52	0.52	2.46	2.58	4.14	4.21
49	1	0	0	0.55	0.55	2.30	2.39	3.81	3.82
50	1	0	0	0.52	0.49	3.11	3.10	5.21	5.06
51	1	0	0	0.60	0.60	3.03	3.03	4.87	4.87
52	1	0	1	0.61	0.62	3.75	3.78	6.66	6.58
53	1	0	0	0.64	0.64	3.02	3.01	4.75	4.75
54	1	0	1	0.87	0.87	3.14	3.14	5.09	5.13
55	1	0	0	0.52	0.53	3.60	3.62	5.67	5.70
56	0	0	1	0.95	0.95	3.35	3.35	5.11	5.12
57	1	0	1	0.34	0.35	1.80	1.99	3.52	3.83
58	1	0	0	0.76	0.78	2.39	2.66	3.99	4.29

1										
2										
3	0	0	0	0.38	0.39	2.98	3.01	4.61	4.73	
4	1	1	1	0.53	0.55	2.19	2.46	4.33	4.87	
5	1	0	0	0.40	0.40	3.23	3.23	4.99	4.99	
6	1	0	0	0.51	0.49	3.11	3.09	5.24	5.08	
7	1	0	1	0.34	0.34	1.73	1.77	3.33	3.32	
8	1	0	0	0.66	0.67	2.38	2.53	4.10	4.26	
9	1	0	0	0.47	0.49	3.28	3.34	5.34	5.45	
10	1	0	0	0.32	0.32	2.79	2.79	5.55	5.56	
11	1	0	0	0.87	0.88	3.06	3.11	4.92	5.06	
12	1	0	0	0.63	0.64	3.80	4.15	6.54	7.04	
13	1	0	0	0.62	0.61	2.52	2.44	4.18	4.02	
14	1	0	1	0.88	0.88	3.20	3.20	5.24	5.25	
15	1	0	0	0.57	0.57	3.00	2.99	4.73	4.73	
16	1	0	0	0.41	0.43	2.98	3.29	4.91	5.32	
17	0	0	0	0.60	0.60	2.68	2.65	4.56	4.45	
18	1	0	1	0.60	0.61	2.47	2.75	4.08	4.40	
19	1	0	1	0.52	0.53	2.39	2.43	3.97	3.91	
20	1	0	1	0.42	0.43	2.99	3.28	4.95	5.31	
21	1	0	0	0.62	0.62	3.06	3.05	5.08	5.08	
22	0	0	0	0.39	0.40	3.43	3.81	6.12	6.76	
23	1	0	0	0.95	0.93	2.96	2.91	4.88	4.66	
24	1	0	0	0.46	0.46	3.63	3.63	5.77	5.77	
25	1	0	0	0.54	0.56	3.52	3.60	5.76	5.84	
26	1	0	0	0.47	0.52	3.07	3.47	4.86	5.49	
27	0	0	0	0.56	0.57	3.90	3.99	7.12	6.91	
28	0	0	0	0.45	0.47	3.61	3.69	5.46	5.61	
29	1	0	1	0.60	0.60	2.99	3.00	4.80	4.82	
30	1	0	0	0.56	0.56	2.66	2.66	4.12	4.13	
31	1	0	1	0.39	0.39	4.37	4.39	6.69	6.73	
32	1	0	1	0.93	0.95	2.57	2.82	4.56	4.83	
33	1	0	0	0.50	0.52	2.35	2.60	3.84	4.27	
34	1	1	1	0.41	0.43	2.05	2.26	3.60	3.93	
35	1	0	0	0.40	0.40	3.83	3.83	7.04	7.04	
36	1	0	0	0.52	0.51	2.94	3.00	5.22	5.16	
37	1	0	0	0.44	0.44	2.49	2.48	4.28	4.29	
38	1	0	0	0.43	0.43	1.94	2.08	3.24	3.34	
39	1	0	0	0.40	0.40	3.75	4.13	6.20	6.74	
40	0	0	0	0.63	0.64	3.79	4.13	7.38	7.74	
41	0	0	0	0.43	0.43	3.97	4.07	7.07	7.13	
42	1	0	0	0.45	0.47	2.85	3.13	4.94	5.25	
43	1	0	0	0.50	0.52	3.53	3.62	6.08	6.19	
44	1	0	1	0.63	0.63	2.69	2.69	5.62	5.63	
45	1	0	0	0.34	0.34	3.78	3.78	7.38	7.39	
46	1	0	0	0.34	0.33	3.39	3.26	6.20	5.89	
47	0	0	0	0.44	0.44	3.31	3.53	6.48	6.65	
48	1	0	0	0.62	0.62	2.55	2.49	4.18	4.03	
49	1	0	1	0.54	0.56	2.22	2.47	3.53	3.89	
50	1	0	0	0.45	0.46	4.42	4.45	7.52	7.58	
51	1	0	0	0.41	0.41	1.64	1.83	2.88	2.96	
52	1	0	0	0.41	0.40	2.79	2.65	4.36	4.22	
53	0	0	0	0.50	0.53	2.78	3.06	5.24	5.59	
54	1	0	1	0.46	0.46	4.43	4.43	7.51	7.52	
55	1	0	1	0.39	0.41	4.58	4.81	7.18	7.62	
56	1	0	0	0.86	0.86	3.23	3.23	4.95	4.96	
57	1	0	1	0.55	0.53	3.27	3.24	5.55	5.33	
58	1	0	0	0.55	0.56	2.42	2.67	3.97	4.30	

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2									
3	0	0	0	0.36	0.37	4.09	4.14	6.79	6.92
4	1	0	0	0.41	0.41	3.80	3.83	7.02	7.07
5	1	0	1	0.56	0.56	2.90	2.90	4.61	4.62
6	1	0	0	0.61	0.61	2.71	2.69	4.55	4.48
7	1	0	1	0.85	0.86	3.13	3.17	4.78	4.84
8	1	0	1	0.58	0.60	2.36	2.34	3.92	3.86
9	0	0	0	0.54	0.54	4.19	4.26	7.72	7.85
10	1	0	0	0.38	0.38	3.04	3.05	4.98	5.00
11	0	0	0	0.35	0.36	3.87	3.94	7.06	7.24
12	1	0	0	0.36	0.38	1.97	2.06	3.42	3.59
13	0	0	0	0.51	0.51	3.67	3.67	6.29	6.29
14	1	0	0	0.37	0.38	3.29	3.63	5.87	6.47
15	1	0	1	0.55	0.55	2.36	2.44	4.21	4.65
16	1	0	0	0.49	0.51	2.92	3.26	5.61	6.24
17	1	0	0	0.38	0.39	3.69	3.82	7.40	7.71
18	1	0	0	0.34	0.35	1.81	1.97	3.29	3.59
19	1	0	1	0.87	0.88	3.02	3.12	4.87	5.07
20	1	0	1	0.47	0.47	3.18	3.19	5.46	5.49
21	1	0	0	0.41	0.41	4.48	4.48	7.12	7.14
22	0	0	0	0.39	0.41	1.47	1.69	2.61	2.92
23	0	0	0	0.64	0.66	4.46	4.61	7.29	7.60
24	1	0	1	0.54	0.54	4.19	4.25	7.75	7.83
25	1	0	0	0.51	0.51	2.33	2.51	3.98	4.19
26	1	0	1	0.92	0.94	2.90	3.13	4.48	4.80
27	1	0	1	0.51	0.51	3.19	3.20	5.70	5.71
28	1	0	1	0.50	0.50	3.99	3.85	7.16	6.97
29	1	0	0	0.45	0.45	3.32	3.55	6.41	6.63
30	1	0	1	0.55	0.55	2.83	2.83	5.52	5.54
31	0	0	0	0.39	0.39	2.60	2.59	4.49	4.51
32	0	0	0	0.39	0.40	4.63	4.66	7.41	7.47
33	1	0	0	0.42	0.42	3.28	3.53	6.51	6.71
34	1	0	0	0.60	0.61	2.62	2.84	4.34	4.71
35	1	0	1	0.65	0.69	4.08	4.65	7.54	8.56
36	1	0	0	0.39	0.38	2.40	2.71	4.21	4.57
37	1	0	1	0.44	0.44	2.49	2.49	4.29	4.30
38	0	0	0	0.66	0.67	2.33	2.56	4.00	4.33
39	1	0	1	0.39	0.42	4.57	4.86	7.18	7.71
40	0	0	0	0.61	0.61	3.05	3.05	4.90	4.90
41	1	0	1	0.84	0.85	2.76	2.90	4.48	4.56
42	0	0	0	1.47	1.50	3.02	3.25	5.01	5.19
43	1	0	0	0.29	0.31	3.18	3.50	5.62	6.19
44	1	0	1	0.35	0.35	1.32	1.29	3.25	3.09
45	0	0	0	0.95	0.95	3.36	3.36	5.13	5.13
46	1	0	0	0.59	0.60	2.60	2.81	4.22	4.53
47	1	0	1	0.52	0.52	3.63	3.63	5.76	5.76
48	1	0	1	0.42	0.40	3.30	3.18	5.50	5.32
49	1	0	0	0.52	0.53	3.50	3.58	5.60	5.71
50	1	0	0	0.64	0.64	4.53	4.58	7.42	7.52
51	1	0	1	0.45	0.46	4.43	4.45	7.55	7.57
52	1	0	0	1.53	1.53	3.46	3.46	5.34	5.36
53	1	0	0	0.52	0.52	2.98	3.01	5.33	5.25
54	1	0	1	0.62	0.64	3.73	4.04	6.53	6.87
55	1	1	1	0.60	0.61	2.63	2.82	4.37	4.69
56	1	0	1	0.63	0.64	3.80	4.16	7.40	7.80
57	1	0	0	0.45	0.45	4.29	4.34	7.33	7.43
58	1	0	0	0.38	0.39	2.54	2.83	4.20	4.66

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3	1	0	0	0.37	0.37	3.78	3.83	7.01	7.11
4	0	0	0	0.61	0.61	2.66	2.66	4.39	4.39
5	1	0	0	0.40	0.40	2.56	2.84	4.36	4.78
6	1	0	0	0.63	0.64	3.78	4.13	6.53	7.01
7	1	0	0	0.61	0.61	2.68	2.68	4.41	4.41
8	1	0	0	0.93	0.95	2.57	2.82	4.54	4.83
9	1	0	0	0.41	0.40	3.66	3.70	6.10	6.00
10	1	0	0	0.33	0.33	1.87	1.95	3.44	3.57
11	1	0	0	0.50	0.53	2.34	2.60	3.86	4.28
12	1	0	0	0.34	0.34	2.08	2.08	3.89	3.90
13	1	0	0	0.33	0.32	3.23	3.45	6.05	6.33
14	0	0	0	0.66	0.67	2.33	2.56	4.00	4.33
15	1	0	1	0.51	0.51	3.67	3.67	6.28	6.29
16	1	0	0	0.51	0.50	3.24	3.19	5.47	5.24
17	1	0	0	0.57	0.56	2.64	2.66	4.33	4.24
18	1	0	1	0.52	0.53	3.81	4.00	7.09	7.41
19	0	0	0	0.36	0.36	3.04	3.35	5.30	5.72
20	1	0	1	0.44	0.44	3.80	3.81	6.90	6.92
21	1	0	1	0.37	0.39	2.66	2.98	4.40	4.91
22	1	0	0	0.47	0.47	3.22	3.23	5.52	5.53
23	1	0	0	0.39	0.39	3.81	3.84	7.06	7.10
24	1	0	1	0.50	0.50	4.48	4.49	7.53	7.54
25	1	0	0	1.51	1.52	3.36	3.36	5.72	5.73
26	1	0	1	0.63	0.64	3.79	4.14	6.54	7.03
27	1	0	0	0.45	0.45	3.80	4.12	7.01	7.28
28	0	0	0	1.47	1.50	3.02	3.25	5.01	5.19
29	0	0	0	0.62	0.62	3.02	3.01	4.99	5.01
30	1	0	1	0.66	0.66	2.53	2.43	4.20	4.07
31	1	0	1	1.45	1.48	2.80	3.10	5.33	5.56
32	1	0	1	0.45	0.46	2.20	2.41	3.86	4.32
33	0	0	0	1.50	1.52	3.28	3.29	5.58	5.67
34	1	0	0	0.37	0.38	2.96	3.29	4.66	5.13
35	0	0	0	0.59	0.59	2.29	2.40	3.84	3.97
36	1	0	1	0.37	0.38	3.32	3.53	7.37	7.45
37	1	0	1	0.50	0.50	4.46	4.49	7.51	7.56
38	1	0	1	1.47	1.50	3.02	3.25	5.00	5.19
39	1	0	0	0.42	0.42	3.20	3.20	5.39	5.40
40	1	0	1	0.34	0.35	1.79	2.00	3.49	3.82
41	1	0	0	0.64	0.64	4.54	4.57	7.44	7.50
42	1	0	0	0.43	0.44	2.44	2.44	4.16	4.21
43	0	0	0	0.40	0.39	3.69	4.04	5.95	6.33
44	1	0	0	0.64	0.63	2.41	2.57	5.35	5.51
45	1	0	1	0.63	0.63	2.35	2.51	5.50	5.64
46	1	0	0	0.55	0.55	3.52	3.52	5.75	5.75
47	1	0	0	0.65	0.64	2.42	2.56	5.39	5.50
48	1	0	0	0.59	0.61	2.42	2.76	3.93	4.39
49	1	0	1	0.40	0.40	2.53	2.83	4.14	4.55
50	0	0	0	0.84	0.86	2.77	2.86	4.77	4.76
51	1	0	0	0.50	0.49	3.19	3.18	5.36	5.19
52	1	0	0	0.40	0.40	2.53	2.83	4.12	4.56
53	0	0	1	0.38	0.38	3.82	3.84	7.70	7.74
54	1	0	1	0.39	0.41	2.06	2.33	3.80	4.28
55	1	0	1	0.64	0.64	3.03	3.03	4.77	4.77
56	1	0	1	0.54	0.54	4.20	4.23	7.77	7.82
57	1	0	1	0.41	0.43	2.03	2.28	3.52	3.94
58	0	0	1	1.44	1.47	2.86	3.09	5.47	5.56

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3	1	0	0	1.05	1.05	3.05	3.05	5.12	5.12
4	1	0	0	0.41	0.41	1.60	1.80	2.86	2.88
5	1	0	1	0.65	0.67	3.63	4.00	6.89	7.26
6	1	1	1	0.79	0.79	2.95	2.95	4.63	4.63
7	1	0	0	0.58	0.58	2.61	2.61	5.68	5.68
8	1	0	1	0.69	0.69	2.80	2.80	4.68	4.68
9	0	0	0	0.66	0.68	2.41	2.69	4.01	4.31
10	0	0	0	0.36	0.37	3.24	3.55	6.95	7.40
11	0	0	0	0.38	0.38	3.39	3.49	7.60	7.40
12	0	0	0	0.43	0.43	1.90	2.09	3.18	3.37
13	1	0	0	0.43	0.44	2.40	2.42	4.08	4.17
14	1	0	1	0.35	0.36	1.75	1.94	3.15	3.43
15	0	0	0	0.52	0.52	3.88	4.21	6.81	7.03
16	0	0	0	0.35	0.37	3.47	3.59	5.80	6.05
17	1	0	0	0.53	0.53	3.63	3.63	5.73	5.73
18	0	0	0	0.54	0.54	2.75	2.75	4.38	4.39
19	1	0	0	1.51	1.52	3.35	3.35	5.71	5.73
20	1	0	0	0.33	0.34	3.24	3.51	6.89	7.13
21	1	0	0	0.63	0.61	2.61	2.52	4.33	4.15
22	0	0	0	0.32	0.35	1.80	2.01	3.66	4.07
23	0	0	0	0.61	0.62	2.96	2.97	4.87	4.92
24	0	0	0	0.52	0.52	3.54	3.55	6.83	6.84
25	0	0	0	0.55	0.56	2.52	2.56	3.88	3.97
26	0	0	0	0.38	0.38	2.69	2.94	4.45	4.84
27	0	0	0	0.95	0.95	3.34	3.34	5.10	5.11
28	0	0	0	0.95	0.95	3.30	3.29	5.00	5.03
29	1	0	0	0.59	0.60	3.71	4.06	7.48	7.82
30	1	0	0	0.62	0.63	2.89	2.97	4.73	4.89
31	0	0	0	0.33	0.32	3.23	3.45	6.05	6.33
32	0	0	0	1.43	1.46	3.08	2.98	5.74	5.51
33	0	0	0	0.43	0.43	2.26	2.26	3.51	3.53
34	0	0	0	0.60	0.61	2.63	2.82	4.37	4.69
35	1	0	0	0.35	0.35	3.94	3.95	7.25	7.26
36	1	0	0	0.61	0.62	2.99	2.97	4.60	4.62
37	0	0	0	0.64	0.63	2.37	2.50	5.56	5.63
38	1	0	0	0.41	0.41	3.27	3.48	6.68	6.77
39	1	0	0	0.46	0.46	3.75	3.76	5.71	5.73
40	1	0	1	0.39	0.39	1.69	1.69	2.73	2.75
41	1	0	0	0.35	0.36	1.76	1.92	3.19	3.41
42	1	0	0	0.41	0.41	1.64	1.78	2.85	2.84
43	1	0	0	0.85	0.86	3.14	3.17	4.80	4.85
44	1	0	0	0.47	0.50	3.09	3.36	4.95	5.34
45	1	0	0	0.44	0.43	3.81	3.86	6.87	6.74
46	1	0	0	0.41	0.43	2.98	3.30	4.90	5.33
47	1	0	0	0.48	0.48	4.37	4.37	7.58	7.59
48	1	0	0	0.44	0.44	3.29	3.55	6.46	6.68
49	0	0	0	0.30	0.31	3.22	3.49	5.70	6.18
50	0	0	0	0.34	0.35	1.75	1.82	3.43	3.45
51	1	0	0	0.61	0.63	2.76	2.95	4.22	4.60
52	1	0	0	0.95	0.95	3.35	3.34	5.10	5.11
53	0	0	0	0.54	0.54	2.29	2.44	4.18	4.70
54	1	0	0	0.65	0.67	3.65	4.05	6.90	7.36
55	1	0	0	0.61	0.61	2.66	2.66	4.37	4.38
56	1	0	0	0.56	0.58	3.91	4.07	6.62	6.57
57	0	0	0	0.69	0.69	2.99	2.98	4.68	4.69
58	0	0	0	0.44	0.44	3.81	3.81	6.91	6.92

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3	1	0	0	0.53	0.53	3.62	3.63	5.75	5.77
4	0	0	0	0.45	0.46	3.58	3.60	5.68	5.72
5	1	0	0	0.63	0.63	2.68	2.68	5.61	5.62
6	1	0	0	0.64	0.66	3.90	4.33	7.39	8.09
7	0	0	0	0.52	0.52	2.44	2.37	3.90	3.80
8	1	0	0	0.43	0.43	3.81	4.22	6.77	7.07
9	1	0	0	0.49	0.52	2.92	3.28	5.65	6.30
10	1	0	0	0.41	0.40	3.61	3.66	6.02	5.97
11	1	0	1	0.51	0.53	3.06	3.29	5.10	5.42
12	1	0	0	0.43	0.42	3.13	3.22	5.13	5.16
13	1	0	0	0.44	0.45	3.11	3.43	4.97	5.35
14	1	0	0	0.51	0.51	4.18	4.49	6.83	7.39
15	0	0	0	0.35	0.36	1.75	1.94	3.17	3.44
16	0	0	0	0.45	0.46	3.13	3.52	4.92	5.48
17	0	0	0	0.65	0.66	4.52	4.54	8.21	8.27
18	0	0	0	0.61	0.61	2.66	2.66	4.37	4.38
19	0	0	0	0.36	0.37	3.33	3.40	5.55	5.69
20	1	0	0	0.59	0.59	2.27	2.41	3.80	3.98
21	1	0	0	0.60	0.61	2.49	2.75	4.12	4.38
22	1	0	0	0.85	0.87	2.93	3.16	4.46	4.85
23	0	0	0	0.36	0.36	3.60	3.60	6.03	6.03
24	1	0	0	0.56	0.56	2.90	2.89	4.60	4.61
25	0	0	0	0.65	0.66	4.53	4.53	8.23	8.25
26	0	0	0	0.40	0.39	2.62	2.52	4.62	4.36
27	0	0	0	0.52	0.54	2.30	2.58	4.74	5.12
28	0	0	0	0.34	0.35	1.75	1.90	3.32	3.53
29	1	0	0	0.46	0.46	3.77	3.77	5.74	5.75
30	1	0	0	0.62	0.62	3.03	3.02	4.70	4.71
31	1	0	0	0.87	0.88	3.05	3.11	4.91	5.06
32	0	0	0	0.42	0.41	2.81	2.71	4.50	4.30
33	1	0	0	0.37	0.38	4.01	4.25	6.29	6.83
34	1	0	0	0.40	0.42	2.97	3.29	4.81	5.23
35	0	0	0	0.59	0.59	2.62	2.69	4.34	4.35
36	1	0	0	0.33	0.33	2.47	2.73	3.86	4.36
37	0	0	0	0.69	0.69	2.79	2.79	4.67	4.67
38	1	0	0	0.32	0.32	3.66	3.69	6.56	6.64
39	1	0	0	0.95	0.95	3.35	3.35	5.11	5.12
40	1	0	0	0.41	0.41	3.37	3.42	6.82	6.73
41	0	0	0	0.52	0.52	3.54	3.55	6.83	6.84
42	0	0	0	1.01	1.03	2.51	2.79	4.55	4.85
43	0	0	0	0.30	0.31	3.12	3.38	5.54	6.08
44	0	0	0	0.44	0.43	3.82	3.86	6.89	6.74
45	0	0	0	0.63	0.61	2.63	2.59	4.33	4.18
46	1	0	0	0.46	0.46	3.63	3.63	5.77	5.77
47	1	0	0	0.55	0.55	3.65	3.65	5.93	5.93
48	0	0	0	0.36	0.36	1.80	1.92	3.42	3.53
49	1	0	0	1.48	1.50	3.03	3.20	5.13	5.14
50	1	0	0	0.40	0.40	3.11	3.42	5.48	6.01
51	1	0	0	0.39	0.39	2.91	3.23	5.02	5.41
52	1	0	0	0.66	0.68	4.42	4.58	7.34	7.67
53	0	0	0	0.40	0.40	3.83	3.84	7.09	7.10
54	1	0	0	0.44	0.44	3.78	3.81	6.87	6.92
55	1	0	1	0.60	0.61	2.62	2.84	4.35	4.71
56	1	0	0	0.40	0.40	2.25	2.26	3.42	3.43
57	0	0	0	0.34	0.36	1.75	1.94	3.23	3.51
58	0	0	0	0.41	0.40	3.77	3.84	6.24	6.16

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3	1	0	0	0.55	0.55	2.57	2.57	5.18	5.20
4	1	0	0	0.46	0.46	3.77	3.77	5.74	5.75
5	1	0	0	0.58	0.60	2.60	2.82	4.20	4.55
6	0	0	0	0.62	0.61	2.59	2.64	4.31	4.23
7	0	0	0	0.62	0.62	3.06	3.05	5.08	5.09
8	1	0	0	0.60	0.63	4.39	4.74	7.06	7.67
9	1	0	0	0.31	0.31	3.48	3.49	6.15	6.19
10	0	0	0	0.40	0.41	3.63	3.66	5.72	5.79
11	0	0	0	0.62	0.64	3.76	4.11	6.51	6.97
12	0	0	0	0.41	0.41	1.83	2.04	2.88	3.16
13	0	0	0	0.66	0.67	3.66	4.06	6.91	7.37
14	0	0	0	0.51	0.53	3.27	3.45	5.20	5.55
15	1	0	0	0.47	0.46	3.32	3.26	5.30	5.15
16	0	0	0	0.38	0.38	2.33	2.66	4.05	4.43
17	1	0	0	0.64	0.63	2.40	2.57	5.34	5.51
18	0	0	0	0.44	0.43	3.81	3.86	6.87	6.74
19	1	0	0	0.47	0.50	3.09	3.35	4.98	5.36
20	0	0	0	0.44	0.44	3.56	3.59	5.57	5.63
21	0	0	0	0.47	0.46	3.33	3.24	5.31	5.12
22	1	0	0	0.44	0.44	4.63	4.66	7.33	7.42
23	0	0	0	0.33	0.32	2.58	2.52	5.05	4.98
24	1	0	0	0.95	0.94	2.95	2.92	4.83	4.66
25	1	0	0	0.42	0.43	3.59	3.87	6.31	6.79
26	0	0	0	0.48	0.50	3.10	3.34	5.02	5.35
27	0	0	0	0.40	0.40	3.13	3.13	5.01	5.02
28	1	0	1	0.62	0.64	2.78	2.99	4.55	4.92
29	1	0	0	0.56	0.55	2.47	2.65	5.00	5.27
30	1	0	0	0.64	0.63	2.41	2.57	5.36	5.51
31	0	0	1	0.84	0.85	2.76	2.92	4.46	4.57
32	1	0	0	0.58	0.57	2.66	2.55	4.30	4.08
33	0	0	0	0.84	0.85	2.79	3.01	4.35	4.65
34	0	0	0	0.36	0.36	3.59	3.60	6.02	6.03
35	0	0	0	0.51	0.49	3.19	3.15	5.37	5.14
36	1	0	1	0.41	0.40	3.73	3.73	6.19	6.03
37	0	0	0	0.63	0.63	2.38	2.53	4.93	5.27
38	0	0	0	0.94	0.97	2.51	2.76	4.62	4.87
39	1	0	0	1.51	1.52	3.34	3.34	5.69	5.72
40	0	0	0	0.63	0.63	2.55	2.62	5.38	5.55
41	0	0	0	0.33	0.32	3.21	3.38	5.83	6.07
42	0	0	0	0.38	0.38	3.06	3.06	5.00	5.01
43	1	0	1	0.39	0.37	3.08	2.94	5.17	5.00
44	0	0	0	1.51	1.50	3.13	3.08	5.24	5.07
45	1	0	0	0.60	0.61	2.59	2.85	4.29	4.72
46	0	0	0	0.40	0.39	3.69	4.04	5.95	6.32
47	0	0	0	0.39	0.40	3.75	4.13	5.90	6.38
48	1	0	0	0.47	0.50	3.11	3.37	4.99	5.38
49	1	0	0	0.62	0.62	3.03	3.02	4.71	4.71
50	0	0	0	0.42	0.43	1.90	2.10	3.17	3.38
51	0	0	0	0.39	0.39	4.37	4.39	6.69	6.73
52	0	0	0	0.49	0.49	2.26	2.47	3.76	4.10
53	1	0	0	0.44	0.45	3.11	3.44	5.00	5.37
54	1	0	1	0.48	0.49	3.42	3.43	5.57	5.58
55	1	0	0	0.60	0.61	2.62	2.84	4.35	4.71
56	0	0	0	0.50	0.50	2.46	2.39	4.02	3.93
57	1	0	0	0.47	0.46	3.25	3.18	5.26	5.12
58	0	0	0	0.54	0.54	2.78	2.78	4.44	4.44

