



Supplementary Materials for  
**Expectations of brilliance underlie gender distributions across academic disciplines**

Sarah-Jane Leslie,\* Andrei Cimpian,\* Meredith Meyer, Edward Freeland

\*Corresponding author. E-mail: [sjleslie@princeton.edu](mailto:sjleslie@princeton.edu) (S.-J.L.) or [acimpian@illinois.edu](mailto:acimpian@illinois.edu) (A.C.)

Published 16 January 2015, *Science* **347**, 262 (2014)  
DOI: 10.1126/science.1261375

**This PDF file includes**

Materials and Methods  
Figs. S1 and S2  
Tables S1 to S8  
References



## Supplementary Materials for

### Expectations of Brilliance Underlie Gender Distributions Across Academic Disciplines

Sarah-Jane Leslie, Andrei Cimpian, Meredith Meyer, Edward Freeland

correspondence to: [sjleslie@princeton.edu](mailto:sjleslie@princeton.edu) or [acimpian@illinois.edu](mailto:acimpian@illinois.edu)

**This PDF file includes:**

Materials and Methods

Figures S1-S2

Tables S1-S8

## Materials and Method

**Participants:** Participants were recruited by email invitation. Participants' email addresses were obtained by searching online departmental directories of universities in the United States. We obtained email addresses for professors, graduate students, and post-doctoral fellows/researchers in 30 target disciplines including 9 social sciences, 9 humanities, and 12 STEM disciplines (Table S1). The target disciplines were selected so as to include a wide range of fields across the entire academic spectrum, and to provide a representative sample of the cross-field variability in female representation. Participants received an initial email, then a reminder email approximately one week later (Table S5). In an initial round of data collection, members of departments in 9 geographically-diverse universities (5 private, 4 public) received invitations. Every professor, graduate student, and post-doctoral fellow in the selected departments was sent a survey invitation (as long as their email address was listed in their department's online directory). To safeguard the anonymity of our respondents, we cannot disclose the identity of the universities surveyed. As some fields are small and close-knit, identifying the particular departments that were included in our survey would be ethically problematic, given the sensitive nature of some of our questions.

After the initial round of data collection,<sup>1</sup> we emailed additional university members of 4 of the 30 disciplines due to a low number of respondents (<20) within those disciplines. The number of additional universities for each of the 4 disciplines was determined based on initial  $n$  and size of departments (Statistics = 2, Communications = 2, Middle Eastern Studies = 4, Music Theory and Composition = 24).

In total, 28,210 people were contacted, and 1,820 individuals provided useable data (6.5%). We excluded additional data from surveys that were mostly incomplete ( $n = 709$ ), from individuals who indicated they did not fill out the survey correctly or with due care ( $n = 5$ ), from individuals who reported that their primary field was not one of the target disciplines ( $n = 135$ ), and from individuals who reported that they were not faculty, graduate students, or post-doctoral fellows/researchers ( $n = 7$ ).

**Survey administration and content:** Participants completed the survey anonymously online. The survey began by asking participants to identify one of our 30 target disciplines as their primary field of work, or else to specify another field. If participants specified another field, they were thanked for their time, and the study terminated. If they selected one of our 30 target fields, then they were asked a number of questions about that field (see below and Table S2), along with some questions concerning their particular department (e.g., how it compares to other US departments in the field), their university (e.g., whether it is public or private), and themselves (academic rank, gender, age, ethnicity, and race).

The responses from participants within a discipline were averaged, such that each discipline had a single score for each question (see Table S3 for a correlation matrix, Table S4 for means by discipline, and Table S8 for individual responses). This allowed subsequent analyses to be performed over the 30 disciplines, rather than over the individual participants.

---

<sup>1</sup> The same pattern of results reported in the main paper was found with this initial set of data.

**Field-specific Ability Beliefs questions.** The four questions designed to investigate the Field-specific Ability Beliefs hypothesis (Table S2) were asked both from the participants' own perspective ("Personally, I think that ...") and from the perspective of other academics in their field ("Other academics in my field think that ..."). Because the responses to these eight items (four *self* and four *other*) were highly consistent with one another ( $\alpha = .90$ ), the *self* and *other* scores for each discipline were averaged and treated as a single measure in all analyses reported in the main text (but see below for analyses performed separately for the *self* and *other* scores). The Field-specific Ability Belief questions appeared first in the survey; the *self* and *other* blocks were counterbalanced in order of presentation, and items within these two blocks were ordered randomly.

**Workload questions.** We asked participants to indicate the number of hours they worked each week (Table S2). The average number of hours worked on- and off-campus in each discipline was calculated by averaging the number of hours reported by all full-time respondents (i.e., scores from participants who reported being retired or emeritus were not included). These average scores were added to obtain a measure of total hours worked for each discipline. These questions were presented in the last portion of the survey, along with the demographic questions.

**Selectivity question.** We asked faculty participants to estimate the percentage of applicants admitted to their PhD program in a typical year (Table S2). We created two measures of selectivity using this question: one measure included all responses (used in the analyses reported in the main text), and another included only responses from individuals who rated their department as being in the top 10% of US departments in the relevant field (analyses reported below). This question was presented in the last portion of the survey, along with the demographic questions.

As an additional measure of selectivity, we obtained information on the average GRE scores for 2011-2012 PhD applicants, which were available for only 19 of our disciplines (20). To create a composite score, we calculated standardized scores for each of the fields on the verbal, quantitative, and analytical writing portions. These three standardized scores were then averaged to produce a composite measure of GRE scores for the applicant pools of each of these disciplines.

**Systemizing vs. Empathizing questions.** Two items assessed the extent to which scholarly work in a field relies on "systemizing" ( $\alpha = .63$ ) and two other items did the same for "empathizing" ( $\alpha = .90$ ; Table S2).<sup>2</sup> Each pair was averaged to produce a single measure of systemizing and a single measure of empathizing. For each discipline, the empathizing score was then subtracted from the systemizing score to create the discipline's systemizing vs. empathizing score. Note, however, that the pattern of results reported in the main paper is replicated if either systemizing scores or empathizing scores are considered alone (i.e., not using the difference score). These four items were presented as a group, in randomized order. In the survey flow, they appeared after the Field-specific Ability Beliefs questions, but either before or after the Potential Mechanism questions (see below).

**Potential Mechanisms questions.** Three questions were designed to explore some of the mechanisms by which Field-specific Ability Beliefs could influence women's participation (Table S2). One of these questions, which pertained to potential gender disparities in ability, was asked both from respondents' own perspective and from the perspective of others in their field. The *self* and *other* versions of this question were averaged for each discipline and treated as a single measure for the

---

<sup>2</sup> Due to a programming error, six respondents from Spanish departments did not receive these questions.

purpose of our analyses ( $\alpha = .80$ ). The order of the Mechanism questions was randomized, with the constraint that the *self* version of the question about gender disparities in ability was always presented before the *other* version. In the survey flow, these questions appeared after the Field-specific Ability Beliefs questions, but either before or after the systemizing vs. empathizing questions. Note that responses to the question concerning whether women face more challenges than men did not correlate with female representation,  $r(28) = -.05$ ,  $P = .788$ , or with Field-specific Ability Beliefs,  $r(28) = -.003$ ,  $P = .986$ . Thus, this question was not discussed in the main text.

**Estimated female representation question.** Participants were asked to estimate their field's female representation (Table S2). This question was presented either immediately before or immediately after the Potential Mechanisms questions.

**Creating post-stratification weights to adjust for differential non-response:** We used information about the initial survey sample ( $N = 28,210$ ) and the institutions that were chosen for the sample to construct a set of post-stratification weights that were incorporated into the data analysis in order to reduce the potential for non-response bias in our results. That is, we determined the extent of differential response among the important subgroups in our sample (e.g., males vs. females), and then assigned weights to these subgroups to adjust for potential patterns of differential response. We then re-ran our analyses on these weighted data to ensure that the same pattern of results was obtained when adjusting for differential response.

More specifically, we divided our sample along three key dimensions: participants' field, their gender, and their departmental position (i.e., graduate student, post-doc, or faculty member). Given that graduate students made up the majority of the target population of our survey (as well as a majority of respondents), we estimated response rates separately for the male and female graduate students, but jointly for everyone else. Thus, we estimated response rates for 90 different subgroups (or cells): male graduate students, female graduate students, and post-docs/faculty within each of the 30 fields.

To estimate the response rates for each of these cells, we proceeded as follows. For the population of respondents ( $N = 1,820$ ), we knew the gender of each respondent as well as their field and departmental position (i.e., graduate student, post-doc, or faculty member). For the original survey population ( $N = 28,210$ ), we knew the number of persons invited to take the survey in each academic field. We could also calculate estimates of (1) the ratio of graduate students to all other positions in the field, and (2) the ratio of male and female graduate students in each field. For the former estimate, we used information available on the webpages of all departments in the sample. (Although unavoidable in our case, use of departmental webpages is subject to some error. For example, departmental boundaries are not consistent across institutions [e.g., some institutions have joint Math/Computer Science departments], so reasonable estimates had to be made to tally merged departments as if they were separate. Precautions were taken to avoid double counting faculty members with more than one departmental affiliation.) To estimate the male-to-female graduate student ratio within each field, we used data from the Survey of Earned Doctorates (7). Using this additional information, we were able to estimate the response rates for the three key cells (male graduate students, female graduate students, and post-docs/faculty) within each of the 30 academic fields represented in our sample.

Next, the post-stratification weights were calculated as the inverse of the response rate for each cell (Table S6). The values of the post-stratification weights ranged from 2.17 to 105.23 (with a median value of 15). These weights were then used to re-calculate the mean values of the key variables for each of the 30 academic fields. The weighted analyses reported in the main text (and Table S7 below) reflect the application of these weight adjustments for differential (non-)response. Importantly, these weighted analyses perfectly replicated the results of the unweighted analyses, which is an indication that non-response bias is unlikely.

Finally, in addition to adjusting the mean values for key variables at the field level, we also analyzed both the weighted and unweighted aggregate data to see if any of the key variables were correlated with the absolute number of responses or the field-level response rate. We found no such correlations. Furthermore, we examined whether the *variances* of the key dependent and independent variables were associated with the field-level response rate or the absolute number of responses and again found no significant correlations beyond what would be expected purely by chance. The results of these meta-analyses of the dataset, coupled with the near-insignificant impact from the added post-stratification weights, indicate that the major findings of the present research are unlikely to have been affected by non-response bias.

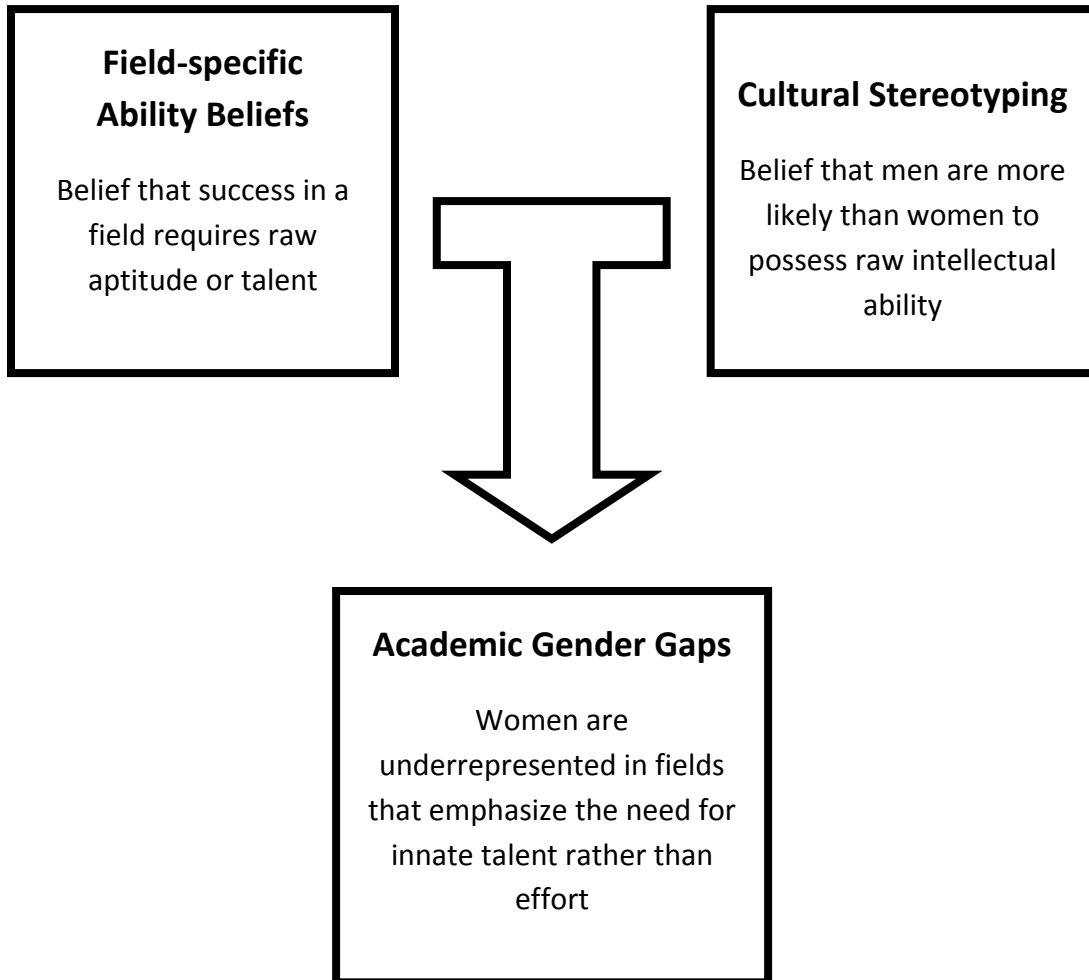
#### **Additional Results:**

**Using the separate *self* and *other* measures of Field-specific Ability Beliefs:** In regression models analogous to Model 5 in Table 1, both the *self* and the *other* Field-specific Ability Belief scores emerged as the only significant predictors,  $\beta_s = -.53$  and  $-.52$ ,  $P_s = .001$  and  $.013$ , respectively. Thus, both practitioners' own beliefs about what is required for success and their impressions of their colleagues' beliefs are equally predictive of gender gaps across academia.

**Using the total amount of hours worked:** In a regression model analogous to Model 5 in Table 1 except using the total number of hours worked rather than the number of hours worked on-campus, the Field-specific Ability Belief scores again emerged as the only significant predictor,  $\beta = -.54$ ,  $P = .001$ . The total number of hours worked did not significantly predict women's representation,  $\beta = .13$ ,  $P = .424$ .

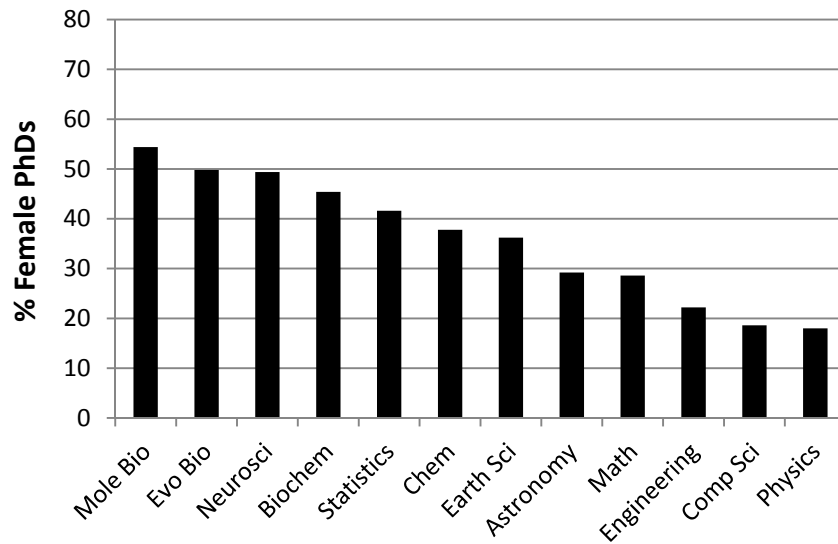
**Using a different measure of selectivity:** We asked respondents to provide an estimate of their department's ranking relative to other departments in their field. We then created a second measure of selectivity by considering only data from faculty who ranked their departments as being in the top 10% of their field. This second measure helps equate department quality across disciplines: Because the departments we sampled may vary in quality, and quality/ranking affects selectivity, this second measure provides another means of examining the relationship between selectivity and female representation across the 30 fields. (67.1% of faculty rated their department as being in the top 10%; as we sampled from prestigious research universities, most respondents reported themselves to be in this category.) This alternative selectivity measure was not significantly correlated with female representation,  $r(28) = .30$ ,  $P = .111$ , nor did it predict female representation when it was entered (instead of the unrestricted selectivity variable) in a regression analysis analogous to that in Model 5 (Table 1),  $\beta = .15$ ,  $P = .432$ .

**Using post-stratification weights:** Weighted versions of all models in Table 1 are reported in Table S7. The weighted results replicated those reported in the main text.

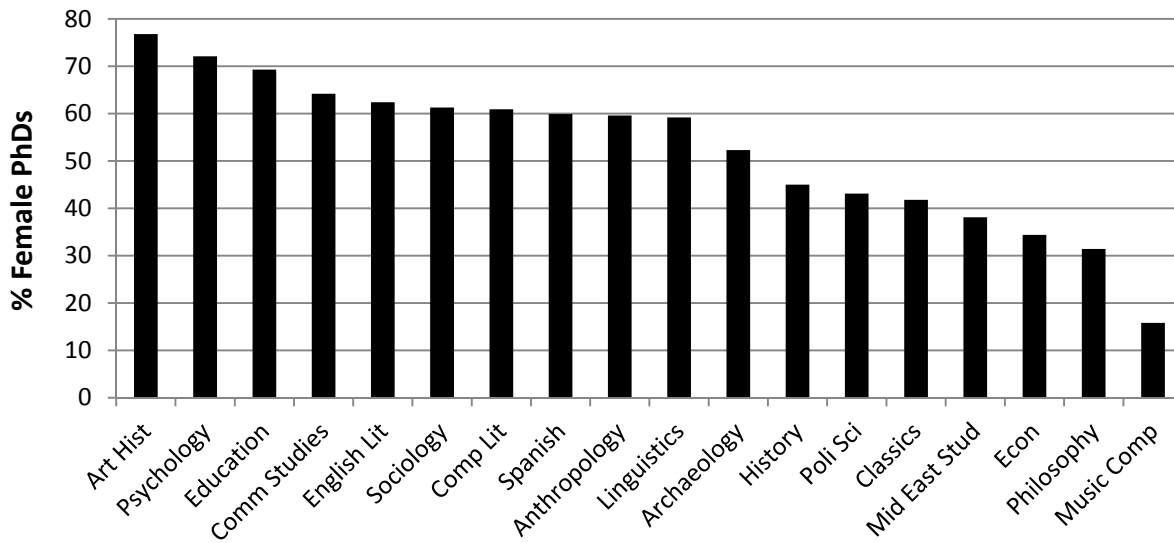


**Fig. S1.** Diagram of the Field-specific Ability Beliefs hypothesis.





**(A) STEM**



**(B) Social Sciences and Humanities**

**Fig. S2.** Percentage of US PhDs awarded to women in 2011 (NSF Survey of Earned Doctorates) in STEM (A) and Social Science and Humanities (B) disciplines.