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3	0	0	0	0.42	0.42	3.83	3.72	6.06	6.21
4	1	0	1	0.55	0.55	3.51	3.51	5.74	5.74
5	1	0	0	0.45	0.45	3.28	3.54	6.35	6.59
6	0	0	0	0.40	0.40	3.69	4.04	6.35	6.70
7	1	0	0	0.36	0.36	3.73	3.73	6.28	6.29
8	0	0	0	0.94	0.94	2.86	2.93	4.67	4.66
9	0	0	0	1.48	1.50	3.04	3.18	5.17	5.13
10	1	0	0	0.95	0.99	2.71	2.95	4.57	4.97
11	1	0	0	0.95	0.95	3.36	3.35	5.12	5.13
12	1	0	0	0.41	0.41	4.48	4.48	7.13	7.14
13	1	0	1	0.33	0.35	3.50	3.75	6.84	7.36
14	1	0	0	0.49	0.53	2.91	3.35	5.71	6.44
15	0	0	0	0.44	0.44	4.64	4.66	7.37	7.41
16	1	0	0	0.41	0.40	3.69	3.72	6.14	6.02
17	1	0	0	0.36	0.39	3.55	3.98	6.31	7.03
18	1	0	0	0.39	0.39	3.69	3.71	5.93	5.98
19	1	0	0	0.51	0.51	3.19	3.19	5.69	5.70
20	0	0	0	0.60	0.61	2.47	2.75	4.09	4.39
21	0	0	0	0.56	0.58	2.55	2.79	3.97	4.42
22	1	0	0	1.05	1.05	3.05	3.05	5.12	5.12
23	0	0	0	1.44	1.48	2.84	3.10	5.42	5.57
24	1	0	0	0.44	0.44	3.95	3.95	6.59	6.60
25	0	0	0	0.52	0.52	3.63	3.63	5.76	5.76
26	0	0	0	0.85	0.86	2.77	2.90	4.73	4.81
27	0	0	0	0.45	0.43	3.11	3.04	5.18	5.03
28	0	0	0	0.49	0.50	2.71	2.96	5.24	5.48
29	1	0	0	0.44	0.45	4.53	4.56	7.72	7.77
30	1	0	0	0.60	0.61	2.62	2.83	4.35	4.70
31	0	0	0	0.29	0.30	3.32	3.34	5.62	5.69
32	0	0	0	0.40	0.40	3.21	3.50	6.66	6.85
33	0	0	0	0.55	0.55	3.50	3.51	5.72	5.73
34	1	0	0	0.58	0.60	2.60	2.82	4.20	4.55
35	1	0	0	0.36	0.36	1.79	1.86	3.29	3.31
36	1	0	0	0.53	0.53	3.63	3.63	5.72	5.73
37	0	0	0	0.53	0.54	4.20	4.23	7.77	7.81
38	0	0	0	0.86	0.86	3.22	3.22	4.94	4.95
39	0	0	0	0.39	0.39	3.26	3.28	5.32	5.34
40	1	0	0	0.39	0.41	2.98	3.37	4.08	4.62
41	1	0	0	0.37	0.37	3.54	3.54	5.75	5.75
42	0	0	0	0.86	0.87	3.10	3.11	4.99	5.08
43	0	0	0	0.62	0.62	3.03	3.02	4.70	4.71
44	0	0	0	0.35	0.34	2.76	2.76	4.25	4.16
45	0	0	0	0.34	0.34	2.09	2.09	3.90	3.90
46	0	0	0	1.52	1.52	3.37	3.37	5.74	5.75
47	0	0	0	0.51	0.53	3.44	3.53	6.69	6.75
48	0	0	0	0.39	0.39	3.09	3.09	4.89	4.89
49	1	0	0	0.94	0.94	2.85	2.94	4.68	4.68
50	0	0	0	0.39	0.39	3.10	3.10	4.91	4.91
51	1	0	0	1.04	1.05	2.88	2.95	4.80	4.97
52	0	0	0	0.33	0.36	1.85	2.01	3.38	3.69
53	0	0	0	0.95	0.95	3.34	3.34	5.09	5.10
54	0	0	0	0.66	0.67	2.33	2.56	3.99	4.33
55	1	0	0	0.29	0.29	2.80	3.09	5.12	5.41
56	0	0	0	0.58	0.60	2.60	2.82	4.20	4.55
57	0	0	0	0.44	0.48	3.01	3.38	4.84	5.46
58	1	0	0	0.62	0.62	3.03	3.03	4.71	4.72

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3	0	0	0	0.60	0.61	2.62	2.83	4.36	4.70
4	0	0	0	0.52	0.52	3.63	3.63	5.75	5.76
5	0	0	0	0.46	0.46	3.76	3.77	5.73	5.74
6	0	0	0	0.40	0.40	3.94	4.32	6.56	7.04
7	1	0	0	0.55	0.55	2.56	2.58	3.94	4.00
8	1	0	0	0.40	0.40	3.75	4.07	5.82	6.24
9	0	0	0	0.43	0.44	3.79	4.20	6.80	7.06
10	1	0	0	0.51	0.53	3.05	3.27	5.12	5.42
11	0	0	0	0.46	0.46	3.71	3.74	5.62	5.69
12	1	0	0	0.41	0.45	3.01	3.42	4.77	5.45
13	0	0	0	0.49	0.50	3.11	3.39	5.29	5.79
14	0	0	0	0.61	0.62	2.96	2.95	4.53	4.59
15	1	0	0	0.66	0.67	2.34	2.55	4.02	4.31
16	0	0	0	0.62	0.62	3.05	3.05	4.75	4.75
17	1	0	0	0.93	0.94	2.90	3.12	4.48	4.80
18	1	0	0	0.47	0.50	3.09	3.35	5.00	5.35
19	1	0	0	0.41	0.45	3.33	3.65	4.61	5.03
20	0	0	0	0.54	0.55	2.22	2.44	3.62	3.87
21	0	0	0	0.26	0.27	2.72	3.02	4.65	4.93
22	1	0	0	0.38	0.38	3.84	3.84	7.74	7.74
23	1	0	0	0.54	0.54	2.28	2.44	4.18	4.71
24	0	0	0	0.44	0.45	3.11	3.44	5.00	5.37
25	1	0	0	0.68	0.69	4.45	4.49	7.80	7.87
26	1	0	0	0.42	0.44	3.43	3.54	5.36	5.51
27	1	0	1	0.35	0.37	2.93	3.31	4.71	5.35
28	1	0	0	0.42	0.41	3.39	3.31	5.80	5.75
29	0	0	0	0.64	0.66	3.62	3.94	6.93	7.20
30	0	0	0	0.65	0.66	4.50	4.56	8.18	8.30
31	0	0	0	0.49	0.50	3.12	3.38	5.30	5.77
32	0	0	0	0.63	0.64	3.81	4.17	7.40	7.82
33	1	0	0	0.32	0.32	2.38	2.59	4.78	5.16
34	0	0	0	0.27	0.27	3.25	3.29	5.07	5.20
35	0	0	0	0.38	0.39	3.40	3.70	7.07	7.35
36	1	0	0	0.38	0.38	1.38	1.57	2.88	3.01
37	0	0	0	0.87	0.87	3.14	3.13	5.08	5.12
38	0	0	0	0.55	0.55	2.55	2.55	5.14	5.17
39	0	0	0	0.85	0.86	2.76	2.91	4.71	4.81
40	1	0	0	0.54	0.54	4.20	4.23	7.76	7.82
41	1	0	1	0.63	0.63	2.49	2.58	5.28	5.45
42	1	0	0	0.47	0.50	3.09	3.36	4.95	5.34
43	1	0	0	0.63	0.63	2.38	2.53	4.93	5.27
44	1	0	0	0.42	0.42	2.09	2.27	3.48	3.78
45	1	0	0	0.62	0.62	3.06	3.05	5.08	5.09
46	1	0	0	0.34	0.35	1.73	1.91	3.27	3.55
47	1	0	0	0.36	0.38	3.26	3.40	5.37	5.59
48	0	0	0	0.41	0.43	2.05	2.27	3.59	3.94
49	0	0	0	0.92	0.94	2.90	3.13	4.47	4.80
50	0	0	0	0.63	0.64	3.80	4.16	7.40	7.81
51	1	0	1	1.44	1.48	2.84	3.10	5.42	5.57
52	1	0	0	0.86	0.86	3.25	3.25	5.00	5.00
53	1	0	0	0.45	0.45	3.12	3.42	5.06	5.42
54	1	0	0	0.52	0.53	3.81	4.01	7.10	7.44
55	0	0	0	0.36	0.37	3.34	3.47	5.38	5.56
56	1	0	0	0.86	0.86	3.24	3.24	4.97	4.98
57	0	0	0	0.60	0.61	2.46	2.75	4.06	4.40
58	1	0	0	0.79	0.79	2.91	2.90	4.53	4.55

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2									
3	1	0	0	0.51	0.53	2.29	2.56	3.70	4.10
4	0	0	0	0.61	0.61	2.67	2.67	4.41	4.41
5	1	0	0	0.39	0.39	4.39	4.40	6.71	6.72
6	1	0	0	0.49	0.50	3.78	4.13	7.03	7.28
7	1	0	0	0.46	0.46	3.87	3.87	7.43	7.33
8	0	0	0	0.33	0.33	1.84	1.96	3.37	3.61
9	1	0	0	0.40	0.40	4.39	4.40	6.67	6.69
10	0	0	0	0.62	0.62	3.04	3.03	5.05	5.05
11	0	0	0	0.56	0.55	2.41	2.43	4.24	4.60
12	0	0	0	0.87	0.89	2.93	3.13	4.74	5.09
13	1	0	0	0.35	0.34	2.11	1.94	3.30	3.10
14	1	0	0	0.40	0.39	3.54	3.64	7.56	7.32
15	1	0	0	0.39	0.39	3.57	3.58	5.83	5.84
16	1	0	0	0.55	0.57	2.35	2.57	3.65	4.01
17	0	0	0	0.51	0.49	3.11	3.10	5.24	5.08
18	1	0	0	0.44	0.45	3.92	4.18	6.68	7.09
19	0	0	0	0.42	0.43	2.99	3.28	4.96	5.31
20	1	0	0	0.32	0.32	3.23	3.45	5.84	6.25
21	0	0	0	0.94	0.95	3.15	3.25	4.79	4.94
22	0	0	0	0.44	0.44	3.72	3.75	5.93	5.97
23	1	0	0	0.62	0.62	3.00	2.98	4.62	4.64
24	0	0	0	0.54	0.54	2.75	2.76	4.39	4.40
25	1	0	0	0.39	0.40	3.21	3.52	6.64	6.86
26	0	0	0	0.45	0.45	3.83	4.10	7.04	7.25
27	0	0	0	1.00	1.03	2.54	2.79	4.61	4.86
28	1	0	0	0.94	0.95	3.20	3.25	4.85	4.94
29	1	0	0	0.65	0.66	4.52	4.54	8.22	8.27
30	1	0	0	0.49	0.53	3.33	3.55	5.29	5.58
31	0	0	0	0.31	0.31	3.88	3.88	6.64	6.65
32	0	0	0	0.55	0.55	3.62	3.64	5.89	5.92
33	1	0	0	0.75	0.77	2.46	2.62	4.13	4.21
34	1	0	0	0.76	0.78	2.38	2.66	3.97	4.30
35	1	0	0	0.62	0.62	3.06	3.06	5.09	5.09
36	0	0	0	0.85	0.86	2.78	2.83	4.77	4.73
37	1	0	0	0.84	0.85	2.76	2.89	4.50	4.56
38	0	0	0	0.26	0.26	2.55	2.58	4.98	5.02
39	0	0	0	0.41	0.42	3.49	3.73	5.37	5.91
40	0	0	0	0.76	0.78	2.37	2.67	3.96	4.30
41	0	0	0	0.39	0.39	3.61	3.62	5.59	5.60
42	1	0	0	0.42	0.45	3.90	4.50	6.54	7.33
43	1	0	0	0.49	0.50	2.71	2.96	5.24	5.48
44	0	0	0	0.50	0.50	3.03	3.21	5.52	6.07
45	1	0	0	0.66	0.66	4.49	4.51	7.51	7.57
46	0	0	0	0.35	0.35	3.28	3.54	6.92	7.17
47	0	0	0	0.53	0.54	2.19	2.42	4.14	4.72
48	0	0	0	0.35	0.37	3.51	3.94	5.88	6.60
49	0	0	0	0.63	0.64	3.79	4.14	7.38	7.77
50	1	0	0	0.55	0.55	2.59	2.59	5.23	5.24
51	0	0	0	0.61	0.61	2.68	2.68	4.41	4.41
52	1	0	0	0.34	0.34	1.84	1.84	3.47	3.43
53	0	0	0	0.48	0.50	3.09	3.35	4.98	5.33
54	0	0	0	0.62	0.62	3.05	3.05	5.07	5.07
55	1	0	0	1.52	1.52	3.36	3.36	5.73	5.74
56	0	0	1	0.60	0.59	2.38	2.28	3.92	3.77
57	0	0	0	0.54	0.54	3.64	3.64	5.83	5.83
58	1	0	0	1.47	1.50	3.02	3.24	5.03	5.18

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3	1	0	0	0.47	0.48	2.04	2.30	5.01	5.30
4	1	0	0	0.49	0.51	3.16	3.40	5.07	5.44
5	1	0	0	0.94	0.94	2.85	2.93	4.67	4.66
6	0	0	0	0.52	0.52	2.72	2.73	4.48	4.50
7	0	0	0	0.45	0.47	2.85	3.13	4.94	5.25
8	0	0	0	0.51	0.53	3.25	3.45	5.17	5.55
9	1	0	0	0.39	0.39	2.55	2.55	4.37	4.45
10	0	0	0	0.44	0.44	3.83	4.16	7.15	7.45
11	1	0	0	0.51	0.51	3.20	3.20	5.71	5.72
12	1	0	0	0.31	0.31	3.85	3.87	6.57	6.64
13	1	0	0	0.41	0.42	2.98	3.28	4.84	5.22
14	1	0	0	0.49	0.51	3.08	3.41	5.36	5.87
15	0	0	0	0.41	0.41	2.66	2.93	4.65	5.02
16	1	0	0	0.46	0.47	2.87	3.12	4.99	5.23
17	1	0	0	0.39	0.40	3.14	3.45	5.53	6.06
18	0	0	0	0.66	0.66	4.49	4.51	7.51	7.57
19	1	0	0	0.60	0.61	2.59	2.85	4.29	4.72
20	0	0	0	0.54	0.56	3.40	3.45	5.58	5.65
21	1	0	0	0.46	0.46	3.15	3.41	5.07	5.31
22	1	0	0	0.54	0.54	2.78	2.78	4.44	4.44
23	1	0	0	0.50	0.53	2.76	3.05	5.22	5.59
24	1	0	0	1.52	1.52	3.36	3.36	5.73	5.74
25	0	0	0	0.51	0.54	2.40	2.65	3.92	4.35
26	0	0	0	0.36	0.37	3.50	3.53	5.62	5.68
27	1	0	0	0.52	0.49	3.19	3.15	5.40	5.18
28	1	0	0	0.39	0.39	3.60	3.61	5.57	5.59
29	1	0	0	1.52	1.52	3.37	3.37	5.74	5.74
30	0	0	0	0.38	0.37	3.00	3.00	5.14	5.08
31	0	0	0	0.34	0.34	2.07	2.07	3.84	3.87
32	1	0	0	0.62	0.63	2.88	2.97	4.71	4.90
33	1	0	0	0.44	0.44	4.62	4.63	7.68	7.70
34	1	0	0	0.55	0.55	2.32	2.38	3.83	3.81
35	1	0	0	0.64	0.64	2.95	2.94	4.59	4.62
36	1	0	0	0.29	0.29	2.80	3.12	5.14	5.48
37	1	0	0	0.53	0.53	2.78	2.78	4.59	4.59
38	0	0	0	0.60	0.61	2.62	2.84	4.34	4.71
39	1	0	0	0.34	0.34	1.86	1.98	3.17	3.19
40	0	0	0	1.00	1.00	3.02	3.02	5.12	5.12
41	1	0	0	0.43	0.43	3.87	4.24	6.65	7.00
42	0	0	0	0.54	0.55	2.23	2.44	3.64	3.87
43	1	0	0	0.61	0.62	3.75	3.78	6.66	6.59
44	1	0	0	0.38	0.38	1.30	1.33	2.78	2.72
45	1	0	0	0.39	0.40	1.93	2.10	3.80	3.99
46	0	0	0	0.62	0.62	3.02	3.01	4.99	5.01
47	1	0	0	0.38	0.39	3.25	3.52	6.59	6.80
48	0	0	0	0.33	0.35	1.73	1.91	3.27	3.55
49	1	0	0	0.40	0.39	3.69	4.04	5.95	6.33
50	0	0	0	0.53	0.54	4.20	4.22	7.78	7.81
51	1	0	0	0.34	0.33	3.31	3.30	6.74	6.26
52	1	0	0	0.53	0.53	3.02	3.17	5.24	5.39
53	1	0	1	0.94	0.96	3.08	3.25	4.72	4.96
54	1	0	0	0.41	0.43	2.05	2.27	3.58	3.95
55	1	0	0	0.45	0.45	3.80	3.81	6.86	6.87
56	0	0	0	0.45	0.46	2.17	2.40	3.54	3.91
57	1	0	0	0.44	0.44	3.83	4.16	7.15	7.45
58	0	0	0	0.45	0.44	3.94	3.80	7.00	6.84
59	1	0	0	0.44	0.44	3.83	4.16	7.15	7.45
60	0	0	0	0.45	0.44	3.94	3.80	7.00	6.84

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2									
3	0	0	0	0.43	0.43	2.21	2.22	3.43	3.48
4	0	0	0	0.46	0.48	4.16	4.45	7.55	8.03
5	0	0	0	0.36	0.37	3.98	3.99	6.51	6.41
6	0	0	0	0.45	0.46	4.34	4.46	7.43	7.64
7	1	0	0	0.43	0.43	3.73	3.74	5.15	5.16
8	0	0	0	0.60	0.61	2.61	2.76	4.48	4.62
9	0	0	0	0.44	0.47	3.27	3.80	6.25	7.00
10	1	0	1	0.66	0.67	2.33	2.56	4.00	4.33
11	0	0	0	0.51	0.53	3.04	3.28	5.11	5.42
12	0	0	0	0.43	0.43	2.03	2.00	3.30	3.22
13	1	0	0	0.32	0.32	3.67	3.68	6.67	6.69
14	1	0	0	0.45	0.45	3.53	3.42	6.67	6.46
15	0	0	0	0.98	1.02	2.70	2.67	4.81	4.68
16	0	0	0	0.49	0.51	3.26	3.32	5.49	5.58
17	0	0	0	0.50	0.50	4.34	4.34	7.42	7.42
18	1	0	0	0.50	0.50	3.19	3.27	5.29	5.31
19	0	0	0	0.62	0.62	3.06	3.05	5.08	5.08
20	1	0	1	0.52	0.53	3.58	3.61	5.63	5.68
21	1	0	0	0.47	0.50	3.05	3.37	4.84	5.35
22	1	0	0	0.54	0.54	2.78	2.78	4.44	4.44
23	1	0	0	0.43	0.43	3.81	4.23	6.76	7.07
24	0	0	0	0.63	0.63	2.52	2.62	5.37	5.56
25	1	0	0	0.53	0.53	3.12	3.21	5.26	5.35
26	0	0	0	0.45	0.47	3.58	3.68	5.41	5.59
27	1	0	0	0.52	0.52	3.23	3.17	5.52	5.53
28	0	0	0	0.86	0.86	3.25	3.25	5.00	5.00
29	1	0	0	0.45	0.46	3.18	3.44	5.23	5.80
30	1	0	0	0.36	0.37	3.33	3.45	5.43	5.60
31	1	0	0	0.55	0.55	2.26	2.43	3.71	3.84
32	1	0	0	0.44	0.45	3.11	3.44	4.97	5.36
33	0	0	0	0.53	0.53	3.63	3.63	5.73	5.73
34	0	0	0	0.45	0.45	3.72	3.73	5.79	5.79
35	0	0	0	0.68	0.68	2.67	2.71	4.40	4.50
36	1	0	0	0.60	0.61	2.46	2.75	4.06	4.40
37	1	0	0	0.41	0.41	1.83	2.04	2.91	3.16
38	1	0	0	0.54	0.55	2.23	2.44	3.63	3.87
39	1	0	0	0.40	0.39	2.93	3.20	5.06	5.37
40	0	0	0	0.50	0.51	3.20	3.36	5.17	5.40
41	1	0	1	0.29	0.29	3.45	3.45	5.85	5.86
42	1	0	0	0.40	0.41	2.45	2.50	3.53	3.61
43	1	0	0	0.49	0.51	3.16	3.38	5.09	5.43
44	0	0	0	0.45	0.45	3.77	4.10	6.96	7.23
45	1	0	0	0.50	0.50	3.78	4.12	7.03	7.26
46	1	0	1	0.46	0.46	3.75	3.76	5.71	5.73
47	0	0	0	0.63	0.64	3.80	4.15	7.39	7.79
48	1	0	0	0.41	0.43	2.98	3.30	4.89	5.33
49	0	0	0	0.79	0.79	2.96	2.96	4.64	4.64
50	0	0	0	0.54	0.54	2.29	2.44	4.18	4.70
51	0	0	0	1.47	1.51	2.82	3.13	5.29	5.60
52	1	0	0	0.38	0.38	3.63	3.92	6.05	6.35
53	1	0	0	0.40	0.39	3.69	4.04	5.95	6.33
54	1	0	0	0.55	0.55	2.85	2.85	5.57	5.57
55	1	0	0	0.44	0.44	4.08	4.03	6.45	6.53
56	0	0	0	0.45	0.46	3.61	3.62	5.74	5.76
57	0	0	0	0.60	0.60	2.63	2.64	4.33	4.35
58	1	0	0	0.55	0.55	3.51	3.51	5.74	5.74

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3	1	0	0	1.05	1.05	3.05	3.05	5.12	5.12
4	0	0	0	0.53	0.53	3.62	3.63	5.71	5.72
5	1	0	0	1.48	1.51	2.83	3.13	5.29	5.61
6	0	0	0	0.58	0.60	2.60	2.82	4.20	4.55
7	1	0	0	0.60	0.61	2.62	2.84	4.34	4.71
8	0	0	0	0.63	0.64	3.80	4.16	7.40	7.81
9	0	0	0	0.60	0.61	2.62	2.84	4.34	4.71
10	1	0	0	0.40	0.40	2.53	2.83	4.13	4.56
11	1	0	0	0.35	0.34	3.46	3.34	6.67	6.51
12	1	0	0	0.41	0.40	2.55	2.88	4.01	4.49
13	0	0	0	0.41	0.40	2.55	2.89	4.01	4.50
14	0	0	0	0.42	0.42	3.29	3.31	5.14	5.17
15	1	0	0	0.47	0.49	2.86	3.13	5.15	5.42
16	0	0	0	0.59	0.60	3.72	4.09	7.51	7.90
17	0	0	0	0.52	0.52	3.89	4.19	6.84	7.01
18	0	0	0	0.47	0.46	3.29	3.35	5.30	5.25
19	1	0	0	0.37	0.38	3.30	3.55	7.29	7.47
20	1	0	0	0.67	0.68	3.71	4.10	6.83	7.39
21	0	0	0	0.39	0.41	2.96	3.36	4.08	4.62
22	0	0	0	0.60	0.61	2.49	2.75	4.12	4.38
23	0	0	0	0.55	0.55	3.63	3.65	5.90	5.92
24	0	0	0	0.35	0.35	1.52	1.51	3.27	3.23
25	0	0	0	0.51	0.49	3.19	3.13	5.35	5.10
26	1	0	0	0.32	0.31	3.36	3.52	5.83	6.04
27	0	0	0	0.54	0.54	4.20	4.23	7.76	7.82
28	0	0	0	0.56	0.56	2.47	2.67	4.07	4.29
29	0	0	0	0.39	0.40	3.74	3.83	6.95	7.10
30	0	0	0	1.44	1.48	2.83	3.10	5.40	5.57
31	1	0	1	0.41	0.41	4.01	4.02	6.36	6.37
32	1	0	0	0.59	0.57	2.81	2.60	4.41	4.10
33	1	0	0	0.52	0.52	2.45	2.40	3.96	3.85
34	0	0	0	0.36	0.37	3.52	3.56	5.89	5.99
35	0	0	0	0.35	0.36	2.85	3.20	4.78	5.26
36	0	0	0	0.49	0.49	2.28	2.45	3.80	4.07
37	0	0	0	0.65	0.66	4.51	4.55	8.19	8.29
38	1	0	0	0.37	0.38	4.11	4.14	7.16	7.23
39	1	0	0	0.41	0.40	3.77	3.88	6.23	6.20
40	0	0	0	0.59	0.59	2.62	2.69	4.34	4.35
41	1	0	1	0.35	0.35	3.38	3.65	6.72	6.96
42	0	0	0	0.34	0.33	3.36	3.29	6.37	6.02
43	0	0	0	0.38	0.39	3.37	3.73	5.98	6.59
44	0	0	0	0.40	0.39	3.69	4.04	5.95	6.33
45	0	0	0	0.56	0.56	2.66	2.66	4.12	4.12
46	0	0	0	0.52	0.53	3.56	3.61	5.70	5.76
47	0	0	0	0.35	0.35	1.26	1.38	3.15	3.30
48	0	0	0	0.94	0.96	2.97	3.24	4.61	4.97
49	0	0	0	0.43	0.44	3.29	3.55	6.46	6.68
50	0	0	0	0.48	0.50	3.11	3.34	5.05	5.34
51	1	0	0	0.46	0.46	3.75	3.76	5.71	5.73
52	1	0	1	0.35	0.36	1.79	1.84	3.37	3.35
53	0	0	0	0.33	0.34	2.05	2.05	3.76	3.82
54	1	0	1	0.33	0.34	3.27	3.56	6.51	7.04
55	0	0	0	0.43	0.43	4.72	4.72	7.70	7.71
56	0	0	0	0.38	0.38	3.11	3.11	5.03	5.04
57	1	0	0	0.95	0.95	3.34	3.34	5.10	5.11
58	1	0	0	0.61	0.61	2.55	2.72	4.28	4.34

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3	0	0	0	0.60	0.62	2.26	2.54	3.72	4.17
4	0	0	0	0.57	0.59	4.15	4.35	6.40	6.88
5	0	0	0	0.59	0.60	2.60	2.81	4.22	4.53
6	1	0	0	0.52	0.52	2.73	2.73	4.49	4.51
7	0	0	0	0.51	0.54	3.35	3.57	5.39	5.67
8	1	0	0	0.43	0.44	3.23	3.60	6.29	6.74
9	1	0	0	0.54	0.56	2.35	2.66	3.77	4.26
10	1	0	0	0.37	0.36	3.27	3.19	5.81	5.61
11	1	0	0	0.53	0.53	2.76	2.77	4.57	4.57
12	1	0	0	1.52	1.52	3.27	3.38	5.04	5.27
13	1	0	0	0.36	0.36	4.16	4.16	6.66	6.66
14	0	0	1	0.33	0.35	1.73	1.91	3.26	3.56
15	0	0	0	0.84	0.85	2.79	3.01	4.35	4.65
16	1	0	0	0.66	0.67	2.32	2.56	3.99	4.33
17	0	0	0	0.48	0.50	3.60	3.64	5.71	5.76
18	0	0	0	0.41	0.43	2.97	3.30	4.76	5.29
19	1	0	0	0.61	0.61	2.66	2.66	4.39	4.39
20	1	0	0	1.47	1.50	3.02	3.25	5.01	5.19
21	0	0	0	0.84	0.86	2.77	2.98	4.56	4.89
22	0	0	0	0.36	0.37	4.19	4.24	6.59	6.72
23	1	0	0	0.46	0.45	4.03	3.91	7.21	7.03
24	0	0	0	0.85	0.85	2.83	2.78	4.85	4.68
25	0	0	0	0.40	0.40	2.53	2.83	4.12	4.56
26	1	0	0	0.49	0.49	2.67	2.71	5.27	5.24
27	1	0	0	0.62	0.63	3.72	4.13	6.70	7.08
28	1	0	1	0.53	0.53	3.63	3.64	5.82	5.83
29	1	0	0	0.84	0.86	2.77	2.98	4.56	4.89
30	0	0	0	0.83	0.85	2.79	3.02	4.33	4.66
31	1	0	0	0.40	0.42	2.97	3.29	4.81	5.23
32	1	0	0	0.43	0.43	1.94	2.08	3.24	3.34
33	1	0	0	0.42	0.43	3.01	3.26	5.02	5.29
34	1	0	0	0.51	0.53	2.32	2.54	3.79	4.11
35	0	0	0	0.64	0.68	3.94	4.51	7.38	8.36
36	0	0	0	0.26	0.26	2.59	2.59	5.03	5.04
37	0	0	0	0.60	0.60	2.58	2.60	4.21	4.27
38	0	0	0	0.55	0.55	3.65	3.65	5.93	5.93
39	0	0	0	0.61	0.62	2.95	2.97	4.84	4.91
40	0	0	0	0.44	0.43	3.84	4.12	6.96	7.01
41	1	0	0	0.43	0.43	3.05	3.24	5.10	5.28
42	1	0	0	0.26	0.26	2.60	2.60	5.04	5.04
43	0	0	0	0.46	0.46	3.62	3.62	5.75	5.76
44	0	0	0	0.84	0.85	2.75	2.90	4.49	4.56
45	1	0	0	0.41	0.40	3.70	4.01	5.96	6.30
46	1	0	0	0.61	0.61	2.65	2.65	4.35	4.37
47	1	0	0	1.54	1.54	3.48	3.48	5.38	5.39
48	0	0	0	0.40	0.39	3.69	4.03	5.95	6.32
49	0	0	0	0.37	0.36	3.63	3.78	6.40	6.34
50	0	0	0	0.44	0.45	4.52	4.56	7.70	7.79
51	0	0	0	0.40	0.40	4.11	4.15	7.47	7.55
52	1	0	1	0.46	0.46	3.77	3.77	5.74	5.75
53	0	0	0	0.49	0.51	3.16	3.38	5.09	5.43
54	0	0	0	0.85	0.86	3.17	3.18	4.84	4.88
55	1	0	0	0.43	0.44	3.95	4.22	6.59	7.03
56	1	0	0	0.65	0.66	4.51	4.55	8.19	8.29
57	1	0	0	0.35	0.35	3.79	3.80	7.37	7.38
58	1	0	0	0.37	0.36	3.68	3.67	6.43	6.28