**Table S1: Disciplines targeted, and number of respondents in each**

<b>Discipline</b>	<b>N</b>	<b>Discipline</b>	<b>N</b>	<b>Discipline</b>	<b>N</b>
Anthropology	69	Earth Science	54	Molecular Biology	60
Archaeology	30	Economics	85	Music Theory & Comp.	28
Art History	29	Education	58	Neuroscience	42
Astronomy	35	Engineering	103	Philosophy	58
Biochemistry	29	English Literature	66	Physics	104
Chemistry	83	Evolutionary Biology	27	Political Science	112
Classics	24	History	101	Psychology	143
Communication Studies	43	Linguistics	39	Sociology	117
Comparative Literature	43	Mathematics	133	Spanish	22
Computer Science	47	Middle Eastern Studies <sup>a</sup>	8	Statistics	28

<sup>a</sup>Due to the fact that Middle Eastern Studies departments are not very common, as well as relatively small in size, we failed to recruit at least 20 participants for this field. However, the pattern of results reported in the main paper is the same if we exclude Middle Eastern Studies from consideration, and thus only consider disciplines with at least 20 participants.

**Table S2: The survey items**

---

**Field-specific Ability Beliefs<sup>a</sup>**

Being a top scholar of [discipline] requires a special aptitude that just can't be taught.

If you want to succeed in [discipline], hard work alone just won't cut it; you need to have an innate gift or talent.

With the right amount of effort and dedication, anyone can become a top scholar in [discipline]. (R)

When it comes to [discipline], the most important factors for success are motivation and sustained effort; raw ability is secondary. (R)

**Workload<sup>b</sup>**

Approximately how many hours a week do you spend working:

In your office, lab, classroom, or otherwise on campus?

Off campus (e.g., home, coffee shop, other remote site)?

**Selectivity<sup>c</sup>**

Roughly what percentage of applicants are accepted into your department's Ph.D. program in a typical year? (R)

**Systemizing vs. Empathizing<sup>d</sup>**

Please rate the extent to which the following processes are involved in doing scholarly work in [discipline]:

Identifying the abstract principles, structures, or rules that underlie the relevant subject matter (Systemizing)

Analyzing the relevant subject matter and constructing a systematic understanding of it (Systemizing)

Having a refined understanding of human thoughts and feelings (Empathizing)

Recognizing and responding appropriately to people's mental states (Empathizing)

**Potential Mechanisms<sup>a</sup>**

Even though it's not politically correct to say it, men are often more suited than women to do high-level work in [discipline].

[discipline] as a discipline is welcoming to women.

Women face more challenges than men if they pursue careers in [discipline].

**Estimated Female Representation<sup>c</sup>**

In the recent past, what percentage of [discipline] doctoral (Ph.D.) degrees from American universities have been earned by women?

---

*Note.* (R) indicates items that were reverse scored.

<sup>a</sup> Responses to these items were given on a 7-point scale (1 = strongly disagree to 7 = strongly agree).

<sup>b</sup> Responses to these items were given on an 8-point scale (1 to 8, 1-7 corresponding to 10-hour increments, and 8 corresponding to >70 hours).

<sup>c</sup> Responses to these items were given on a 10-point scale (1 to 10, each number corresponding to a 10% increment). For the Selectivity question, there were two additional options for "don't know" and "no Ph.D. program".

<sup>d</sup> Response to these items were given on a 7-point scale (1 = never involved to 7 = highly involved).

**Table S3: Correlations among the main variables in the study of academics**

Variable	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1. FEM	—	.36	<b>-.40</b>	<b>-.50</b>	<b>-.60</b>	<b>-.40</b>	<b>-.50</b>	-.32	-.03	.34	.30	-.18	<b>.57</b>	<b>-.53</b>	<b>-.67</b>	<b>.74</b>	-.05
2. AFR		—	.16	-.08	<b>-.54</b>	<b>-.40</b>	<b>-.46</b>	<.01	-.05	-.10	-.20	-.02	.16	-.14	-.18	.23	.04
3. ASI			—	<b>.53</b>	.16	-.04	.26	.34	.06	-.12	-.20	.04	<b>-.50</b>	<b>.44</b>	<b>.42</b>	-.22	-.12
4. STEM				—	.14	-.04	.19	<b>.79</b>	<b>.37</b>	<b>-.46</b>	<b>-.52</b>	.29	<b>-.84</b>	<b>.79</b>	<b>.48</b>	-.16	.07
5. FAB					—	<b>.77</b>	<b>.91</b>	-.09	-.21	.07	.05	.31	-.31	.34	<b>.39</b>	<b>-.58</b>	<.01
6. FAB-W						—	<b>.49</b>	-.12	-.24	.16	.07	<b>.46</b>	-.17	.25	-.03	-.33	.10
7. FAB-M							—	-.08	-.21	.07	.10	.15	-.34	.33	<b>.45</b>	<b>-.57</b>	-.04
8. HW-OC								—	<b>.65</b>	<b>-.51</b>	<b>-.64</b>	.32	<b>-.73</b>	<b>.70</b>	.34	-.04	.10
9. HW-T									—	<b>-.50</b>	<b>-.59</b>	-.03	-.21	.17	.12	.16	-.07
10. SEL-A										—	<b>.93</b>	-.09	.33	-.30	-.33	.08	.18
11. SEL-P											—	-.18	<b>.41</b>	<b>-.39</b>	-.30	.03	.14
12. SYS												—	<b>-.51</b>	<b>.67</b>	-.04	-.02	.14
13. EMP													—	<b>-.98</b>	<b>-.42</b>	.27	-.09
14. S vs E														—	.36	-.23	.11
15. SUIT															—	<b>-.74</b>	.16
16. WEL																—	<b>-.44</b>
17. CHAL																	—

Notes.  $N = 30$  disciplines. Bolded statistics are significant ( $P < .05$ ). FEM = Percentage of PhD recipients in 2011 (NSF Survey of Earned Doctorates) who were women. AFR = Percentage of PhD recipients in 2011 (NSF Survey of Earned Doctorates) who were African American. ASI = Percentage of PhD recipients in 2011 (NSF Survey of Earned Doctorates) who were Asian American. STEM = STEM indicator variable. FAB = Field-specific Ability Beliefs. FAB-W = Field-specific Ability Beliefs from women participants. FAB-M = Field-specific Ability Beliefs from men participants. HW-OC = On-campus hours worked. HW-T = Total hours worked. SEL-A = Selectivity ratings from all participants. SEL-P = Selectivity ratings from participants in departments in the top 10%. SYS = whether the field requires systemizing. EMP = whether field requires empathizing. S vs E = Systemizing minus empathizing. SUIT = judgments of whether women are less well suited than men. WEL = whether the field is welcoming to women. CHAL = whether women face more challenges than men in the field.

**Table S4: Values of the variables for each discipline**

Discipline	FEM	AFR	ASI	FAB	FAB-W	FAB-M	HW-OC	HW-T	SEL-A	SEL-P	GRE	SYS	EMP	S vs E	SUIT	WEL	CHAL
ANTHROPOLOGY	59.6	4.2	6.3	3.72	3.90	3.39	3.05	6.95	9.25	9.14		6.13	5.43	0.70	1.90	5.70	4.70
ARCHAEOLOGY	52.3	1.3	3.9	3.76	3.81	3.72	4.03	6.77	9.33	9.40		6.17	3.38	2.78	2.39	4.70	5.43
ART HISTORY	76.8	1.5	8.8	4.06	4.00	4.16	2.85	6.85	8.78	9.00	.31	6.10	3.97	2.14	1.74	5.76	4.69
ASTRONOMY	29.2	1.5	6.1	4.13	4.36	3.99	4.49	6.40	8.5	8.33		6.31	2.29	4.03	2.01	4.80	4.94
BIOCHEMISTRY	45.4	5.0	10.6	4.25	3.79	4.35	5.30	7.67	7.88	7.75		6.28	2.93	3.34	2.38	5.41	4.07
CHEMISTRY	37.8	4.3	9.6	4.11	4.10	4.12	5.73	7.51	7.00	6.86	.04 <sup>b</sup>	6.35	2.53	3.82	2.77	4.45	4.88
CLASSICS	41.8	0	2.9	4.34	4.58	4.22	3.83	6.75	9.29	9.20		5.83	4.21	1.63	1.90	5.29	4.50
COMMUNIC	64.2	7.4	4.6	3.79	3.68	3.94	3.38	6.80	9.16	9.21	-.87	5.88	4.63	1.26	1.95	4.21	5.42
COMP LIT	60.9	1.5	5.9	4.28	4.16	4.45	3.03	6.83	8.78	9.00	-.04 <sup>c</sup>	5.86	4.43	1.43	1.97	5.56	3.84
COMP SCI	18.6	3.3	19.9	4.29	4.35	4.28	3.84	6.60	9.36	9.50	-1.10	5.95	2.80	3.15	2.86	4.04	4.49
EARTH SCI	36.2	1.7	5.4	3.76	3.35	3.92	5.04	6.98	7.00	8.00	-.03	6.17	2.34	3.82	2.44	5.15	4.44
ECONOMICS	34.4	4.0	14.7	4.37	4.14	4.44	4.09	6.60	8.82	8.80	.44	6.12	3.29	2.83	2.48	4.31	4.04
EDUCATION	69.3	13.0	4.8	3.32	3.19	3.44	3.12	6.67	7.80	7.95	-.80	5.92	4.91	1.01	1.95	6.07	3.84
ENGINEERING	22.2	4.0	16.9	4.29	3.69	4.44	4.55	6.88	7.62	7.79	-.62	6.22	2.83	3.38	2.85	4.17	4.70
ENGLISH LIT	62.4	1.3	5.0	4.42	4.26	4.59	2.64	6.67	9.12	9.23	.51	5.93	4.77	1.16	1.74	5.36	4.65
EVOLUTION BIO	49.8	0	3.2	4.06	3.60	4.29	4.73	7.23	9.60	9.60	-.22 <sup>d</sup>	6.28	2.44	3.83	2.11	5.33	4.52
HISTORY	45.0	5.2	4.0	3.90	3.76	4.05	2.87	6.66	8.76	9.27	.24	5.95	4.79	1.16	1.88	4.84	5.11
LINGUISTICS	59.2	3.1	10.7	4.00	3.79	4.17	3.49	6.57	9.69	9.75		6.64	3.59	3.05	1.71	5.87	4.10
MATH	28.6	2.9	10.3	4.67	4.40	4.74	3.72	6.45	8.28	8.43	.43	6.62	1.91	4.71	2.84	4.39	4.68
MID EAST STUD	38.1	0	6.4	4.11	2.88	4.52	2.63	6.63	8.60	9.33		5.31	5.19	0.13	3.31	3.63	4.50
MOLEC BIO	54.4	4.6	10.8	3.88	3.66	4.03	5.49	7.41	7.92	8.00		6.21	2.66	3.55	2.28	5.12	4.75
MUS TH & COM	15.8	0	6.7	4.45	4.68	4.28	3.22	7.00	7.60	8.27		6.18	4.00	2.18	2.05	4.18	3.96
NEUROSCI	49.4	4.3	12.9	3.83	3.76	3.98	4.76	6.71	8.38	8.80		6.14	3.54	2.61	2.31	4.98	5.33
PHILOSOPHY	31.4	2.7	3.8	5.11	5.23	5.07	2.71	5.88	9.71	9.71	1.35	6.66	3.65	3.01	2.66	3.10	5.47
PHYSICS	18.0	1.6	8.8	4.41	4.23	4.44	4.74	7.32	7.46	8.00	.82 <sup>e</sup>	6.45	2.48	3.97	2.80	3.84	5.10
POLITICAL SCI	43.1	5.7	7.4	3.94	3.71	4.07	3.60	6.68	8.82	8.95	.44	6.11	3.54	2.56	2.16	4.23	5.07
PSYCHOLOGY	72.1	6.0	5.8	3.55	3.46	3.73	3.79	6.72	9.41	9.33	-.54	6.15	4.72	1.43	2.05	5.47	4.83
SOCIOLOGY	61.3	7.9	6.1	3.78	3.72	3.86	3.33	6.47	8.62	9.00	-.54	6.27	3.90	2.37	1.78	5.38	4.94
SPANISH LIT	59.9	1.2	0	4.07	4.14	4.00	3.00	6.23	8.33	9.00		6.38	4.81	1.56	1.86	5.50	3.91
STATISTICS	41.6	5.4	18.4	4.12	3.65	4.49	3.71	6.14	9.00	9.20		6.02	2.32	3.70	2.18	4.96	4.21

*Notes.* GRE = Composite GRE z-score. Other variable names are the same as in Table S4. <sup>a</sup> The female PhD data for this field were combined with Archaeology for the purpose of computing the correlation with the GRE composite. <sup>b</sup> PhD data combined with Biochemistry. <sup>c</sup> PhD data combined with Spanish/Spanish Lit. <sup>d</sup> PhD data combined with Molecular Bio and Neuroscience. <sup>e</sup> PhD data combined with Astronomy.

**Table S5: Text of email invitation**

---

<b>Initial Invitation</b>
<p>Dear colleague,</p> <p>We are conducting a cross-disciplinary study to compare academics' beliefs about their respective fields. Given your expertise within your field of study, we would like to invite you to complete this short survey, which you may access by clicking the following link: [SURVEY LINK]</p> <p>We thank you for your time and look forward to your response!</p> <p>Sincerely, The Academic Disciplines Survey Research Team</p> <p>Please be assured your responses will be kept confidential, and we will not ask you to provide any personally-identifying information. Because this survey does not collect personally-identifying information, it has been deemed exempt by the University of Michigan Health Sciences and Behavior Sciences Institutional Review Board. If you have any questions about this survey, please reply to this email or email one of the researchers at [RESEARCH TEAM EMAIL].</p>
<b>Follow-up Invitation</b>
<p>Dear colleague,</p> <p>About a week ago, we contacted you about a cross-disciplinary study comparing academics' beliefs about their respective fields.</p> <p>***If you have already completed this survey, thank you!***</p> <p>If you forgot to complete it but would still like to, please follow this link to provide your responses: [SURVEY LINK]</p> <p>We thank you for your time! Sincerely, The Academic Survey Research Team</p> <p>Please be assured your responses will be kept confidential, and we will not ask you to provide any personally-identifying information. Because this survey does not collect personally-identifying information, it has been deemed exempt by the University of Michigan Health Sciences and Behavior Sciences Institutional Review Board. If you have any questions about this survey, please reply to this email or email one of the researchers at [RESEARCH TEAM EMAIL].</p>

---

**Table S6: Response rates and post-stratification weights**

Field	Cell <sup>1</sup>	Respondent Count	Target Sample Estimate (Rounded)	Response Rate	Weight	Field	Cell <sup>1</sup>	Respondent Count	Target Sample Estimate (Rounded)	Response Rate	Weight
Anthropology	1	13	135	9.6%	10.37	Evolutionary Bio.	1	10	61	16.4%	6.11
Anthropology	2	33	199	16.6%	6.03	Evolutionary Bio.	2	6	61	9.9%	10.10
Anthropology	3	23	387	5.9%	16.83	Evolutionary Bio.	3	11	333	3.3%	30.27
Archaeology	1	9	97	9.3%	10.72	History	1	18	301	6.0%	16.71
Archaeology	2	11	106	10.4%	9.62	History	2	33	246	13.4%	7.46
Archaeology	3	10	111	9.0%	11.10	History	3	50	647	7.7%	12.94
Art History	1	2	29	6.9%	14.50	Linguistics	1	9	75	12.0%	8.30
Art History	2	15	96	15.6%	6.40	Linguistics	2	10	108	9.2%	10.83
Art History	3	12	221	5.4%	18.42	Linguistics	3	20	189	10.6%	9.45
Astronomy	1	7	219	3.2%	31.25	Mathematics	1	60	258	23.2%	4.31
Astronomy	2	4	90	4.4%	22.56	Mathematics	2	16	104	15.5%	6.47
Astronomy	3	24	247	9.7%	10.29	Mathematics	3	57	1065	5.4%	18.68
Biochemistry	1	6	149	4.0%	24.92	Middle Eastern	1	1	105	1.0%	105.23
Biochemistry	2	6	124	4.8%	20.72	Middle Eastern	2	1	65	1.5%	64.77
Biochemistry	3	17	431	3.9%	25.35	Middle Eastern	3	6	287	2.1%	47.83
Chemistry	1	28	803	3.5%	28.68	Molecular Bio.	1	21	178	11.8%	8.45
Chemistry	2	34	488	7.0%	14.36	Molecular Bio.	2	16	212	7.6%	13.24
Chemistry	3	21	726	2.9%	34.57	Molecular Bio.	3	23	621	3.7%	27.00
Classics	1	7	51	13.8%	7.23	Music Theory	1	6	306	2.0%	51.08
Classics	2	6	36	16.5%	6.06	Music Theory	2	3	58	5.2%	19.17
Classics	3	11	212	5.2%	19.27	Music Theory	3	19	379	5.0%	19.95
Communication	1	3	100	3.0%	33.29	Neuroscience	1	9	51	17.6%	5.68
Communication	2	14	179	7.8%	12.79	Neuroscience	2	23	50	46.1%	2.17
Communication	3	26	424	6.1%	16.31	Neuroscience	3	10	577	1.7%	57.70
Comparative Lit.	1	9	156	5.8%	17.29	Philosophy	1	28	236	11.9%	8.43
Comparative Lit.	2	20	242	8.3%	12.12	Philosophy	2	9	108	8.3%	12.00
Comparative Lit.	3	14	213	6.6%	15.21	Philosophy	3	21	265	7.9%	12.62
Computer Science	1	24	706	3.4%	29.41	Physics	1	42	307	13.7%	7.30
Computer Science	2	4	161	2.5%	40.32	Physics	2	17	67	25.3%	3.96
Computer Science	3	19	702	2.7%	36.95	Physics	3	45	786	5.7%	17.47
Earth Sciences	1	23	248	9.3%	10.79	Political Science	1	38	312	12.2%	8.22
Earth Sciences	2	11	141	7.8%	12.80	Political Science	2	34	237	14.4%	6.96
Earth Sciences	3	20	633	3.2%	31.65	Political Science	3	40	513	7.8%	12.83
Economics	1	39	544	7.2%	13.96	Psychology	1	19	206	9.2%	10.82
Economics	2	15	286	5.3%	19.03	Psychology	2	72	531	13.6%	7.38

Economics	3	31	561	5.5%	18.10	Psychology	3	52	844	6.2%	16.23
Education	1	13	99	13.1%	7.65	Sociology	1	27	217	12.5%	8.03
Education	2	18	225	8.0%	12.47	Sociology	2	51	343	14.9%	6.73
Education	3	27	683	4.0%	25.30	Sociology	3	39	349	11.2%	8.95
Engineering	1	23	1124	2.0%	48.88	Spanish	1	2	40	5.0%	20.05
Engineering	2	11	321	3.4%	29.16	Spanish	2	8	60	13.4%	7.49
Engineering	3	69	1400	4.9%	20.29	Spanish	3	12	296	4.1%	24.67
English Literature	1	13	196	6.6%	15.07	Statistics	1	8	237	3.4%	29.57
English Literature	2	21	325	6.5%	15.48	Statistics	2	9	168	5.3%	18.72
English Literature	3	32	807	4.0%	25.22	Statistics	3	11	319	3.4%	29.00

<sup>1</sup> Cell 1 = male graduate students; Cell 2 = female graduate students; Cell 3 = post-docs and faculty.