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3	1	0	0	0.67	0.65	2.49	2.42	5.07	4.98
4	0	0	0	0.60	0.61	2.65	2.70	4.53	4.52
5	1	0	0	0.85	0.85	2.82	2.85	4.50	4.45
6	0	0	0	0.48	0.50	3.11	3.37	5.00	5.38
7	1	0	0	0.51	0.50	3.34	3.21	5.56	5.43
8	0	0	0	0.51	0.51	4.17	4.49	6.82	7.38
9	0	0	0	0.57	0.57	2.91	2.91	4.65	4.65
10	1	0	0	0.39	0.40	3.51	3.63	5.62	5.85
11	1	0	0	0.64	0.65	4.52	4.58	7.40	7.53
12	0	0	0	0.32	0.32	3.66	3.69	6.56	6.64
13	0	0	0	0.95	0.94	2.93	2.93	4.76	4.66
14	1	0	0	0.56	0.56	2.54	2.66	4.20	4.25
15	1	0	0	0.51	0.50	3.36	3.21	5.56	5.46
16	1	0	0	0.48	0.49	3.60	3.62	5.77	5.80
17	0	0	0	0.40	0.40	4.65	4.70	7.39	7.50
18	1	0	0	0.54	0.55	2.23	2.44	3.62	3.87
19	1	0	0	0.55	0.55	2.58	2.58	5.21	5.22
20	1	0	0	0.41	0.41	4.44	4.45	6.76	6.78
21	1	0	1	0.37	0.36	1.80	1.77	3.27	3.19
22	0	0	0	0.60	0.61	2.62	2.84	4.34	4.71
23	1	0	0	0.41	0.41	4.46	4.48	7.09	7.14
24	0	0	0	0.59	0.60	2.60	2.79	4.25	4.52
25	0	0	0	0.38	0.39	3.38	3.75	6.01	6.64
26	0	0	0	0.58	0.60	2.16	2.44	3.60	4.04
27	1	0	0	0.50	0.50	3.78	4.11	7.04	7.25
28	0	0	0	0.65	0.69	4.33	4.67	7.89	8.55
29	0	0	0	0.69	0.68	2.79	2.79	4.66	4.67
30	1	0	0	0.40	0.39	2.91	3.22	5.03	5.39
31	0	0	0	0.45	0.45	3.12	3.43	5.01	5.36
32	1	0	0	0.42	0.41	2.85	2.68	4.51	4.26
33	1	0	1	0.44	0.44	3.52	3.39	6.68	6.48
34	1	0	0	0.39	0.39	3.54	3.56	5.77	5.82
35	1	0	0	0.36	0.38	1.85	2.01	3.39	3.62
36	1	0	0	0.47	0.46	2.48	2.38	4.12	4.11
37	0	0	0	0.34	0.34	2.08	2.08	3.88	3.89
38	1	0	0	0.55	0.55	3.51	3.52	5.73	5.74
39	1	0	1	0.41	0.43	2.05	2.27	3.59	3.94
40	1	0	1	0.60	0.61	2.62	2.84	4.34	4.71
41	1	0	0	0.40	0.39	3.50	3.46	7.47	7.24
42	0	0	0	0.60	0.60	2.91	2.96	4.65	4.72
43	1	0	0	0.86	0.86	3.26	3.26	5.00	5.00
44	0	0	1	0.62	0.63	3.71	4.12	6.70	7.07
45	1	0	0	0.94	0.96	2.53	2.75	4.69	4.85
46	1	0	0	0.40	0.41	2.09	2.35	3.73	4.21
47	1	0	0	0.43	0.43	1.93	2.09	3.22	3.36
48	0	0	0	0.50	0.50	3.43	3.43	5.76	5.76
49	0	0	0	0.36	0.36	2.08	2.09	3.84	3.85
50	1	0	0	0.53	0.55	2.16	2.42	4.18	4.75
51	1	0	0	0.38	0.40	3.19	3.63	6.40	7.00
52	1	0	0	0.84	0.86	2.77	2.98	4.56	4.89
53	0	0	0	0.47	0.48	2.85	3.13	5.12	5.43
54	1	0	0	0.56	0.56	2.48	2.65	5.04	5.25
55	1	0	0	0.55	0.55	3.58	3.58	6.30	6.30
56	0	0	0	0.45	0.45	3.12	3.43	5.01	5.35
57	0	0	0	1.51	1.52	3.36	3.36	5.72	5.73
58	1	0	0	0.31	0.34	3.23	3.65	5.68	6.53

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3	0	0	0	0.68	0.69	4.45	4.49	7.78	7.88
4	1	0	0	0.43	0.44	3.53	3.58	5.51	5.59
5	1	0	0	0.31	0.33	3.27	3.65	5.87	6.62
6	1	0	0	0.61	0.63	2.77	2.95	4.23	4.59
7	1	0	1	0.43	0.44	3.30	3.54	6.47	6.68
8	1	0	0	0.40	0.40	3.13	3.13	5.01	5.01
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SO2-1Y	SO2-2Y	NO2-Y1	NO2-2Y	O3-1Y	O3-Y2
0.44	0.46	1.72	1.78	2.94	2.93
0.35	0.36	2.70	2.83	2.31	2.30
0.31	0.31	1.02	1.03	3.10	2.95
0.27	0.29	1.40	1.51	2.98	2.97
0.66	0.70	2.32	2.34	2.79	2.60
0.34	0.37	1.34	1.35	2.91	2.98
0.58	0.58	1.95	1.97	2.75	2.72
0.47	0.50	1.86	1.95	2.72	2.74
0.44	0.44	1.63	1.63	3.18	3.18
0.80	0.86	2.39	2.41	2.56	2.60
0.39	0.43	2.03	2.09	2.73	2.70
0.29	0.31	1.06	1.06	3.17	3.16
0.29	0.29	2.24	2.25	2.57	2.56
0.80	0.82	2.36	2.44	2.79	2.78
0.50	0.50	1.77	1.77	2.99	2.99
0.45	0.45	2.09	2.09	2.83	2.83
0.41	0.41	1.93	1.93	2.68	2.68
0.32	0.32	1.58	1.58	2.90	2.90
0.29	0.31	2.48	2.61	2.33	2.39
0.34	0.34	2.02	2.02	2.80	2.80
0.38	0.39	1.81	1.92	2.64	2.58
0.37	0.37	1.51	1.51	2.90	2.90
0.31	0.31	1.40	1.42	3.09	3.07
0.39	0.39	1.57	1.59	2.85	2.85
0.59	0.65	2.20	2.24	2.49	2.63
0.21	0.21	0.63	0.63	2.65	2.65
0.30	0.30	1.64	1.65	2.77	2.77
0.30	0.32	1.88	2.04	2.66	2.65
0.32	0.33	1.34	1.35	2.97	2.99
0.48	0.49	1.98	1.98	2.82	2.82
0.43	0.46	1.70	1.78	2.93	2.93
0.29	0.29	1.22	1.25	3.20	3.17
0.44	0.44	1.61	1.61	2.95	2.95
0.35	0.35	1.57	1.57	2.96	2.96
0.40	0.45	2.01	2.15	2.59	2.66
0.36	0.39	1.28	1.34	2.92	2.95
0.35	0.36	2.72	2.82	2.34	2.29
0.44	0.42	2.14	2.08	2.78	2.68
0.32	0.35	1.38	1.43	3.12	3.12
0.45	0.44	2.08	2.08	2.82	2.82
0.42	0.42	1.45	1.54	3.01	2.98
0.30	0.32	1.20	1.25	3.01	3.03
0.41	0.41	1.47	1.47	3.20	3.20
0.38	0.38	1.36	1.37	3.06	3.06
0.49	0.49	1.74	1.75	2.97	2.97
0.42	0.42	3.49	3.50	2.43	2.42
0.31	0.31	2.47	2.47	2.48	2.48
0.36	0.36	1.62	1.63	2.98	2.98
0.40	0.38	2.04	2.01	2.73	2.68
0.48	0.50	2.15	2.22	2.60	2.58
0.35	0.39	1.32	1.37	2.97	3.08
0.79	0.85	2.38	2.40	2.61	2.61
0.29	0.30	1.04	1.02	3.28	3.21
0.48	0.48	2.19	2.19	2.70	2.70
0.35	0.38	1.52	1.56	3.08	3.17

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3	0.23	0.23	1.08	1.08	2.75	2.75
4	0.40	0.40	1.39	1.40	3.06	3.05
5	0.61	0.63	2.04	2.26	2.76	2.78
6	0.31	0.32	1.50	1.62	2.83	2.76
7	0.82	0.82	2.40	2.40	2.84	2.84
8	0.35	0.38	1.41	1.43	2.97	3.06
9	0.28	0.31	1.58	1.68	2.80	2.86
10	0.41	0.42	1.93	1.93	2.68	2.68
11	0.31	0.33	1.47	1.54	2.95	2.96
12	0.30	0.31	1.04	1.07	3.16	3.18
13	0.37	0.40	2.20	2.28	2.53	2.60
14	0.35	0.36	1.58	1.61	2.97	2.95
15	0.30	0.33	1.74	1.81	2.65	2.62
16	0.50	0.54	2.05	2.12	2.61	2.63
17	0.92	0.93	2.43	2.44	2.64	2.64
18	0.32	0.32	1.57	1.58	2.89	2.89
19	0.51	0.57	1.49	1.53	2.97	3.13
20	0.28	0.31	1.79	1.89	2.75	2.79
21	0.61	0.61	2.00	2.01	2.78	2.78
22	0.37	0.37	1.52	1.48	3.02	2.95
23	0.27	0.29	2.20	2.29	2.49	2.45
24	0.34	0.38	3.20	3.35	2.32	2.38
25	0.33	0.35	2.08	2.25	2.40	2.47
26	0.34	0.34	0.88	0.94	3.47	3.48
27	0.31	0.31	2.47	2.47	2.49	2.49
28	0.44	0.44	1.60	1.60	3.32	3.32
29	0.25	0.27	2.07	2.15	2.54	2.55
30	0.28	0.31	1.48	1.52	3.07	3.06
31	0.46	0.44	2.08	2.08	2.66	2.63
32	0.21	0.24	0.94	1.00	3.44	3.38
33	0.34	0.38	1.48	1.52	3.08	3.16
34	0.29	0.31	2.50	2.56	2.42	2.39
35	0.30	0.30	1.29	1.29	3.18	3.18
36	0.37	0.41	1.32	1.37	3.02	3.03
37	0.60	0.60	1.99	1.99	2.77	2.76
38	0.41	0.42	1.53	1.55	3.21	3.21
39	0.30	0.31	1.38	1.47	2.88	2.88
40	0.92	0.92	2.43	2.45	2.63	2.63
41	0.31	0.30	2.40	2.45	2.44	2.40
42	0.40	0.40	1.98	1.99	2.68	2.68
43	0.37	0.40	2.20	2.28	2.54	2.60
44	0.41	0.41	1.92	1.93	2.67	2.67
45	0.55	0.62	2.07	2.13	2.60	2.75
46	0.34	0.34	1.67	1.67	3.02	3.02
47	0.29	0.32	1.43	1.55	2.90	2.89
48	0.37	0.37	2.83	2.83	2.40	2.40
49	0.29	0.29	2.24	2.25	2.57	2.56
50	0.92	0.92	2.43	2.45	2.63	2.63
51	0.32	0.35	3.47	3.61	2.48	2.56
52	0.48	0.54	1.83	1.91	2.87	2.99
53	0.44	0.44	1.47	1.47	3.09	3.09
54	0.23	0.26	1.11	1.20	3.16	3.16
55	0.29	0.33	2.54	2.67	2.42	2.39
56	0.31	0.32	1.63	1.73	2.88	2.87
57	0.56	0.58	1.87	1.93	2.70	2.73
58	0.27	0.30	1.39	1.50	2.95	2.95

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3	0.46	0.46	2.18	2.20	2.69	2.67
4	0.39	0.40	1.58	1.65	2.80	2.78
5	0.31	0.30	2.43	2.45	2.46	2.43
6	0.34	0.35	1.73	1.71	2.88	2.75
7	0.30	0.30	1.39	1.45	2.99	2.93
8	0.56	0.57	2.16	2.18	2.64	2.63
9	0.37	0.37	2.83	2.83	2.40	2.40
10	0.35	0.34	1.71	1.69	2.78	2.77
11	0.26	0.28	1.25	1.28	3.24	3.13
12	0.24	0.26	1.12	1.20	3.16	3.16
13	0.33	0.33	1.97	2.01	2.79	2.77
14	0.29	0.33	2.54	2.67	2.42	2.39
15	0.28	0.31	1.64	1.72	2.90	2.92
16	0.34	0.34	1.67	1.67	3.02	3.02
17	0.31	0.33	1.49	1.54	2.95	2.96
18	0.32	0.32	1.93	1.99	2.67	2.60
19	0.37	0.37	1.84	1.84	2.93	2.93
20	0.55	0.55	1.83	1.83	3.03	3.03
21	0.36	0.36	1.61	1.62	2.97	2.98
22	0.33	0.35	2.66	2.83	2.29	2.37
23	0.35	0.39	1.26	1.32	2.98	2.99
24	0.24	0.27	1.19	1.27	3.10	3.10
25	0.34	0.34	1.99	1.99	2.82	2.82
26	0.37	0.37	1.84	1.85	2.93	2.93
27	0.27	0.30	2.21	2.35	2.46	2.43
28	0.29	0.32	1.47	1.50	2.84	2.83
29	0.32	0.32	2.59	2.74	2.29	2.38
30	0.35	0.37	3.24	3.28	2.37	2.35
31	0.33	0.33	1.92	1.98	2.76	2.69
32	0.65	0.74	2.23	2.31	2.66	2.75
33	0.79	0.85	2.38	2.40	2.62	2.61
34	0.42	0.42	1.35	1.37	3.10	3.09
35	0.30	0.33	2.12	2.26	2.45	2.42
36	0.29	0.31	1.77	1.88	2.77	2.78
37	0.31	0.33	1.34	1.40	2.89	2.88
38	0.29	0.31	2.53	2.58	2.47	2.38
39	0.61	0.62	2.00	2.05	3.04	3.05
40	0.39	0.40	1.58	1.64	2.81	2.79
41	0.80	0.86	2.39	2.41	2.57	2.60
42	0.32	0.35	3.47	3.60	2.48	2.56
43	0.34	0.34	2.01	2.02	2.80	2.80
44	0.44	0.44	1.60	1.60	3.32	3.32
45	0.30	0.31	1.38	1.47	2.89	2.88
46	0.57	0.59	1.92	2.13	2.86	2.89
47	0.40	0.40	1.61	1.62	2.83	2.83
48	0.32	0.32	1.55	1.59	2.87	2.85
49	0.69	0.80	1.74	1.96	3.08	3.12
50	0.41	0.41	1.93	1.93	2.68	2.67
51	0.33	0.33	2.73	2.73	2.44	2.44
52	0.36	0.36	1.62	1.63	2.98	2.98
53	0.41	0.41	1.93	1.93	2.68	2.68
54	0.53	0.53	1.77	1.85	2.97	2.95
55	0.79	0.83	2.35	2.45	2.78	2.76
56	0.54	0.60	2.01	2.07	2.63	2.79
57	0.44	0.46	1.72	1.78	2.94	2.93
58	0.44	0.44	2.37	2.37	2.67	2.67

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3	0.30	0.31	1.52	1.50	3.05	2.95
4	0.27	0.29	2.21	2.34	2.41	2.45
5	0.20	0.20	0.95	0.97	2.55	2.62
6	0.38	0.38	3.73	3.74	2.64	2.63
7	0.38	0.38	3.71	3.73	2.64	2.61
8	0.55	0.58	1.87	1.94	2.69	2.73
9	0.29	0.30	2.57	2.68	2.40	2.44
10	0.61	0.61	2.01	2.01	2.78	2.78
11	0.33	0.34	1.47	1.52	3.02	2.99
12	0.36	0.36	2.40	2.41	2.40	2.40
13	0.44	0.44	2.36	2.37	2.66	2.66
14	0.36	0.36	2.84	2.84	2.69	2.69
15	0.29	0.31	2.55	2.71	2.31	2.40
16	0.31	0.34	1.34	1.37	2.89	2.96
17	0.35	0.35	0.78	0.80	3.84	3.86
18	0.28	0.30	1.84	1.94	2.64	2.68
19	0.40	0.40	1.88	1.93	2.65	2.63
20	0.30	0.30	1.58	1.60	2.80	2.79
21	0.55	0.58	1.87	1.94	2.69	2.73
22	0.92	0.92	2.43	2.45	2.63	2.63
23	0.31	0.33	0.90	0.92	3.43	3.40
24	0.37	0.40	2.20	2.28	2.54	2.60
25	0.31	0.30	2.41	2.45	2.45	2.41
26	0.45	0.45	2.09	2.09	2.83	2.83
27	0.26	0.28	1.18	1.28	3.10	3.20
28	0.31	0.31	2.47	2.47	2.49	2.49
29	0.62	0.67	2.19	2.24	2.88	2.76
30	0.31	0.33	1.13	1.16	3.02	3.06
31	0.40	0.40	1.61	1.62	2.84	2.84
32	0.33	0.33	2.73	2.73	2.44	2.44
33	0.29	0.29	2.24	2.24	2.57	2.56
34	0.36	0.37	1.38	1.47	3.02	2.94
35	0.29	0.31	2.48	2.60	2.34	2.39
36	0.53	0.62	1.91	1.98	2.67	2.80
37	0.45	0.46	2.12	2.13	2.70	2.65
38	0.28	0.28	1.90	1.91	2.72	2.72
39	0.37	0.35	3.46	3.48	2.54	2.51
40	0.58	0.63	2.15	2.20	2.69	2.70
41	0.28	0.29	1.46	1.62	2.67	2.69
42	0.41	0.42	1.75	1.88	2.67	2.61
43	0.53	0.53	1.77	1.87	2.97	2.94
44	0.31	0.33	2.02	2.17	2.51	2.51
45	0.31	0.32	2.53	2.70	2.27	2.37
46	0.34	0.34	1.79	1.79	2.87	2.87
47	0.33	0.35	2.20	2.38	2.34	2.40
48	0.34	0.37	1.43	1.44	3.07	3.13
49	0.37	0.37	2.84	2.84	2.37	2.37
50	0.40	0.41	1.89	1.93	2.66	2.64
51	0.29	0.32	1.44	1.54	2.92	2.90
52	0.34	0.34	0.95	0.96	3.38	3.39
53	0.26	0.29	1.18	1.26	3.13	3.14
54	0.39	0.41	1.67	1.87	2.66	2.64
55	0.24	0.27	1.74	1.86	2.68	2.72
56	0.37	0.37	1.50	1.50	3.12	3.05
57	0.38	0.38	2.13	2.14	2.63	2.61
58	0.20	0.20	0.64	0.64	2.86	2.87

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3	0.36	0.36	2.81	2.82	2.40	2.39
4	0.34	0.34	1.22	1.23	3.09	3.09
5	0.29	0.33	2.54	2.69	2.39	2.38
6	0.27	0.27	1.60	1.60	3.12	3.12
7	0.29	0.29	1.71	1.64	2.98	2.89
8	0.29	0.33	2.54	2.67	2.41	2.38
9	0.65	0.74	2.23	2.31	2.66	2.75
10	0.34	0.37	3.24	3.31	2.34	2.37
11	0.30	0.33	1.66	1.71	3.06	2.96
12	0.40	0.40	1.61	1.62	2.84	2.84
13	0.42	0.42	1.54	1.54	3.22	3.22
14	0.39	0.40	1.55	1.66	2.77	2.73
15	0.31	0.31	1.38	1.38	3.05	3.05
16	0.34	0.34	1.80	1.80	2.93	2.93
17	0.68	0.74	2.35	2.39	2.54	2.59
18	0.42	0.42	1.60	1.63	3.25	3.24
19	0.46	0.47	1.69	1.75	2.82	2.97
20	0.29	0.31	2.48	2.61	2.33	2.39
21	0.30	0.31	1.38	1.48	2.87	2.88
22	0.62	0.62	1.89	1.89	2.93	2.93
23	0.32	0.32	1.58	1.58	2.90	2.90
24	0.37	0.37	1.33	1.36	3.18	3.17
25	0.36	0.39	1.48	1.62	2.68	2.72
26	0.34	0.37	1.43	1.52	2.77	2.81
27	0.28	0.28	1.12	1.17	3.22	3.21
28	0.30	0.33	2.01	2.12	2.57	2.52
29	0.31	0.31	2.46	2.47	2.48	2.48
30	0.30	0.31	1.63	1.65	2.95	2.85
31	0.42	0.42	2.31	2.35	2.60	2.58
32	0.29	0.31	2.48	2.60	2.34	2.39
33	0.40	0.40	1.61	1.62	2.84	2.84
34	0.34	0.36	1.19	1.24	3.08	3.05
35	0.20	0.22	1.01	1.05	2.58	2.66
36	0.26	0.28	1.25	1.33	3.04	3.04
37	0.30	0.31	1.19	1.19	3.08	3.05
38	0.32	0.33	1.34	1.35	2.97	2.99
39	0.20	0.21	1.02	1.05	2.54	2.55
40	0.21	0.21	0.83	0.87	2.83	2.87
41	0.40	0.44	1.84	1.91	2.84	2.83
42	0.55	0.58	1.87	1.94	2.69	2.73
43	0.28	0.30	1.70	1.72	2.91	2.90
44	0.34	0.34	1.31	1.31	3.25	3.25
45	0.34	0.38	1.47	1.50	3.05	3.14
46	0.31	0.33	0.84	0.89	3.46	3.49
47	0.42	0.42	2.33	2.36	2.62	2.60
48	0.33	0.33	2.67	2.71	2.40	2.37
49	0.28	0.30	1.85	1.89	2.80	2.79
50	0.33	0.34	1.59	1.60	2.83	2.83
51	0.35	0.37	1.80	1.99	2.53	2.47
52	0.40	0.40	1.61	1.62	2.84	2.84
53	0.37	0.37	2.82	2.83	2.40	2.40
54	0.31	0.34	2.60	2.77	2.28	2.34
55	0.40	0.40	1.39	1.40	3.06	3.05
56	0.41	0.41	1.49	1.50	3.21	3.20
57	0.49	0.49	1.99	1.99	2.83	2.83
58	0.37	0.40	1.51	1.55	3.01	3.17

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2						
3	0.30	0.33	2.62	2.70	2.38	2.38
4	0.37	0.37	1.45	1.44	2.91	2.88
5	0.34	0.34	1.31	1.31	3.25	3.25
6	0.27	0.27	1.37	1.43	2.88	2.80
7	0.33	0.33	1.56	1.56	3.01	3.01
8	0.39	0.40	1.37	1.42	3.06	3.02
9	0.29	0.31	1.75	1.87	2.76	2.78
10	0.30	0.32	1.65	1.69	3.12	2.96
11	0.37	0.40	1.51	1.53	3.06	3.15
12	0.37	0.41	1.57	1.66	3.06	3.06
13	0.16	0.18	1.02	1.02	2.42	2.49
14	0.35	0.38	1.50	1.51	3.13	3.16
15	0.42	0.42	1.57	1.58	3.24	3.23
16	0.15	0.18	0.29	0.32	3.71	3.56
17	0.29	0.31	1.83	1.93	2.76	2.78
18	0.33	0.32	2.65	2.71	2.38	2.35
19	0.35	0.37	1.48	1.49	3.24	3.18
20	0.35	0.35	3.44	3.52	2.48	2.51
21	0.28	0.29	2.22	2.37	2.32	2.41
22	0.31	0.31	2.44	2.46	2.47	2.45
23	0.38	0.38	1.13	1.13	3.19	3.19
24	0.30	0.33	2.11	2.22	2.49	2.44
25	0.34	0.34	0.94	0.95	3.45	3.46
26	0.38	0.38	1.43	1.44	3.01	3.01
27	0.29	0.30	2.56	2.69	2.37	2.43
28	0.30	0.33	2.12	2.23	2.47	2.43
29	0.36	0.36	2.83	2.83	2.69	2.68
30	0.40	0.45	1.63	1.67	2.88	2.96
31	0.40	0.40	1.46	1.48	2.93	2.92
32	0.33	0.33	1.59	1.59	2.85	2.85
33	0.32	0.35	1.06	1.07	3.01	3.07
34	0.30	0.33	2.60	2.71	2.36	2.38
35	0.29	0.33	2.61	2.71	2.37	2.38
36	0.34	0.38	3.20	3.35	2.32	2.38
37	0.19	0.19	1.19	1.18	2.91	2.87
38	0.32	0.32	1.58	1.58	2.90	2.89
39	0.33	0.33	1.87	1.89	2.85	2.83
40	0.40	0.44	1.83	1.91	2.83	2.83
41	0.47	0.47	2.22	2.22	2.72	2.72
42	0.29	0.33	2.54	2.69	2.39	2.38
43	0.28	0.31	1.80	1.89	2.78	2.80
44	0.34	0.35	2.69	2.83	2.30	2.34
45	0.27	0.30	1.17	1.25	3.14	3.16
46	0.44	0.44	2.14	2.20	2.64	2.62
47	0.28	0.28	1.94	1.97	2.73	2.70
48	0.34	0.34	2.07	2.08	2.77	2.76
49	0.37	0.39	1.37	1.49	2.96	3.04
50	0.29	0.33	2.54	2.69	2.39	2.38
51	0.29	0.31	1.80	1.92	2.66	2.70
52	0.47	0.47	2.21	2.21	2.72	2.72
53	0.49	0.49	1.98	1.99	2.82	2.83
54	0.33	0.33	2.73	2.73	2.44	2.44
55	0.31	0.32	2.10	2.14	2.49	2.41
56	0.79	0.80	2.42	2.48	2.62	2.62
57	0.40	0.45	1.64	1.67	2.88	2.95
58	0.29	0.31	2.49	2.59	2.36	2.39

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2						
3	0.36	0.36	2.41	2.41	2.40	2.40
4	0.36	0.36	0.80	0.80	3.89	3.89
5	0.27	0.30	2.21	2.34	2.48	2.44
6	0.56	0.58	1.88	1.93	2.70	2.73
7	0.30	0.30	2.51	2.50	2.43	2.34
8	0.34	0.34	2.07	2.07	2.77	2.77
9	0.31	0.33	2.10	2.18	2.47	2.46
10	0.27	0.27	1.60	1.60	3.12	3.12
11	0.28	0.31	1.83	1.90	2.79	2.79
12	0.29	0.33	2.60	2.71	2.36	2.38
13	0.66	0.69	2.32	2.34	2.77	2.59
14	0.30	0.30	1.27	1.27	3.21	3.21
15	0.35	0.36	1.52	1.54	2.81	2.81
16	0.62	0.62	2.01	2.04	3.05	3.05
17	0.79	0.80	2.42	2.46	2.63	2.64
18	0.29	0.32	1.52	1.62	2.86	2.90
19	0.33	0.33	1.77	1.79	2.91	2.90
20	0.36	0.36	2.30	2.30	2.47	2.47
21	0.34	0.34	1.56	1.57	2.96	2.95
22	0.31	0.34	2.09	2.20	2.44	2.46
23	0.66	0.70	2.32	2.34	2.79	2.60
24	0.26	0.29	1.08	1.14	2.99	3.12
25	0.34	0.37	1.43	1.52	2.78	2.81
26	0.18	0.20	0.77	0.81	2.81	2.88
27	0.37	0.37	2.84	2.84	2.37	2.37
28	0.16	0.19	1.01	1.02	2.41	2.50
29	0.35	0.38	2.64	2.76	2.79	2.82
30	0.42	0.42	1.58	1.59	3.24	3.24
31	0.36	0.36	2.30	2.30	2.47	2.47
32	0.24	0.27	1.75	1.86	2.68	2.71
33	0.21	0.21	1.02	1.03	2.58	2.58
34	0.36	0.36	2.84	2.84	2.69	2.69
35	0.33	0.35	3.47	3.59	2.48	2.56
36	0.21	0.21	0.85	0.85	2.95	2.95
37	0.34	0.34	1.79	1.79	2.87	2.87
38	0.30	0.28	1.22	1.23	3.14	3.06
39	0.33	0.34	1.94	1.98	2.77	2.72
40	0.58	0.58	1.96	1.98	2.75	2.73
41	0.39	0.39	3.75	3.75	2.63	2.63
42	0.34	0.34	1.98	1.99	2.82	2.81
43	0.47	0.51	1.25	1.32	3.18	3.18
44	0.29	0.31	1.59	1.69	2.86	2.86
45	0.32	0.35	3.47	3.61	2.48	2.56
46	0.28	0.31	1.64	1.72	2.90	2.92
47	0.32	0.32	2.10	2.12	2.48	2.41
48	0.33	0.34	1.42	1.51	2.85	2.80
49	0.28	0.31	1.87	1.92	2.78	2.78
50	0.41	0.44	2.03	2.12	2.69	2.71
51	0.29	0.30	2.57	2.68	2.40	2.44
52	0.41	0.41	1.49	1.49	3.21	3.21
53	0.25	0.26	1.73	1.82	2.62	2.67
54	0.62	0.62	1.46	1.46	3.16	3.17
55	0.43	0.44	1.43	1.45	3.20	3.21
56	0.30	0.31	1.38	1.48	2.88	2.88
57	0.35	0.35	2.23	2.30	2.48	2.44
58	0.70	0.70	2.27	2.34	2.77	2.76

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3	0.23	0.23	1.03	1.03	2.80	2.81
4	0.30	0.31	2.62	2.64	2.42	2.35
5	0.32	0.35	1.44	1.52	2.74	2.76
6	0.34	0.35	2.72	2.81	2.34	2.32
7	0.35	0.38	1.40	1.39	3.01	3.07
8	0.62	0.62	1.45	1.45	3.16	3.16
9	0.59	0.58	1.90	1.93	2.72	2.73
10	0.28	0.31	1.66	1.72	2.91	2.91
11	0.30	0.31	1.27	1.32	2.90	2.93
12	0.29	0.31	1.93	1.96	2.81	2.77
13	0.41	0.41	1.43	1.43	3.16	3.16
14	0.28	0.29	1.91	1.86	2.84	2.74
15	0.29	0.31	2.53	2.59	2.47	2.38
16	0.59	0.59	1.85	1.87	2.93	2.93
17	0.31	0.31	2.47	2.47	2.49	2.49
18	0.29	0.31	2.56	2.72	2.30	2.39
19	0.46	0.46	2.18	2.20	2.69	2.68
20	0.42	0.44	2.05	2.12	2.72	2.71
21	0.34	0.35	2.27	2.42	2.35	2.38
22	0.31	0.32	1.13	1.14	3.04	3.05
23	0.42	0.42	1.54	1.54	3.22	3.22
24	0.40	0.40	1.50	1.51	2.92	2.91
25	0.35	0.35	1.20	1.21	3.11	3.11
26	0.63	0.58	1.92	1.90	2.76	2.68
27	0.92	0.92	2.42	2.47	2.62	2.62
28	0.30	0.34	1.71	1.83	2.58	2.60
29	0.29	0.30	2.28	2.44	2.34	2.43
30	0.36	0.36	2.41	2.41	2.40	2.40
31	0.29	0.33	2.54	2.69	2.38	2.37
32	0.25	0.27	2.07	2.16	2.52	2.55
33	0.36	0.40	1.52	1.57	3.02	3.10
34	0.44	0.44	2.36	2.36	2.66	2.66
35	0.49	0.49	1.87	1.86	2.94	2.94
36	0.34	0.35	2.25	2.42	2.35	2.40
37	0.33	0.33	1.39	1.40	2.97	2.97
38	0.25	0.27	1.16	1.24	2.81	2.86
39	0.30	0.30	1.20	1.22	3.08	3.00
40	0.31	0.33	1.22	1.28	2.95	3.00
41	0.51	0.57	1.49	1.53	2.97	3.13
42	0.23	0.23	1.08	1.08	2.76	2.76
43	0.32	0.36	1.72	1.84	2.65	2.63
44	0.46	0.46	1.73	1.77	2.95	2.92
45	0.31	0.34	2.09	2.19	2.44	2.46
46	0.26	0.28	2.12	2.25	2.45	2.54
47	0.15	0.18	0.64	0.64	2.77	2.82
48	0.31	0.31	1.45	1.46	3.05	3.03
49	0.32	0.32	1.96	2.07	2.68	2.57
50	0.37	0.40	1.46	1.51	2.92	2.87
51	0.32	0.32	1.57	1.58	2.89	2.88
52	0.37	0.37	1.48	1.53	2.88	2.86
53	0.62	0.62	1.49	1.49	3.35	3.35
54	0.33	0.34	1.30	1.32	3.07	3.06
55	0.52	0.52	2.25	2.25	2.66	2.66
56	0.80	0.86	2.39	2.41	2.56	2.60
57	0.30	0.32	0.97	1.00	3.28	3.35
58	0.42	0.42	1.50	1.50	3.20	3.20

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3	0.33	0.33	2.69	2.71	2.41	2.39
4	0.32	0.35	3.47	3.61	2.48	2.56
5	0.57	0.58	2.19	2.19	2.65	2.65
6	0.33	0.36	1.42	1.47	2.87	2.81
7	0.23	0.22	1.19	1.27	3.01	3.04
8	0.41	0.44	2.04	2.12	2.71	2.71
9	0.40	0.41	1.46	1.51	3.19	3.16
10	0.44	0.44	1.60	1.61	2.94	2.94
11	0.31	0.31	2.45	2.46	2.48	2.47
12	0.30	0.31	1.26	1.30	3.05	2.99
13	0.42	0.42	1.42	1.43	3.15	3.15
14	0.27	0.29	1.40	1.51	2.96	2.97
15	0.40	0.44	1.64	1.66	2.91	2.96
16	0.37	0.37	2.83	2.83	2.40	2.40
17	0.33	0.33	2.73	2.73	2.44	2.44
18	0.37	0.40	2.20	2.28	2.55	2.60
19	0.38	0.41	1.30	1.33	3.16	3.16
20	0.36	0.36	1.55	1.55	2.88	2.88
21	0.55	0.58	1.87	1.94	2.69	2.73
22	0.28	0.31	1.39	1.44	2.96	2.94
23	0.23	0.22	1.17	1.21	3.08	3.00
24	0.42	0.42	1.57	1.58	3.24	3.24
25	0.26	0.26	1.50	1.51	2.92	2.91
26	0.52	0.52	2.25	2.25	2.66	2.66
27	0.39	0.43	2.01	2.10	2.70	2.70
28	0.30	0.29	2.56	2.56	2.45	2.41
29	0.41	0.42	1.93	1.93	2.68	2.68
30	0.29	0.27	2.07	2.08	2.55	2.49
31	0.29	0.32	1.14	1.18	3.02	3.10
32	0.50	0.54	2.05	2.12	2.60	2.63
33	0.40	0.41	1.93	1.99	2.84	2.81
34	0.19	0.21	0.46	0.49	4.08	4.20
35	0.25	0.27	2.07	2.16	2.53	2.55
36	0.40	0.45	1.63	1.68	2.85	2.95
37	0.52	0.57	1.86	1.97	2.59	2.68
38	0.49	0.49	1.86	1.86	2.93	2.94
39	0.32	0.35	2.04	2.13	2.56	2.57
40	0.49	0.49	1.84	1.85	2.94	2.95
41	0.34	0.34	1.79	1.80	2.93	2.93
42	0.31	0.31	1.42	1.42	3.04	3.04
43	0.33	0.33	2.51	2.52	2.41	2.41
44	0.31	0.33	1.48	1.54	2.95	2.96
45	0.31	0.33	2.12	2.26	2.44	2.42
46	0.33	0.35	1.37	1.35	3.00	3.02
47	0.34	0.35	1.23	1.26	3.14	3.12
48	0.34	0.36	1.43	1.50	2.82	2.80
49	0.30	0.30	2.58	2.59	2.51	2.41
50	0.30	0.31	1.37	1.43	2.95	2.83
51	0.37	0.37	1.95	1.95	2.63	2.62
52	0.23	0.26	1.43	1.51	2.61	2.72
53	0.34	0.38	1.68	1.80	2.77	2.72
54	0.28	0.29	1.48	1.64	2.69	2.66
55	0.51	0.51	1.77	1.78	3.00	3.00
56	0.34	0.35	3.47	3.56	2.46	2.54
57	0.32	0.34	1.33	1.42	2.87	2.89
58	0.35	0.35	1.21	1.25	3.15	3.12

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3	0.31	0.33	2.11	2.18	2.48	2.46
4	0.31	0.31	2.67	2.82	2.32	2.43
5	0.33	0.33	1.02	1.05	3.31	3.31
6	0.18	0.20	0.77	0.81	2.81	2.88
7	0.55	0.61	2.06	2.11	2.64	2.76
8	0.19	0.21	1.18	1.26	2.87	3.01
9	0.52	0.52	2.24	2.25	2.65	2.66
10	0.33	0.33	2.72	2.73	2.43	2.43
11	0.33	0.36	1.40	1.49	2.79	2.83
12	0.38	0.38	3.74	3.74	2.63	2.63
13	0.34	0.34	1.72	1.73	2.92	2.91
14	0.26	0.29	1.27	1.36	3.08	3.07
15	0.29	0.31	2.48	2.60	2.34	2.39
16	0.39	0.41	1.51	1.69	3.00	3.04
17	0.30	0.33	1.73	1.83	2.60	2.61
18	0.22	0.22	1.00	1.02	2.84	2.83
19	0.29	0.31	1.82	2.01	2.50	2.50
20	0.44	0.44	1.59	1.60	3.31	3.32
21	0.27	0.28	1.41	1.44	2.96	2.97
22	0.35	0.38	1.41	1.45	2.96	3.03
23	0.25	0.26	1.73	1.82	2.62	2.67
24	0.31	0.32	1.49	1.63	2.82	2.75
25	0.27	0.29	2.21	2.34	2.41	2.45
26	0.27	0.27	1.22	1.22	3.23	3.23
27	0.20	0.22	1.01	1.05	2.58	2.67
28	0.38	0.40	2.21	2.27	2.56	2.59
29	0.35	0.35	1.47	1.47	3.21	3.10
30	0.41	0.42	1.53	1.55	3.22	3.21
31	0.36	0.36	2.40	2.40	2.40	2.40
32	0.35	0.35	1.58	1.58	2.90	2.90
33	0.20	0.22	1.01	1.05	2.60	2.71
34	0.33	0.33	1.78	1.79	2.92	2.92
35	0.82	0.82	2.40	2.40	2.83	2.84
36	0.29	0.31	2.48	2.61	2.33	2.39
37	0.65	0.74	2.23	2.31	2.67	2.75
38	0.37	0.41	1.33	1.38	3.04	3.03
39	0.28	0.31	1.52	1.60	2.99	3.01
40	0.41	0.41	1.43	1.44	3.16	3.16
41	0.32	0.34	1.33	1.42	2.86	2.88
42	0.32	0.34	1.33	1.42	2.87	2.89
43	0.34	0.37	1.43	1.45	3.06	3.13
44	0.62	0.65	2.27	2.31	2.76	2.61
45	0.33	0.33	2.04	2.04	2.72	2.72
46	0.37	0.41	1.57	1.66	3.06	3.06
47	0.34	0.35	2.28	2.42	2.36	2.36
48	0.32	0.31	2.00	2.01	2.56	2.50
49	0.20	0.20	0.64	0.64	2.88	2.88
50	0.25	0.26	1.73	1.83	2.61	2.67
51	0.40	0.44	1.44	1.50	2.89	3.03
52	0.35	0.36	1.49	1.50	3.25	3.13
53	0.40	0.45	1.63	1.69	2.85	2.95
54	0.26	0.25	1.79	1.76	2.74	2.64
55	0.41	0.41	1.47	1.52	3.18	3.16
56	0.31	0.33	1.48	1.54	2.95	2.96
57	0.41	0.41	1.43	1.43	3.17	3.17
58	0.25	0.28	1.65	1.72	2.46	2.53

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3	0.33	0.34	1.49	1.57	2.96	2.91
4	0.30	0.31	1.13	1.14	3.07	3.12
5	0.32	0.36	1.44	1.52	2.73	2.76
6	0.32	0.36	1.71	1.84	2.64	2.62
7	0.31	0.33	1.51	1.53	2.95	2.96
8	0.22	0.24	0.93	1.03	3.32	3.35
9	0.36	0.36	1.62	1.62	2.98	2.98
10	0.45	0.51	1.72	1.76	2.80	2.93
11	0.34	0.34	1.51	1.57	2.96	2.92
12	0.41	0.41	1.35	1.36	3.22	3.22
13	0.29	0.29	2.24	2.25	2.57	2.56
14	0.36	0.36	2.79	2.82	2.35	2.33
15	0.29	0.33	2.60	2.71	2.36	2.38
16	0.41	0.41	1.42	1.44	3.16	3.15
17	0.26	0.28	1.15	1.27	3.11	3.22
18	0.26	0.26	1.08	1.08	3.33	3.34
19	0.25	0.28	1.64	1.73	2.41	2.53
20	0.53	0.62	1.91	1.98	2.66	2.80
21	0.28	0.27	2.06	2.09	2.56	2.50
22	0.60	0.60	2.00	2.01	3.12	3.13
23	0.36	0.36	2.28	2.30	2.49	2.48
24	0.47	0.47	2.21	2.22	2.72	2.72
25	0.38	0.38	3.71	3.73	2.64	2.61
26	0.29	0.33	2.54	2.69	2.38	2.38
27	0.18	0.20	0.77	0.81	2.81	2.88
28	0.46	0.45	2.18	2.20	2.68	2.66
29	0.33	0.33	2.04	2.05	2.72	2.71
30	0.27	0.28	1.95	2.09	2.41	2.51
31	0.39	0.39	1.92	1.98	2.60	2.55
32	0.41	0.41	1.53	1.58	3.22	3.20
33	0.33	0.33	2.73	2.73	2.44	2.44
34	0.37	0.37	2.83	2.83	2.40	2.40
35	0.31	0.31	2.55	2.56	2.48	2.38
36	0.31	0.31	1.41	1.41	3.13	3.13
37	0.42	0.39	2.22	2.21	2.61	2.53
38	0.28	0.31	1.79	1.90	2.65	2.71
39	0.36	0.37	1.81	1.83	2.91	2.90
40	0.68	0.74	2.35	2.39	2.55	2.60
41	0.64	0.71	2.31	2.38	2.58	2.64
42	0.35	0.38	2.64	2.74	2.80	2.82
43	0.21	0.21	0.85	0.85	2.94	2.95
44	0.37	0.40	1.51	1.55	3.01	3.17
45	0.24	0.27	1.19	1.27	3.11	3.10
46	0.53	0.61	1.92	1.97	2.70	2.80
47	0.29	0.29	2.15	2.15	2.61	2.61
48	0.21	0.21	1.03	1.03	2.61	2.61
49	0.37	0.41	1.33	1.38	3.04	3.03
50	0.31	0.34	1.38	1.44	3.11	3.12
51	0.25	0.27	2.07	2.16	2.52	2.55
52	0.42	0.42	1.37	1.38	2.99	2.99
53	0.37	0.40	2.20	2.28	2.55	2.60
54	0.16	0.19	1.01	1.02	2.42	2.51
55	0.57	0.58	1.95	1.97	2.75	2.72
56	0.80	0.86	2.39	2.41	2.58	2.60
57	0.29	0.32	2.55	2.65	2.44	2.39
58	0.71	0.72	2.31	2.34	2.76	2.76

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3	0.34	0.34	1.97	1.98	2.79	2.78
4	0.34	0.34	1.08	1.08	3.38	3.38
5	0.27	0.30	2.21	2.36	2.45	2.43
6	0.51	0.59	1.88	1.97	2.73	2.89
7	0.29	0.29	2.24	2.25	2.57	2.57
8	0.20	0.21	0.96	0.99	2.65	2.73
9	0.30	0.32	2.49	2.65	2.25	2.34
10	0.33	0.33	1.98	2.01	2.80	2.77
11	0.34	0.35	1.25	1.29	3.14	3.12
12	0.30	0.32	1.04	1.10	3.12	3.12
13	0.37	0.41	1.33	1.38	3.04	3.03
14	0.29	0.29	2.15	2.15	2.61	2.60
15	0.32	0.31	2.61	2.60	2.38	2.35
16	0.43	0.44	1.61	1.64	3.17	3.17
17	0.42	0.42	3.49	3.50	2.43	2.43
18	0.29	0.33	2.61	2.70	2.37	2.38
19	0.34	0.35	3.46	3.55	2.46	2.54
20	0.29	0.30	2.49	2.54	2.43	2.36
21	0.26	0.28	1.24	1.33	3.13	3.11
22	0.52	0.49	1.92	1.91	2.81	2.71
23	0.37	0.37	2.83	2.83	2.40	2.40
24	0.37	0.40	2.20	2.28	2.53	2.60
25	0.31	0.31	2.46	2.47	2.48	2.48
26	0.41	0.44	2.03	2.12	2.70	2.71
27	0.58	0.59	1.81	1.89	2.90	2.87
28	0.34	0.34	1.98	1.98	2.79	2.79
29	0.29	0.33	2.54	2.69	2.39	2.38
30	0.31	0.31	2.47	2.47	2.49	2.49
31	0.36	0.37	1.45	1.55	2.84	2.80
32	0.43	0.46	1.70	1.78	2.93	2.93
33	0.33	0.35	1.08	1.11	3.08	3.14
34	0.35	0.35	1.40	1.39	3.11	3.04
35	0.29	0.29	2.24	2.24	2.56	2.56
36	0.32	0.32	1.95	1.99	2.67	2.63
37	0.28	0.29	2.21	2.24	2.55	2.52
38	0.43	0.47	2.08	2.16	2.62	2.64
39	0.33	0.34	2.01	2.02	2.80	2.78
40	0.31	0.33	1.86	2.00	2.69	2.62
41	0.33	0.33	2.73	2.73	2.44	2.44
42	0.39	0.43	2.01	2.10	2.70	2.70
43	0.34	0.34	1.74	1.75	2.95	2.95
44	0.38	0.38	1.48	1.48	3.13	3.13
45	0.37	0.40	2.20	2.28	2.54	2.60
46	0.29	0.29	2.13	2.14	2.60	2.59
47	0.31	0.31	1.40	1.40	3.13	3.13
48	0.36	0.36	1.60	1.62	2.97	2.97
49	0.35	0.36	2.76	2.80	2.38	2.34
50	0.55	0.61	2.07	2.13	2.61	2.75
51	0.82	0.82	2.39	2.40	2.83	2.84
52	0.48	0.55	1.77	1.82	2.65	2.78
53	0.27	0.30	2.21	2.35	2.47	2.43
54	0.36	0.36	1.53	1.53	2.83	2.83
55	0.29	0.31	1.01	1.04	3.19	3.25
56	0.35	0.38	1.39	1.37	2.99	3.04
57	0.37	0.41	1.44	1.52	2.91	2.88
58	0.52	0.52	2.25	2.25	2.66	2.66

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3	0.40	0.40	1.60	1.63	2.83	2.82
4	0.61	0.66	1.91	2.10	2.65	2.77
5	0.20	0.22	1.01	1.05	2.58	2.67
6	0.57	0.58	1.89	1.93	2.71	2.73
7	0.62	0.67	2.27	2.31	2.81	2.66
8	0.38	0.38	1.37	1.38	3.20	3.20
9	0.37	0.37	2.84	2.84	2.37	2.37
10	0.27	0.27	1.34	1.33	2.93	2.93
11	0.31	0.31	1.41	1.41	3.13	3.13
12	0.31	0.33	1.47	1.54	2.95	2.96
13	0.28	0.31	1.80	1.89	2.78	2.80
14	0.34	0.34	1.79	1.80	2.93	2.93
15	0.28	0.28	1.89	1.90	2.71	2.69
16	0.30	0.33	2.60	2.71	2.35	2.38
17	0.37	0.37	1.17	1.18	3.20	3.21
18	0.27	0.30	2.21	2.32	2.50	2.45
19	0.37	0.37	1.52	1.50	3.16	3.06
20	0.29	0.31	1.76	1.88	2.76	2.77
21	0.32	0.33	1.84	1.88	2.83	2.80
22	0.32	0.33	1.30	1.30	3.01	3.00
23	0.28	0.31	1.81	1.90	2.78	2.79
24	0.22	0.24	1.03	1.08	3.45	3.45
25	0.50	0.52	1.84	1.87	3.04	2.87
26	0.46	0.48	1.60	1.69	2.91	2.95
27	0.30	0.34	1.72	1.83	2.58	2.60
28	0.31	0.34	1.40	1.44	3.12	3.12
29	0.31	0.32	2.53	2.69	2.26	2.37
30	0.29	0.31	1.87	1.97	2.74	2.75
31	0.22	0.22	1.34	1.36	3.14	3.12
32	0.28	0.28	1.94	1.97	2.74	2.70
33	0.28	0.31	1.62	1.73	2.76	2.82
34	0.27	0.28	2.20	2.24	2.50	2.42
35	0.29	0.33	2.54	2.68	2.40	2.38
36	0.31	0.32	2.32	2.50	2.35	2.41
37	0.31	0.31	1.82	1.83	2.63	2.62
38	0.31	0.34	2.09	2.19	2.45	2.46
39	0.23	0.25	1.46	1.52	3.06	3.08
40	0.28	0.31	1.81	1.91	2.77	2.79
41	0.28	0.31	1.47	1.52	3.07	3.06
42	0.36	0.40	1.31	1.37	2.91	3.06
43	0.19	0.21	0.90	0.94	2.76	2.84
44	0.36	0.36	2.39	2.40	2.40	2.39
45	0.34	0.38	1.48	1.51	3.07	3.15
46	0.31	0.31	2.46	2.47	2.48	2.48
47	0.29	0.32	1.43	1.55	2.89	2.89
48	0.35	0.35	2.22	2.27	2.41	2.39
49	0.22	0.22	0.98	0.98	2.92	2.92
50	0.21	0.22	0.98	1.04	2.76	2.88
51	0.20	0.21	1.01	1.04	2.60	2.67
52	0.27	0.30	1.17	1.25	3.14	3.16
53	0.21	0.22	0.44	0.44	2.58	2.58
54	0.29	0.31	1.02	1.06	3.26	3.26
55	0.27	0.29	2.21	2.34	2.41	2.45
56	0.34	0.34	1.55	1.58	3.04	3.02
57	0.40	0.44	1.85	1.90	2.85	2.83
58	0.60	0.60	1.98	1.99	2.76	2.75

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3	0.21	0.22	1.34	1.34	3.06	3.06
4	0.30	0.30	2.51	2.49	2.41	2.33
5	0.58	0.63	2.16	2.20	2.68	2.70
6	0.26	0.29	2.18	2.25	2.53	2.44
7	0.34	0.36	3.53	3.74	2.49	2.57
8	0.31	0.33	2.11	2.18	2.48	2.46
9	0.16	0.19	1.02	1.02	2.42	2.51
10	0.42	0.39	2.22	2.21	2.62	2.53
11	0.38	0.38	2.13	2.15	2.63	2.61
12	0.31	0.34	2.09	2.19	2.45	2.46
13	0.29	0.29	1.53	1.53	2.98	2.98
14	0.30	0.33	2.10	2.21	2.50	2.44
15	0.31	0.31	2.47	2.47	2.49	2.49
16	0.77	0.78	2.39	2.54	2.58	2.55
17	0.32	0.35	3.47	3.61	2.48	2.56
18	0.28	0.28	1.87	1.90	2.70	2.67
19	0.16	0.19	0.90	0.92	2.58	2.66
20	0.16	0.17	0.28	0.31	3.65	3.57
21	0.35	0.36	1.58	1.61	2.97	2.96
22	0.34	0.35	1.35	1.33	3.06	2.99
23	0.23	0.23	1.03	1.03	2.81	2.81
24	0.39	0.40	1.51	1.63	3.16	3.10
25	0.33	0.33	2.73	2.73	2.44	2.44
26	0.52	0.52	2.25	2.25	2.66	2.66
27	0.31	0.34	1.34	1.40	2.87	2.93
28	0.16	0.19	1.01	1.02	2.42	2.51
29	0.17	0.19	1.03	1.04	2.45	2.55
30	0.30	0.33	2.60	2.71	2.36	2.38
31	0.30	0.33	2.60	2.71	2.36	2.38
32	0.30	0.33	2.60	2.71	2.35	2.38
33	0.23	0.25	1.46	1.56	2.95	3.04
34	0.38	0.38	1.43	1.44	3.01	3.01
35	0.29	0.31	2.48	2.61	2.33	2.39
36	0.33	0.32	2.46	2.50	2.39	2.36
37	0.28	0.30	2.24	2.39	2.31	2.40
38	0.34	0.38	1.41	1.42	3.03	3.10
39	0.29	0.31	1.20	1.25	3.02	3.03
40	0.20	0.21	1.19	1.29	2.85	2.95
41	0.30	0.33	2.60	2.71	2.36	2.38
42	0.59	0.59	1.85	1.87	2.93	2.93
43	0.58	0.63	2.16	2.20	2.67	2.70
44	0.29	0.29	2.15	2.15	2.60	2.60
45	0.33	0.33	1.16	1.18	3.12	3.12
46	0.25	0.27	1.73	1.84	2.54	2.64
47	0.29	0.33	2.54	2.69	2.38	2.38
48	0.26	0.29	1.09	1.17	2.96	3.09
49	0.18	0.20	0.77	0.81	2.81	2.88
50	0.28	0.28	1.89	1.90	2.71	2.69
51	0.27	0.29	2.19	2.30	2.53	2.45
52	0.30	0.33	2.60	2.71	2.36	2.38
53	0.52	0.52	2.24	2.24	2.65	2.65
54	0.66	0.66	2.04	2.06	3.05	3.06
55	0.30	0.33	2.12	2.23	2.47	2.43
56	0.37	0.40	2.20	2.28	2.55	2.60
57	0.34	0.38	3.21	3.34	2.32	2.38
58	0.30	0.33	2.60	2.71	2.36	2.38