**Table S7: Weighted Hierarchical Regression Models Predicting Female Representation**

Predictor	Model 1			Model 2			Model 3			Model 4			Model 5		
	$\beta$	<i>t</i>	<i>P</i>	$\beta$	<i>t</i>	<i>P</i>	$\beta$	<i>t</i>	<i>P</i>	$\beta$	<i>t</i>	<i>P</i>	$\beta$	<i>t</i>	<i>P</i>
STEM indicator	<b>-.50**</b>	<b>-3.03</b>	<b>.005</b>	<b>-.39*</b>	<b>-2.59</b>	<b>.015</b>	(-.46)	(-1.83)	(.079)	(-.39)	(-1.58)	(.128)	(-.25)	(-.87)	(.393)
Field-specific Ability Beliefs				<b>-.43**</b>	<b>-2.87</b>	<b>.008</b>	<b>-.42*</b>	<b>-2.57</b>	<b>.016</b>	<b>-.45**</b>	<b>-2.88</b>	<b>.008</b>	<b>-.40*</b>	<b>-2.33</b>	<b>.029</b>
On-Campus Hours Worked							(.08)	(.34)	(.739)	(.18)	(.73)	(.471)	(.24)	(.94)	(.357)
Selectivity										(.29)	(1.70)	(.103)	(.31)	(1.81)	(.083)
Systemizing vs. Empathizing													(-.23)	(-.86)	(.396)
$R^2$		<b>.25</b>			<b>.42</b>			(.43)			(.49)			(.50)	
<i>F</i> for change in $R^2$		<b>9.19**</b>			<b>8.22**</b>			(.11)			(2.87)			(.75)	
<i>P</i> for change in $R^2$		<b>.005</b>			<b>.008</b>			(.739)			(.103)			(.396)	

Notes. *N* = 30 disciplines. Significant statistics are bolded; non-significant ones are placed in parentheses.  $R^2$  comparisons are always with the preceding model (to the left). \*  $p < .05$ . \*\*  $p < .01$ . \*\*\*  $p < .001$ .

**Table S8: Individual Responses**

DIS	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Q30	R29	R30	
ANT	6	6	2	1	6	5	2	1	7	7	6	6	7	1	6	6	6	1	2	2		5		1	2	4	1	5	4	4	4	4	
ANT	5	4	6	6	6	4	5	6	6	6	7	7	6	1	1	5	6	1	1	2		1			1	2	1	2	5	5	5	5	
ANT	7	6	1	3	6	5	1	4	7	7	5	5	6	1	4	7	3	1	1	2		1			2	2	1	5	1	7	1	7	
ANT	5	6	2	2	6	6	2	2	7	5	7	6	6	1	3	5	5	1	1	2		1				2	1	1	5	4	2	4	2
ANT	6	6	2	2	6	6	1	3	7	7	6	5	8	2	2	2	7	1	1	2		5		1	2	5	1	5	5	2	5	2	
ANT	1	1	5	5	1	2	5	4	7	7	7	7	8	1	1	7	7	1	1	2		5		1	2	3	1	2	5	3	5	3	
ANT	7	3	6	5	4	5	5	3	5	5	7	6	6	1	4	6	5	1	1	2		1				2	2	1	5	2	6	2	6
ANT	5	6	5	6	4	5	2	5	7	7	7	6	7	1	2	5	6	1	1	2		1				2	1	1	5	1	8	1	8
ANT	4	5	3	3	5	5	3	3	6	6	4	4	6	1	3	7	5	1	1	2		1				2	1	1	5	1	4	1	4
ANT	3	3	2	4	2	2	5	3	6	4	6	6	8	1	3	5	4	1	1	2		6	EM			2	6	1	5	1	5	EM	EM
ANT	3	4	3	2	3	5	2	2	7	7	7	6	8	1	3	3	6	1	1	2		1				2	2	1	5	1	5	1	5
ANT	5	5	2	5	7	5	1	4	5	7	7	5	7	1	5	7	5	1	1	2		1				2	2	1	5	3	6	3	6
ANT	1	1	1	1	5	6	4	6	2	2	2	3	7	1	3	1	2	1	1	2		5		1	1	3	1	5	6	2	6	2	
ANT	4	5	3	5	3	3	3	6	2	6	3	4	8	2	2	3	6	1	1	2		5		1	1	5	1	5	4	3	4	3	
ANT	2	2	7	4	5	5	2	4	6	6	5	6	6	1	4	7	1	1	DK	2		3		1	2	2	1	5	1	4	1	4	
ANT	5	5	4	6	6	6	5	6	6	6	4	4	6	1	1	5	6	1	1	2		4		2	2	2	1	5	5	3	5	3	
ANT	2	2	5	5	2	2	5	4	7	7	7	7	7	1	1	5	6	1	1	2		1				2	1	1	5	3	3	3	3
ANT	4	4	4	4	3	3	5	5	7	7	7	6	7	1	2	5	7	1	1	2		1				2	1	1	3	2	4	2	4
ANT	6	6	3	5	2	2	6	6	7	7	7	7	8	1	2	7	7	1	1	2		1				1	1	2		2	6	2	6
ANT	3	3	7	7	7	7	1	1	6	6	6	5	7	1	5	3	6	1	1	1		1				1	1	1	2	3	8	3	8
ANT	3	5	3	6	3	5	4	5	7	7	7	7	6	1	1	2	5	1	2	1		1				2	1	1	5	2	5	2	5
ANT	5	4	2	4	7	5	1	4	7	7	7	6	7	1	2	6	4	1	1	1		3		3	2	4	1	5	2	6	2	6	
ANT	4	4	3	5	5	5	2	3	5	5	4	3	7	4	1	3	6	1	1	1		5		2	1	4	1	5	5	2	5	2	
ANT	4	4	4	4	4	4	4	4	4	4	6	6	6	1	1	5	6	1	1	1		1				1	1	1	5	4	3	4	3
ANT	6	6	3	4	2	5	7	5	7	7	7	5	8	1	5	6	6	1	1	1		1				1	1	2	5	2	5	2	5
ANT	3	1	4	5	4	2	4	6	7	7	7	6	7	1	3	5	5	1	1	2		1				1	1	1	5	2	4	2	4
ANT	5	5	5	3	5	6	4	3	6	7	7	5	6	1	2	2	6	1	1	2		1				2	1	1	5	2	3	2	3
ANT	3	3	5	5	5	4	5	5	5	6	7	7	7	2	3	3	5	1	1	2		1				2	1	2	5	4	2	4	2
ANT	7	6	5	3	7	5	3	4	7	7	7	4	7	1	1	1	7	1	2	2		1				1	1	1	5	6	5	6	5

ANT	4	4	6	6	3	3	5	6	7	5	7	7	8	1	5	7	6	1	1	1	1	2	1	1	5	1	6	1	6	
ANT	2	2	6	6	2	2	6	6	6	7	3	4	6	1	1	3	7	1	1	2	2	1	2	1	5	5	3	5	3	
ANT	2	1	5	7	2	1	5	7	7	7	5	3	8	1	1	4	7	1	2	2	1	2	3	1	5	4	2	4	2	
ANT	5	4	6	6	5	4	6	6	7	7	3	3	7	1	2	3	7	1	1	2	5	1	2	3	2	5	4	5	4	5
ANT	2	3	3	2	3	3	3	3	6	6	5	5	2	1	1	6	7	1	1	2	4	1	2	2	1	5	5	1	5	1
ANT	1	1	1	6	1	1	7	7	7	7	7	7	4	1	1	7	1	1	1	2	1	1	1	2	3	1	7	1	7	
ANT	2	2	2	3	2	3	5	4	6	7	5	4	7	1	1	3	5	1	1	2	1	2	2	1	5	4	4	4	4	
ANT	5	5	1	2	6	4	1	4	5	6	4	6	7	1	1	1	7	1	1	2	5	1	1	5	5	5	3	5	3	
ANT	7	1	5	5	5	1	5	5	3	7	4	4	6	1	1	5	6	1	1	1	1	1	3	1	2	2	2	2	2	
ANT	4	4	2	5	4	4	4	5	7	7	5	4	7	1	5	6	7	1	1	2	1	2	1	1	5	1	6	1	6	
ANT	2	3	2	3	5	5	2	2	6	6	6	5	4	3	4	6	5	1	2	2	6	AD	2	4	1	3	1	8	1	8
ANT	2	2	6	5	1	3	5	7	6	5	7	6	6	1	1	5	5	1	1	2	1	2	1	1	5	1	4	1	4	
ANT	3	2	4	4	3	2	3	5	3	4	4	3	6	1	2	5	4	1	1	2	5	5	1	4	1	6	6	2	6	2
ANT	6	6	6	4	6	5	2	5	6	4	7	7	5	1	2	7	7	1	1	2	1	2	2	1	5	2	2	2	2	
ANT	5	3	1	1	6	7	4	5	6	7	7	5	4	1	6	7	5	1	1	1	6	RG	2	2	1	5	3	5	3	5
ANT	3	2	6	6	3	3	6	6	6	7	4	5	7	2	3	5	6	1	1	2	1	2	3	1	5	1	4	1	4	
ANT	1	3	5	7	3	3	7	7	6	7	7	7	6	1	1	3	7	1	1	2	1	1	1	1	5	3	4	3	4	
ANT	5	3	3	5	6	5	3	4	7	7	7	6	6	1	1	6	6	1	2	1	1	2	2	1	5	2	5	2	5	
ANT	2	3	4	4	2	2	3	5	7	7	7	7	7	1	2	6	6	1	1	2	1	2	1	1	5	3	3	3	3	
ANT	2	2	7	7	5	2	5	2	7	7	7	6	8	1	1	1	7	1	2	2	1	2	1	1	5	2	4	2	4	
ANT	4	4	4	4	4	4	4	4	7	7	5	6	6	5	2	6	7	1	1	2	1	2	1	1	5	5	2	5	2	
ANT	1	1	5	5	1	1	7	5	6	7	4	4	7	1	3	6	5	1	1	1	1	1	2	1	3	3	3	3	3	
ANT	4	4	4	4	5	3	5	3	6	4	6	6	6	1	2	4	5	1	1	2	1	2	1	2	1	5	1	5	1	5
ANT	5	6	3	6	5	5	5	5	6	7	5	5	7	1	1	3	7	1	1	2	1	2	1	1	5	5	1	5	1	
ANT	1	1	5	7	1	1	6	6	7	7	7	7	7	1	2	2	7	1	1	2	1	1	1	1	3	3	3	3	3	
ANT	3	4	3	5	5	5	2	5	6	7	5	3	7	1	5	6	5	1	1	2	1	2	1	1	5	3	3	3	3	
ANT	1	1	7	5	2	2	6	6	7	7	7	7	7	1	1	5	7	1	1	2	1	1	1	1	3	2	3	2	3	
ANT	3	3	5	5	4	4	4	4	7	7	5	5	5	3	3	3	5	1	1	2	1	2	2	1	5	4	2	4	2	
ANT	1	2	7	6	1	1	7	6	5	6	7	4	8	1	1	3	7	1	1	2	5	3	1	6	1	6	3	3	3	3
ANT	4	5	2	2	4	5	2	3	2	7	5	6	6	1	1	6	7	1	2	1	6	EM	1	6	1	5	1	3	EM	EM
ANT	2	2	7	6	2	2	6	5	7	7	6	4	6	2	5	4	7	1	2	2	6	EM	1	6	1	2	1	3	EM	EM
ANT	4	4	4	4	6	6	6	5	6	7	5	5	7	1	5	6	5	1	2	2	1	2	2	1	2	1	6	1	6	

ANT	5	4	7	6	7	7	1	1	4	6	2	2	7	1	7	7	3	1	1	2	1	2	1	1	5	5	3	5	3		
ANT	6	6	2	6	2	2	6	6	6	7	2	2	8	1	3	5	7	1	1	2	5	1	2	5	1	5	2	5	2	5	
ANT	3	3	6	6	3	3	5	5	4	6	4	3	7	1	2	2	7	1	2	1	2	2	3	1	5	2	4	2	4		
ANT	5	6	2	5	5	4	3	5	6	5	6	5	7	3	2	4	7	1	1	1	6	EM	1	6	1	5	2	4	EM	EM	
ANT	4	4	6	6	5	5	2	4	6	6	7	4	6	2	3	6	5	1	1	1	1	2	1	1	5	4	3	4	3		
ANT	3	5	2	6	2	2	6	5	7	7	5	5	7	1	4	4	6	1	1	1	1	2	1	1	5	4	2	4	2		
ANT	3	3	5	6	3	2	6	6	6	7	6	5	4	1	2	7	6	1	1	1	1	2	1	1	5	5	3	5	3		
ANT	2	3	6	6	4	4	5	5	4	5	6	6	6	1	2	5	4	1	1	2	5	3	1	4	1	6	3	3	3	3	
ARC	5	6	1	5	6	6	1	4	6	6	5	1	7	1	1	7	6	1	DK	2	3	2	2	2	1	5	5	1	5	1	
ARC	1	2	7	2	4	2	4	4	3	3	3	3	7	2	2	2	7	1	1	2	1	1	1	1	5	3	2	3	2		
ARC	5	2	5	6	3	5	2	6	7	7	4	4	6	1	1	6	2	1	DK	2	1	2	2	1	5	3	3	3	3		
ARC	1	2	5	6	2	1	4	5	5	7	2	1	5	1	2	6	5	1	2	2	1	2	1	1	5	2	5	2	5		
ARC	3	4	6	4	4	4	4	4	5	7	3	4	5	1	4	6	5	1	1	2	4	2	1	2	1	5	5	3	5	3	
ARC	5	5	4	3	4	6	1	3	5	7	4	5	6	1	6	7	2	1	1	2	1	2	1	1	5	2	2	2	2		
ARC	6	6	6	6	6	6	5	5	7	7	7	4	7	1	5	7	4	1	1	2	6	1	5	1	5	8	1	8	1		
ARC	1	1	7	6	2	4	7	6	5	7	2	1	5	1	6	7	4	1	1	1	1	2	2	1	5	1	7	1	7		
ARC	5	4	2	4	5	5	3	3	7	7	4	4	6	1	6	7	4	1	1	1	1	1	2	1	1	5	6	2	6	2	
ARC	7	1	5	4	4	6	7	5	7	7	1	1	6	1	4	7	7	1	1	1	1	1	1	1	5	4	4	4	4		
ARC	3	5	5	5	3	5	5	5	6	7	3	2	6	1	2	6	6	1	1	1	3	1	2	4	1	5	4	2	4	2	
ARC	5	5	4	5	6	5	4	5	6	7	2	4	6	1	4	6	6	1	1	4	SS	6	DI	1	5	1	5	5	2	5	2
ARC	1	1	1	1	4	4	4	4	7	7	4	3	7	1	4	7	7	1	1	2	5	2	1	5	1	5	2	4	2	4	
ARC	1	1	7	6	1	1	7	6	6	6	4	4	6	1	2	3	5	1	1	1	1	1	2	2	1	5	5	3	5	3	
ARC	1	1	7	4	1	2	5	4	5	4	4	4	8	1	1	4	4	1	1	2	1	1	1	1	3	7	2	7	2		
ARC	6	6	3	7	5	5	1	6	6	6	5	2	2	1	5	5	5	1	1	1	1	1	1	2	1	5	4	7	4	7	
ARC	3	4	3	5	4	5	2	3	7	7	3	3	6	2	5	2	6	1	1	2	1	1	2	1	5	4	2	4	2		
ARC	5	5	7	7	5	5	7	4	7	7	4	4	6	1	4	7	4	1	1	2	1	1	2	1	5	1	3	1	3		
ARC	5	4	6	6	6	4	4	4	6	7	5	2	6	1	3	5	3	1	1	2	1	1	2	1	5	3	4	3	4		
ARC	7	5	6	4	5	4	6	7	6	6	5	2	6	1	5	5	4	1	1	2	2	2	1	2	7	6	2	6	2		
ARC	3	3	4	3	4	4	5	5	5	7	4	3	5	1	5	6	4	1	1	1	5	2	1	3	1	5	5	2	5	2	
ARC	6	5	1	2	2	3	6	5	4	7	2	1	6	1	2	2	6	1	1	1	5	1	1	3	1	5	3	3	3	3	
ARC	6	6	2	2	6	6	4	4	7	7	4	4	7	1	3	6	6	1	1	1	1	1	2	2	1	5	1	4	1	4	
ARC	6	5	1	5					7	7	2	2	8	2		5	6	1	DK	1	1	1	2	2	1	2	2	1	2	1	