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3	0.60	0.60	1.98	1.99	2.76	2.75
4	0.30	0.32	2.63	2.69	2.40	2.38
5	0.28	0.31	1.80	1.89	2.78	2.80
6	0.30	0.30	1.05	1.03	3.14	3.18
7	0.43	0.48	2.07	2.16	2.62	2.64
8	0.31	0.34	1.53	1.62	2.94	2.91
9	0.26	0.28	2.19	2.25	2.50	2.42
10	0.34	0.37	1.49	1.49	3.15	3.17
11	0.33	0.37	1.36	1.36	2.94	2.99
12	0.29	0.31	2.48	2.60	2.34	2.39
13	0.31	0.30	2.42	2.45	2.45	2.42
14	0.66	0.73	2.01	2.11	2.64	2.71
15	0.39	0.44	1.82	1.91	2.81	2.82
16	0.34	0.34	1.98	1.99	2.78	2.77
17	0.26	0.27	1.93	2.02	2.53	2.56
18	0.34	0.34	1.79	1.80	2.93	2.93
19	0.29	0.31	2.48	2.60	2.34	2.39
20	0.29	0.32	2.53	2.62	2.48	2.40
21	0.28	0.31	1.53	1.60	3.00	3.01
22	0.29	0.33	2.60	2.71	2.36	2.38
23	0.49	0.55	1.40	1.44	3.03	3.18
24	0.36	0.40	1.63	1.75	2.81	2.76
25	0.31	0.33	1.85	1.99	2.69	2.62
26	0.49	0.49	1.82	1.83	2.92	2.93
27	0.52	0.57	1.87	1.98	2.61	2.71
28	0.28	0.31	1.64	1.72	2.90	2.92
29	0.25	0.27	1.16	1.24	2.81	2.86
30	0.13	0.17	0.65	0.64	2.60	2.58
31	0.25	0.29	1.09	1.16	2.97	3.09
32	0.27	0.30	1.13	1.18	2.93	3.02
33	0.81	0.82	2.38	2.41	2.82	2.82
34	0.81	0.82	2.38	2.41	2.82	2.82
35	0.31	0.33	2.12	2.26	2.44	2.42
36	0.29	0.33	2.54	2.69	2.38	2.37
37	0.30	0.33	2.60	2.71	2.36	2.38
38	0.36	0.36	2.81	2.82	2.69	2.66
39	0.38	0.38	1.10	1.11	3.14	3.14
40	0.33	0.36	3.51	3.71	2.48	2.56
41	0.37	0.37	2.83	2.83	2.40	2.40
42	0.32	0.32	2.75	2.78	2.45	2.43
43	0.33	0.35	1.09	1.10	3.08	3.13
44	0.30	0.30	1.36	1.41	3.05	3.01
45	0.35	0.37	1.52	1.53	3.18	3.18
46	0.29	0.32	1.45	1.51	3.01	2.98
47	0.12	0.14	0.58	0.61	2.80	2.73
48	0.25	0.28	1.64	1.73	2.41	2.52
49	0.37	0.40	2.20	2.28	2.53	2.60
50	0.45	0.46	2.12	2.13	2.71	2.65
51	0.33	0.36	1.36	1.38	2.93	3.00
52	0.33	0.35	3.47	3.58	2.47	2.55
53	0.50	0.56	1.89	1.95	2.76	2.91
54	0.37	0.38	1.47	1.48	3.12	3.12
55	0.25	0.26	1.61	1.65	2.66	2.55
56	0.50	0.50	1.77	1.77	2.99	2.99
57	0.33	0.35	2.18	2.35	2.33	2.38
58	0.35	0.35	1.41	1.41	3.17	3.08

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3	0.30	0.32	1.86	2.01	2.70	2.67
4	0.30	0.32	1.20	1.25	3.01	3.04
5	0.36	0.39	1.29	1.35	2.97	2.98
6	0.20	0.21	0.96	1.00	2.70	2.78
7	0.29	0.31	1.76	1.87	2.77	2.78
8	0.33	0.37	1.36	1.36	2.95	3.01
9	0.34	0.38	1.50	1.54	3.07	3.16
10	0.37	0.37	1.51	1.51	2.90	2.90
11	0.35	0.37	1.36	1.32	3.01	3.01
12	0.36	0.40	1.90	1.98	2.80	2.78
13	0.28	0.31	1.82	1.90	2.78	2.79
14	0.34	0.37	1.69	1.80	2.79	2.72
15	0.33	0.37	1.36	1.36	2.94	3.00
16	0.35	0.35	1.34	1.35	3.23	3.24
17	0.31	0.31	1.31	1.31	3.20	3.20
18	0.29	0.31	2.53	2.57	2.47	2.38
19	0.41	0.41	1.47	1.48	3.20	3.20
20	0.27	0.30	2.21	2.36	2.44	2.43
21	0.30	0.31	1.02	1.05	3.17	3.21
22	0.29	0.32	1.87	2.05	2.53	2.55
23	0.33	0.33	2.72	2.73	2.44	2.43
24	0.62	0.62	2.01	2.04	3.05	3.06
25	0.61	0.58	1.91	1.92	2.74	2.73
26	0.37	0.41	1.32	1.48	2.89	3.06
27	0.30	0.33	2.60	2.71	2.36	2.38
28	0.38	0.38	1.10	1.10	3.15	3.15
29	0.28	0.28	1.27	1.32	3.20	3.07
30	0.16	0.19	1.01	1.02	2.41	2.50
31	0.55	0.55	1.83	1.83	3.03	3.03
32	0.60	0.60	1.99	2.02	3.10	3.11
33	0.82	0.82	2.39	2.40	2.83	2.83
34	0.25	0.27	2.06	2.16	2.48	2.53
35	0.31	0.33	2.10	2.19	2.46	2.46
36	0.65	0.73	2.23	2.31	2.67	2.75
37	0.20	0.21	1.02	1.04	2.54	2.55
38	0.78	0.78	2.44	2.45	2.71	2.71
39	0.44	0.44	1.41	1.45	3.01	3.00
40	0.27	0.27	1.37	1.39	3.00	2.96
41	0.20	0.20	0.63	0.64	2.82	2.86
42	0.43	0.43	2.34	2.36	2.63	2.62
43	0.54	0.58	1.27	1.36	3.07	3.12
44	0.41	0.41	1.90	1.93	2.66	2.65
45	0.37	0.40	1.51	1.55	3.02	3.16
46	0.35	0.37	1.44	1.51	2.71	2.76
47	0.46	0.47	1.73	1.82	2.73	2.90
48	0.31	0.34	1.34	1.38	2.89	2.95
49	0.57	0.52	2.11	2.07	2.70	2.60
50	0.30	0.32	1.19	1.21	3.01	3.06
51	0.29	0.31	1.77	1.88	2.77	2.78
52	0.41	0.41	3.42	3.46	2.41	2.37
53	0.46	0.47	1.71	1.74	2.86	2.95
54	0.28	0.30	1.88	1.92	2.79	2.78
55	0.29	0.31	1.56	1.62	2.93	2.91
56	0.40	0.40	1.35	1.39	3.07	3.03
57	0.31	0.31	1.46	1.46	3.06	3.06
58	0.31	0.30	2.41	2.45	2.45	2.41

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3	0.32	0.32	1.58	1.58	2.90	2.90
4	0.26	0.28	0.94	1.00	3.43	3.45
5	0.30	0.33	2.02	2.13	2.55	2.52
6	0.30	0.30	1.67	1.67	2.75	2.75
7	0.46	0.48	1.60	1.69	2.91	2.95
8	0.32	0.32	1.57	1.58	2.89	2.89
9	0.31	0.31	1.46	1.46	3.06	3.06
10	0.31	0.30	1.35	1.39	2.97	2.87
11	0.30	0.33	2.60	2.71	2.35	2.38
12	0.35	0.36	1.39	1.38	3.20	3.10
13	0.29	0.33	2.54	2.69	2.38	2.38
14	0.27	0.29	2.21	2.34	2.41	2.45
15	0.36	0.36	1.91	1.96	2.61	2.56
16	0.32	0.32	1.35	1.35	3.16	3.16
17	0.29	0.32	1.77	1.89	2.63	2.67
18	0.51	0.58	1.88	1.95	2.76	2.89
19	0.32	0.34	2.08	2.23	2.33	2.41
20	0.23	0.23	1.07	1.09	2.75	2.75
21	0.26	0.28	2.19	2.26	2.50	2.43
22	0.35	0.38	1.38	1.37	2.98	3.04
23	0.18	0.20	0.77	0.81	2.81	2.87
24	0.64	0.74	2.19	2.28	2.63	2.72
25	0.28	0.31	2.23	2.39	2.35	2.39
26	0.25	0.27	2.07	2.16	2.52	2.55
27	0.29	0.31	2.48	2.61	2.33	2.39
28	0.29	0.33	2.61	2.70	2.38	2.38
29	0.33	0.36	2.06	2.21	2.44	2.53
30	0.32	0.34	1.13	1.21	2.96	3.03
31	0.46	0.47	1.69	1.75	2.82	2.97
32	0.16	0.19	1.02	1.02	2.42	2.51
33	0.25	0.27	2.07	2.16	2.53	2.55
34	0.62	0.62	1.45	1.46	3.16	3.17
35	0.41	0.42	1.60	1.63	3.24	3.23
36	0.36	0.40	1.90	1.97	2.81	2.78
37	0.24	0.27	1.10	1.18	3.19	3.20
38	0.35	0.36	2.35	2.39	2.39	2.36
39	0.30	0.32	1.15	1.19	3.02	3.08
40	0.56	0.58	1.87	1.93	2.70	2.73
41	0.54	0.55	1.40	1.41	3.28	3.29
42	0.33	0.36	1.37	1.45	2.82	2.85
43	0.34	0.34	1.67	1.67	2.88	2.88
44	0.29	0.33	2.61	2.71	2.37	2.38
45	0.47	0.47	2.21	2.21	2.72	2.72
46	0.34	0.38	1.48	1.52	3.07	3.15
47	0.23	0.23	0.51	0.51	4.26	4.31
48	0.70	0.71	2.05	2.06	2.93	2.94
49	0.58	0.64	2.17	2.23	2.59	2.69
50	0.35	0.35	1.44	1.45	3.18	3.10
51	0.36	0.36	1.62	1.62	2.98	2.98
52	0.41	0.41	1.43	1.44	3.16	3.16
53	0.34	0.37	1.49	1.50	3.12	3.16
54	0.34	0.34	1.79	1.80	2.93	2.93
55	0.38	0.41	2.23	2.36	2.46	2.58
56	0.35	0.36	1.39	1.38	3.16	3.07
57	0.55	0.62	2.07	2.13	2.60	2.75
58	0.41	0.41	1.35	1.36	3.22	3.22

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3	0.28	0.28	1.92	1.92	2.73	2.73
4	0.26	0.29	1.26	1.36	3.07	3.07
5	0.33	0.33	1.40	1.40	2.97	2.97
6	0.37	0.37	2.83	2.84	2.36	2.36
7	0.21	0.21	0.84	0.86	2.91	2.90
8	0.30	0.32	1.48	1.50	3.00	2.98
9	0.36	0.38	1.31	1.41	2.90	2.96
10	0.36	0.36	1.37	1.36	3.03	2.98
11	0.62	0.63	1.96	1.99	2.80	2.73
12	0.31	0.30	2.40	2.45	2.44	2.40
13	0.28	0.29	1.92	1.87	2.84	2.74
14	0.34	0.37	1.43	1.51	2.79	2.81
15	0.35	0.35	2.31	2.40	2.38	2.33
16	0.40	0.40	1.98	1.99	2.68	2.68
17	0.27	0.29	2.21	2.30	2.46	2.45
18	0.42	0.42	1.36	1.36	3.10	3.10
19	0.50	0.55	1.40	1.44	3.02	3.18
20	0.31	0.31	2.47	2.47	2.49	2.49
21	0.27	0.29	1.41	1.51	2.99	2.97
22	0.34	0.37	1.43	1.52	2.77	2.81
23	0.24	0.24	1.44	1.48	3.09	3.02
24	0.66	0.69	2.32	2.34	2.77	2.59
25	0.30	0.33	2.60	2.71	2.36	2.38
26	0.37	0.41	1.34	1.38	3.04	3.03
27	0.37	0.37	1.84	1.84	2.93	2.93
28	0.36	0.40	1.52	1.57	3.02	3.10
29	0.30	0.33	0.73	0.76	3.68	3.78
30	0.37	0.41	2.21	2.33	2.44	2.56
31	0.33	0.33	2.48	2.50	2.40	2.38
32	0.34	0.36	1.72	1.76	2.88	2.75
33	0.33	0.33	2.73	2.73	2.44	2.44
34	0.27	0.30	1.77	1.87	2.55	2.62
35	0.30	0.31	1.03	1.05	3.27	3.25
36	0.31	0.31	2.47	2.47	2.48	2.48
37	0.28	0.28	1.93	1.97	2.73	2.69
38	0.31	0.31	2.47	2.47	2.48	2.48
39	0.43	0.48	2.07	2.16	2.61	2.64
40	0.28	0.28	1.15	1.16	3.25	3.26
41	0.27	0.29	1.41	1.49	2.74	2.79
42	0.31	0.31	2.46	2.47	2.48	2.48
43	0.34	0.34	1.07	1.09	3.36	3.36
44	0.54	0.54	1.81	1.84	3.01	3.02
45	0.34	0.37	1.68	1.80	2.78	2.72
46	0.34	0.38	3.20	3.35	2.32	2.38
47	0.50	0.54	2.05	2.12	2.61	2.63
48	0.47	0.48	1.62	1.68	2.92	2.95
49	0.25	0.27	2.07	2.16	2.53	2.55
50	0.32	0.33	1.87	2.00	2.71	2.62
51	0.25	0.27	2.07	2.16	2.52	2.55
52	0.40	0.40	1.39	1.39	3.08	3.08
53	0.64	0.71	1.73	1.74	3.00	3.15
54	0.16	0.19	1.01	1.02	2.42	2.51
55	0.36	0.36	1.62	1.62	2.98	2.98
56	0.28	0.31	1.64	1.72	2.90	2.92
57	0.32	0.32	1.46	1.46	3.06	3.06
58	0.40	0.41	1.29	1.36	3.03	2.95

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3	0.33	0.34	1.34	1.42	2.78	2.83
4	0.42	0.42	1.61	1.62	3.26	3.26
5	0.29	0.31	1.92	1.96	2.79	2.77
6	0.30	0.31	1.04	1.07	3.16	3.18
7	0.59	0.59	1.97	1.98	2.76	2.74
8	0.36	0.39	1.29	1.35	2.97	2.98
9	0.26	0.27	1.93	2.04	2.50	2.55
10	0.68	0.72	2.33	2.36	2.65	2.61
11	0.38	0.38	1.12	1.13	3.19	3.19
12	0.28	0.30	1.86	1.89	2.81	2.80
13	0.30	0.32	2.63	2.68	2.40	2.38
14	0.30	0.32	1.54	1.66	2.89	2.94
15	0.34	0.34	2.07	2.07	2.66	2.55
16	0.29	0.29	1.28	1.28	3.16	3.16
17	0.41	0.41	1.47	1.47	3.20	3.20
18	0.40	0.40	1.60	1.63	2.83	2.82
19	0.21	0.24	0.94	1.00	3.44	3.38
20	0.66	0.66	2.04	2.06	3.05	3.05
21	0.37	0.41	1.33	1.38	3.04	3.03
22	0.30	0.33	1.02	1.10	2.92	3.06
23	0.33	0.33	2.67	2.71	2.40	2.37
24	0.29	0.33	2.54	2.67	2.41	2.38
25	0.29	0.31	2.49	2.59	2.37	2.39
26	0.38	0.38	3.74	3.75	2.63	2.63
27	0.34	0.35	1.72	1.72	2.89	2.75
28	0.27	0.29	2.21	2.34	2.41	2.45
29	0.32	0.35	2.04	2.14	2.55	2.57
30	0.69	0.74	2.34	2.48	2.47	2.55
31	0.37	0.40	2.20	2.28	2.55	2.60
32	0.25	0.28	1.23	1.31	3.05	3.05
33	0.29	0.31	1.77	1.88	2.76	2.77
34	0.55	0.58	1.87	1.94	2.69	2.73
35	0.37	0.37	2.17	2.21	2.54	2.52
36	0.50	0.56	1.89	1.96	2.74	2.91
37	0.26	0.29	2.18	2.29	2.55	2.45
38	0.14	0.16	0.63	0.63	2.80	2.79
39	0.44	0.44	2.36	2.37	2.66	2.66
40	0.31	0.33	0.89	0.92	3.43	3.40
41	0.50	0.56	1.89	1.95	2.75	2.91
42	0.82	0.82	2.40	2.40	2.83	2.84
43	0.29	0.31	1.76	1.88	2.76	2.77
44	0.66	0.66	2.05	2.05	3.06	3.06
45	0.43	0.43	2.35	2.36	2.65	2.64
46	0.27	0.30	1.34	1.39	2.98	2.97
47	0.41	0.42	1.57	1.59	3.23	3.23
48	0.48	0.54	1.81	1.83	2.76	2.80
49	0.46	0.48	1.61	1.69	2.91	2.95
50	0.21	0.22	0.44	0.44	2.58	2.58
51	0.31	0.31	2.47	2.47	2.49	2.49
52	0.27	0.29	2.21	2.34	2.40	2.44
53	0.37	0.37	1.34	1.31	3.02	2.96
54	0.39	0.43	2.03	2.09	2.72	2.70
55	0.33	0.36	1.37	1.46	2.82	2.85
56	0.40	0.40	1.61	1.62	2.83	2.83
57	0.28	0.31	1.53	1.60	3.00	3.01
58	0.80	0.86	2.39	2.41	2.57	2.60

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3	0.29	0.29	1.30	1.31	2.90	2.90
4	0.31	0.32	2.52	2.69	2.26	2.36
5	0.37	0.38	1.08	1.12	3.12	3.11
6	0.25	0.27	2.07	2.16	2.52	2.55
7	0.58	0.58	2.20	2.20	2.66	2.66
8	0.53	0.61	1.91	1.97	2.69	2.80
9	0.36	0.39	1.52	1.56	3.03	3.10
10	0.60	0.64	1.95	2.14	2.90	2.88
11	0.20	0.21	0.97	1.01	2.64	2.73
12	0.31	0.33	2.02	2.16	2.52	2.51
13	0.31	0.34	1.34	1.38	2.89	2.95
14	0.41	0.40	2.84	2.86	2.83	2.80
15	0.24	0.27	1.75	1.86	2.68	2.71
16	0.34	0.34	1.58	1.59	3.06	3.06
17	0.51	0.58	1.88	1.95	2.76	2.89
18	0.35	0.37	1.49	1.49	3.14	3.16
19	0.38	0.38	3.74	3.74	2.63	2.63
20	0.33	0.33	1.78	1.79	2.92	2.92
21	0.37	0.38	1.34	1.36	3.19	3.18
22	0.29	0.28	2.19	2.20	2.49	2.45
23	0.29	0.32	1.44	1.51	3.01	2.98
24	0.34	0.36	2.68	2.84	2.30	2.32
25	0.28	0.31	1.84	1.90	2.79	2.79
26	0.71	0.76	2.35	2.56	2.50	2.57
27	0.39	0.40	1.57	1.65	2.80	2.77
28	0.26	0.28	1.40	1.48	2.74	2.78
29	0.66	0.69	2.31	2.34	2.77	2.59
30	0.30	0.31	0.99	0.99	3.29	3.34
31	0.36	0.39	1.47	1.58	3.00	3.10
32	0.17	0.19	1.03	1.05	2.49	2.59
33	0.34	0.38	3.20	3.35	2.32	2.38
34	0.46	0.48	1.52	1.65	3.06	3.07
35	0.33	0.33	1.10	1.10	3.22	3.22
36	0.44	0.44	2.07	2.07	2.77	2.77
37	0.30	0.32	1.20	1.25	3.00	3.04
38	0.18	0.22	0.41	0.44	3.73	3.53
39	0.44	0.44	1.43	1.44	3.03	3.03
40	0.62	0.62	2.02	2.03	3.07	3.07
41	0.29	0.33	2.54	2.69	2.39	2.38
42	0.33	0.33	2.51	2.51	2.41	2.40
43	0.51	0.51	1.78	1.78	3.00	3.00
44	0.29	0.31	1.83	1.93	2.76	2.78
45	0.31	0.31	1.41	1.42	3.10	3.09
46	0.53	0.62	1.91	1.98	2.66	2.80
47	0.34	0.36	1.43	1.50	2.82	2.80
48	0.34	0.38	1.48	1.52	3.07	3.15
49	0.37	0.37	2.84	2.84	2.37	2.37
50	0.31	0.34	1.33	1.38	2.88	2.95
51	0.34	0.34	2.00	2.01	2.81	2.81
52	0.35	0.38	1.27	1.32	2.97	2.98
53	0.46	0.51	1.34	1.39	2.98	3.15
54	0.71	0.76	2.35	2.58	2.51	2.56
55	0.21	0.22	1.00	1.05	2.68	2.81
56	0.40	0.40	1.97	1.97	2.61	2.61
57	0.34	0.34	1.20	1.20	3.24	3.24
58	0.39	0.40	1.43	1.53	3.16	3.10

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3	0.33	0.33	2.50	2.51	2.41	2.40
4	0.48	0.49	1.97	1.98	2.82	2.82
5	0.24	0.26	1.74	1.84	2.72	2.73
6	0.31	0.32	1.49	1.63	2.81	2.75
7	0.36	0.36	1.55	1.55	2.88	2.88
8	0.37	0.37	2.83	2.83	2.40	2.40
9	0.45	0.47	2.12	2.16	2.66	2.63
10	0.32	0.35	1.97	2.05	2.65	2.64
11	0.42	0.42	2.31	2.35	2.60	2.57
12	0.42	0.45	2.07	2.22	2.57	2.69
13	0.31	0.35	1.42	1.50	2.73	2.76
14	0.26	0.26	1.76	1.79	2.82	2.71
15	0.35	0.38	1.35	1.33	2.94	2.99
16	0.68	0.68	2.19	2.19	2.90	2.90
17	0.55	0.58	1.87	1.94	2.69	2.73
18	0.48	0.48	2.19	2.19	2.70	2.70
19	0.34	0.34	1.77	1.77	2.67	2.67
20	0.37	0.37	2.83	2.84	2.36	2.36
21	0.41	0.41	3.41	3.46	2.41	2.37
22	0.40	0.40	1.61	1.62	2.83	2.83
23	0.29	0.31	2.53	2.59	2.47	2.39
24	0.42	0.42	3.50	3.50	2.43	2.43
25	0.28	0.28	1.21	1.27	3.13	3.19
26	0.37	0.37	2.82	2.82	2.40	2.40
27	0.35	0.37	1.43	1.51	2.74	2.79
28	0.19	0.19	1.19	1.19	2.91	2.87
29	0.25	0.24	1.47	1.47	3.09	3.02
30	0.33	0.33	2.73	2.73	2.44	2.44
31	0.42	0.42	1.31	1.31	3.04	3.04
32	0.18	0.20	0.77	0.80	2.81	2.86
33	0.34	0.38	1.68	1.80	2.77	2.72
34	0.22	0.22	1.29	1.39	3.04	2.96
35	0.38	0.38	1.43	1.44	3.01	3.00
36	0.32	0.32	2.44	2.49	2.39	2.35
37	0.40	0.40	1.98	1.99	2.68	2.68
38	0.27	0.28	1.19	1.20	3.12	3.10
39	0.43	0.43	2.08	2.10	2.79	2.69
40	0.16	0.19	0.85	0.87	2.59	2.66
41	0.44	0.43	2.05	2.07	2.80	2.78
42	0.34	0.38	3.21	3.34	2.33	2.38
43	0.23	0.25	1.36	1.44	2.70	2.80
44	0.31	0.33	1.22	1.28	2.94	3.00
45	0.25	0.26	1.02	1.03	3.17	3.06
46	0.31	0.31	1.82	1.83	2.64	2.63
47	0.44	0.45	1.43	1.44	3.03	3.03
48	0.43	0.49	1.70	1.76	2.81	2.92
49	0.34	0.32	1.39	1.44	3.00	2.87
50	0.37	0.37	2.10	2.14	2.60	2.57
51	0.32	0.32	1.45	1.50	3.01	2.89
52	0.72	0.72	2.32	2.32	2.77	2.78
53	0.44	0.44	2.37	2.37	2.67	2.67
54	0.23	0.23	1.03	1.04	2.86	2.86
55	0.31	0.33	2.02	2.17	2.49	2.50
56	0.35	0.35	2.73	2.80	2.36	2.32
57	0.38	0.38	1.43	1.44	3.01	3.01
58	0.36	0.37	1.38	1.37	3.14	3.03

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3	0.59	0.65	2.18	2.24	2.57	2.69
4	0.41	0.45	2.03	2.18	2.57	2.66
5	0.33	0.33	1.78	1.79	2.92	2.92
6	0.15	0.16	0.99	1.00	2.41	2.39
7	0.34	0.37	1.43	1.52	2.78	2.81
8	0.28	0.28	1.88	1.90	2.71	2.68
9	0.43	0.43	1.42	1.42	3.00	3.00
10	0.37	0.41	1.44	1.52	2.92	2.88
11	0.33	0.34	1.65	1.67	2.87	2.84
12	0.43	0.47	2.08	2.16	2.62	2.64
13	0.19	0.21	0.89	0.93	2.73	2.81
14	0.33	0.33	1.09	1.11	3.19	3.20
15	0.37	0.37	2.83	2.84	2.36	2.36
16	0.36	0.40	1.99	2.08	2.68	2.70
17	0.29	0.30	1.39	1.38	3.05	3.01
18	0.27	0.30	1.13	1.18	2.93	3.02
19	0.62	0.65	2.27	2.31	2.77	2.61
20	0.39	0.40	1.60	1.63	2.82	2.82
21	0.38	0.38	1.43	1.44	3.01	3.00
22	0.30	0.31	1.17	1.17	3.23	3.24
23	0.32	0.35	1.96	2.06	2.64	2.64
24	0.32	0.33	1.98	2.09	2.73	2.62
25	0.29	0.31	2.48	2.60	2.35	2.39
26	0.78	0.79	2.40	2.52	2.59	2.57
27	0.32	0.35	2.57	2.76	2.28	2.33
28	0.32	0.35	1.05	1.08	3.02	3.08
29	0.26	0.26	1.07	1.07	3.33	3.33
30	0.27	0.29	2.21	2.34	2.38	2.44
31	0.31	0.33	2.10	2.19	2.45	2.46
32	0.41	0.42	1.53	1.55	3.21	3.21
33	0.42	0.42	2.14	2.16	2.69	2.67
34	0.44	0.46	1.70	1.78	2.93	2.93
35	0.37	0.37	2.83	2.84	2.37	2.36
36	0.29	0.29	1.90	1.87	2.79	2.77
37	0.29	0.33	2.60	2.71	2.36	2.38
38	0.34	0.35	1.72	1.74	2.90	2.76
39	0.25	0.27	1.63	1.69	2.59	2.56
40	0.43	0.43	2.17	2.17	2.71	2.71
41	0.29	0.31	2.49	2.59	2.37	2.39
42	0.54	0.60	2.01	2.07	2.64	2.79
43	0.19	0.21	1.18	1.26	2.88	3.01
44	0.24	0.27	1.10	1.18	3.19	3.20
45	0.29	0.31	2.53	2.58	2.47	2.38
46	0.37	0.37	2.84	2.84	2.37	2.37
47	0.34	0.34	1.79	1.80	2.93	2.93
48	0.27	0.29	2.19	2.24	2.53	2.44
49	0.41	0.42	1.93	1.93	2.68	2.68
50	0.30	0.29	1.56	1.49	3.11	3.02
51	0.25	0.28	1.64	1.73	2.42	2.53
52	0.49	0.49	1.98	1.99	2.82	2.83
53	0.27	0.30	2.22	2.36	2.44	2.43
54	0.30	0.30	1.66	1.67	2.75	2.74
55	0.37	0.39	1.78	1.92	2.62	2.58
56	0.34	0.38	3.23	3.33	2.33	2.37
57	0.33	0.36	1.40	1.48	2.80	2.83
58	0.36	0.36	2.79	2.82	2.35	2.33