ARC	4	4	5	6	7	7	1	2	7	7	7	7	7	2	7	6	3	1	1	2	1	2	1	1	5	4	2	4	2	
ARC	2	3	5	5	4	4	4	4	4	6	3	2	8	1	1	2	6	1	1	2	1	1	1	5	7	2	7	2		
ARC	2	2	2	4	3	3	3	5	6	6	4	4	6	1	2	6	4	1	1	2	1	2	2	1	5	3	3	3	3	
ARC	2	1	4	5	5	3	2	5	6	7	6	2	6	1	5	6	4	2	4	4	RC	4	2	2	2	6	6	1	6	1
ARC	4	3	5	3	1	2	2	3	7	7	3	3	3	1	6	6	2	1	1	1	1	1	2	3	1	5	6	2	6	2
ARC	5	4	5	7	4	3	4	6	4	4	4	4	4	2	2	6	4	2	DK	2	5	1	6	1	5	4	1	4	1	
AHI	6	3	5	6	6	5	3	6	7	7	4	2	9	1	1	7	6	2	1	4	3	2	3	1	5	6	3	6	3	
AHI	3	4	3	4	4	4	4	4	4	4	5	4	7	1	1	4	5	1	1	5	3	1	3	1	5	2	4	2	4	
AHI	6	6	2	2	6	2	2	6	5	7	4	2	8	1	1	2	7	1	2	5	1	2	3	1	5	3	3	3	3	
AHI	2	5	6	7	4	6	2	2	7	7	4	4	9	1	1	5	7	1	2	6	RG	2	2	1	5	2	6	2	6	
AHI	5	5	3	3	5	5	3	3	6	6	2	3	7	1	2	4	6	1	2	1	6	RP	1	5	1	5	3	3	3	3
AHI	4	2	3	4	3	2	4	4	6	6	3	3	7	1	1	2	7	1	1	2	1	1	1	1	5	4	3	4	3	
AHI	4	5	3	6	5	5	3	5	6	7	4	4	7	1	5	7	5	1	1	1	1	1	2	2	1	5	5	2	5	2
AHI	6	6	1	3	6	5	1	4	6	7	4	2	8	1	1	2	7	1	1	2	1	2	1	1	5	3	3	3	3	
AHI	1	7	1	3	1	2	3	5	7	7	6	7	4	1	1	7	5	1	2	1	1	2	2	1	5	2	6	2	6	
AHI	3	3	3	4	3	3	3	3	6	6	5	4	7	1	3	5	4	1	2	1	1	2	1	1	5	1	5	1	5	
AHI	6	6	3	5	2	3	5	5	7	7	3	2	8	1	3	6	6	1	1	1	1	1	2	1	5	3	6	3	6	
AHI	5	5	5	6	2	3	6	6	6	6	5	2	7	1	1	1	7	1	2	1	5	1	1	4	1	5	4	3	4	3
AHI	2	2	6	6	2	2	6	6	4	6	7	6	9	1	1	5	7	1	1	1	6	RG	2	2	1	5				
AHI	4	4	3	5	4	4	2	2	7	7	6	6	8	1	1	1	7	1	1	1	5	1	1	4	1	5	2	6	2	6
AHI	4	4	4	4	6	6	3	3	6	7	7	5	9	5	4	7	7	1	2	1	1	2	2	1	5	4	4	4	4	
AHI	4	5	6	5	4	5	5	6	7	7	7	5	9	3	3	5	7	1	1	1	1	2	2	1	2	5	3	5	3	
AHI	1	1	5	6	6	4	5	3	6	7	3	2	8	1	4	7	4	1	1	1	1	2	2	1	5	2	3	2	3	
AHI	6	6	4	3	7	7	2	2	5	7	6	4	9	3	5	7	7	1	1	2	5	3	2	6	1	5	4	4	4	4
AHI	2	2	3	5	2	2	2	5	6	6	5	2	8	1	2	6	5	1	1	2	4	2	1	3		3	5	3	5	
AHI	1	1	7	7	3	6	1	3	7	7	3	2	9	1	1	5	3	1	2	2	1	2	2	2	5	1	4	1	4	
AHI	5	4	3	5	5	4	4	4	5	5	5	3	7	1	3	7	3	1	1	2	1	2	3	1	5	2	5	2	5	
AHI	6	5	4	4	5	6	4	6	6	6	5	3	8	3	2	4	6	1	3	2	1	2	1	5	2	6	2	6		
AHI	6	5	4	6	5	6	2	4	5	7	4	2	6	1	1	7	5	1	DK	2	1	2	2	1	5	1	3	1	3	
AHI	2	5	4	5	4	4	4	4	6	6	6	3	6	1	1	1	7	1	2	2	6	EM	2	6	1	5	1	4	EM	EM
AHI	3	6	3	3	3	3	2	3	6	5	6	3	8	1	4	6	3	2	1	2	3	1	3	1	5	4	2	4	2	
AHI	2	2	6	6	2	2	7	7	7	7	3	3	8	1	1	4	7	1	2	2	1	2	1	5	1	3	1	3		

AHI	5	5	3	3	6	6	3	3	6	7	6	2	8	3	4	5	5	1	1	1	1	1	1	1	1	1	5	1	5	1	5
AHI	6	5	5	3	5	5	6	6	2	6	3	2	9	1	1	6	5	1	2	1	5	2	1	4	1	6	3	5	3	5	
AHI	5	3	1	5	5	5	1	6	4	6	5	2	8	1	1	1	7	1	3	1	5	4	1	4	1	5	4	3	4	3	
AST	1	1	5	5	2	2	4	4	7	7	2	3	3	1	5	6	5	1	2	2	2	2	2	1	5	5	2	5	2		
AST	2	2	5	5	2	2	5	5	7	7	1	1	6	1	1	2	7	1	2	1	1	1	1	1	5	3	1	3	1		
AST	4	3	5	6	5	5	4	6	6	7	1	2	6	1	4	7	3	1	2	1	1	2	1	5	7	1	7	1			
AST	4	6	1	4	4	4	1	6	7	7	1	1	4	1	1	6	5	1	2	1	2	1	5	4	2	4	2				
AST	6	5	4	4	5	6	4	5	6	6	2	3	4	1	4	6	4	1	2	1	1	2	1	5	4	1	4	1			
AST	2	2	3	3	5	5	3	3	7	7	2	4	4	1	1	7	3	1	2	1	5	2	1	2	1	5	4	2	4	2	
AST	2	4	7	6	3	4	7	5	7	7	1	2	3	1	7	7	1	1	2	1	2	2	1	5	5	1	5	1			
AST	5	6	2	5	5	6	5	6	7	7	2	2	4	1	2	6	6	1	2	1	2	1	5	4	3	4	3				
AST	4	4	2	3	5	5	1	2	6	7	1	2	4	1	3	7	5	1	2	1	2	2	1	5	4	1	4	1			
AST	6	5	1	6	2	4	1	5	6	7	1	1	4	1	1	6	2	1	2	1	6	RP	2	3	1	2	4	2	4	2	
AST	4	4	3	5	4	5	3	5	5	6	2	3	3	1	1	5	7	1	2	1	5	2	1	3	1	5	4	2	4	2	
AST	5	4	3	5	6	5	4	5	7	7	2	2	5	1	2	4	6	1	3	1	1	1	1	5	4	1	4	1			
AST	3	4	2	5	4	5	3	5	7	7	1	1	4	1	4	4	7	1	1	1	2	2	2	2	6	4	3	4	3		
AST	7	3	6	6	3	4	6	6	7	7	3	3	3	3	4	6	6	1	1	1	2	1	1	2	5	8	2	8	2		
AST	5	6	4	6	2	7	4	1	4	4	4	4	4	1	4	1	7	1	2	1	2	2	1	2	5	4	5	4			
AST	4	6	2	3	7	7	1	1	7	2	5	4	7	5	2	1	7	1	1	1	5	2	2	2	1	2	3	2	3	2	
AST	5	4	4	6					7	7	4	4	5	2		7	2	1	1	1	3	DK	1	3	1	5	5	1	5	1	
AST	6	6	2	2	6	6	2	2	7	7	1	1	4	1	1	5	5	1	1	1	3	3	1	5	1	5	6	2	6	2	
AST	5	5	5	5	6	6	2	3	5	5	3	4	4	1	4	7	2	1	1	2	2	2	1	5	4	3	4	3			
AST	2	4	2	6	2	3	2	6	7	7	2	3	4	2	2	2	5	1	1	1	1	1	1	1	5	4	4	4	4		
AST	5	2	7	6	4	3	5	7	7	7	2	2	4	1	2	5	5	1	2	1	6	AD	1	2	1	5	4	1	4	1	
AST	5	3	2	4	5	5	2	3	5	5	2	3	4	2	3	5	3	1	1	1	4	3	1	2	1	5	4	2	4	2	
AST	3	1	6	6	3	2	5	7	6	7	2	3	4	1	1	6	4	1	2	1	1	1	1	1	5	5	3	5	3		
AST	6	6	2	5	6	6	3	6	6	7	2	3	4	1	3	6	4	1	1	1	1	1	2	1	5	3	2	3	2		
AST	3	4	2	4	4	4	3	6	7	7	2	2	4	4	1	1	7	1	1	1	1	1	1	1	5	4	1	4	1		
AST	4	5	3	4	4	5	3	3	6	5	2	2	3	1	1	4	5	1	1	1	5	3	1	4	1	5	5	3	5	3	
AST	5	5	4	6	6	5	6	6	6	6	1	1	6	1	4	6	6	1	1	1	3	3	1	3	1	5	3	3	3	3	
AST	2	2	6	7	5	5	3	3	7	7	1	1	4	1	2	7	3	1	1	1	2	1	2	1	5	5	2	5	2		
AST	5	5	3	7	6	6	2	4	6	6	3	4	4	2	6	5	5	1	1	1	2	2	1	1	5	5	1	5	1		

AST	2	2	5	5	4	4	4	4	7	5	4	4	3	1	1	6	5	1	1	1	3	2	2	2	1	5	5	1	5	1	
AST	5	5	2	2	6	5	2	2	4	6	4	6	4	1	2	5	5	1	2	1	1		2	1	1	5	4	2	4	2	
AST	4	3	5	6	5	5	3	4	6	6	1	3	4	1	4	7	4	1	1	1	1		1	2	1	5	5	1	5	1	
AST	5	6	1	5	5	5	4	2	7	7	1	1	5	1	1	1	7	1	1	1	2		1	2	1	2	5	3	5	3	
AST	5	3	2	5	5	6	5	6	5	7	3	2	5	3	2	2	6	1	2	1	1		1	1	1	5	5	1	5	1	
AST	6	4	4	3	2	4	6	6	5	7	1	1	3	1	2	5	4	1	1	1	2		1	2	1	5	4	1	4	1	
BCH	6	5	5	6	5	5	2	6	7	7	1	1	6	1	1	1	4	1	1	2	5	2	1	4	1	5	6	2	6	2	
BCH	6	6	1	1	6	6	1	1	7	7	1	1	4	1	1	5	6	1	1	2	5	4	1	4	1	5	5	2	5	2	
BCH	5	4	4	6	3	4	3	6	6	6	4	4	1	2	4	7	3	1	2	2	1		1	1	1	5	6	7	6	7	
BCH	2	4	1	3	2	2	7	7	6	7	3	3	3	1	5	3	4	1	1	2	1		2	1	1	5	4	1	4	1	
BCH	1	1	5	3	1	1	7	6	5	7	3	4	6	1	1	1	7	1	2	2	4	3	1	3	1	6	5	3	5	3	
BCH	5	5	4	4	5	4	5	5	5	7	1	1	4	1	6	7	2	1	1	2	1		2	2	1	5	5	2	5	2	
BCH	3	3	4	4	4	3	2	4	5	6	2	2	6	3	2	2	5	1	2	2	6	EM		1	6	1	5	5	2	EM	EM
BCH	6	6	2	6	7	5	2	5	7	7	1	1	5	1	1	1	7	1	1	2	2		1	2	1	2	6	1	6	1	
BCH	5	3	6	7	6	5	5	5	5	7	2	5	4	1	1	1	7	1	1	2	1		1	1	1	5	6	1	6	1	
BCH	5	7	1	2	5	5	3	3	6	7	6	5	3	1	1	6	7	1	1	2	2		1	2	1	2	6	8	6	8	
BCH	3	3	5	6	5	3	3	6	6	6	2	3	3	1	1	2	5	1	2	2	1		1	1	1	5	5	2	5	2	
BCH	5	5	5	6	3	5	5	4	6	6	6	5	3	1	1	1	7	1	1	2	1		1	1	1	2	5	1	5	1	
BCH	5	4	2	4	3	3	3	4	6	6	1	1	5	1	4	1	6	1	1	2	1		1	1	1	5	5	2	5	2	
BCH	6	6	2	2	6	6	2	2	6	6	2	2	6	2	2	2	6	1	2	1	5	3	1	4	1	5	4	2	4	2	
BCH	3	5	5	5	2	4	4	6	5	5	4	3	3	2	6	5	2	1	2	1	1		2	2	1	5	5	1	5	1	
BCH	5	5	4	5	5	5	5	5	6	6	4	4	6	1	1	4	6	1	1	1	5	3	1	6	1	5	4	3	4	3	
BCH	1	1	4	5	5	4	3	2	6	7	5	5	5	1	1	7	6	1	3	1	5	3	1	6	1	5	6	3	6	3	
BCH	6	5	1	6	6	6	1	6	7	7	2	2	5	1	4	5	7	1	1	1	5	4	1	5	1	5	5	1	5	1	
BCH	1	7	3	3	1	1	1	3	7	6	5	4	3	1	1	7	4	1	3	1	5	3	1	6	1	5	5	2	5	2	
BCH	6	5	5	5	4	5	5	7	5	6	1	1	6	1	1	3	7	1	2	1	1		1	1	1	5	5	1	5	1	
BCH	7	6	7	4	1	6	4	3	7	7	7	7	4	2	1	7	7	1	2	2	2		1	2	1	2	6	8	6	8	
BCH	7	7	7	7	7	7	7	7	7	7	7	7	6	7	1	7	7	1	3	2	2		1	2	1	3	5	2	5	2	
BCH	4	5	5	5					6	6	2	1	3	6	6	6	2	1	1	2	1		2	1	1	5	4	1	4	1	
BCH	6	3	5	5	5	5	2	5	6	5	2	1	3	1	4	5	5	2	2	2	2		1	2	1	5	7	1	7	1	
BCH	5	4	2	2	3	4	4	5	6	6	3	3	3	2	5	3	5	1	1	1	2		1	2	1	5	6	1	6	1	
BCH	6	6	2	1	5	6	3	3	6	5	2	2	5	2	4	3	7	1	1	1	1		2	1	1	7	6	2	6	2	

BCH	1	1	1	3	3	1	2	7	7	7	1	1	6	7	4	2	7	1	2	1	1	2	1	1	5	5	2	5	2			
BCH	4	5	5	6	3	4	2	3	7	7	3	3	6	1	1	7	5	1	2	1	2	1	2	1	5	6	2	6	2			
BCH	7	7	1	1	7	7	1	2	7	7	4	1	1	7	7	7	4	1	DK	1	6	EM	1	6	1	5	6	1	EM	EM		
CHE	6	5	4	6	7	6	3	3	7	7	6	6	6	2	6	6	3	1	1	1	5	4	1	5	1	5	5	3	5	3		
CHE	6	7	2	2	6	6	3	3	4	7	1	2	4	1	5	6	1	1	3	2	1	2	1	1	5	7	2	7	2			
CHE	5	4	5	4	5	5	6	6	7	7	4	5	5	5	1	5	7	1	1	2	1	2	1	1	2	6	1	6	1			
CHE	4	4	4	6	5	5	3	5	6	6	3	2	3	1	4	6	3	1	1	1	5	5	1	6	1	5	6	2	6	2		
CHE	1	3	3	3	3	3	1	3	7	6	1	1	5	2	2	2	5	1	1	2	1	2	1	1	5	6	1	6	1			
CHE	3	3	5	5	6	5	4	4	7	7	2	2	5	1	6	7	2	1	1	2	1	1	1	5	6	1	6	1				
CHE	5	2	5	3	5	2	6	6	7	7	2	3	4	2	3	2	6	1	1	2	1	1	1	5	5	1	5	1				
CHE	2	3	5	6	4	4	4	4	7	7	2	2	4	1	4	4	5	2	DK	1	3	DK	2	2	1	5	3	4	3	4		
CHE	5	4	2	5	6	5	2	5	6	7	3	3	4	1	1	1	4	1	1	2	5	2	1	3	1	5	5	2	5	2		
CHE	5	6	3	3	5	6	2	3	7	7	5	3	4	1	3	6	3	1	1	1	5	2	2	4	1	5	6	2	6	2		
CHE	2	5	6	6	4	5	4	3	7	7	2	2	5	1	5	6	5	1	2	2	1	2	2	1	3	5	2	5	2			
CHE	4	4	5	6	4	4	4	6	7	7	2	2	4	2	3	6	3	1	1	2	5	8	1	4	1	5	5	2	5	2		
CHE	5	5	3	3	5	5	3	4	4	6	2	3	4	2	2	6	4	1	2	2	5	4	1	2	1	5	5	1	5	1		
CHE	7	1	7	7	7	1	7	7	6	6	6	6	3	1	1	5	7	1	2	2	2	1	1	1	2	6	7	6	7			
CHE	2	2	5	6	5	6	6	6	1	4	1	1	3	1	5	5	4	1	3	2	1	2	2	1	5	6	2	6	2			
CHE	5	3	7	6	3	3	6	6	6	6	2	2	5	4	5	6	5	1	1	2	1	1	1	5	4	1	4	1				
CHE	6	7	6	6	7	7	6	6	7	7	4	4	4	1	1	1	7	1	1	2	2	1	2	1	6	6	1	6	1			
CHE	4	5	3	5	6	6	1	6	4	6	1	2	5	1	6	5	4	1	1	2	1	2	1	5	5	1	5	1				
CHE	6	6	3	2	6	6	2	3	6	6	2	2	6	6	6	6	2	1	2	2	6	DE	2	2	1	5	5	2	5	2		
CHE	3	5	4	5	5	4	3	6	7	7	2	2	4	3	7	7	4	1	1	1	1	2	1	1	5	7	1	7	1			
CHE	4	4	6	7	4	4	6	7	7	7	4	6	2	1	1	4	4	1	1	1	2	1	2	1	2	7	3	7	3			
CHE	1	2	7	7	3	6	4	3	5	6	2	3	4	1	2	3	6	1	1	1	1	1	1	1	6	8	2	8	2			
CHE	5	4	3	2	4	4	4	4	6	6	2	2	5	2	5	6	5	1	1	1	1	2	1	1	5	6	1	6	1			
CHE	7	6	3	2	2	2	5	5	7	7	1	1	6	1	2	6	7	1	1	1	1	1	1	1	5	5	1	5	1			
CHE	5	6	4	5	6	6	3	4	7	7	3	3	4	1	1	5	3	1	1	1	1	1	1	1	5	5	2	5	2			
CHE	6	4	3	5	3	4	5	5	7	7	5	5	5	4	4	2	7	1	1	1	1	1	1	1	2	6	6	6	6			
CHE	3	5	7	7	6	5	6	7	5	7	1	3	5	1	6	7	6	1	DK	1	1	2	1	1	5	6	1	6	1			
CHE	5	3	1	3	6	5	3	4	6	6	3	4	6	1	2	1	7	1	1	1	1	1	1	1	5	6	1	6	1			
CHE	6	4	4	5							5	5	1	1	4	1	5	5	4	1	1	2	5	4	1	2	1	5	4	2	4	2