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2						
3	0.28	0.31	1.64	1.72	2.91	2.92
4	0.51	0.51	1.77	1.77	2.99	3.00
5	0.27	0.30	1.13	1.16	2.98	3.03
6	0.30	0.31	1.38	1.47	2.89	2.88
7	0.20	0.21	0.97	1.00	2.64	2.72
8	0.21	0.21	1.00	1.01	2.45	2.50
9	0.27	0.28	1.38	1.46	2.96	2.97
10	0.35	0.36	1.87	1.97	2.58	2.49
11	0.20	0.19	0.75	0.77	2.80	2.80
12	0.29	0.31	1.82	1.92	2.77	2.79
13	0.41	0.44	2.03	2.12	2.70	2.71
14	0.34	0.36	1.42	1.58	2.73	2.77
15	0.19	0.21	1.18	1.26	2.88	3.01
16	0.27	0.28	1.38	1.45	2.96	2.97
17	0.43	0.43	2.18	2.18	2.72	2.72
18	0.22	0.22	1.35	1.35	3.15	3.14
19	0.43	0.46	1.68	1.70	3.02	2.92
20	0.28	0.31	1.54	1.60	3.01	3.01
21	0.53	0.56	1.91	2.00	2.63	2.73
22	0.42	0.39	2.23	2.21	2.62	2.53
23	0.28	0.31	1.65	1.72	2.91	2.91
24	0.22	0.25	0.97	1.05	2.98	3.12
25	0.53	0.54	1.78	1.86	2.98	2.95
26	0.35	0.37	1.52	1.54	3.17	3.18
27	0.30	0.33	1.02	1.10	2.92	3.06
28	0.31	0.33	1.49	1.54	2.95	2.96
29	0.34	0.30	1.33	1.36	2.96	2.91
30	0.43	0.47	2.07	2.16	2.62	2.64
31	0.47	0.46	1.70	1.72	2.97	2.85
32	0.44	0.44	1.61	1.61	2.95	2.95
33	0.34	0.38	1.48	1.51	3.06	3.15
34	0.39	0.40	1.57	1.65	2.80	2.77
35	0.25	0.25	1.46	1.46	2.98	2.98
36	0.40	0.46	1.63	1.69	2.81	2.93
37	0.31	0.34	2.09	2.20	2.44	2.46
38	0.22	0.22	1.34	1.36	3.13	3.09
39	0.29	0.33	2.54	2.68	2.41	2.38
40	0.34	0.37	1.43	1.45	3.06	3.13
41	0.36	0.36	2.32	2.32	2.51	2.51
42	0.47	0.47	1.71	1.74	2.84	2.86
43	0.32	0.32	2.11	2.13	2.49	2.41
44	0.33	0.36	1.37	1.45	2.82	2.85
45	0.34	0.37	1.43	1.51	2.79	2.81
46	0.26	0.29	1.13	1.22	3.16	3.18
47	0.31	0.33	0.85	0.89	3.47	3.49
48	0.44	0.44	2.36	2.37	2.66	2.66
49	0.34	0.38	1.48	1.52	3.07	3.16
50	0.31	0.31	2.47	2.47	2.49	2.49
51	0.34	0.34	1.97	1.98	2.78	2.77
52	0.34	0.35	1.74	1.70	2.86	2.75
53	0.29	0.30	2.56	2.69	2.39	2.44
54	0.66	0.66	2.05	2.05	3.06	3.06
55	0.42	0.42	1.58	1.59	3.24	3.24
56	0.30	0.31	1.40	1.47	2.84	2.82
57	0.36	0.35	1.36	1.37	3.01	2.98
58	0.23	0.22	1.19	1.26	3.01	3.04

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3	0.38	0.38	1.37	1.37	3.20	3.20
4	0.27	0.28	2.18	2.27	2.48	2.50
5	0.40	0.40	1.97	1.97	2.61	2.61
6	0.26	0.27	1.93	2.04	2.47	2.54
7	0.34	0.34	1.99	1.99	2.82	2.82
8	0.44	0.44	1.58	1.62	3.29	3.30
9	0.35	0.36	3.60	3.74	2.56	2.56
10	0.23	0.24	1.45	1.51	3.08	3.07
11	0.53	0.62	1.91	1.98	2.66	2.80
12	0.29	0.30	2.57	2.69	2.39	2.44
13	0.52	0.52	2.25	2.25	2.66	2.66
14	0.32	0.32	1.48	1.42	3.15	3.08
15	0.28	0.31	1.81	1.90	2.79	2.80
16	0.30	0.30	1.28	1.28	3.18	3.18
17	0.68	0.74	2.35	2.45	2.46	2.53
18	0.34	0.34	1.22	1.23	3.09	3.09
19	0.38	0.37	1.43	1.43	2.89	2.90
20	0.35	0.36	1.43	1.55	2.84	2.78
21	0.26	0.29	1.25	1.34	3.13	3.12
22	0.27	0.30	1.77	1.87	2.56	2.62
23	0.35	0.35	1.73	1.73	2.92	2.92
24	0.33	0.33	2.71	2.72	2.43	2.41
25	0.41	0.41	1.47	1.48	3.20	3.20
26	0.68	0.74	2.35	2.40	2.53	2.59
27	0.25	0.25	1.55	1.61	3.00	3.08
28	0.36	0.36	1.52	1.53	2.82	2.82
29	0.29	0.30	1.05	1.01	3.22	3.19
30	0.36	0.36	2.36	2.39	2.39	2.37
31	0.32	0.32	1.57	1.58	2.89	2.89
32	0.32	0.35	1.26	1.31	3.22	3.20
33	0.27	0.29	2.21	2.33	2.43	2.45
34	0.34	0.34	2.03	2.03	2.80	2.80
35	0.33	0.36	1.36	1.38	2.92	2.98
36	0.65	0.71	2.01	2.06	2.64	2.74
37	0.44	0.44	2.37	2.37	2.67	2.67
38	0.37	0.40	2.20	2.28	2.53	2.60
39	0.39	0.43	2.02	2.09	2.72	2.70
40	0.29	0.32	1.79	1.91	2.62	2.63
41	0.37	0.37	2.82	2.83	2.40	2.40
42	0.39	0.40	1.37	1.54	2.82	2.92
43	0.25	0.27	2.07	2.15	2.53	2.55
44	0.35	0.36	1.58	1.61	2.97	2.96
45	0.31	0.30	2.39	2.46	2.43	2.39
46	0.30	0.30	1.35	1.35	3.09	3.09
47	0.25	0.28	1.64	1.73	2.43	2.53
48	0.44	0.45	1.61	1.62	2.84	2.84
49	0.31	0.33	1.48	1.54	2.95	2.96
50	0.30	0.34	1.72	1.83	2.59	2.61
51	0.27	0.30	2.21	2.34	2.48	2.44
52	0.37	0.40	2.20	2.28	2.54	2.60
53	0.43	0.43	2.16	2.17	2.71	2.70
54	0.27	0.29	2.21	2.33	2.42	2.45
55	0.21	0.22	0.49	0.51	4.08	4.30
56	0.32	0.34	1.01	1.08	3.06	3.20
57	0.40	0.40	1.61	1.62	2.83	2.83
58	0.31	0.32	1.04	1.05	3.14	3.12

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3	0.55	0.55	1.41	1.41	3.19	3.20
4	0.33	0.33	2.51	2.51	2.41	2.40
5	0.39	0.40	2.22	2.27	2.57	2.59
6	0.28	0.30	1.80	1.80	2.89	2.85
7	0.29	0.32	1.43	1.52	2.94	2.99
8	0.29	0.31	1.80	1.90	2.77	2.79
9	0.31	0.31	1.04	1.02	3.18	3.13
10	0.29	0.32	1.10	1.16	3.00	3.05
11	0.18	0.20	1.00	1.06	2.37	2.57
12	0.47	0.45	1.62	1.60	3.00	2.92
13	0.66	0.69	2.32	2.34	2.77	2.59
14	0.29	0.30	1.09	1.27	2.94	3.08
15	0.34	0.35	1.25	1.29	3.14	3.12
16	0.25	0.28	1.64	1.73	2.43	2.53
17	0.32	0.34	1.34	1.41	2.87	2.88
18	0.29	0.29	1.45	1.47	2.95	2.93
19	0.26	0.28	1.28	1.34	2.72	2.78
20	0.38	0.38	3.69	3.72	2.64	2.60
21	0.26	0.27	2.07	2.14	2.55	2.55
22	0.30	0.33	2.60	2.71	2.35	2.38
23	0.43	0.43	2.33	2.36	2.63	2.61
24	0.34	0.37	1.43	1.52	2.78	2.81
25	0.32	0.32	1.56	1.59	2.88	2.87
26	0.42	0.42	1.55	1.56	3.23	3.23
27	0.73	0.76	2.37	2.50	2.42	2.51
28	0.74	0.76	2.36	2.56	2.43	2.52
29	0.58	0.63	2.16	2.20	2.69	2.70
30	0.44	0.44	2.36	2.36	2.65	2.65
31	0.39	0.42	1.91	1.99	2.82	2.82
32	0.31	0.33	0.84	0.89	3.46	3.49
33	0.28	0.28	1.90	1.91	2.72	2.72
34	0.30	0.30	1.65	1.65	2.78	2.78
35	0.34	0.38	1.50	1.54	3.07	3.16
36	0.32	0.34	1.37	1.42	2.89	2.78
37	0.37	0.40	1.51	1.55	3.01	3.17
38	0.41	0.41	2.29	2.37	2.53	2.54
39	0.31	0.33	1.50	1.54	2.94	2.95
40	0.33	0.33	1.16	1.18	3.12	3.12
41	0.50	0.55	1.84	1.89	2.97	2.90
42	0.21	0.21	0.97	0.98	2.71	2.71
43	0.36	0.40	1.98	2.09	2.62	2.68
44	0.23	0.23	1.04	1.04	2.80	2.80
45	0.29	0.32	1.82	1.98	2.65	2.70
46	0.29	0.32	1.11	1.16	3.00	3.05
47	0.29	0.29	2.25	2.25	2.57	2.57
48	0.25	0.27	2.07	2.15	2.54	2.55
49	0.30	0.31	1.03	1.05	3.27	3.25
50	0.82	0.82	2.39	2.40	2.83	2.83
51	0.33	0.33	2.73	2.73	2.44	2.44
52	0.37	0.37	2.80	2.83	2.36	2.34
53	0.29	0.31	1.76	1.88	2.76	2.77
54	0.47	0.47	2.21	2.21	2.71	2.71
55	0.42	0.42	2.14	2.16	2.68	2.66
56	0.34	0.38	1.47	1.50	3.06	3.14
57	0.31	0.33	0.84	0.89	3.46	3.49
58	0.35	0.36	1.30	1.38	2.99	2.96

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3	0.24	0.27	1.75	1.86	2.67	2.71
4	0.37	0.38	1.37	1.34	3.13	3.02
5	0.44	0.42	2.14	2.08	2.79	2.68
6	0.29	0.30	2.27	2.43	2.33	2.42
7	0.16	0.18	1.04	1.05	2.50	2.56
8	0.31	0.30	2.41	2.45	2.45	2.41
9	0.35	0.39	1.33	1.39	2.90	3.07
10	0.17	0.19	1.03	1.05	2.49	2.58
11	0.25	0.27	1.11	1.17	3.20	3.21
12	0.33	0.33	2.73	2.73	2.44	2.44
13	0.29	0.30	2.50	2.52	2.42	2.35
14	0.34	0.37	1.40	1.42	2.86	2.89
15	0.29	0.32	1.44	1.51	3.01	2.98
16	0.29	0.31	2.48	2.60	2.34	2.39
17	0.33	0.33	2.72	2.73	2.43	2.43
18	0.26	0.26	1.76	1.78	2.83	2.71
19	0.35	0.35	1.31	1.31	3.12	3.12
20	0.21	0.21	1.02	1.03	2.59	2.59
21	0.31	0.31	1.31	1.31	3.20	3.20
22	0.36	0.36	2.79	2.81	2.39	2.37
23	0.36	0.36	2.79	2.81	2.39	2.37
24	0.44	0.49	1.31	1.37	2.95	3.11
25	0.23	0.24	1.46	1.51	3.07	3.08
26	0.34	0.35	1.42	1.40	3.20	3.09
27	0.26	0.27	1.93	2.04	2.50	2.55
28	0.79	0.85	2.38	2.40	2.62	2.61
29	0.30	0.31	1.38	1.48	2.88	2.88
30	0.64	0.64	1.92	1.92	2.92	2.92
31	0.29	0.31	2.48	2.60	2.34	2.39
32	0.41	0.41	1.47	1.48	3.20	3.20
33	0.34	0.38	3.21	3.35	2.32	2.38
34	0.27	0.30	2.21	2.35	2.46	2.43
35	0.35	0.38	1.27	1.32	2.98	2.98
36	0.37	0.38	1.45	1.48	2.99	2.98
37	0.32	0.35	3.47	3.60	2.48	2.56
38	0.30	0.31	1.41	1.50	2.79	2.81
39	0.32	0.32	1.42	1.42	3.14	3.14
40	0.25	0.27	2.07	2.16	2.53	2.55
41	0.32	0.34	1.41	1.43	3.13	3.12
42	0.41	0.41	3.45	3.48	2.42	2.39
43	0.38	0.38	1.43	1.44	3.01	3.01
44	0.27	0.29	2.21	2.34	2.41	2.45
45	0.24	0.27	1.10	1.18	3.20	3.20
46	0.34	0.38	1.44	1.46	3.06	3.13
47	0.47	0.50	1.26	1.32	3.18	3.18
48	0.19	0.21	0.46	0.49	4.07	4.20
49	0.30	0.32	1.39	1.46	3.00	3.01
50	0.21	0.22	1.27	1.39	2.99	2.95
51	0.44	0.44	2.36	2.37	2.66	2.66
52	0.45	0.46	2.11	2.14	2.69	2.65
53	0.38	0.38	3.70	3.73	2.64	2.60
54	0.41	0.41	1.43	1.43	3.16	3.16
55	0.80	0.80	2.43	2.45	2.64	2.65
56	0.36	0.36	2.29	2.29	2.47	2.47
57	0.77	0.83	2.34	2.48	2.75	2.71
58	0.28	0.31	1.80	1.90	2.78	2.80
59	0.28	0.31	1.80	1.90	2.78	2.80
60	0.34	0.34	2.00	2.01	2.81	2.81

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3	0.27	0.29	2.21	2.34	2.40	2.44
4	0.31	0.33	2.02	2.17	2.50	2.50
5	0.68	0.74	2.34	2.38	2.56	2.60
6	0.34	0.34	1.98	1.98	2.79	2.79
7	0.37	0.38	1.42	1.45	3.02	2.99
8	0.64	0.72	2.22	2.29	2.71	2.75
9	0.30	0.32	1.48	1.50	3.00	2.98
10	0.36	0.40	1.90	1.97	2.81	2.78
11	0.61	0.62	1.99	2.06	3.03	3.02
12	0.36	0.36	2.41	2.41	2.40	2.40
13	0.36	0.38	1.75	1.89	2.53	2.61
14	0.35	0.36	1.52	1.54	2.81	2.81
15	0.31	0.31	1.46	1.46	3.06	3.06
16	0.31	0.32	1.48	1.63	2.80	2.75
17	0.30	0.33	2.60	2.71	2.35	2.38
18	0.58	0.64	2.18	2.23	2.58	2.69
19	0.15	0.18	0.51	0.50	2.61	2.63
20	0.42	0.44	2.05	2.12	2.72	2.71
21	0.54	0.54	1.81	1.84	3.01	3.02
22	0.29	0.31	1.81	1.84	2.86	2.79
23	0.36	0.36	1.60	1.62	2.97	2.97
24	0.37	0.37	1.95	1.95	2.63	2.62
25	0.16	0.18	1.01	1.02	2.42	2.50
26	0.32	0.32	1.56	1.59	2.88	2.87
27	0.24	0.26	1.14	1.18	3.16	3.17
28	0.44	0.44	2.36	2.36	2.65	2.65
29	0.36	0.36	1.62	1.62	2.98	2.98
30	0.78	0.78	2.43	2.47	2.69	2.70
31	0.30	0.32	1.38	1.46	2.99	3.01
32	0.35	0.36	3.25	3.25	2.37	2.33
33	0.28	0.31	1.61	1.67	2.95	2.95
34	0.34	0.34	1.31	1.31	3.08	3.08
35	0.34	0.34	1.66	1.67	2.88	2.86
36	0.30	0.33	2.58	2.72	2.31	2.36
37	0.26	0.28	1.40	1.48	2.74	2.78
38	0.16	0.19	1.01	1.02	2.42	2.51
39	0.36	0.40	2.20	2.29	2.51	2.59
40	0.28	0.31	1.81	1.91	2.77	2.79
41	0.43	0.48	1.69	1.75	2.82	2.92
42	0.49	0.56	1.80	1.85	2.67	2.79
43	0.25	0.26	1.72	1.81	2.80	2.74
44	0.49	0.49	1.99	1.99	2.83	2.83
45	0.37	0.41	1.33	1.38	3.04	3.03
46	0.37	0.41	1.44	1.52	2.92	2.88
47	0.30	0.33	1.74	1.82	2.61	2.61
48	0.32	0.33	1.97	1.98	2.68	2.67
49	0.44	0.44	2.14	2.21	2.62	2.63
50	0.31	0.31	1.49	1.51	2.93	2.92
51	0.42	0.42	1.57	1.59	3.24	3.24
52	0.30	0.32	1.86	2.01	2.69	2.67
53	0.37	0.40	2.20	2.28	2.53	2.60
54	0.53	0.57	1.88	1.99	2.61	2.72
55	0.43	0.43	1.51	1.51	3.07	3.07
56	0.30	0.32	1.38	1.46	2.99	3.01
57	0.28	0.30	1.80	1.80	2.89	2.85
58	0.34	0.38	1.41	1.42	3.03	3.10

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2						
3	0.33	0.33	2.50	2.51	2.41	2.40
4	0.24	0.27	1.10	1.18	3.19	3.20
5	0.35	0.36	1.52	1.54	2.81	2.80
6	0.31	0.32	1.11	1.19	2.93	2.98
7	0.30	0.30	1.10	1.07	3.17	3.11
8	0.37	0.37	2.83	2.83	2.40	2.40
9	0.24	0.25	1.41	1.47	2.70	2.75
10	0.29	0.29	1.88	1.84	2.80	2.78
11	0.29	0.31	2.47	2.62	2.27	2.36
12	0.33	0.33	2.72	2.73	2.44	2.43
13	0.31	0.31	2.65	2.62	2.43	2.35
14	0.28	0.28	1.90	1.91	2.72	2.71
15	0.43	0.43	1.42	1.42	3.00	3.00
16	0.39	0.40	1.55	1.66	2.76	2.72
17	0.31	0.31	1.42	1.42	3.11	3.11
18	0.32	0.32	1.57	1.58	2.89	2.88
19	0.30	0.32	1.79	1.94	2.63	2.65
20	0.24	0.27	1.10	1.18	3.19	3.20
21	0.38	0.38	3.71	3.73	2.64	2.61
22	0.23	0.23	0.52	0.52	4.34	4.34
23	0.58	0.58	1.81	1.83	3.08	3.08
24	0.30	0.32	1.38	1.46	2.99	3.01
25	0.34	0.37	1.43	1.44	3.07	3.13
26	0.15	0.18	1.02	1.02	2.43	2.48
27	0.61	0.61	2.01	2.01	2.78	2.78
28	0.43	0.43	1.59	1.65	3.15	3.13
29	0.38	0.38	1.53	1.55	2.82	2.81
30	0.33	0.34	1.99	2.00	2.81	2.81
31	0.33	0.35	1.27	1.38	2.89	2.96
32	0.26	0.27	1.93	2.03	2.51	2.55
33	0.33	0.34	1.64	1.66	2.86	2.82
34	0.34	0.34	1.72	1.73	2.92	2.91
35	0.78	0.79	2.40	2.51	2.60	2.59
36	0.76	0.78	2.41	2.51	2.66	2.64
37	0.42	0.39	2.22	2.21	2.62	2.53
38	0.34	0.34	1.98	1.99	2.82	2.81
39	0.42	0.43	1.99	2.05	2.72	2.69
40	0.33	0.34	1.64	1.66	2.87	2.83
41	0.66	0.66	2.04	2.06	3.04	3.05
42	0.58	0.62	2.14	2.17	2.80	2.72
43	0.69	0.70	2.25	2.36	2.75	2.73
44	0.33	0.33	1.40	1.40	2.97	2.97
45	0.38	0.38	3.74	3.75	2.63	2.63
46	0.28	0.30	1.89	1.90	2.86	2.80
47	0.37	0.37	1.39	1.46	3.02	2.95
48	0.29	0.32	0.99	1.03	3.21	3.29
49	0.42	0.42	1.53	1.54	3.22	3.22
50	0.34	0.38	1.43	1.45	3.05	3.13
51	0.35	0.36	2.75	2.80	2.37	2.33
52	0.52	0.52	2.25	2.25	2.66	2.66
53	0.29	0.31	2.49	2.58	2.38	2.39
54	0.33	0.33	2.69	2.71	2.41	2.40
55	0.29	0.32	1.42	1.55	2.89	2.89
56	0.36	0.36	1.60	1.62	2.97	2.97
57	0.19	0.21	0.46	0.49	4.07	4.20
58	0.37	0.37	1.34	1.31	3.02	2.96

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3	0.49	0.49	1.75	1.75	2.97	2.97
4	0.26	0.29	1.24	1.33	3.12	3.11
5	0.29	0.31	2.48	2.61	2.33	2.39
6	0.32	0.35	3.47	3.59	2.48	2.56
7	0.22	0.22	1.34	1.36	3.13	3.09
8	0.42	0.42	1.61	1.62	3.25	3.25
9	0.37	0.40	2.20	2.28	2.53	2.60
10	0.32	0.32	2.10	2.12	2.48	2.41
11	0.34	0.34	1.66	1.67	2.88	2.88
12	0.33	0.34	2.06	2.23	2.40	2.46
13	0.39	0.39	1.93	1.97	2.67	2.65
14	0.36	0.37	1.33	1.31	3.05	2.97
15	0.29	0.31	1.91	1.97	2.77	2.76
16	0.38	0.38	3.74	3.74	2.63	2.63
17	0.29	0.30	2.57	2.67	2.42	2.44
18	0.40	0.45	2.01	2.13	2.61	2.68
19	0.29	0.33	2.55	2.66	2.43	2.39
20	0.36	0.40	1.99	2.08	2.69	2.70
21	0.31	0.32	2.53	2.70	2.27	2.37
22	0.37	0.37	1.67	1.65	2.90	2.80
23	0.27	0.29	2.21	2.34	2.40	2.44
24	0.28	0.28	1.91	1.91	2.73	2.72
25	0.38	0.38	3.72	3.74	2.64	2.62
26	0.33	0.37	1.36	1.36	2.95	3.01
27	0.36	0.36	2.81	2.82	2.40	2.39
28	0.27	0.29	1.29	1.41	2.92	2.95
29	0.29	0.30	2.49	2.54	2.43	2.36
30	0.27	0.29	2.21	2.34	2.41	2.45
31	0.32	0.35	3.47	3.61	2.48	2.56
32	0.27	0.27	1.16	1.16	3.09	3.00
33	0.50	0.53	1.84	1.88	3.01	2.92
34	0.37	0.39	1.47	1.63	3.03	3.12
35	0.32	0.32	1.35	1.35	3.16	3.16
36	0.32	0.33	1.95	2.03	2.76	2.68
37	0.31	0.31	2.44	2.46	2.47	2.45
38	0.38	0.41	1.59	1.65	3.08	3.05
39	0.30	0.33	2.12	2.24	2.46	2.43
40	0.37	0.37	2.83	2.84	2.37	2.36
41	0.25	0.27	2.07	2.16	2.52	2.55
42	0.41	0.41	1.43	1.44	3.16	3.16
43	0.45	0.45	1.62	1.62	2.85	2.85
44	0.28	0.29	1.90	1.86	2.86	2.75
45	0.33	0.33	1.89	1.90	2.87	2.87
46	0.55	0.58	1.90	2.09	2.75	2.89
47	0.30	0.34	2.58	2.72	2.28	2.34
48	0.35	0.38	1.69	1.89	2.61	2.61
49	0.35	0.38	1.35	1.33	2.93	2.99
50	0.32	0.32	1.57	1.58	2.89	2.89
51	0.41	0.42	1.93	1.93	2.68	2.68
52	0.35	0.35	1.33	1.33	3.04	3.04
53	0.25	0.25	1.55	1.61	3.01	3.07
54	0.35	0.38	1.38	1.37	2.98	3.04
55	0.40	0.40	1.99	1.99	2.69	2.69
56	0.42	0.42	1.57	1.58	3.24	3.24
57	0.39	0.43	1.47	1.66	3.04	3.15
58	0.30	0.30	1.26	1.28	3.20	3.19

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3	0.25	0.27	2.07	2.16	2.53	2.55
4	0.21	0.21	1.02	1.02	2.60	2.60
5	0.30	0.31	1.52	1.50	3.05	2.95
6	0.34	0.34	1.60	1.61	2.83	2.83
7	0.36	0.37	1.50	1.58	2.84	2.80
8	0.44	0.44	2.14	2.20	2.63	2.62
9	0.43	0.46	1.70	1.79	2.92	2.93
10	0.32	0.32	1.57	1.58	2.89	2.89
11	0.34	0.35	2.21	2.39	2.34	2.41
12	0.61	0.61	2.01	2.01	2.78	2.78
13	0.28	0.31	1.71	1.83	2.70	2.76
14	0.29	0.29	2.15	2.15	2.60	2.60
15	0.41	0.42	1.93	1.93	2.68	2.68
16	0.34	0.34	2.01	2.02	2.80	2.80
17	0.51	0.51	1.78	1.78	3.00	3.00
18	0.31	0.33	1.50	1.54	2.94	2.96
19	0.34	0.34	1.99	2.01	2.81	2.80
20	0.34	0.34	2.00	2.01	2.81	2.81
21	0.41	0.44	2.04	2.12	2.71	2.71
22	0.40	0.40	1.36	1.37	3.07	3.06
23	0.38	0.40	1.36	1.38	3.03	3.01
24	0.28	0.28	1.91	1.91	2.73	2.72
25	0.20	0.21	0.94	1.00	2.77	2.91
26	0.48	0.46	1.64	1.62	3.02	2.90
27	0.32	0.32	1.43	1.43	3.12	3.12
28	0.25	0.26	1.73	1.82	2.61	2.67
29	0.35	0.36	1.76	1.82	2.85	2.83
30	0.36	0.36	2.39	2.40	2.40	2.39
31	0.44	0.44	1.59	1.60	3.31	3.32
32	0.33	0.33	2.50	2.51	2.41	2.40
33	0.54	0.54	1.77	1.80	2.95	2.94
34	0.31	0.33	1.46	1.54	2.94	2.96
35	0.34	0.34	1.20	1.20	3.24	3.24
36	0.29	0.30	1.36	1.41	3.03	2.98
37	0.61	0.61	2.00	2.00	2.77	2.77
38	0.36	0.35	2.26	2.30	2.49	2.46
39	0.49	0.49	1.99	1.99	2.83	2.83
40	0.29	0.27	2.07	2.07	2.54	2.49
41	0.47	0.47	1.83	1.84	2.90	2.89
42	0.28	0.31	1.62	1.74	2.76	2.83
43	0.36	0.36	2.32	2.32	2.50	2.50
44	0.77	0.78	2.39	2.54	2.57	2.54
45	0.29	0.33	1.46	1.50	2.84	2.83
46	0.32	0.33	2.10	2.15	2.55	2.46
47	0.64	0.73	2.18	2.27	2.64	2.73
48	0.35	0.37	1.44	1.52	2.70	2.74
49	0.27	0.30	2.22	2.36	2.44	2.43
50	0.40	0.40	1.35	1.39	3.07	3.03
51	0.33	0.36	1.37	1.36	2.98	3.02
52	0.31	0.33	2.02	2.17	2.51	2.51
53	0.33	0.33	2.71	2.72	2.43	2.42
54	0.29	0.32	1.43	1.52	2.94	2.98
55	0.32	0.33	1.91	2.00	2.77	2.71
56	0.36	0.36	2.78	2.82	2.35	2.32
57	0.32	0.32	2.61	2.74	2.31	2.36
58	0.29	0.29	2.15	2.15	2.61	2.61

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3	0.28	0.29	1.90	1.88	2.88	2.77
4	0.59	0.58	1.91	1.92	2.72	2.73
5	0.34	0.34	1.79	1.80	2.93	2.93
6	0.42	0.42	1.35	1.37	3.10	3.09
7	0.54	0.58	1.86	1.94	2.67	2.73
8	0.30	0.31	1.38	1.48	2.88	2.88
9	0.31	0.32	1.89	2.01	2.74	2.68
10	0.52	0.52	2.24	2.24	2.65	2.65
11	0.33	0.32	2.45	2.50	2.39	2.36
12	0.22	0.22	1.35	1.35	3.14	3.14
13	0.33	0.35	3.47	3.58	2.47	2.55
14	0.44	0.44	2.37	2.37	2.67	2.67
15	0.32	0.31	1.71	1.72	2.88	2.77
16	0.39	0.34	1.31	1.37	2.92	2.85
17	0.29	0.31	2.49	2.59	2.37	2.39
18	0.20	0.21	1.02	1.04	2.54	2.55
19	0.29	0.29	2.24	2.25	2.57	2.56
20	0.22	0.23	1.02	1.04	2.77	2.77
21	0.37	0.37	1.50	1.51	3.12	3.05
22	0.24	0.23	1.14	1.16	2.99	2.98
23	0.21	0.22	1.00	1.06	2.67	2.81
24	0.35	0.35	1.55	1.60	2.96	2.94
25	0.23	0.22	1.19	1.26	3.02	3.04
26	0.33	0.33	2.72	2.73	2.43	2.43
27	0.31	0.33	2.02	2.17	2.51	2.51
28	0.64	0.71	1.99	2.06	2.71	2.82
29	0.33	0.34	1.16	1.24	3.03	3.00
30	0.44	0.45	1.43	1.44	3.03	3.03
31	0.34	0.37	1.43	1.51	2.79	2.81
32	0.40	0.40	2.21	2.25	2.63	2.58
33	0.36	0.36	1.53	1.53	2.83	2.83
34	0.66	0.66	2.05	2.05	3.05	3.06
35	0.32	0.35	3.47	3.61	2.48	2.56
36	0.32	0.35	1.96	2.06	2.63	2.64
37	0.29	0.33	2.54	2.69	2.39	2.38
38	0.44	0.49	1.30	1.35	2.97	3.13
39	0.37	0.37	1.52	1.49	3.17	3.08
40	0.30	0.33	2.02	2.15	2.53	2.51
41	0.33	0.34	1.63	1.66	2.98	2.97
42	0.23	0.25	1.46	1.52	3.06	3.08
43	0.42	0.39	2.22	2.21	2.61	2.53
44	0.28	0.28	1.90	1.85	2.84	2.74
45	0.29	0.30	2.49	2.53	2.43	2.35
46	0.33	0.33	2.73	2.73	2.44	2.44
47	0.33	0.34	1.78	1.79	2.92	2.92
48	0.40	0.41	1.94	1.98	2.86	2.81
49	0.27	0.27	2.06	2.12	2.59	2.55
50	0.28	0.28	1.90	1.85	2.80	2.76
51	0.33	0.33	2.50	2.51	2.41	2.40
52	0.67	0.68	2.30	2.34	2.74	2.58
53	0.39	0.39	2.16	2.16	2.65	2.65
54	0.33	0.33	2.68	2.71	2.41	2.39
55	0.33	0.34	1.99	2.01	2.80	2.79
56	0.37	0.37	2.82	2.83	2.40	2.40
57	0.29	0.31	1.21	1.30	3.09	3.13
58	0.31	0.33	2.10	2.19	2.46	2.46

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3	0.33	0.34	1.47	1.51	3.01	2.99
4	0.52	0.57	1.88	1.99	2.61	2.72
5	0.36	0.36	1.53	1.53	2.82	2.82
6	0.28	0.28	1.89	1.84	2.80	2.77
7	0.23	0.23	1.02	1.07	3.51	3.44
8	0.26	0.27	1.94	2.01	2.56	2.56
9	0.33	0.34	1.66	1.72	2.88	2.82
10	0.55	0.55	1.41	1.41	3.19	3.20
11	0.33	0.32	2.64	2.72	2.37	2.34
12	0.68	0.74	2.35	2.40	2.53	2.59
13	0.35	0.33	1.98	1.97	2.67	2.63
14	0.33	0.33	2.73	2.73	2.44	2.44
15	0.43	0.43	2.17	2.18	2.72	2.72
16	0.28	0.31	1.64	1.72	2.91	2.92
17	0.28	0.27	2.19	2.20	2.44	2.42
18	0.37	0.40	2.20	2.28	2.54	2.60
19	0.30	0.32	2.08	2.17	2.49	2.42
20	0.28	0.31	1.66	1.72	2.91	2.91
21	0.31	0.31	2.47	2.47	2.48	2.48
22	0.27	0.29	1.08	1.20	2.90	3.02
23	0.31	0.31	2.64	2.61	2.41	2.34
24	0.34	0.34	1.80	1.80	2.93	2.93
25	0.33	0.33	2.02	2.08	2.75	2.67
26	0.29	0.32	1.81	1.97	2.65	2.70
27	0.53	0.57	1.97	2.00	2.88	2.79
28	0.39	0.40	1.85	1.92	2.64	2.60
29	0.33	0.33	2.48	2.50	2.40	2.38
30	0.29	0.29	2.25	2.25	2.57	2.57
31	0.32	0.32	1.57	1.58	2.89	2.88
32	0.35	0.38	2.64	2.76	2.79	2.82
33	0.27	0.28	1.86	2.00	2.62	2.71
34	0.35	0.37	1.76	1.87	2.60	2.64
35	0.42	0.42	1.47	1.47	3.19	3.19
36	0.32	0.31	1.75	1.76	2.81	2.78
37	0.40	0.40	1.98	1.99	2.68	2.68
38	0.23	0.24	1.46	1.52	3.06	3.08
39	0.33	0.34	1.36	1.46	2.78	2.80
40	0.64	0.72	2.22	2.29	2.72	2.75
41	0.42	0.46	1.65	1.67	2.91	2.88
42	0.29	0.32	1.53	1.63	2.92	2.92
43	0.36	0.36	1.89	1.97	2.60	2.53
44	0.58	0.58	2.20	2.20	2.66	2.66
45	0.34	0.34	1.20	1.20	3.24	3.24
46	0.30	0.30	1.07	1.06	3.26	3.14
47	0.34	0.38	1.50	1.53	3.10	3.16
48	0.34	0.34	2.00	2.00	2.73	2.62
49	0.26	0.28	2.10	2.22	2.43	2.51
50	0.54	0.55	1.82	1.84	3.02	3.02
51	0.14	0.16	1.00	1.00	2.49	2.44
52	0.30	0.30	1.50	1.48	3.01	2.97
53	0.31	0.32	1.51	1.66	2.75	2.73
54	0.43	0.43	1.45	1.45	3.24	3.25
55	0.52	0.55	1.38	1.49	3.19	3.20
56	0.37	0.37	2.82	2.83	2.36	2.35
57	0.28	0.29	1.95	1.91	2.81	2.74
58	0.41	0.44	2.03	2.12	2.70	2.71

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3	0.35	0.35	1.31	1.34	3.01	3.00
4	0.41	0.41	1.48	1.50	3.20	3.20
5	0.47	0.47	2.21	2.21	2.72	2.71
6	0.27	0.28	2.21	2.24	2.51	2.42
7	0.36	0.36	2.76	2.81	2.35	2.31
8	0.25	0.26	1.74	1.78	2.73	2.65
9	0.43	0.44	1.57	1.62	3.29	3.29
10	0.35	0.35	1.57	1.57	2.96	2.96
11	0.34	0.35	1.23	1.27	3.14	3.12
12	0.28	0.28	1.22	1.26	3.17	3.17
13	0.37	0.37	1.95	1.95	2.63	2.62
14	0.25	0.28	1.05	1.10	3.01	3.11
15	0.58	0.58	1.89	1.93	2.71	2.73
16	0.27	0.29	1.65	1.76	2.35	2.43
17	0.36	0.37	1.38	1.47	3.02	2.93
18	0.19	0.21	0.90	0.94	2.76	2.84
19	0.33	0.32	2.63	2.73	2.34	2.35
20	0.31	0.31	1.60	1.62	2.95	2.92
21	0.37	0.37	1.55	1.55	2.88	2.88
22	0.18	0.20	0.49	0.52	2.45	2.69
23	0.69	0.70	2.26	2.36	2.75	2.74
24	0.44	0.44	1.58	1.61	3.30	3.31
25	0.30	0.33	2.02	2.14	2.55	2.52
26	0.30	0.33	2.60	2.71	2.36	2.38
27	0.34	0.34	1.66	1.67	2.88	2.86
28	0.47	0.50	1.76	1.81	3.13	2.97
29	0.35	0.38	1.52	1.57	3.08	3.17
30	0.48	0.49	1.98	1.98	2.82	2.82
31	0.49	0.49	1.84	1.85	2.94	2.95
32	0.54	0.55	1.40	1.41	3.28	3.29
33	0.34	0.38	1.47	1.50	3.07	3.14
34	0.27	0.29	2.21	2.34	2.40	2.44
35	0.73	0.82	2.28	2.52	2.63	2.66
36	0.29	0.32	1.46	1.51	3.01	2.98
37	0.40	0.40	1.98	1.99	2.68	2.68
38	0.26	0.27	1.93	2.04	2.50	2.55
39	0.53	0.59	1.41	1.55	3.19	3.18
40	0.33	0.33	2.51	2.52	2.41	2.41
41	0.29	0.32	2.54	2.63	2.46	2.40
42	0.34	0.38	3.20	3.35	2.32	2.38
43	0.34	0.36	1.08	1.12	3.03	3.09
44	0.13	0.15	0.60	0.62	2.85	2.74
45	0.37	0.37	2.83	2.83	2.40	2.40
46	0.27	0.30	2.21	2.35	2.46	2.43
47	0.34	0.34	1.99	1.99	2.82	2.82
48	0.37	0.38	1.47	1.45	2.97	2.89
49	0.33	0.33	1.96	2.02	2.77	2.71
50	0.70	0.71	2.28	2.32	2.79	2.79
51	0.55	0.55	1.83	1.83	3.03	3.03
52	0.42	0.42	3.48	3.49	2.43	2.42
53	0.31	0.31	1.72	1.74	2.91	2.79
54	0.68	0.72	2.33	2.36	2.67	2.62
55	0.27	0.29	2.21	2.32	2.43	2.45
56	0.65	0.73	2.23	2.31	2.68	2.75
57	0.50	0.50	1.73	1.76	3.05	3.04
58	0.25	0.28	1.23	1.31	3.05	3.05

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3	0.42	0.42	1.35	1.38	3.10	3.09
4	0.28	0.28	1.91	1.92	2.73	2.73
5	0.26	0.28	1.25	1.33	3.04	3.04
6	0.68	0.74	2.35	2.39	2.56	2.60
7	0.28	0.28	1.92	1.92	2.73	2.73
8	0.35	0.38	2.64	2.76	2.79	2.82
9	0.31	0.31	1.35	1.38	2.93	2.86
10	0.18	0.20	0.77	0.80	2.81	2.86
11	0.33	0.35	2.07	2.24	2.40	2.46
12	0.21	0.21	0.85	0.85	2.95	2.95
13	0.29	0.32	1.00	1.05	3.18	3.25
14	0.26	0.27	1.93	2.04	2.50	2.55
15	0.37	0.37	1.95	1.95	2.63	2.62
16	0.28	0.29	1.89	1.86	2.89	2.77
17	0.43	0.44	2.08	2.11	2.77	2.70
18	0.36	0.40	1.51	1.54	3.03	3.16
19	0.36	0.40	1.31	1.36	3.00	3.00
20	0.42	0.42	1.58	1.59	3.24	3.24
21	0.27	0.29	1.24	1.35	2.98	3.03
22	0.31	0.31	1.61	1.62	2.96	2.95
23	0.41	0.41	1.43	1.44	3.16	3.16
24	0.66	0.66	2.05	2.05	3.06	3.06
25	0.38	0.38	3.73	3.74	2.64	2.63
26	0.68	0.74	2.35	2.39	2.55	2.60
27	0.43	0.49	1.70	1.77	2.81	2.92
28	0.34	0.38	3.20	3.35	2.32	2.38
29	0.31	0.31	2.44	2.46	2.47	2.45
30	0.26	0.27	1.97	1.96	2.63	2.52
31	0.32	0.35	3.46	3.61	2.46	2.55
32	0.43	0.46	1.70	1.79	2.92	2.93
33	0.37	0.38	3.69	3.72	2.64	2.59
34	0.28	0.32	1.45	1.52	3.06	3.06
35	0.25	0.26	1.73	1.79	2.70	2.69
36	0.31	0.34	1.34	1.37	2.90	2.96
37	0.66	0.66	2.04	2.06	3.05	3.05
38	0.34	0.38	3.20	3.35	2.32	2.38
39	0.31	0.31	1.46	1.46	3.06	3.06
40	0.29	0.31	1.21	1.31	3.08	3.12
41	0.70	0.71	2.29	2.31	2.79	2.80
42	0.39	0.39	1.94	1.97	2.67	2.66
43	0.30	0.31	1.38	1.48	2.87	2.88
44	0.43	0.47	2.08	2.16	2.62	2.64
45	0.39	0.43	2.01	2.10	2.70	2.70
46	0.34	0.34	1.99	1.99	2.79	2.79
47	0.43	0.47	2.09	2.16	2.63	2.64
48	0.36	0.41	2.19	2.30	2.45	2.57
49	0.31	0.33	1.47	1.54	2.95	2.96
50	0.29	0.30	2.49	2.55	2.44	2.37
51	0.28	0.29	1.88	1.86	2.88	2.78
52	0.31	0.33	1.47	1.54	2.95	2.96
53	0.38	0.38	1.43	1.44	3.01	3.01
54	0.44	0.48	1.60	1.71	2.80	2.90
55	0.39	0.39	2.17	2.17	2.65	2.65
56	0.44	0.44	1.59	1.61	3.31	3.32
57	0.36	0.38	1.75	1.88	2.56	2.62
58	0.32	0.35	3.47	3.59	2.48	2.56

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3	0.32	0.32	2.81	2.81	2.48	2.48
4	0.14	0.16	0.99	1.00	2.45	2.41
5	0.64	0.70	2.30	2.35	2.65	2.65
6	0.36	0.36	2.29	2.29	2.47	2.47
7	0.44	0.44	2.07	2.08	2.77	2.77
8	0.29	0.29	2.15	2.15	2.61	2.60
9	0.33	0.35	2.05	2.12	2.58	2.57
10	0.32	0.34	1.31	1.38	2.83	2.88
11	0.31	0.33	1.34	1.35	2.95	2.98
12	0.23	0.25	1.45	1.53	3.05	3.08
13	0.39	0.39	1.92	1.97	2.66	2.64
14	0.24	0.27	1.11	1.20	3.16	3.17
15	0.50	0.56	1.88	1.94	2.77	2.91
16	0.41	0.42	1.36	1.43	2.96	2.93
17	0.34	0.34	2.00	2.00	2.82	2.82
18	0.36	0.36	2.39	2.40	2.40	2.39
19	0.38	0.38	3.73	3.74	2.64	2.63
20	0.29	0.32	1.11	1.15	3.05	3.14
21	0.41	0.39	2.20	2.20	2.58	2.53
22	0.28	0.29	1.07	1.15	3.27	3.42
23	0.31	0.30	2.41	2.45	2.45	2.41
24	0.31	0.31	1.82	1.83	2.64	2.63
25	0.28	0.28	2.19	2.24	2.52	2.49
26	0.26	0.28	1.23	1.31	3.15	3.13
27	0.37	0.37	2.82	2.82	2.40	2.40
28	0.36	0.36	2.78	2.81	2.39	2.37
29	0.63	0.72	2.18	2.26	2.68	2.73
30	0.31	0.30	2.38	2.47	2.41	2.39
31	0.29	0.32	1.00	1.05	3.18	3.25
32	0.36	0.35	3.45	3.49	2.51	2.50
33	0.26	0.27	1.59	1.59	3.11	3.10
34	0.27	0.29	2.21	2.32	2.43	2.45
35	0.35	0.35	1.25	1.25	3.16	3.16
36	0.42	0.42	2.33	2.36	2.62	2.60
37	0.39	0.43	2.03	2.09	2.72	2.70
38	0.34	0.37	1.45	1.45	3.11	3.14
39	0.41	0.41	1.92	1.93	2.67	2.67
40	0.21	0.22	0.44	0.44	2.57	2.58
41	0.24	0.27	1.12	1.19	3.18	3.18
42	0.14	0.16	0.99	1.00	2.43	2.39
43	0.36	0.36	2.77	2.82	2.35	2.31
44	0.28	0.31	1.81	1.91	2.77	2.79
45	0.33	0.34	1.39	1.42	2.87	2.78
46	0.28	0.31	1.64	1.72	2.90	2.92
47	0.43	0.43	1.48	1.49	3.27	3.27
48	0.34	0.38	1.50	1.54	3.07	3.16
49	0.33	0.35	1.08	1.11	3.08	3.14
50	0.20	0.21	1.01	1.04	2.51	2.59
51	0.40	0.41	2.28	2.39	2.50	2.55
52	0.37	0.37	2.82	2.82	2.40	2.40
53	0.56	0.58	1.87	1.93	2.69	2.73
54	0.64	0.71	2.31	2.38	2.58	2.64
55	0.28	0.28	1.91	1.91	2.73	2.72
56	0.76	0.79	2.34	2.38	2.76	2.60
57	0.38	0.38	2.22	2.23	2.58	2.58
58	0.42	0.42	1.58	1.59	3.24	3.25

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3	0.34	0.34	2.00	2.01	2.81	2.81
4	0.33	0.33	1.78	1.79	2.91	2.91
5	0.58	0.58	2.19	2.20	2.66	2.66
6	0.70	0.78	2.26	2.40	2.57	2.64
7	0.32	0.32	2.10	2.12	2.48	2.41
8	0.34	0.37	1.43	1.52	2.78	2.81
9	0.27	0.29	1.65	1.78	2.37	2.43
10	0.32	0.31	1.34	1.37	2.91	2.87
11	0.29	0.31	1.76	1.88	2.76	2.77
12	0.29	0.30	1.67	1.66	3.00	2.95
13	0.34	0.38	1.67	1.79	2.71	2.70
14	0.63	0.71	1.99	2.05	2.71	2.82
15	0.24	0.27	1.11	1.20	3.17	3.17
16	0.35	0.38	1.67	1.86	2.62	2.61
17	0.82	0.82	2.39	2.41	2.82	2.83
18	0.28	0.28	1.91	1.91	2.73	2.72
19	0.44	0.44	1.40	1.44	3.09	3.08
20	0.25	0.26	1.73	1.80	2.67	2.69
21	0.38	0.40	2.20	2.27	2.55	2.59
22	0.34	0.35	2.65	2.84	2.30	2.35
23	0.45	0.45	1.44	1.44	3.03	3.03
24	0.47	0.47	2.21	2.21	2.71	2.71
25	0.82	0.82	2.39	2.40	2.83	2.83
26	0.30	0.30	1.50	1.47	3.05	2.97
27	0.30	0.32	1.68	1.81	2.70	2.80
28	0.20	0.21	0.96	0.99	2.64	2.72
29	0.41	0.42	1.93	1.93	2.68	2.68
30	0.43	0.43	2.36	2.36	2.65	2.65
31	0.33	0.32	2.64	2.72	2.36	2.34
32	0.30	0.31	1.52	1.50	3.05	2.95
33	0.31	0.34	1.03	1.14	2.78	2.96
34	0.28	0.31	1.60	1.67	2.94	2.95
35	0.26	0.29	2.18	2.27	2.53	2.44
36	0.22	0.25	1.06	1.14	3.23	3.23
37	0.29	0.29	2.15	2.15	2.60	2.60
38	0.34	0.34	1.09	1.10	3.31	3.31
39	0.37	0.37	2.82	2.83	2.40	2.40
40	0.35	0.36	1.44	1.42	3.21	3.16
41	0.31	0.31	1.82	1.83	2.64	2.63
42	0.29	0.30	2.56	2.69	2.36	2.43
43	0.30	0.32	0.94	0.99	3.21	3.31
44	0.32	0.34	1.38	1.42	2.87	2.78
45	0.40	0.40	2.21	2.23	2.64	2.55
46	0.34	0.34	1.80	1.80	2.93	2.93
47	0.34	0.34	2.07	2.07	2.77	2.77
48	0.27	0.28	1.19	1.24	3.14	3.14
49	0.34	0.37	3.24	3.32	2.33	2.37
50	0.32	0.35	1.42	1.50	2.67	2.72
51	0.37	0.40	1.46	1.53	2.99	2.97
52	0.78	0.79	2.40	2.51	2.60	2.58
53	0.41	0.41	1.47	1.47	3.20	3.20
54	0.42	0.42	1.57	1.59	3.24	3.23
55	0.27	0.29	2.21	2.34	2.41	2.45
56	0.21	0.21	1.02	1.02	2.60	2.60
57	0.24	0.27	1.10	1.18	3.19	3.20
58	0.31	0.31	1.35	1.41	3.01	2.90

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3	0.60	0.60	1.99	2.00	2.77	2.76
4	0.41	0.42	1.93	1.93	2.68	2.68
5	0.27	0.30	2.22	2.36	2.44	2.43
6	0.40	0.40	2.20	2.23	2.65	2.56
7	0.31	0.31	2.47	2.47	2.48	2.48
8	0.64	0.66	2.12	2.30	2.78	2.75
9	0.33	0.33	1.10	1.10	3.27	3.27
10	0.37	0.37	1.69	1.71	2.87	2.87
11	0.68	0.73	2.34	2.38	2.58	2.60
12	0.16	0.19	1.01	1.02	2.41	2.50
13	0.65	0.71	2.32	2.38	2.57	2.64
14	0.29	0.31	1.88	1.97	2.75	2.76
15	0.34	0.35	1.72	1.72	2.89	2.75
16	0.27	0.27	1.35	1.42	2.98	2.99
17	0.43	0.48	2.07	2.16	2.61	2.64
18	0.33	0.34	1.38	1.42	2.87	2.78
19	0.28	0.31	1.80	1.89	2.78	2.80
20	0.34	0.34	1.73	1.75	2.94	2.94
21	0.34	0.35	1.73	1.71	2.87	2.75
22	0.39	0.40	1.60	1.63	2.82	2.81
23	0.48	0.49	1.28	1.29	3.23	3.15
24	0.31	0.31	2.65	2.62	2.43	2.35
25	0.26	0.29	1.10	1.17	3.03	3.16
26	0.28	0.31	1.81	1.89	2.79	2.80
27	0.36	0.36	1.62	1.63	2.98	2.98
28	0.30	0.30	2.35	2.49	2.36	2.43
29	0.40	0.44	1.83	1.91	2.84	2.83
30	0.43	0.47	2.08	2.16	2.62	2.64
31	0.29	0.32	2.54	2.64	2.46	2.40
32	0.39	0.39	2.05	2.03	2.78	2.67
33	0.29	0.33	2.54	2.68	2.40	2.38
34	0.44	0.45	1.44	1.44	3.03	3.03
35	0.28	0.29	1.88	1.85	2.87	2.76
36	0.31	0.30	1.35	1.39	2.96	2.87
37	0.50	0.54	2.05	2.12	2.60	2.63
38	0.30	0.33	2.58	2.71	2.53	2.61
39	0.38	0.38	3.72	3.74	2.64	2.62
40	0.48	0.50	2.15	2.22	2.60	2.58
41	0.30	0.31	1.03	1.07	3.15	3.19
42	0.35	0.35	1.57	1.57	2.96	2.96
43	0.37	0.37	1.43	1.39	3.10	3.05
44	0.37	0.36	3.27	3.23	2.38	2.32
45	0.27	0.29	2.21	2.35	2.34	2.42
46	0.30	0.31	1.38	1.48	2.88	2.88
47	0.30	0.31	1.42	1.53	2.79	2.80
48	0.28	0.31	1.81	1.91	2.77	2.79
49	0.43	0.43	2.36	2.36	2.65	2.65
50	0.22	0.25	1.45	1.53	3.04	3.08
51	0.32	0.32	1.57	1.58	2.89	2.89
52	0.24	0.27	1.74	1.86	2.68	2.72
53	0.34	0.38	1.68	1.80	2.77	2.72
54	0.34	0.34	1.72	1.73	2.92	2.91
55	0.27	0.29	2.21	2.34	2.41	2.45
56	0.31	0.32	2.00	2.03	2.59	2.49
57	0.35	0.34	1.71	1.69	2.78	2.76
58	0.36	0.36	2.41	2.41	2.40	2.40

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3	0.27	0.27	1.11	1.10	3.16	3.05
4	0.34	0.34	1.98	1.98	2.79	2.79
5	0.35	0.38	1.51	1.56	3.02	3.14
6	0.32	0.34	1.33	1.42	2.86	2.89
7	0.43	0.43	1.41	1.41	2.99	2.99
8	0.30	0.31	2.62	2.64	2.42	2.36
9	0.34	0.37	3.24	3.31	2.34	2.37
10	0.38	0.39	2.75	2.89	2.72	2.80
11	0.37	0.37	2.83	2.83	2.40	2.40
12	0.37	0.37	1.55	1.55	2.88	2.88
13	0.32	0.33	1.14	1.23	3.15	3.15
14	0.27	0.29	1.66	1.83	2.38	2.42
15	0.40	0.40	1.61	1.62	2.83	2.83
16	0.31	0.31	1.35	1.38	2.93	2.86
17	0.33	0.34	1.23	1.33	2.87	2.95
18	0.44	0.45	1.60	1.62	2.84	2.84
19	0.34	0.34	1.65	1.67	2.87	2.85
20	0.37	0.40	2.20	2.28	2.54	2.60
21	0.43	0.44	2.12	2.23	2.57	2.66
22	0.32	0.32	2.81	2.81	2.49	2.49
23	0.32	0.35	3.47	3.60	2.48	2.56
24	0.30	0.30	1.65	1.65	2.78	2.78
25	0.34	0.34	1.99	1.99	2.82	2.82
26	0.29	0.31	2.50	2.56	2.42	2.39
27	0.28	0.28	1.73	1.68	2.87	2.88
28	0.29	0.32	1.43	1.55	2.89	2.89
29	0.59	0.60	1.85	1.87	2.93	2.93
30	0.27	0.29	2.21	2.33	2.42	2.45
31	0.34	0.34	0.95	0.96	3.37	3.38
32	0.34	0.37	1.43	1.44	3.07	3.13
33	0.34	0.34	1.97	1.98	2.79	2.78
34	0.27	0.30	2.22	2.36	2.44	2.43
35	0.25	0.26	1.13	1.17	3.18	3.16
36	0.34	0.34	2.00	2.00	2.81	2.81
37	0.44	0.44	1.59	1.60	3.31	3.32
38	0.37	0.37	2.82	2.83	2.36	2.35
39	0.32	0.32	1.42	1.42	3.11	3.11
40	0.19	0.21	1.18	1.26	2.87	3.01
41	0.38	0.38	1.48	1.48	3.13	3.13
42	0.33	0.33	2.66	2.71	2.39	2.36
43	0.43	0.43	2.35	2.36	2.65	2.65
44	0.33	0.33	1.29	1.28	3.32	3.21
45	0.21	0.21	0.85	0.85	2.95	2.95
46	0.38	0.38	3.74	3.75	2.63	2.63
47	0.31	0.31	1.79	1.85	2.61	2.55
48	0.34	0.34	1.53	1.53	3.03	3.04
49	0.29	0.31	2.62	2.65	2.43	2.37
50	0.34	0.35	1.54	1.54	3.04	3.04
51	0.31	0.31	2.72	2.79	2.40	2.39
52	0.20	0.21	0.82	0.87	2.81	2.93
53	0.36	0.37	2.82	2.82	2.40	2.39
54	0.26	0.27	1.93	2.04	2.50	2.55
55	0.31	0.32	0.86	0.91	3.45	3.46
56	0.27	0.30	2.22	2.36	2.44	2.43
57	0.29	0.31	1.72	1.85	2.70	2.76
58	0.44	0.44	2.36	2.36	2.65	2.65