CHE	5	5	2	3	5	5	2	3	7	7	3	2	5	1	2	2	6	1	1	1	2	1	2	1	5	4	1	4	1	
CHE	5	4	2	6	5	4	2	5	4	7	3	3	6	1	1	4	6	1	2	1	1	2	1	1	7	6	1	6	1	
CHE	4	4	5	5	3	3	5	5	7	7	2	2	5	2	2	5	5	1	2	1	1	2	1	1	5	7	1	7	1	
CHE	7	4	7	7	4	4	7	7	3	7	5	6	2	1	7	7	7	1	1	1	2	1	1	1	2	7	1	7	1	
CHE	4	5	3	5	4	5	2	4	5	7	2	3	4	3	5	5	4	1	2	1	1	2	1	1	5	8	1	8	1	
CHE	3	6	1	6	3	6	1	6	7	7	2	2	4	1	2	5	5	1	1	2	1	1	1	1	5	8	8	8	8	
CHE	7	5	5	6	5	5	3	5	7	7	1	2	5	7	2	7	5	1	1	1	1	1	1	2	1	1	1	6	1	
CHE	2	3	5	5	2	2	6	6	7	7	3	4	5	1	2	6	5	1	2	1	3	DK	2	2	1	5	4	2	4	2
CHE	4	4	4	4	6	5	4	6	7	7	1	2	6	1	3	4	4	1	2	1	1	1	1	2	1	1	6	1		
CHE	6	6	3	3	6	6	5	4	7	6	2	2	5	1	4	6	4	1	1	2	1	1	1	2	1	1	6	1		
CHE	7	3	2	5	7	6	1	4	6	7	2	2	3	3	5	7	2	1	2	2	1	1	1	1	5	5	1	5	1	
CHE	6	5	2	3	5	6	3	2	7	7	4	4	5	1	5	7	6	1	2	2	4	3	2	2	5	8	2	8	2	
CHE	2	2	6	2	5	5	4	4	7	7	1	1	6	1	1	3	5	1	3	2	1	1	1	1	5	6	1	6	1	
CHE	5	4	7	7	5	4	6	6	7	7	1	2	5	6	5	6	5	1	4	2	1	1	1	2	7	1	7	1		
CHE	2	2	2	2	3	3	5	5	5	5	2	2	4	1	1	4	5	1	2	2	1	1	1	1	7	7	1	7	1	
CHE	4	6	2	3	4	4	3	4	7	7	1	3	4	1	2	7	2	1	3	2	1	1	1	5	7	1	7	1		
CHE	3	3	3	3	3	3	3	3	5	5	5	5	5	4	4	4	4	1	2	2	2	2	2	2	7	1	7	1		
CHE	3	4	6	4	6	5	4	4	6	6	4	4	7	2	5	7	4	1	1	1	1	1	1	5	5	1	5	1		
CHE	4	4	5	5	6	6	2	4	7	7	2	2	4	1	7	6	5	1	1	1	1	1	1	5	5	2	5	2		
CHE	3	4	5	4	5	5	3	6	6	5	2	2	3	5	6	5	6	1	1	1	1	1	1	7	4	2	4	2		
CHE	5	3	4	5	5	4	5	6	6	6	4	4	3	3	5	5	5	1	1	1	1	1	1	6	6	1	6	1		
CHE	1	2	6	5	3	3	5	4	4	7	1	1	4	5	7	7	1	1	1	1	1	1	1	5	7	4	7	4		
CHE	3	3	5	5	3	3	5	5	6	6	3	4	3	1	2	3	5	1	1	1	1	1	1	5	4	2	4	2		
CHE	6	5	4	5	5	4	5	5	7	7	1	1	3	2	4	5	4	1	1	1	1	1	1	5	6	5	6	5		
CHE	3	4	5	5	5	5	4	4	7	7	2	1	5	2	4	5	5	1	1	1	1	1	1	5	5	2	5	2		
CHE	5	5	4	4	6	6	4	5	6	7	1	5	4	2	5	6	6	1	1	1	1	1	1	5	3	2	3	2		
CHE	4	3	4	6	4	3	5	4	6	6	2	2	4	3	4	6	2	1	1	1	1	1	1	2	8	2	8	2		
CHE	3	5	3	5	6	6	2	3	7	7	2	2	4	1	3	2	5	1	1	1	1	1	1	5	5	4	5	4		
CHE	3	3	4	3	6	6	4	4	6	6	6	6	4	1	4	6	3	1	1	1	1	1	1	5	7	2	7	2		
CHE	3	3	5	6	4	4	4	4	7	7	2	4	5	1	2	7	4	1	1	1	1	1	1	5	7	2	7	2		
CHE	5	7	3	5	6	5	4	6	6	7	2	3	4	2	3	7	3	1	1	1	1	1	1	5	7	1	7	1		
CHE	6	7	5	3	6	6	4	5	6	6	2	3	6	6	5	7	4	1	1	1	1	1	1	2	6	2	6	2		

CHE	5	4	5	5	3	4	6	2	5	6	2	2	5	1	1	1	7	1	1	1	1	1	1	1	1	5	5	3	5	3						
CHE	4	6	2	4	5	4	2	4	7	7	5	6	4	3	4	1	2	1	1	1	1	1	1	1	1	1	5	5	1	5	1					
CHE	5	4	2	3	2	2	4	5	7	7	3	3	4	1	2	2	7	1	1	1	1	1	1	1	1	2	1	1	3	4	2	4	2			
CHE	4	4	3	5	6	6	2	3	6	7	1	2	5	2	5	6	3	1	1	1	1	1	1	1	1	1	1	1	5	8	1	8	1			
CHE	5	5	4	7	5	5	2	7	7	6	3	3	5	1	6	7	1	1	1	1	1	1	1	1	1	2	1	1	5	6	1	6	1			
CHE	1	5	5	7	2	5	2	6	6	7	2	1	5	1	3	5	6	1	1	1	1	1	1	1	1	2	1	2	5	7	1	7	1			
CHE	5	5	3	5	3	5	4	5	6	6	2	3	4	1	3	6	6	1	1	1	1	1	1	1	1	1	1	1	5	5	1	5	1			
CHE	5	3	6	7	5	6	3	7	6	7	1	1	3	2	5	3	3	1	1	1	1	1	1	1	1	1	1	1	5	6	1	6	1			
CHE	5	5	1	4	6	6	1	3	7	7	1	3	4	2	4	5	4	1	2	1	1	1	1	1	1	2	1	1	5	6	2	6	2			
CHE	3	5	5	3	4	4	4	4	1	7	1	1	6	1	1	7	2	1	1	1	1	1	1	1	1	2	1	2	6	4	1	4	1			
CHE	4	3	5	5	6	3	5	3	7	7	1	1	4	1	5	1	6	1	2	1	1	1	1	1	1	1	1	1	5	4	1	4	1			
CHE	7	7	4	5	7	7	5	5	7	7	1	1	5	6	6	6	6	6	1	1	1	1	1	1	1	2	1	1	2	5	2	5	2			
CHE	5	5	2	3	5	5	3	3	7	7	1	1	4	2	5	2	1	1	1	1	1	1	1	1	1	1	1	1	5	4	1	4	1			
CHE	6	6	2	2	6	6	2	2	7	4	1	1	3	2	2	2	5	1	1	1	1	1	1	1	1	1	1	1	1	6	4	1	4	1		
CHE	6	5	3	5	6	5	3	3	6	7	3	5	4	1	2	5	4	1	1	1	1	1	1	1	4	4	1	2	1	5	5	2	5	2		
CHE	4	4	4	5	4	4	5	5	6	7	2	2	4	1	4	6	6	1	2	1	1	1	1	1	1	2	1	1	5	6	2	6	2			
CHE	3	3	7	7	3	3	7	7	7	7	4	4	6	1	1	6	7	1	2	1	1	1	1	2	2	2	2	1	5	5	1	5	1			
CHE	4	5	2	5	4	4	1	4	7	6	1	2	5	2	2	5	4	1	2	1	1	1	1	1	1	1	2	2	1	5	6	1	6	1		
CHE	6	5	3	4	6	5	5	5	6	6	2	2	3	1	5	5	3	1	2	1	1	1	1	2	2	1	1	1	5	7	1	7	1			
CHE	2	2	4	6	4	2	1	4	7	7	2	2	4	1	3	3	5	1	2	1	1	1	1	1	1	2	1	1	5	5	1	5	1			
CHE	3	2	5	6	5	5	3	5	7	7	3	3	5	1	5	6	3	1	2	1	1	1	1	1	1	1	1	1	5	7	1	7	1			
CHE	4	4	3	5	6	5	1	3	6	5	2	2	3	1	3	5	3	1	1	1	1	1	1	1	1	1	1	1	5	6	1	6	1			
CLA	4	5	5	6	4	4	5	7	7	7	4	2	5	1	1	5	7	1	1	1	1	1	1	1	1	1	1	1	1	5	4	4	4	4		
CLA	5	5	2	3	5	5	2	5	6	6	2	2	5	2	2	2	6	2	3	2	5	1	1	1	5	1	6	1	5	4	2	4	2			
CLA	6	5	1	6	5	4	3	5	5	7	7	3	5	1	4	7	3	2	2	2	3	3	3	3	3	3	DK	2	1	1	5	5	4	5	4	
CLA	5	5	2	4	4	5	5	3	6	6	5	5	6	1	2	5	5	1	2	1	1	1	1	1	1	1	2	1	1	5	1	4	1	4		
CLA	5	5	3	5	5	5	4	5	6	6	5	4	7	2	4	6	5	2	2	2	5	5	5	5	5	5	2	4	1	5	6	1	6	1		
CLA	2	2	6	6	3	3	5	5	3	6	6	4	4	1	2	4	5	2	3	2	4	4	4	4	4	4	1	2	5	1	5	1				
CLA	7	7	1	6	7	7	1	6	7	7	6	3	6	1	1	6	6	1	1	1	5	5	5	5	5	5	1	1	4	1	5	4	3	4	3	
CLA	5	5	4	4	5	6	2	4	3	6	5	3	6	1	1	2	5	1	1	1	3	3	3	3	3	3	3	3	1	2	1	5	3	3	3	3
CLA	5	5	3	3	4	4	3	5	5	5	5	2	5	1	2	5	5	1	1	1	1	1	1	1	1	1	2	1	1	5	2	6	2	6	6	
CLA	4	5	2	6	3	6	2	5	6	6	5	2	6	1	2	5	5	1	1	1	5	5	5	5	5	5	2	1	5	7	2	7	2	2		

CLA	2	2	5	5	4	4	4	4	6	6	5	2	5	1	5	3	5	1	1	1	1	1	1	1	1	5	8	2	8	2	
CLA	4	4	3	6	5	5	5	7	4	7	4	7	5	1	3	5	3	1	DK	1	1	1	1	2	1	5	5	3	5	3	
CLA	5	6	1	3	5	6	1	3	7	7	7	7	6	1	1	2	6	1	1	1	5	1	1	4	1	5	4	3	4	3	
CLA	5	5	3	5	4	4	4	4	6	3	5	5	6	2	3	5	5	1	1	2	1	1	1	1	5	4	2	4	2		
CLA	7	7	4	6	5	5	7	5	7	7	4	3	5	1	1	7	6	1	1	2	1	1	1	1	5	1	5	1	5		
CLA	5	2	5	3	5	5	3	5	5	7	6	3	6	1	2	3	7	1	1	2	1	2	1	1	5	5	1	5	1		
CLA	6	6	1	4					3	5	5	4	6	1	1	7	5	1	1	2	5	2	1	3	1	5	4	3	4	3	
CLA	6	4	5	7	6	7	4	6	5	7	4	4	7	3	6	5	5	1	2	2	1	1	1	1	5	7	2	7	2		
CLA	2	2	5	5	2	2	6	6	7	7	7	7	7	4	2	2	2	6	1	3	2	1	1	1	2	2	2	2	2		
CLA	6	5	2	1	7	4	1	2	6	6	3	2	3	2	6	6	4	1	1	2	1	2	4	1	5	1	6	1	6		
CLA	1	4	2	3	4	5	2	3	5	6	6	3	5	1	2	5	6	2	2	2	5	1	4	1	7	4	2	4	2		
CLA	7	3	3	6	7	6	2	2	7	7	1	1	4	1	1	1	7	1	1	1	1	2	1	1	5	1	1	1	1		
CLA	4	7	3	5	6	5	3	5	7	7	6	6	7	1	4	5	6	1	2	1	5	2	1	5	1	5	3	4	3	4	
CLA	3	4	4	5	2	2	3	6	2	5	4	1	5	1	2	5	4	1	2	1	1	2	2	1	5	2	4	2	4		
COM	6	7	1	2	5	5	1	2	7	7	4	4	6	1	5	6	4	1	1	2	6	EM	1	6	1	5	1	5	EM	EM	
COM	6	6	3	3	5	5	3	3	4	6	6	6	7	6	4	4	6	1	1	2	1	1	1	1	2	3	4	3	4		
COM	5	3	5	3	3	3	5	5	6	7	4	3	4	1	4	2	4	1	1	2	1	2	2	1	5	1	6	1	6		
COM	2	2	6	7	6	2	2	6	7	7	6	5	6	1	1	2	7	1	1	2	1	1	1	1	5	6	2	6	2		
COM	4	3	3	5	4	5	3	3	6	6	3	3	4	1	2	4	5	1	1	2	5	2	1	5	1	5	4	2	4	2	
COM	2	2	5	5	2	2	3	4	5	6	6	4	7	1	1	3	7	1	2	1	4	DK	2	1	1	5	6	2	6	2	
COM	6	7	4	5	7	6	5	5	6	5	6	6	6	3	4	6	5	1	1	1	6	EM	1	6	1	5	7	2	EM	EM	
COM	6	4	2	5	5	2	2	5	7	7	7	7	7	1	1	2	7	1	1	2	3	DK	2	3	1	5	4	1	4	1	
COM	7	6	1	3	3	3	7	6	6	6	6	4	6	1	2	6	7	1	1	2	5	1	1	4	1	5	3	4	3	4	
COM	2	1	5	5	1	2	5	6	5	7	4	3	5	1	4	5	4	1	1	2	5	3	2	2	1	5	6	2	6	2	
COM	4	4	3	4	3	2	6	5	4	6	5	3	4	1	4	5	3	1	1	2	5	2	2	4	1	5	4	2	4	2	
COM	5	4	4	5	3	3	6	6	7	7	7	4	5	1	3	5	5	1	1	1	5	2	2	3	1	3	4	5	4	5	
COM	7	7	1	4	3	3	3	3	2	3	7	4	9	7	1	1	7	1	1	1	5	2	1	5	1	5	2	4	2	4	
COM	3	2	6	3	3	3	2	2	6	6	5	3	7	1	1	4	5	1	1	1	5	2	1	5	1	5	4	3	4	3	
COM	1	2	7	7	2	3	3	3	2	2	2	2	7	1	1	7	2	1	2	4	SR	5	2	1	5	1	5	4	2	4	2
COM	3	2	6	7	2	3	6	5	6	5	3	3	6	1	2	4	6	1	1	1	4	2	1	2	1	5	3	4	3	4	
COM	2	2	5	3	3	5	3	3	6	6	5	5	5	2	2	3	5	1	1	1	4	2	2	3	1	5	2	4	2	4	
COM	3	5	5	5	3	5	5	5	5	6	3	4	7	1	3	2	6	1	2	1	5	2	1	5	1	5	2	3	2	3	

COM	3	5	3	5	3	5	5	6	6	6	6	6	6	2	2	6	6	1	1	2	3	2	2	5	1	6	5	2	5	2
COM	2	2	7	7	3	2	5	4	7	7	7	7	7	1	5	6	5	1	1	1	1	2	1	1	3	4	3	4	3	
COM	2	3	4	2	4	4	4	4	3	6	4	4	3	1	2	7	3	1	1	2	6	RP	1	4	1	5	2	6	2	6
COM	4	5	3	3	7	6	3	4	7	7	6	5	10	1	2	7	1	1	2	1	5	2	1	6	1	5	3	3	3	3
COM	1	4	1	4	1	4	1	4	7	7	5	5	6	1	5	5	6	1	2	1	6	EM	2	6	1	5	1	3	EM	EM
COM	6	4	6	7	6	4	6	7	7	7	5	4	6	1	2	7	3	1	1	2	2	1	2	1	5	4	2	4	2	
COM	6	6	2	7	6	5	3	6	7	7	5	4	8	1	5	7	5	1	1	1	1	2	2	1	5	6	3	6	3	
COM	1	2	5	5	1	2	5	6	6	7	6	5	7	2	4	6	2	1	1	1	1	2	1	1	5	5	4	5	4	
COM	7	5	4	5	6	5	4	6	6	7	4	6	6	1	2	6	2	1	1	2	1	2	2	1	5	1	7	1	7	
COM	2	4	6	6	2	2	4	6	3	7	5	3	8	1	1	7	1	1	1	2	1	2	1	1	5	2	3	2	3	
COM	1	1	4	7	1	1	4	7	6	5	4	4	4	1	2	5	5	1	DK	2	1	2	2	1	2	4	4	4	4	
COM	5	3	3	3	5	5	3	3	6	6	3	3	7	2	2	6	5	1	1	1	1	1	1	4	1	5	3	5	3	5
COM	5	5	2	2	5	5	2	2	6	6	3	1	7	4	4	6	2	1	2	1	1	2	3	1	5	1	1	1	1	1
COM	1	1	7	7	7	1	7	1	6	7	7	4	8	1	1	7	4	1	1	2	1	2	2	1	5	1	3	1	3	
COM	2	2	5	6	2	2	5	6	5	5	2	2	6	1	2	7	5	1	1	1	5	2	1	3	2	5	4	2	4	2
COM	4	4	3	5	5	5	2	2	7	7	6	4	8	1	2	7	5	1	1	1	1	2	1	1	5	4	6	4	6	
COM	6	3	5	5	2	2	6	5	6	7	6	6	7	1	1	6	5	1	1	2	5	1	1	5	1	5	4	3	4	3
COM	2	5	7	7	2	2	3	5	4	6	5	3	7	1	4	7	4	1	1	2	1	2	1	1	2	2	3	2	3	
COM	6	6	2	5	6	5	5	5	7	7	4	3	7	1	1	7	5	1	2	1	5	2	1	5	1	5	4	4	4	4
COM	6	6	6	6	6	6	6	6	7	7	7	6	8	1	1	6	1	1	1	2	1	2	2	1	2	3	5	3	5	
COM	7	6	2	3	7	6	4	2	5	7	3	2	6	1	1	7	1	1	1	4	R1	1	2	2	1	6	3	4	3	4
COM	2	2	2	6	2	2	5	2	2	4	7	5	8	2	2	7	5	1	2	2	5	2	1	5	2	6	3	3	3	3
COM	5	4	5	5	5	5	5	5	6	6	6	7	5	1	2	7	2	1	1	3	1	2	1	1	2	3	3	3	3	3
COM	6	6	1	4	5	6	1	6	6	6	7	6	6	2	2	6	2	1	1	2	3	1	2	4	1	5	2	4	2	4
COM	2	6	2	2	3	6	2	2	6	6	4	4	8	1	1	7	1	1	1	2	5	1	2	5	2	5	4	4	4	4
CLI	3	3	3	5	5	5	2	5	6	7	6	4	7	1	3	5	6	1	1	2	1	2	2	1	5	1	3	1	3	
CLI	4	5	2	4	5	5	3	4	2	6	5	5	6	1	1	1	7	1	1	2	6	EM	1	6	1	5	2	5	EM	EM
CLI	5	7	7	4	4	4	1	1	6	6	6	6	7	1	7	1	6	1	4	2	3	3	1	3	1	6	6	6	6	6
CLI	2	5	2	4	3	5	1	3	4	6	3	6	6	1	1	2	6	1	1	2	5	2	1	3	1	5	5	3	5	3
CLI	4	5	4	4	3	4	5	5	6	5	6	2	7	1	3	6	6	1	2	2	5	2	1	4	1	6	4	4	4	4
CLI	6	6	1	4	4	2	4	2	6	5	6	6	8	3	1	4	6	1	2	2	3	3	2	6	1	5	2	5	2	5
CLI	4	4	4	5				4	7	5	7	2		7	7	1	7	1	2	2	1		2	2	1	6	1	5	1	5

CLI	4	4	5	2	4	4	4	3	7	7	7	7	8	1	1	1	7	1	2	2	1	1	2	1	6	5	3	5	3	
CLI	3	3	5	6	5	6	5	4	7	6	6	4	7	4	3	7	6	1	1	2	1	2	2	1	5	8	3	8	3	
CLI	2	2	2	3	2	2	2	3	7	7	1	1	7	1	2	2	7	1	1	2	1	2	2	1	5	7	1	7	1	
CLI	5	5	3	4	3	6	6	6	7	7	6	2	5	5	3	5	3	1	1	2	1	2	1	5	3	5	3	5		
CLI	5	5	2	3	5	5	2	3	7	7	7	4	6	1	3	5	5	1	1	2	1	2	1	5	1	6	1	6		
CLI	4	3	2	3	4	3	2	3	6	5	3	3	6	1	1	3	5	1	2	2	5	DK	2	3	1	5	5	2	5	2
CLI	1	2	7	6	2	2	5	4	6	6	6	5	5	1	3	4	5	1	1	2	1	2	2	1	5	2	4	2	4	
CLI	6	5	4	2	7	7	7	2	7	6	4	2	6	1	1	7	5	1	1	2	1	2	1	5	1	6	1	6		
CLI	6	6	2	5	5	5	4	5	6	6	6	5	9	1	2	5	6	1	2	2	6	CP	1	5	1	5	2	7	2	7
CLI	5	5	3	7	7	3	3	7	5	7	5	3	6	1	1	1	7	1	2	1	1	2	1	5	2	3	2	3		
CLI	4	3	5	5	5	5	4	4	5	7	4	2	6	1	2	2	6	1	1	1	1	2	1	5	3	5	3	5		
CLI	7	7	2	2					7	7	7	7	8	1		4	7	1	1	2	3	4	2	3	1	5	3	3	3	3
CLI	2	2	1	1	2	2	1	1	4	4	6	2	5	1	2	6	4	1	1	1	1	2	1	5	3	3	3	3	3	
CLI	6	5	2	5	5	4	4	4	4	5	2	2	8	1	1	2	7	1	1	1	1	2	1	2	2	6	2	6		
CLI	3	3	3	5	4	3	2	5	7	3	5	1	6	1	1	1	6	1	1	1	1	2	1	6	2	2	2	2	2	
CLI	6	5	3	4	5	5	3	4	6	6	4	2	6	2	1	4	6	1	1	1	1	2	1	5	4	4	4	4	4	
CLI	4	4	2	4	2	2	2	3	5	5	6	2	7	1	1	2	7	1	2	1	1	2	1	5	2	1	2	1	1	
CLI	4	5	5	5	2	2	7	5	6	5	4	3	7	1	2	3	7	1	2	1	1	2	1	5	2	2	2	2	2	
CLI	1	2	5	7	2	6	2	2	3	4	2	2	6	1	4	6	4	1	1	2	1	2	1	5	1	5	1	5	1	5
CLI	3	3	3	3	4	4	4	4	7	7	7	3	7	1	1	7	7	1	1	1	1	2	1	5	2	3	2	3	3	
CLI	4	5	6	6	5	4	4	6	5	7	5	6	8	1	2	4	6	1	2	1	1	2	1	5	1	5	1	5	1	5
CLI	5	5	3	2	5	5	1	2	7	7	5	4	7	1	2	5	6	1	1	1	1	2	1	6	3	4	3	4	4	
CLI	3	3	6	7	5	4	4	7	6	7	4	4	7	1	2	4	3	1	1	2	1	2	1	3	1	2	1	2	2	
CLI	7	7	1	1	5	5	1	1	6	5	7	2	5	1	1	4	6	1	1	2	1	2	1	5	3	4	3	4	4	
CLI	5	5	2	2	4	4	3	4	4	6	6	6	7	2	3	3	3	1	2	2	6	EM	1	6	1	5	1	5	EM	EM
CLI	4	5	3	6	5	4	3	6	5	6	5	4	8	1	2	3	6	1	1	1	1	2	1	5	2	3	2	3	3	
CLI	7	6	1	5	2	1	5	6	6	7	6	6	7	5	7	7	1	1	1	1	1	2	1	7	6	2	6	2	2	
CLI	5	4	3	3	6	6	2	2	7	5	4	3	6	1	2	5	5	1	1	1	5	2	1	4	1	5	2	6	2	6
CLI	6	7	3	3	5	5	1	4	2	7	5	2	5	3	5	6	3	1	1	1	1	2	1	5	3	7	3	7	7	
CLI	4	5	6	2	4	4	3	3	6	5	4	2	4	1	7	7	2	1	1	1	1	2	1	5	5	4	5	4	4	
CLI	5	4	6	6	7	5	3	4	7	7	7	3	7	1	1	3	7	1	2	1	3	2	1	1	2	1	6	1	6	6
CLI	4	5	2	5	6	5	2	6	5	6	6	3	7	1	2	3	7	1	1	1	6	EM	1	6	1	5	1	6	EM	EM

CLI	3	4	4	5	4	4	4	4	6	6	6	4	6	2	2	5	6	1	3	1	1	2	1	2	5	5	2	5	2	
CLI	6	3	6	4	5	5	3	4	7	6	6	6	7	1	2	4	6	1	1	1	1	1	1	1	5	3	3	3	3	
CLI	1	1	6	6	2	2	5	5	6	6	6	4	6	1	1	3	6	1	1	1	4	1	2	3	1	5	3	3	3	3
CLI	3	6	4	4	5	7	2	2	6	7	5	5	5	1	1	2	5	1	1	1	5	1	1	3	1	5	4	1	4	1
CSC	7	7	1	5	7	7	1	7	7	7	1	1	4	7	4	6	7	1	3	2	5	5	1	4	1	2	3	5	3	5
CSC	3	2	5	6	3	3	5	5	6	6	3	3	5	1	2	5	3	1	1	2	1	1	1	1	2	2	2	2	2	
CSC	1	1	7	7	5	4	3	5	6	5	2	3	2	1	6	7	2	1	1	2	6	RG	1	1	1	2	1	6	1	6
CSC	6	5	2	2	5	6	2	2	7	7	5	5	2	1	4	6	5	1	1	2	6	EM	1	6	1	5	1	1	EM	EM
CSC	5	5	3	4	3	3	5	5	5	5	3	2	2	1	2	3	5	1	1	2	1	1	1	2	5	1	7	1	7	
CSC	5	5	2	6	6	5	2	6	7	7	2	2	2	3	7	7	2	1	1	2	1	1	1	1	5	1	5	1	5	
CSC	5	5	3	3	5	5	3	4	5	5	5	5	2	1	4	5	2	1	1	2	1	1	1	2	3	5	3	5		
CSC	2	2	5	6	3	2	6	5	6	5	1	2	3	2	4	4	4	1	1	2	1	1	1	1	5	7	1	7	1	
CSC	3	5	3	6	4	3	4	5	7	6	2	4	1	1	1	6	4	1	1	2	1	1	1	1	5	5	2	5	2	
CSC	4	5	6	5	5	5	2	6	6	6	2	1	2	5	4	5	7	1	1	2	6	EM	1	5	1	5	1	4	EM	EM
CSC	2	2	5	3	2	2	6	3	6	6	2	2	4	2	5	5	5	1	1	2	1	1	1	1	2	5	2	5	2	
CSC	7	5	1	3	6	5	2	3	6	5	2	3	4	1	4	5	3	1	1	2	5	1	1	3	1	5	2	4	2	4
CSC	4	3	3	5	5	4	3	4	5	5	1	1	2	5	6	7	2	1	1	2	1	1	1	1	2	5	1	5	1	
CSC	2	2	1	1	3	3	1	3	5	6	1	3	2	1	1	5	3	1	1	1	5	3	1	1	5	5	3	5	3	
CSC	5	5	5	3	5	5	5	3	6	6	5	4	2	1	2	1	5	1	1	2	5	1	1	6	1	5	3	6	3	6
CSC	6	6	2	5	5	5	2	5	6	6	1	1	2	3	3	6	4	1	1	2	5	1	1	4	1	5	4	3	4	3
CSC	7	6	1	5	7	7	1	5	3	3	3	3	1	1	1	1	7	1	2	2	1	1	2	1	1	5	1	5	1	
CSC	7	5	4	6	7	5	5	6	7	7	1	1	1	7	6	6	4	1	1	2	1	1	3	1	3	3	2	3	2	
CSC	2	4	3	4	3	3	4	6	7	7	3	2	2	1	2	2	3	1	1	3	1	1	1	1	5	3	1	3	1	
CSC	6	7	5	5	5	3	5	7	6	7	5	4	4	7	7	6	4	1	1	2	1	1	1	1	2	5	4	5	4	
CSC	1	1	7	7	2	2	6	6	7	7	4	4	2	1	1	1	5	1	3	2	1	1	1	1	5	5	1	5	1	
CSC	2	3	6	5	6	3	3	5	4	4	3	3	3	1	2	1	7	1	1	2	1	1	1	1	2	3	1	3	1	
CSC	5	5	2	3	5	6	2	3	5	7	2	2	2	2	2	5	3	1	1	2	1	1	1	1	2	5	1	5	1	
CSC	5	5	3	3	3	5	4	5	6	6	6	6	3	2	4	3	5	1	1	1	1	1	1	1	2	5	3	5	3	
CSC	6	6	2	2	4	2	2	4	6	6	2	3	3	1	4	3	2	1	1	4	PU	1	1	2	1	5	1	5	1	5
CSC	1	3	3	5	6	4	4	4	6	5	4	3	3	1	4	6	2	1	1	2	5	2	1	2	1	5	4	3	4	3
CSC	4	3	4	5	5	4	3	4	5	5	6	6	3	1	3	3	5	1	1	2	1	1	1	1	2	3	5	3	5	
CSC	5	4	3	5	4	4	3	4	6	6	2	2	3	1	6	6	3	1	2	2	5	1	2	3	2	7	5	3	5	3

CSC	6	5	5	4	5	6	3	3	7	7	2	3	3	1	3	6	4	1	1	2	1	1	1	1	5	5	1	5	1	
CSC	7	7	1	1	6	6	2	2	7	7	2	2	2	4	4	4	4	1	2	2	5	1	1	4	1	5	4	1	4	1
CSC	3	4	4	6	4	4	4	4	7	7	2	2	3	1	1	5	4	1	3	2	1	1	1	1	5	5	1	5	1	
CSC	5	5	3	3	6	6	2	2	7	7	3	3	3	1	1	5	6	1	2	2	3	DK	1	5	1	5	1	3	1	3
CSC	3	5	1	3	4	4	2	4	6	5	2	1	2	1	4	6	1	1	2	2	5	1	2	5	1	5	6	3	6	3
CSC	7	6	3	6	7	4	7	5	3	4	4	4	4	1	1	1	4	2	DK	1	1	1	1	2	2	1	1	1	1	
CSC	3	3	1	5	4	4	4	1	6	6	2	2	3	2	5	6	2	1	2	1	5	2	1	5	1	5	4	3	4	3
CSC	6	4	2	4	6	5	3	2	6	6	2	2	2	1	2	5	6	1	1	1	5	2	1	4	1	5	5	2	5	2
CSC	3	3	5	3	4	4	5	4	6	6	2	2	2	1	2	2	5	1	1	1	2	1	2	1	5	5	3	5	3	
CSC	7	7	1	2	7	5	2	3	6	5	1	2	2	2	2	5	3	1	1	1	5	1	1	5	1	5	2	3	2	3
CSC	6	6	5	4	6	6	5	4	7	7	4	4	3	3	4	5	4	1	1	1	2	1	2	1	5	3	5	3	5	
CSC	5	5	2	4	5	5	3	4	6	6	2	2	2	4	4	4	4	1	2	1	1	1	1	1	5	4	1	4	1	
CSC	6	7	1	5	6	7	1	1	6	6	2	2	2	5	2	4	4	1	1	1	5	1	1	5	1	5	1	4	1	4
CSC	6	3	6	7	7	7	5	5	7	6	4	5	3	1	2	3	5	1	1	1	1	1	1	2	1	5	5	2	5	2
CSC	2	4	6	6	2	2	6	6	6	7	1	1	2	1	5	1	7	1	1	1	1	1	1	1	2	8	2	8	2	
CSC	3	6	5	4	4	4	4	4	6	4	2	2	4	4	4	5	4	2	2	2	1	1	1	1	5	6	2	6	2	
CSC	4	4	4	4	4	4	7	7	5	5	5	5	3	5	5	6	6	1	2	1	1	2	2	1	2	3	2	3	2	
CSC	3	2	3	5	2	5	2	2	7	7	4	3	1	3	5	7	1	1	3	2	5	1	1	4	1	5	6	1	6	1
CSC	3	4	5	6	3	4	4	6	7	6	5	5	2	4	5	5	3	1	1	2	1	1	1	2	5	2	5	2		
EAR	3	3	6	6	4	4	5	5	6	6	2	2	4	2	3	6	5	1	1	2	1	1	2	2	5	4	2	4	2	
EAR	3	2	6	4	3	2	6	4	6	5	2	2	5	2	4	4	5	1	1	2	1	1	2	1	5	8	1	8	1	
EAR	5	3	3	6	6	5	5	5	6	7	2	1	3	1	2	5	3	1	1	2	1	1	1	1	5	3	3	3	3	
EAR	2	2	2	5	2	2	6	6	6	6	2	2	5	1	1	1	6	1	1	2	1	1	1	1	5	4	1	4	1	
EAR	3	3	5	6	5	4	3	5	6	6	1	2	4	2	3	5	4	1	1	2	1	1	2	1	5	4	3	4	3	
EAR	2	3	3	5	2	2	3	5	4	6	2	2	5	1	3	4	7	1	1	2	1	2	1	1	5	5	1	5	1	
EAR	1	2	3	6	3	3	2	3	6	7	2	2	4	1	2	2	4	1	2	2	5	8	1	4	2	5	5	2	5	2
EAR	1	1	7	7	6	6	2	2	5	7	2	2	3	1	1	5	7	1	1	2	1	1	2	6	3	3	3	3	3	
EAR	6	6	2	4	4	5	3	4	7	7	2	2	4	1	1	3	6	1	1	2	1	1	1	1	5	5	2	5	2	
EAR	2	6	5	7	3	5	5	5	6	7	2	2	6	1	4	7	3	1	1	2	1	1	2	1	5	3	3	3	3	
EAR	5	3	7	7	7	4	7	7	7	7	4	1	5	2	1	5	4	1	2	1	6	EM	1	6	1	5	1	8	EM	EM
EAR	6	4	5	6	2	4	2	5	4	6	2	2	4	1	6	7	4	1	3	1	6	HE	1	6	1	5	5	1	5	1
EAR	4	4	4	6	2	2	2	6	5	5	2	2	3	1	1	5	4	1	2	1	4	5	2	2	1	5	4	1	4	1