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3	0.27	0.29	2.21	2.33	2.42	2.45
4	0.34	0.34	1.99	1.99	2.82	2.82
5	0.41	0.41	1.93	1.93	2.67	2.67
6	0.51	0.56	1.48	1.52	2.99	3.13
7	0.28	0.28	2.20	2.24	2.54	2.50
8	0.30	0.31	1.40	1.49	2.78	2.82
9	0.34	0.37	1.43	1.51	2.80	2.81
10	0.29	0.31	1.76	1.87	2.77	2.78
11	0.41	0.41	1.90	1.93	2.66	2.64
12	0.29	0.31	1.63	1.77	2.76	2.84
13	0.30	0.34	1.71	1.83	2.58	2.60
14	0.42	0.42	2.32	2.35	2.60	2.58
15	0.26	0.27	1.93	2.03	2.52	2.56
16	0.44	0.44	2.37	2.37	2.67	2.67
17	0.30	0.33	2.60	2.71	2.36	2.38
18	0.28	0.31	1.81	1.89	2.79	2.80
19	0.21	0.22	1.26	1.39	2.98	2.95
20	0.25	0.27	2.07	2.16	2.52	2.55
21	0.30	0.33	0.73	0.76	3.68	3.78
22	0.38	0.38	1.43	1.44	3.01	3.01
23	0.55	0.58	1.87	1.94	2.69	2.73
24	0.34	0.38	1.68	1.80	2.77	2.72
25	0.78	0.78	2.44	2.46	2.70	2.70
26	0.32	0.33	1.68	1.73	2.92	2.89
27	0.32	0.34	1.36	1.46	2.99	3.06
28	0.31	0.33	1.42	1.43	2.87	2.77
29	0.63	0.69	2.28	2.33	2.72	2.66
30	0.81	0.82	2.38	2.42	2.81	2.82
31	0.30	0.34	1.72	1.83	2.59	2.61
32	0.65	0.74	2.23	2.31	2.66	2.75
33	0.47	0.51	1.25	1.33	3.18	3.18
34	0.35	0.36	0.78	0.80	3.85	3.86
35	0.32	0.36	1.38	1.43	2.84	2.89
36	0.14	0.18	0.54	0.54	2.67	2.68
37	0.33	0.33	2.68	2.71	2.41	2.38
38	0.60	0.60	1.98	1.99	2.76	2.75
39	0.29	0.31	2.49	2.57	2.42	2.39
40	0.44	0.44	1.59	1.61	3.31	3.32
41	0.52	0.54	2.11	2.17	2.60	2.58
42	0.28	0.31	1.81	1.91	2.77	2.79
43	0.50	0.54	2.05	2.12	2.61	2.63
44	0.24	0.26	1.28	1.34	2.85	2.88
45	0.31	0.31	2.47	2.47	2.48	2.48
46	0.20	0.21	0.96	0.99	2.65	2.73
47	0.42	0.43	1.40	1.47	3.04	3.01
48	0.35	0.37	1.76	1.87	2.59	2.64
49	0.30	0.33	2.60	2.71	2.35	2.38
50	0.65	0.73	2.23	2.31	2.67	2.75
51	0.32	0.35	3.47	3.60	2.48	2.56
52	0.37	0.37	2.84	2.84	2.37	2.37
53	0.36	0.40	1.63	1.75	2.81	2.76
54	0.37	0.40	1.51	1.55	3.02	3.16
55	0.35	0.36	1.43	1.48	3.08	3.06
56	0.37	0.37	2.83	2.84	2.36	2.36
57	0.37	0.40	2.20	2.28	2.53	2.60
58	0.35	0.36	2.26	2.27	2.45	2.44

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3	0.32	0.34	2.14	2.29	2.34	2.38
4	0.28	0.28	1.92	1.92	2.73	2.73
5	0.32	0.32	1.58	1.58	2.90	2.89
6	0.51	0.59	1.89	1.97	2.73	2.89
7	0.52	0.57	1.91	1.92	2.90	2.80
8	0.18	0.20	0.77	0.81	2.81	2.87
9	0.33	0.33	1.58	1.59	2.85	2.85
10	0.31	0.31	2.46	2.46	2.48	2.47
11	0.59	0.58	1.90	1.92	2.72	2.73
12	0.32	0.32	2.60	2.75	2.30	2.37
13	0.23	0.23	0.99	0.97	3.38	3.35
14	0.32	0.33	1.33	1.36	2.96	2.95
15	0.44	0.44	1.61	1.61	2.94	2.94
16	0.26	0.28	2.16	2.28	2.46	2.53
17	0.28	0.28	1.89	1.84	2.80	2.77
18	0.35	0.39	1.33	1.39	2.93	3.09
19	0.28	0.31	1.66	1.72	2.91	2.91
20	0.29	0.32	0.99	1.04	3.14	3.23
21	0.34	0.35	2.72	2.81	2.35	2.32
22	0.27	0.27	1.52	1.53	2.89	2.87
23	0.43	0.43	2.33	2.36	2.63	2.61
24	0.36	0.36	2.39	2.40	2.40	2.39
25	0.34	0.38	1.43	1.45	3.05	3.13
26	0.43	0.49	1.70	1.75	2.84	2.92
27	0.29	0.30	2.57	2.68	2.40	2.44
28	0.35	0.35	2.74	2.80	2.37	2.32
29	0.82	0.82	2.39	2.40	2.83	2.83
30	0.31	0.32	1.87	1.99	2.75	2.69
31	0.35	0.35	1.14	1.14	3.11	3.11
32	0.34	0.34	2.06	2.08	2.77	2.75
33	0.32	0.33	2.11	2.16	2.53	2.46
34	0.31	0.34	2.09	2.19	2.45	2.46
35	0.31	0.31	2.47	2.47	2.49	2.49
36	0.29	0.30	2.49	2.54	2.43	2.36
37	0.29	0.32	2.54	2.63	2.47	2.40
38	0.23	0.23	0.51	0.51	4.26	4.31
39	0.27	0.28	1.43	1.52	2.70	2.75
40	0.31	0.34	2.09	2.19	2.44	2.46
41	0.35	0.35	1.59	1.59	3.07	3.07
42	0.36	0.39	1.48	1.63	2.67	2.72
43	0.29	0.32	1.43	1.55	2.89	2.89
44	0.25	0.28	1.65	1.71	2.47	2.53
45	0.80	0.80	2.43	2.45	2.64	2.64
46	0.30	0.32	1.17	1.22	2.99	3.07
47	0.52	0.58	1.85	1.94	2.62	2.70
48	0.30	0.32	1.25	1.37	2.92	2.99
49	0.65	0.73	2.22	2.30	2.70	2.75
50	0.61	0.61	2.00	2.00	2.78	2.78
51	0.28	0.28	1.92	1.92	2.73	2.73
52	0.20	0.20	0.95	0.98	2.59	2.64
53	0.28	0.31	1.82	1.90	2.78	2.79
54	0.31	0.31	2.46	2.47	2.48	2.48
55	0.38	0.38	3.74	3.74	2.63	2.63
56	0.26	0.25	1.79	1.76	2.72	2.65
57	0.34	0.34	2.03	2.03	2.80	2.80
58	0.34	0.38	3.21	3.34	2.32	2.38

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3	0.31	0.34	1.64	1.77	2.79	2.87
4	0.29	0.31	1.83	1.93	2.76	2.78
5	0.29	0.31	2.62	2.64	2.42	2.36
6	0.36	0.36	2.28	2.31	2.49	2.48
7	0.29	0.32	1.53	1.63	2.92	2.92
8	0.29	0.31	1.87	1.97	2.74	2.75
9	0.48	0.48	1.80	1.82	2.91	2.92
10	0.47	0.55	1.77	1.83	2.69	2.81
11	0.34	0.34	1.66	1.67	2.88	2.87
12	0.35	0.35	1.13	1.15	3.11	3.11
13	0.28	0.31	1.61	1.67	2.95	2.95
14	0.32	0.34	1.73	1.87	2.49	2.49
15	0.26	0.29	1.26	1.36	3.07	3.07
16	0.29	0.31	1.55	1.63	2.93	2.92
17	0.31	0.35	1.38	1.46	2.75	2.79
18	0.80	0.80	2.43	2.45	2.64	2.65
19	0.27	0.29	2.21	2.35	2.34	2.42
20	0.33	0.33	1.92	1.98	2.76	2.69
21	0.34	0.37	1.71	1.79	2.79	2.72
22	0.36	0.36	2.41	2.41	2.40	2.40
23	0.31	0.32	1.50	1.65	2.74	2.73
24	0.38	0.38	3.74	3.74	2.63	2.63
25	0.34	0.35	2.11	2.29	2.43	2.50
26	0.37	0.37	1.47	1.49	3.11	3.10
27	0.28	0.29	1.90	1.85	2.82	2.76
28	0.35	0.35	1.59	1.59	3.06	3.06
29	0.38	0.38	3.74	3.74	2.63	2.63
30	0.37	0.38	1.42	1.39	3.22	3.10
31	0.21	0.21	0.84	0.85	2.94	2.94
32	0.31	0.30	2.38	2.47	2.41	2.39
33	0.55	0.55	1.79	1.79	2.96	2.96
34	0.27	0.27	2.05	2.12	2.59	2.54
35	0.38	0.38	2.12	2.14	2.62	2.60
36	0.31	0.33	0.84	0.89	3.46	3.49
37	0.36	0.36	2.32	2.32	2.51	2.51
38	0.27	0.29	2.21	2.34	2.41	2.45
39	0.22	0.23	0.96	0.99	3.45	3.38
40	0.36	0.36	2.84	2.84	2.69	2.68
41	0.35	0.37	1.44	1.51	2.71	2.76
42	0.25	0.27	2.07	2.16	2.53	2.55
43	0.67	0.68	2.30	2.34	2.73	2.59
44	0.13	0.14	0.58	0.62	2.55	2.55
45	0.18	0.21	0.67	0.69	2.77	2.83
46	0.31	0.31	2.44	2.46	2.47	2.45
47	0.34	0.38	1.42	1.42	3.04	3.10
48	0.20	0.21	0.96	0.99	2.65	2.73
49	0.30	0.31	1.38	1.48	2.87	2.88
50	0.44	0.44	1.59	1.60	3.31	3.32
51	0.29	0.31	1.04	1.03	3.28	3.22
52	0.29	0.31	1.74	1.79	2.83	2.80
53	0.34	0.35	2.70	2.83	2.32	2.33
54	0.35	0.38	1.76	1.87	2.59	2.64
55	0.42	0.42	1.62	1.62	3.26	3.26
56	0.29	0.32	1.79	1.92	2.60	2.62
57	0.47	0.55	1.77	1.83	2.69	2.81
58	0.39	0.41	1.62	1.62	3.01	2.91

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3	0.26	0.26	1.57	1.59	3.09	3.08
4	0.65	0.69	1.97	2.12	2.82	2.79
5	0.31	0.31	1.01	1.02	3.09	2.95
6	0.54	0.54	1.79	1.86	2.99	2.98
7	0.22	0.22	1.35	1.36	3.14	3.13
8	0.27	0.29	2.20	2.29	2.49	2.46
9	0.37	0.39	1.50	1.67	3.03	3.14
10	0.26	0.27	1.93	2.04	2.50	2.55
11	0.29	0.31	1.75	1.87	2.76	2.78
12	0.24	0.24	1.44	1.48	3.09	3.03
13	0.34	0.34	1.08	1.08	3.38	3.38
14	0.35	0.36	1.49	1.50	3.27	3.16
15	0.29	0.30	2.56	2.61	2.50	2.41
16	0.32	0.33	1.72	1.78	2.82	2.76
17	0.60	0.60	2.01	2.01	3.13	3.13
18	0.28	0.30	1.87	1.88	2.85	2.80
19	0.31	0.31	2.47	2.47	2.48	2.48
20	0.33	0.33	1.98	2.01	2.80	2.77
21	0.29	0.31	1.80	1.91	2.64	2.70
22	0.36	0.36	2.41	2.41	2.40	2.40
23	0.34	0.37	1.43	1.52	2.78	2.81
24	0.47	0.49	2.15	2.22	2.59	2.58
25	0.29	0.31	1.82	1.85	2.84	2.79
26	0.39	0.40	1.84	1.92	2.64	2.59
27	0.27	0.28	1.79	1.81	2.75	2.63
28	0.37	0.37	2.84	2.84	2.37	2.37
29	0.28	0.31	1.56	1.66	2.57	2.62
30	0.36	0.37	1.42	1.47	3.08	3.06
31	0.26	0.27	2.08	2.14	2.55	2.55
32	0.34	0.38	1.67	1.80	2.74	2.71
33	0.34	0.34	2.00	2.00	2.82	2.82
34	0.44	0.44	1.87	1.87	2.71	2.71
35	0.29	0.28	2.08	2.13	2.55	2.52
36	0.37	0.40	2.20	2.28	2.53	2.60
37	0.16	0.18	1.02	1.02	2.43	2.51
38	0.25	0.27	2.07	2.16	2.52	2.55
39	0.37	0.40	1.49	1.53	3.00	2.96
40	0.28	0.31	1.87	1.92	2.79	2.78
41	0.35	0.35	0.94	0.94	3.52	3.53
42	0.21	0.21	0.93	0.96	2.69	2.69
43	0.28	0.31	1.84	1.92	2.78	2.79
44	0.44	0.49	1.70	1.76	2.77	2.90
45	0.51	0.58	1.88	1.96	2.75	2.89
46	0.41	0.41	1.92	1.93	2.67	2.67
47	0.65	0.73	2.23	2.30	2.68	2.75
48	0.28	0.31	1.64	1.72	2.90	2.92
49	0.36	0.36	2.30	2.30	2.47	2.47
50	0.55	0.58	1.87	1.94	2.69	2.73
51	0.33	0.36	3.48	3.67	2.46	2.53
52	0.46	0.47	1.32	1.33	3.15	3.07
53	0.30	0.31	1.38	1.48	2.87	2.88
54	0.49	0.49	1.99	1.99	2.83	2.83
55	0.41	0.41	1.44	1.45	3.00	2.93
56	0.34	0.34	1.79	1.80	2.93	2.93
57	0.28	0.28	1.90	1.91	2.72	2.71
58	0.34	0.34	1.98	1.98	2.79	2.79

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3	0.32	0.32	2.81	2.81	2.48	2.48
4	0.34	0.34	2.00	2.00	2.81	2.81
5	0.33	0.36	3.49	3.68	2.47	2.54
6	0.27	0.30	2.22	2.37	2.44	2.43
7	0.27	0.29	2.21	2.34	2.40	2.45
8	0.65	0.74	2.23	2.31	2.67	2.75
9	0.27	0.29	2.21	2.34	2.40	2.44
10	0.31	0.33	1.47	1.54	2.95	2.96
11	0.36	0.36	1.35	1.33	2.96	2.93
12	0.29	0.32	1.47	1.50	2.84	2.83
13	0.29	0.33	1.47	1.50	2.84	2.83
14	0.27	0.27	1.36	1.37	3.11	3.09
15	0.29	0.31	1.60	1.69	2.87	2.86
16	0.64	0.74	2.19	2.28	2.62	2.72
17	0.50	0.55	1.88	1.93	2.80	2.91
18	0.34	0.36	1.72	1.75	2.88	2.75
19	0.31	0.34	1.34	1.38	2.89	2.95
20	0.67	0.73	2.35	2.41	2.45	2.52
21	0.19	0.21	1.18	1.27	2.82	2.96
22	0.38	0.40	2.20	2.27	2.55	2.59
23	0.34	0.34	2.06	2.08	2.77	2.75
24	0.13	0.15	0.57	0.60	2.80	2.73
25	0.28	0.28	1.90	1.85	2.84	2.74
26	0.30	0.31	1.05	1.09	3.17	3.14
27	0.44	0.44	1.59	1.61	3.31	3.32
28	0.42	0.44	2.05	2.12	2.72	2.71
29	0.41	0.41	1.41	1.45	3.15	3.12
30	0.32	0.35	3.47	3.61	2.48	2.56
31	0.29	0.29	1.56	1.57	2.83	2.83
32	0.43	0.42	2.12	2.08	2.78	2.68
33	0.31	0.32	2.09	2.14	2.48	2.41
34	0.44	0.44	1.41	1.44	3.02	3.00
35	0.32	0.35	1.36	1.42	3.08	3.11
36	0.24	0.26	1.74	1.84	2.72	2.73
37	0.81	0.82	2.38	2.41	2.82	2.82
38	0.36	0.36	1.34	1.36	3.04	3.04
39	0.31	0.31	1.36	1.42	3.00	2.90
40	0.26	0.29	2.18	2.27	2.53	2.44
41	0.30	0.32	1.14	1.19	3.01	3.08
42	0.30	0.31	1.07	1.06	3.25	3.15
43	0.25	0.29	1.09	1.16	2.97	3.09
44	0.30	0.31	1.38	1.48	2.87	2.88
45	0.29	0.29	2.25	2.25	2.57	2.57
46	0.33	0.33	1.98	2.02	2.79	2.74
47	0.15	0.18	0.64	0.64	2.77	2.82
48	0.33	0.35	2.64	2.82	2.29	2.37
49	0.34	0.38	1.50	1.54	3.07	3.16
50	0.28	0.31	1.83	1.89	2.79	2.80
51	0.41	0.41	1.92	1.93	2.67	2.67
52	0.25	0.26	1.11	1.15	3.21	3.17
53	0.21	0.21	0.84	0.85	2.92	2.92
54	0.30	0.32	1.10	1.16	3.01	3.10
55	0.79	0.79	1.76	1.76	3.30	3.30
56	0.31	0.31	1.37	1.38	3.05	3.05
57	0.37	0.37	2.82	2.82	2.40	2.40
58	0.40	0.40	2.21	2.25	2.61	2.59

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3	0.26	0.27	1.80	1.93	2.56	2.68
4	0.79	0.85	2.38	2.39	2.65	2.61
5	0.27	0.30	2.21	2.35	2.46	2.43
6	0.36	0.36	2.28	2.31	2.49	2.48
7	0.31	0.32	1.91	2.03	2.74	2.66
8	0.36	0.38	1.48	1.57	3.00	3.08
9	0.40	0.45	2.01	2.14	2.60	2.67
10	0.36	0.36	1.27	1.27	2.94	2.95
11	0.36	0.36	2.31	2.32	2.50	2.50
12	0.39	0.40	3.34	3.46	2.37	2.34
13	0.33	0.33	1.40	1.40	2.97	2.97
14	0.20	0.21	0.96	0.99	2.65	2.73
15	0.29	0.33	2.54	2.68	2.40	2.38
16	0.26	0.27	1.93	2.04	2.50	2.55
17	0.27	0.27	1.64	1.68	2.90	2.85
18	0.28	0.31	1.62	1.72	2.76	2.83
19	0.28	0.28	1.91	1.92	2.73	2.73
20	0.34	0.38	3.20	3.35	2.32	2.38
21	0.29	0.31	2.48	2.60	2.34	2.39
22	0.32	0.33	1.39	1.43	2.99	2.97
23	0.42	0.45	1.68	1.69	3.01	2.90
24	0.30	0.30	2.49	2.48	2.38	2.33
25	0.31	0.33	1.47	1.54	2.95	2.96
26	0.33	0.32	1.40	1.45	3.00	2.87
27	0.59	0.65	2.18	2.24	2.57	2.69
28	0.34	0.34	2.01	2.02	2.80	2.80
29	0.29	0.31	2.48	2.60	2.34	2.39
30	0.29	0.33	2.54	2.69	2.38	2.37
31	0.28	0.31	1.60	1.67	2.94	2.95
32	0.23	0.24	1.46	1.52	3.07	3.08
33	0.28	0.30	1.68	1.72	2.91	2.90
34	0.31	0.33	2.12	2.27	2.43	2.42
35	0.71	0.80	2.26	2.47	2.58	2.67
36	0.23	0.23	0.51	0.51	4.31	4.34
37	0.28	0.28	1.87	1.90	2.70	2.67
38	0.34	0.34	2.07	2.07	2.77	2.77
39	0.31	0.30	2.40	2.45	2.44	2.40
40	0.33	0.36	1.42	1.47	2.87	2.81
41	0.28	0.30	1.70	1.71	2.92	2.90
42	0.23	0.23	0.52	0.51	4.32	4.34
43	0.34	0.34	1.79	1.80	2.93	2.93
44	0.29	0.32	2.54	2.63	2.47	2.40
45	0.30	0.31	1.39	1.47	2.89	2.88
46	0.28	0.28	1.91	1.91	2.72	2.72
47	0.42	0.42	3.50	3.50	2.43	2.43
48	0.30	0.31	1.38	1.48	2.88	2.88
49	0.30	0.31	1.21	1.24	3.06	3.03
50	0.59	0.59	1.84	1.87	2.93	2.93
51	0.40	0.40	1.49	1.51	2.92	2.90
52	0.41	0.42	1.93	1.93	2.68	2.68
53	0.28	0.31	1.84	1.92	2.78	2.79
54	0.36	0.36	2.78	2.82	2.35	2.32
55	0.36	0.40	1.31	1.37	2.91	3.06
56	0.81	0.82	2.38	2.41	2.82	2.82
57	0.34	0.34	1.23	1.23	3.19	3.19
58	0.30	0.30	1.21	1.24	3.10	3.04

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3	0.55	0.52	2.07	2.05	2.66	2.61
4	0.26	0.28	2.19	2.26	2.50	2.43
5	0.29	0.31	2.53	2.57	2.46	2.38
6	0.28	0.31	1.81	1.91	2.77	2.79
7	0.30	0.31	1.72	1.72	2.76	2.63
8	0.63	0.71	1.99	2.05	2.71	2.82
9	0.47	0.47	2.22	2.22	2.72	2.72
10	0.42	0.43	1.54	1.62	2.81	2.77
11	0.70	0.70	2.28	2.32	2.78	2.78
12	0.34	0.34	1.09	1.10	3.31	3.31
13	0.31	0.31	2.64	2.63	2.42	2.35
14	0.39	0.40	2.02	2.06	2.78	2.70
15	0.30	0.31	1.73	1.73	2.77	2.63
16	0.33	0.33	1.88	1.89	2.86	2.85
17	0.54	0.54	1.42	1.45	3.25	3.26
18	0.25	0.27	2.07	2.16	2.52	2.55
19	0.61	0.61	2.00	2.00	2.77	2.77
20	0.34	0.34	1.60	1.60	2.84	2.83
21	0.26	0.25	1.16	1.13	3.13	3.11
22	0.27	0.29	2.21	2.34	2.41	2.45
23	0.27	0.29	2.21	2.34	2.41	2.45
24	0.37	0.37	1.54	1.56	2.87	2.87
25	0.27	0.30	2.21	2.34	2.48	2.44
26	0.26	0.29	1.09	1.17	2.95	3.10
27	0.25	0.27	1.73	1.84	2.54	2.64
28	0.51	0.58	1.88	1.95	2.76	2.89
29	0.76	0.83	2.32	2.51	2.72	2.67
30	0.29	0.29	2.14	2.14	2.60	2.60
31	0.37	0.40	1.47	1.53	3.00	2.96
32	0.34	0.37	1.68	1.80	2.77	2.72
33	0.30	0.31	1.52	1.49	3.05	2.95
34	0.35	0.36	1.47	1.47	3.25	3.13
35	0.43	0.44	1.60	1.61	2.94	2.93
36	0.22	0.22	1.06	1.11	2.68	2.76
37	0.47	0.46	1.73	1.76	2.97	2.88
38	0.21	0.21	0.85	0.85	2.95	2.95
39	0.34	0.34	1.98	1.99	2.79	2.78
40	0.35	0.37	1.76	1.87	2.59	2.64
41	0.27	0.29	2.21	2.34	2.41	2.45
42	0.31	0.31	1.32	1.32	2.93	2.88
43	0.32	0.32	2.43	2.50	2.39	2.34
44	0.37	0.37	2.84	2.84	2.37	2.37
45	0.58	0.64	2.17	2.23	2.59	2.69
46	0.30	0.33	2.58	2.69	2.54	2.61
47	0.36	0.41	1.57	1.66	3.03	3.05
48	0.23	0.25	1.46	1.52	3.06	3.08
49	0.34	0.34	1.79	1.79	2.87	2.87
50	0.23	0.23	1.03	1.03	2.82	2.82
51	0.52	0.57	1.85	1.96	2.59	2.68
52	0.36	0.38	1.37	1.45	2.97	3.04
53	0.29	0.31	2.48	2.60	2.34	2.39
54	0.29	0.31	1.59	1.69	2.86	2.86
55	0.40	0.44	1.85	1.90	2.85	2.83
56	0.33	0.33	1.97	1.98	2.69	2.69
57	0.34	0.37	1.68	1.80	2.78	2.72
58	0.38	0.38	3.73	3.74	2.64	2.63
59	0.38	0.38	3.73	3.74	2.64	2.63
60	0.31	0.33	1.00	1.10	3.12	3.26

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3	0.78	0.78	2.43	2.47	2.69	2.70
4	0.33	0.33	1.71	1.74	2.94	2.92
5	0.32	0.33	1.00	1.09	3.21	3.30
6	0.40	0.41	2.28	2.39	2.50	2.55
7	0.34	0.38	1.49	1.53	3.07	3.15
8	0.36	0.36	1.62	1.63	2.98	2.98
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STROBE Statement—checklist of items that should be included in reports of observational studies

	Item No	Recommendation
Title and abstract	1	Air pollutants and development of interstitial lung disease in patients with connective tissue disease: a population-based case-control study in Taiwan Structured abstract on page3-4
Introduction		
Background/rationale	2	Page 6-7
Objectives	3	Page 6, line 103-108
Methods		
Study design	4	Page 8, line 114-115
Setting	5	Page 8-9, line 117-132
Participants	6	Page 9-10, case group line 145-148, control line 149-152
Variables	7	Page 10-12, line 164-192
Data sources/ measurement	8*	Page 8-9, line 116-132
Bias	9	Page 10-12, line 163-192
Study size	10	Page 9, line 134-139
Quantitative variables	11	Page 10, line 153-162
Statistical methods	12	Page 12, line 193-205
Results		
Participants	13*	Page 14, line 213-216
Descriptive data	14*	Page 14, line 216-225 (table 1)
Outcome data	15*	Page 14-15, line 225-234
Main results	16	Page 15-16, line 235-258
Other analyses	17	N/A
Discussion		
Key results	18	Page 17, line 260-267
Limitations	19	Page 20-21, line 329-350
Interpretation	20	Page 17-20, line 268-328
Generalisability	21	Page 20-21, line 329-340
Other information		
Funding	22	Page 22, line 357-361

*Give information separately for cases and controls in case-control studies and, if applicable, for exposed and unexposed groups in cohort and cross-sectional studies.

Note: An Explanation and Elaboration article discusses each checklist item and gives methodological background and published examples of transparent reporting. The STROBE checklist is best used in conjunction with this article (freely available on the Web sites of PLoS Medicine at <http://www.plosmedicine.org/>, Annals of Internal Medicine at <http://www.annals.org/>, and Epidemiology at <http://www.epidem.com/>). Information on the STROBE Initiative is available at www.strobe-statement.org.