EAR	6	7	4	4	6	6	2	3	5	7	3	3	4	1	1	1	7	1	3	1	5	4	1	5	1	1	7	2	7	2	
EAR	6	4	1	3	6	6	1	4	7	7	1	1	4	6	6	6	6	1	2	1	5	DK	1	6	1	5	6	2	6	2	
EAR	4	2	6	4	4	5	5	5	7	5	3	3	6	2	4	3	5	1	1	2	1		1	1	2	5	4	2	4	2	
EAR	3	5	1	3	4	3	1	5	7	7	3	3	4	2	4	6	6	1	1	2	1		1	2	1	5	4	1	4	1	
EAR	5	3	2	5	5	3	3	6	5	7	1	2	5	3	3	1	5	1	1	2	1		1	1	1	5	3	2	3	2	
EAR	5	4	6	6	5	5	5	5	7	7	3	3	4	1	3	6	6	1	1	2	1		1	1	1	5	4	2	4	2	
EAR	4	5	4	6	5	3	7	6	7	6	1	1	3	1	1	1	7	1	1	2	1		1	1	1	2	8	1	8	1	
EAR	5	5	5	3	5	5	5	3	7	7	2	2	6	1	2	5	3	1	2	2	4	3	1	2	1	5	6	2	6	2	
EAR	5	3	4	5	4	3	4	5	7	7	4	4	6	2	2	5	6	1	1	2	1		1	1	1	3	4	2	4	2	
EAR	5	4	3	4	6	5	3	4	7	6	1	2	7	2	2	3	6	1	1	2	1		2	1	1	5	6	1	6	1	
EAR	1	7	1	7	1	1	7	7	7	7	2	2	5	1	1	1	7	1	1	2	1		2	1	1	5	6	1	6	1	
EAR	4	4	1	5	4	5	2	6	4	6	1	4	6	5	2	6	7	1	1	2	2		1	2	1	2	5	1	5	1	
EAR	5	5	3	3	4	5	2	3	6	6	5	6	5	1	3	6	3	1	1	2	1		2	1	1	5	4	5	4	5	
EAR	6	5	4	4	5	5	4	4	4	4	3	2	4	2	2	5	5	1	2	1	5	6	1	3	1	5	5	3	5	3	
EAR	4	5	6	6	5	6	6	5	5	6	2	3	3	6	6	6	3	1	2	1	5	4	1	3	1	2	6	2	6	2	
EAR	6	6	5	6	4	6	6	7	6	6	2	3	4	6	1	6	4	1	2	1	3	4	1	3	1	2	5	1	5	1	
EAR	2	1	5	6	3	1	5	6	6	7	3	3	5	1	2	6	6	1	1	1	2		2	2	1	5	5	1	5	1	
EAR	1	1	7	7	2	2	6	6	3	7	1	1	4	1	1	1	6	1	1	3	3	2	1	4	1	5	6	1	6	1	
EAR	4	5	3	5	4	6	3	5	6	7	4	4	3	1	2	7	4	1	1	2	4	4	1	2	1	5	5	2	5	2	
EAR	2	4	6	4	2	3	5	4	7	7	3	3	5	4	3	3	6	1	1	1	1		2	1	1	2	8	3	8	3	
EAR	6	6	3	3	3	5	6	5	7	7	1	2	3	1	2	5	6	1	1	1	1		1	1	1	5	8	1	8	1	
EAR	6	6	1	2	6	6	2	4	7	7	1	1	5	4	4	4	6	1	1	1	5	2	1	5	1	5	6	2	6	2	
EAR	5	4	5	5	6	2	4	5	5	6	2	2	3	2	4	2	6	1	1	1	1		1	1	1	5	4	2	4	2	
EAR	6	5	4	5	6	4	1	7	6	6	1	1	5	1	4	6	7	1	1	1	1		1	1	1	5	6	2	6	2	
EAR	3	2	4	5	3	2	5	5	4	4	1	1	3	1	5	5	2	1	1	1	6	EM		1	6	1	5	1	1	EM	EM
EAR	7	6	3	4	7	6	4	3	6	7	3	2	5	2	3	2	7	1	1	1	5	4	1	4	1	5	5	2	5	2	
EAR	3	5	2	5	2	4	3	5	6	6	2	2	4	1	1	2	6	1	2	1	3	4	1	4	1	5	4	2	4	2	
EAR	6	3	5	4	5	6	5	5	5	7	2	3	3	1	3	7	4	1	1	1	1		1	1	1	5	5	1	5	1	
EAR	6	6	3	4	6	6	4	4	6	7	1	2	4	2	5	4	5	1	1	1	1		1	2	1	5	5	1	5	1	
EAR	6	3	3	5	6	3	3	5	7	6	2	2	5	1	3	5	5	1	1	1	1		1	1	1	5	3	4	3	4	
EAR	2	2	5	6	2	2	5	6	7	7	1	2	4	1	4	4	5	1	1	1	1		2	1	1	5	4	2	4	2	
EAR	3	5	7	4	2	4	6	5	7	7	2	3	5	1	3	5	6	1	1	1	1		1	1	1	5	5	3	5	3	



EAR	3	3	4	5	5	5	4	4	7	7	4	4	6	1	5	7	4	1	1	1	3	3	2	2	1	5	4	3	4	3
EAR	5	5	3	3	5	5	3	3	7	7	3	6	7	1	2	5	7	1	1	1	1		2	1	1	2	5	2	5	2
EAR	3	5	4	5	5	2	4	5	6	2	2	2	5	2	7	7	5	1	1	1	3	3	2	4	1	5	4	3	4	3
EAR	2	2	7	7	2	2	7	7	7	7	2	2	4	5	6	7	3	1	1	1	1		2	1	1	5	4	3	4	3
EAR	3	3	4	4	2	3	5	5	5	5	2	2	5	3	3	3	3	1	1	1	1		2	1	1	2	5	3	5	3
EAR	2	5	5	5	6	5	3	3	6	6	1	2	4	1	2	2	6	1	1	1	1		1	1	2	6	5	2	5	2
EAR	3	3	5	6	4	4	4	4	5	6	4	5	4	4	4	4	5	1	2	2	1		1	1	1	6	5	1	5	1
EAR	3	5	4	4	3	4	4	5	7	7	2	4	4	1	3	6	5	1	3	2	1		2	1	1	5	7	1	7	1
EAR	4	3	6	4	5	4	6	5	7	7	5	5	6	1	4	5	5	1	2	2	1		2	1	1	5	8	1	8	1
ECO	4	4	3	6	4	4	2	4	7	7	4	3	4	2	2	5	6	1	2	1	1		1	1	1	5	2	3	2	3
ECO	2	5	4	4	3	3	5	5	7	7	4	3	4	2	2	6	4	1	1	2	1		2	1	1	5	6	2	6	2
ECO	4	6	2	3	6	6	2	2	6	7	2	2	2	1	2	5	6	1	1	2	5	2	1	5	1	5	5	3	5	3
ECO	3	6	2	4	5	6	2	4	6	6	4	4	4	5	5	5	4	1	1	2	5	3	1	6	1	5	5	3	5	3
ECO	6	5	3	2	4	6	1	2	5	7	2	2	3	2	2	2	6	1	1	2	1		1	2	1	5	4	2	4	2
ECO	4	4	4	4	4	4	4	4	5	5	2	2	3	1	4	2	2	1	1	2	1		1	1	1	5	7	1	7	1
ECO	2	2	5	5	2	2	5	5	6	6	3	4	4	1	5	5	4	1	1	2	1		1	1	2	5	5	2	5	2
ECO	4	4	6	5	4	4	6	5	7	7	7	7	4	3	6	1	7	1	3	1	1		1	1	2	5	3	3	3	3
ECO	6	5	1	3	5	6	2	5	5	5	3	3	3	1	2	3	5	1	1	2	1		1	2	1	5	4	2	4	2
ECO	5	4	4	5	5	4	3	5	4	4	4	4	3	1	1	7	2	1	1	2	1		2	1	1	5	2	8	2	8
ECO	5	5	2	6	5	4	3	5	4	6	4	4	4	5	5	5	4	1	1	2	1		1	1	1	5	4	1	4	1
ECO	5	5	1	4	5	5	1	5	6	7	4	2	4	1	3	6	6	1	1	2	5	2	1	6	1	5	5	2	5	2
ECO	3	5	3	5	3	5	4	5	6	6	2	1	4	3	4	5	3	1	2	1	1		2	1	2	5	3	3	3	3
ECO	2	2	7	5	4	5	3	5	6	7	5	6	3	1	3	4	2	1	1	2	2		1	2	1	3	3	4	3	4
ECO	6	4	4	5	4	7	4	5	6	5	4	2	5	1	6	6	2	1	2	2	1		2	1	1	5	1	5	1	5
ECO	4	3	6	6	3	4	6	5	6	7	7	6	5	1	4	1	4	1	2	2	3	DK	1	5	1	5	1	5	1	5
ECO	2	2	6	6	2	2	6	6	6	6	2	2	3	2	6	2	6	1	1	2	1		1	1	1	5	3	1	3	1
ECO	2	5	1	5	5	5	2	5	7	7	3	4	6	4	4	4	4	1	2	1	6	EM	1	6	1	5	4	2	EM	EM
ECO	5	5	4	4	6	6	3	3	7	7	5	2	4	1	1	2	6	1	1	1	1		1	1	1	5	3	2	3	2
ECO	5	4	3	5	5	4	3	5	6	7	5	4	3	2	3	5	4	1	1	2	1		1	1	1	5	7	1	7	1
ECO	6	6	1	5	6	5	1	6	6	6	3	2	4	1	2	4	4	1	1	2	1		1	2	1	5	7	1	7	1
ECO	6	3	2	6	5	4	2	6	7	7	4	3	3	1	1	1	7	1	1	2	1		1	2	2	5	8	1	8	1
ECO	3	5	1	1	1	3	5	1	3	5	3	2	3	1	3	6	3	1	1	2	1		2	2	1	5	2	4	2	4

ECO	7	7	1	1	7	7	1	2	7	7	2	3	4	2	2	2	6	1	1	2	1	1	2	1	5	4	2	4	2	
ECO	6	6	1	1	5	5	2	2	7	7	5	3	3	1	3	3	4	1	1	2	5	1	1	5	1	5	5	2	5	2
ECO	4	3	1	1	4	4	2	2	7	7	1	2	2	1	1	1	3	1	1	2	1	1	1	2	5	7	1	7	1	
ECO	4	4	4	6	5	6	5	2	7	7	2	3	3	1	2	4	3	1	1	2	1	1	1	1	5	7	1	7	1	
ECO	7	2	2	4	7	5	2	4	6	6	4	2	2	1	1	5	3	1	1	2	1	1	2	1	5	3	3	3	3	
ECO	1	1	3	1	2	2	6	5	5	5	2	5	3	1	3	7	1	1	1	2	1	2	1	2	5	1	4	1	4	
ECO	3	4	4	4	2	3	3	4	7	7	6	2	2	4	4	5	2	1	1	2	1	1	1	1	5	5	3	5	3	
ECO	5	5	7	5	5	6	7	5	7	7	3	4	4	1	5	5	7	1	1	2	1	1	1	1	7	8	3	8	3	
ECO	6	5	1	4	5	5	1	4	3	2	2	2	3	1	3	4	4	1	1	2	1	1	2	2	5	4	2	4	2	
ECO	6	5	4	5	6	5	4	5	6	5	4	2	5	2	3	4	5	1	1	2	3	1	1	3	1	5	3	4	3	4
ECO	5	3	1	3	6	3	1	3	7	7	2	5	2	1	2	3	5	1	1	2	1	1	1	1	5	8	1	8	1	
ECO	7	7	1	4	7	7	1	4	7	7	2	3	3	3	2	2	6	1	2	2	5	2	1	5	1	5	2	3	2	3
ECO	5	7	2	3	6	6	2	3	6	6	2	2	3	1	1	1	5	1	3	2	5	DK	1	3	1	5	4	1	4	1
ECO	2	2	4	5	1	1	4	5	6	7	2	2	3	1	3	7	5	1	1	2	1	2	2	1	5	6	2	6	2	
ECO	6	6	2	6	3	3	6	3	6	7	6	5	3	4	4	2	6	1	2	2	1	1	1	1	5	6	1	6	1	
ECO	5	5	2	2	5	4	1	4	5	6	4	2	4	2	5	5	4	1	2	1	4	2	2	2	1	5	2	5	2	5
ECO	6	5	3	7	6	3	3	6	5	5	1	1	3	1	2	2	6	1	4	3	6	AD	1	4	1	2	5	2	5	2
ECO	2	6	1	2	2	6	1	3	7	7	6	7	4	1	5	7	1	1	3	2	5	2	2	3	2	5	4	2	4	2
ECO	2	7	1	5	7	6	6	5	7	6	2	1	4	1	3	4	4	1	2	2	6	DO	2	2	1	5	4	2	4	2
ECO	1	5	5	6	6	6	2	5	5	6	6	4	2	1	2	1	7	1	1	2	1	1	1	2	5	2	6	2	6	
ECO	5	3	5	5	2	3	3	4	6	6	3	4	3	1	1	1	3	1	1	2	1	1	1	1	5	4	3	4	3	
ECO	7	7	1	2	7	6	1	4	7	7	5	2	3	3	2	2	6	1	1	2	1	1	2	1	5	4	2	4	2	
ECO	3	3	5	5	3	3	5	5	5	5	4	4	3	2	2	2	6	1	1	2	1	1	1	1	5	3	3	3	3	
ECO	4	5	3	4	3	4	2	4	5	5	4	4	3	2	3	4	4	1	1	2	5	1	1	4	1	5	2	4	2	4
ECO	4	4	1	3	1	4	2	5	7	7	4	4	3	1	1	1	7	1	1	2	1	1	2	2	5	6	1	6	1	
ECO	3	2	5	6	3	2	5	6	6	6	3	3	2	2	3	5	3	1	1	2	1	1	2	1	5	4	2	4	2	
ECO	5	3	3	3	3	3	3	5	2	5	4	3	3	1	1	1	6	1	1	1	1	1	1	1	6	1	6	1		
ECO	5	5	2	3	5	5	3	3	6	6	4	4	4	3	5	5	4	1	1	1	3	3	2	5	1	5	4	2	4	2
ECO	2	2	4	6	3	3	5	5	5	5	1	2	4	1	5	5	3	1	2	1	1	1	1	2	1	5	4	2	4	2
ECO	4	4	4	4	4	4	4	4	6	6	2	1	3	1	4	4	4	1	1	1	4	2	1	2	1	5	4	1	4	1
ECO	4	4	7	7	5	5	7	7	7	7	3	3	4	1	1	5	4	1	1	1	1	1	1	1	5	5	2	5	2	
ECO	5	3	3	5	5	5	3	3	7	6	5	2	5	2	4	7	3	1	2	1	5	3	1	5	1	5	5	2	5	2

ECO	3	4	3	6	5	3	3	6	3	5	6	5	4	3	3	2	6	1	3	2	1	1	1	1	5	6	1	6	1	
ECO	5	6	7	3	1	4	3	5	7	6	6	3	4	1	2	5	6	1	1	1	1	1	1	1	2	5	1	5	1	
ECO	5	4	2	5	6	6	3	5	5	5	4	2	4	3	5	5	3	1	1	1	3	1	2	1	5	5	1	5	1	
ECO	4	3	4	5	3	3	4	5	6	6	6	5	4	2	3	6	5	1	2	1	1	1	2	1	6	2	3	2	3	
ECO	6	6	6	6	6	6	6	6	6	6	6	4	3	5	5	2	7	1	2	1	6	EM	1	6	1	5	1	2	EM	EM
ECO	3	6	2	6	5	5	2	2	7	7	3	2	3	4	2	6	5	1	2	2	3	3	2	3	1	5	3	2	3	2
ECO	4	3	3	6					7	7	4	2	3	1	5	6	3	1	1	1	5	1	1	5	1	5	3	4	3	4
ECO	7	4	4	4	4	4	4	4	7	7	7	7	3	1	5	5	4	1	1	1	6	EM	1	6	1	5	1	7	EM	EM
ECO	2	4	2	2	5	4	4	2	6	6	2	2	3	2	4	5	2	1	1	1	1	1	2	2	1	5	3	2	3	2
ECO	5	6	1	2	6	3	1	6	5	6	4	2	2	1	5	1	2	1	1	1	1	1	1	1	5	4	2	4	2	
ECO	3	5	1	6	2	2	6	6	7	7	7	4	2	1	4	6	2	1	1	1	1	1	2	1	7	4	2	4	2	
ECO	3	4	5	5	5	5	4	5	7	7	4	4	3	1	4	5	4	1	1	1	1	1	2	1	5	1	3	1	3	
ECO	6	4	2	5	6	6	2	2	7	5	1	2	4	1	4	7	5	1	1	1	1	1	2	1	5	6	2	6	2	
ECO	5	6	1	2	6	7	2	3	7	7	4	1	3	1	1	5	3	1	1	1	1	1	1	1	5	1	4	1	4	
ECO	3	5	1	4	6	6	1	6	6	6	2	2	3	1	2	2	6	1	1	1	1	1	2	1	5	2	5	2	5	
ECO	7	4	1	4	5	2	2	6	7	7	1	1	3	1	1	7	1	2	1	5	1	1	5	1	5	3	3	3	3	
ECO	1	3	7	7	5	7	2	1	7	7	4	2	4	1	4	6	4	1	3	1	1	1	1	1	5	4	5	4	5	
ECO	2	2	6	5	2	2	6	5	7	7	6	3	3	1	3	3	7	1	1	1	1	1	1	2	5	5	2	5	2	
ECO	7	4	3	4	4	4	4	5	6	6	3	2	4	2	3	4	3	1	1	1	3	6	1	4	1	5	5	3	5	3
ECO	4	5	2	3	5	6	1	4	7	7	3	2	4	2	4	6	5	1	3	1	6	EM	1	6	1	5	1	4	EM	EM
ECO	7	7	1	5	4	4	4	4	7	7	3	2	3	1	4	3	3	1	1	1	5	2	1	5	1	5	4	2	4	2
ECO	5	5	4	5	3	5	4	4	6	6	4	4	4	2	4	6	4	1	2	1	5	2	1	5	1	5	2	4	2	4
ECO	1	1	1	1	4	4	4	4	5	5	1	2	2	1	1	2	1	1	1	1	4	1	1	2	1	5	7	1	7	1
ECO	6	5	4	4	6	5	6	3	6	7	5	6	4	1	5	6	5	1	2	1	1	1	1	2	5	1	5	1	5	1
ECO	1	2	4	5	3	5	3	5	6	4	3	3	3	1	6	5	3	1	1	1	1	1	1	1	5	3	2	3	2	
ECO	6	6	1	2	6	6	1	4	5	7	3	2	3	2	5	5	3	1	1	1	1	1	1	1	5	3	3	3	3	
ECO	6	6	2	2	6	2	6	2	6	6	3	4	2	4	4	4	5	1	1	2	5	2	1	6	1	5	3	5	3	5
ECO	6	6	1	2	5	6	1	2	7	7	4	1	3	2	5	5	3	1	1	2	3	3	1	2	1	5	2	4	2	4
ECO	6	5	3	4	6	7	3	3	6	7	2	2	2	2	3	5	6	1	1	2	3	3	1	2	2	5	5	2	5	2
ECO	4	4	4	4	5	6	4	5	7	5	2	2	2	2	4	6	3	1	1	2	1	1	1	1	5	4	1	4	1	
EDU	1	3	2	4					7	7	3	2	5	1	1	2	6	1	2	1	5	6	1	4	1	5	1	5	1	5
EDU	4	3	7	5	6	6	7	6	6	6	5	1	6	1	1	1	7	1	1	1	5	3	2	3	1	3	2	8	2	8

EDU	2	2	2	6	1	2	5	7	3	3	2	4	6	2	6	1	7	1	1	1	3	DK	1	5	1	5	1	2	1	2	
EDU	5	5	3	4	4	4	4	4	7	7	5	5	7	1	2	5	5	1	1	1	4	3	1	2	1	5	5	2	5	2	
EDU	2	2	4	3	5	5	6	5	2	5	6	4	4	1	4	7	4	1	2	1	2		2	2	1	5	4	2	4	2	
EDU	1	5	5	7	6	6	4	4	5	7	5	3	8	1	1	3	7	1	1	2	5	1	1	3	1	2	3	2	3	2	
EDU	2	2	2	3	1	3	2	3	5	7	7	7	8	1	3	1	7	1	1	2	1		2	1	1	5	6	2	6	2	
EDU	2	1	7	7	6	4	4	2	7	7	5	1	8	1	1	1	7	1	1	2	4	3	2	2	1	3	5	2	5	2	
EDU	1	1	6	6	1	1	6	6	6	6	5	5	5	1	4	7	7	1	1	2	1		1	1	1	3	2	3	2	3	
EDU	1	1	4	1	2	2	4	2	7	7	7	7	7	1	2	1	7	1	1	1	3	DK	2	3	1	5	4	2	4	2	
EDU	2	2	6	6	3	3	4	4	6	6	4	4	6	1	1	6	7	1	1	1	5	6	1	3	1	6	2	5	2	5	
EDU	6	5	1	3	5	5	2	3	5	6	5	2	8	2	2	3	5	1	2	1	6	EM		1	6	1	5	3	4	EM	EM
EDU	5	3	7	7	5	2	6	7	6	7	6	6	8	1	5	5	6	1	1	2	1		1	1	1	5	6	2	6	2	
EDU	4	4	5	5	5	5	4	4	6	6	7	7	7	4	3	3	6	1	DK	2	1		1	3	1	3	2	2	2	2	
EDU	4	3	6	6	6	4	4	5	5	7	5	5	4	1	5	7	4	1	1	1	3	2	1	4	1	5	3	4	3	4	
EDU	6	6	3	3	2	2	6	6	6	5	3	2	4	1	6	7	4	1	DK	2	1		2	2	1	3	1	6	1	6	
EDU	2	3	2	5	3	4	2	4	5	7	3	2	5	1	1	2	6	1	1	2	5	2	1	4	1	3	3	4	3	4	
EDU	2	2	6	4	2	1	5	5	7	6	6	6	7	1	4	7	5	1	1	2	1		2	1	1	3	4	5	4	5	
EDU	3	3	5	5	2	3	5	5	6	6	3	5	7	1	1	2	7	1	2	1	1		2	1	1	5	2	3	2	3	
EDU	1	2	6	7	4	5	3	5	6	5	5	6	7	1	2	2	7	1	1	1	1		2	2	1	5	4	2	4	2	
EDU	2	2	6	6	2	2	6	6	5	5	4	4	5	1	6	5	6	1	1	1	5	1		1	3	1	5	5	2	5	2
EDU	2	1	5	7	2	3	5	5	5	5	5	5	8	1	3	4	5	1	1	1	1		2	1	1	5	4	2	4	2	
EDU	4	4	4	4	4	4	4	4	7	7	4	4	8	1	4	7	7	1	1	1	1		2	2	1	5	1	8	1	8	
EDU	1	1	7	7	2	2	5	6	7	7	6	6	7	1	3	3	6	1	1	1	1		2	1	1	5	3	2	3	2	
EDU	2	2	6	6	1	1	6	6	4	7	6	6	7	1	1	2	7	1	1	1	1		1	1	1	2	2	2	2	2	
EDU	2	3	5	5	3	3	5	5	6	6	6	6	6	1	3	5	6	1	1	1	4	3		2	1	2	6	2	4	2	4
EDU	2	2	5	6	4	4	4	4	5	5	6	5	6	1	2	5	5	1	1	1	1		1	2	1	5	3	3	3	3	
EDU	5	4	5	5	4	4	4	4	6	6	6	6	8	1	2	2	7	1	1	1	5	2		1	5	1	5	4	3	4	3
EDU	1	2	7	6	1	2	6	5	6	6	5	3	7	3	4	4	7	1	1	1	1		1	2	2	6	1	5	1	5	
EDU	3	5	5	5	2	2	7	6	4	7	6	4	7	1	1	4	7	1	1	1	1		2	1	1	2	5	2	5	2	
EDU	2	2	6	5	1	3	3	5	5	7	7	5	8	1	2	5	7	1	1	1	1		2	2	1	2	1	5	1	5	
EDU	2	1	2	2	3	2	2	2	7	7	7	4	8	1	1	4	6	1	1	1	1		2	2	1	5	6	3	6	3	
EDU	3	6	3	6	2	2	6	6	6	6	6	6	7	1	2	7	3	1	1	1	1		2	1	1	5	1	2	1	2	
EDU	4	4	4	4	5	3	5	4	5	5	5	5	6	3	4	4	5	1	1	1	3	5		2	3	1	2	4	4	4	4

EDU	4	4	5	6	5	4	5	5	6	7	3	5	8	1	1	4	7	1	1	1	3	DK	2	3	1	5	3	3	3	3	
EDU	5	4	3	3	3	3	4	4	5	6	6	5	7	1	4	1	7	1	1	1	5	2	1	5	1	5	4	4	4	4	
EDU	3	3	4	4	4	4	3	4	7	6	6	5	9	1	1	5	7	1	1	1	1		1	2	1	2	4	4	4	4	
EDU	2	4	5	4	3	2	5	5	4	6	6	5	7	1	1	4	5	1	1	1	5	4	2	4	1	5	4	3	4	3	
EDU	4	5	5	5	5	5	5	5	6	5	5	6	8	4	4	3	6	1	1	1	1		1	1	1	5	3	3	3	3	
EDU	4	4	4	4	4	4	4	4	7	7	4	4	6	1	1	2	7	1	1	1	4	3	1	3	1	5	4	3	4	3	
EDU	2	2	5	6	4	4	4	4	7	7	6	5	8	2	2	2	7	1	1	1	1		2	2	1	5	5	3	5	3	
EDU	1	2	5	7	3	3	1	5	6	7	5	5	9	1	4	3	6	1	1	1	1		2	2	1	5	5	2	5	2	
EDU	5	5	4	5	4	5	5	5	5	6	3	2	7	1	1	3	6	1	1	1	1		1	2	1	5	3	5	3	5	
EDU	3	5	2	5	4	4	4	4	7	7	5	5	6	2	4	6	6	1	1	1	1		1	2	1	5	1	5	1	5	
EDU	3	3	5	5	3	3	5	5	5	6	6	6	8	1	2	2	7	1	1	1	1		1	2	1	4	1	4	1	4	
EDU	5	2	4	5	4	4	5	4	5	5	4	3	6	1	5	4	6	1	1	1	1		2	4	1	5	3	5	3	5	
EDU	3	3	4	4	4	5	3	4	6	6	4	4	6	1	2	4	5	1	1	1	5	2	1	3	2	5	3	4	3	4	
EDU	5	1	7	2	1	2	5	7	7	7	4	4	7	1	2	6	5	1	1	1	1		1	1	1	5	3	3	3	3	
EDU	5	5	3	3	3	5	3	3	5	6	4	4	9	2	3	2	6	1	1	1	5	6	1	2	1	6	6	1	6	1	
EDU	4	5	1	6	3	5	4	5	5	5	6	3	5	1	4	4	5	1	1	1	1		2	1	1	5	2	5	2	5	
EDU	4	5	3	3	4	4	4	5	6	7	6	5	7	1	1	5	7	1	1	1	4	4	2	2	1	5	3	3	3	3	
EDU	5	5	3	3	5	3	3	3	7	6	7	4	7	1	1	2	7	1	1	1	5	2	1	5	1	2	3	4	3	4	
EDU	1	4	6	7	2	3	5	6	4	6	7	6	8	2	3	5	6	1	1	1	1		2	1	1	5	1	8	1	8	
EDU	2	2	3	5	2	2	2	2	6	7	7	7	8	1	1	7	6	1	1	1	5	4	1	3	1	5	5	3	5	3	
EDU	7	7	7	6	6	6	6	6	6	6	6	3	4	1	5	3	3	1	1	4	R1	2		2	2	1	3	3	6	3	6
EDU	3	5	4	6	5	5	3	3	5	6	5	4	4	1	2	3	6	1	1	1	3	DK	1	3	1	5	3	3	3	3	
EDU	3	2	5	5	2	5	7	5	5	6	7	7	3	1	3	6	7	1	1	2	1		2	1	1	5	1	5	1	5	
EDU	2	2	6	6	3	3	6	6	6	6	6	6	8	1	2	3	7	1	1	2	1		1	2	1	5	3	3	3	3	
ENG	5	6	2	2	2	6	2	2	7	7	4	4	2	4	5	5	5	1	1	1	6	EM		1	6	1	5	4	2	EM	EM
ENG	5	5	3	6	7	7	2	5	5	6	1	3	3	3	6	3	3	1	1	2	1		1	1	1	2	6	1	6	1	
ENG	3	3	5	6	3	3	5	5	6	5	2	2	3	1	4	5	6	1	1	1	3	DK	1	4	1	5	6	2	6	2	
ENG	5	6	2	2	5	6	2	3	6	7	5	3	2	1	5	6	5	1	1	1	6	EM		1	6	1	5	1	1	EM	EM
ENG	6	6	1	3	4	5	1	3	6	6	2	2	3	7	5	6	2	1	1	1	5		3	1	4	1	5	5	2	5	2
ENG	5	5	5	5	5	3	5	6	7	7	2	2	3	2	2	2	7	1	1	1	5		3	1	2	1	2	5	3	5	3
ENG	6	6	1	2	6	6	1	2	6	5	1	1	3	1	5	5	2	1	1	2	6	EM		1	6	1	5	2	4	EM	EM
ENG	6	5	1	3	6	2	1	4	7	7	2	2	2	1	4	7	1	1	1	2	3		2	1	4	1	5	5	3	5	3

ENG	6	6	2	6	6	6	1	7	7	6	2	3	3	1	2	6	6	1	1	1	6	EM	1	6	1	5	1	1	EM	EM
ENG	1	1	7	7	1	1	7	7	6	7	2	1	2	1	2	6	3	1	1	2	6	EM	1	6	1	5	1	5	EM	EM
ENG	2	1	6	6	6	5	2	3	5	6	2	2	2	1	6	7	2	1	1	1	5	2	1	4	1	2	5	2	5	2
ENG	2	2	3	6	1	2	1	7	7	5	2	4	3	1	3	6	1	1	1	2	1		1	1	1	5	4	1	4	1
ENG	3	3	6	7	4	3	3	6	7	6	1	2	5	1	5	4	3	1	1	2	1		2	1	1	2	5	3	5	3
ENG	4	5	4	5	4	4	3	4	6	6	2	2	6	3	3	5	5	1	1	2	1		2	1	1	2	6	1	6	1
ENG	4	4	3	5	2	5	3	3	5	6	4	4	2	1	5	6	3	1	1	2	1		2	1	1	5	2	5	2	5
ENG	4	4	6	4	4	4	6	3	7	7	1	1	4	1	5	3	3	1	1	2	1		1	1	1	6	4	1	4	1
ENG	6	5	3	3	3	6	5	4	6	5	3	2	2	3	6	6	3	1	2	2	2		1	2	1	5	4	2	4	2
ENG	2	2	5	5	4	4	5	5	6	6	2	3	2	2	3	3	2	1	3	2	1		1	1	1	5	2	2	2	2
ENG	1	1	7	6	2	4	5	5	7	7	5	3	4	1	7	6	2	1	3	2	1		2	1	1	6	7	1	7	1
ENG	6	6	2	4	6	6	2	4	7	7	2	2	3	1	1	6	3	1	1	1	4	2	1	1	1	5	5	3	5	3
ENG	1	4	7	6	1	1	7	4	6	7	1	2	3	1	1	1	7	1	1	2	5	1	1	3	1	6	4	4	4	4
ENG	4	4	6	6	3	4	5	6	7	6	1	1	3	2	1	5	3	1	1	2	1		2	1	1	2	4	1	4	1
ENG	3	4	5	3	3	3	4	5	7	7	3	5	3	1	5	6	2	1	1	2	1		2	1	1	5	5	2	5	2
ENG	6	4	5	6	4	6	5	6	5	6	5	5	4	6	5	6	5	1	1	2	1		1	1	1	2	5	1	5	1
ENG	4	4	4	4	5	5	5	5	5	5	5	5	6	4	5	4	4	1	1	1	5	6	2	3	1	5	5	4	5	4
ENG	6	6	4	7	4	4	6	6	6	6	4	4	6	1	6	3	5	1	1	2	1		1	1	1	5	4	1	4	1
ENG	4	3	3	4	3	4	2	4	4	5	5	5	2	2	3	2	6	1	1	1	6	EM	1	6	1	5	3	5	EM	EM
ENG	1	1	6	5	1	6	1	5	7	7	3	7	2	1	4	1	6	1	1	2	5	3	1	2	1	2	6	8	6	8
ENG	7	1	1	2	7	2	1	2	6	5	2	2	3	3	6	6	3	1	1	1	6	EM	1	6	1	5	3	4	EM	EM
ENG	4	4	3	5	6	5	2	3	6	6	2	3	3	1	5	5	4	1	1	2	2		1	2	1	5	4	2	4	2
ENG	1	2	7	7	2	2	6	7	6	7	2	3	2	5	6	4	4	1	1	1	3	DK	1	2	1	2	5	2	5	2
ENG	6	7	2	6	6	6	2	6	7	7	2	3	2	5	4	5	5	1		2	1		1	2	1	5		1		1
ENG	6	6	2	1	5	6	1	3	6	6	1	1	2	1	4	6	6	1	3	2	6	EM	1	6	1	5	1	2	EM	EM
ENG	3	3	5	3	3	3	5	6	7	6	2	5	3	1	2	5	5	1	4	2	5	8	1	3	1	5	4	2	4	2
ENG	6	6	4	5	4	4	4	4	4	5	2	2	2	2	4	5	2	1	2	2	3	1	1	5	1	5	4	7	4	7
ENG	7	7	1	4								2	1	1	1	1	1	1	3	2	4	6	1	4	2	5	3	8	3	8
ENG	5	5	5	5	7	6	6	6	7	5	5	5	4	1	7	7	7	1	3	2	4	7	2	2	1	5	3	1	3	1
ENG	6	5	1	2	5	5	2	2	6	7	1	2	2	2	5	5	6	1	3	2	6	EM	1	6	1	5	2	1	EM	EM
ENG	3	3	5	6	2	2	6	6	6	6	3	2	2	1	1	3	3	1	1	1	1		1	1	1	5	2	4	2	4
ENG	6	6	2	2	6	6	2	2	6	7	5	5	2	5	5	4	3	1	2	2	6	EM	1	6	1	5	2	1	EM	EM

ENG	5	6	2	2	7	7	1	2	7	7	1	1	2	1	5	6	7	1	3	2	3	3	1	4	1	5	6	1	6	1
ENG	6	5	2	4	4	5	2	4	6	6	4	5	4	1	4	5	4	1	1	1	4	1	1	2	1	5	7	1	7	1
ENG	5	5	5	5	4	5	5	4	5	5	3	5	2	1	1	3	7	1	3	2	3	3	1	3	1	5	4	2	4	2
ENG	6	5	4	6	6	6	5	5	6	6	2	2	3	1	4	5	3	1	3	2	5	4	1	4	1	5	6	2	6	2
ENG	5	5	3	5	5	5	2	5	7	6	2	3	2	2	3	7	5	1	1	1	1		1	1	1	5	4	1	4	1
ENG	6	6	6	6	5	6	5	2	4	4	4	4	2	6	6	6	6	2	2	2	1		1	1	1	2	3	3	3	3
ENG	5	4	2	6	6	4	2	5	5	7	2	2	2	3	3	3	3	1	1	1	1		1	1	1	5	6	1	6	1
ENG	3	4	6	6	4	3	6	6	6	7	3	2	2	1	5	7	2	1	1	1	1		2	1	1	5	6	1	6	1
ENG	1	3	3	2	1	3	3	2	7	7	7	5	2	1	6	4	7	1	1	1	5	2	1	5	1	5	3	3	3	3
ENG	5	2	6	6	3	6	5	5	4	6	2	3	3	1	6	7	2	1	1	1	1		2	1	1	5	5	1	5	1
ENG	6	6	4	5	4	6	4	6	7	6	5	5	2	4	1	7	6	1	1	1	5	5	1	6	1	5	4	2	4	2
ENG	4	4	2	4	4	4	4	4	6	6	4	5	2	3	6	6	2	1	1	1	5	2	2	3	1	5	5	2	5	2
ENG	5	5	1	7	5	5	1	7	7	7	2	3	4	1	2	3	7	1	2	2	1		1	1	1	5	5	1	5	1
ENG	4	5	3	5	5	5	3	4	6	6	4	3	3	3	4	3	3	1	1	1	1		1	1	1	5	6	2	6	2
ENG	4	4	5	6	3	4	5	5	7	7	3	2	4	1	2	5	5	1	1	1	1		1	1	1	5	4	1	4	1
ENG	7	5	1	5	7	5	1	5	7	7	2	3	3	1	1	1	7	1	1	1	1		1	1	1	5	4	1	4	1
ENG	3	2	2	5	4	4	3	5	6	7	1	2	2	1	2	3	5	1	1	1	1		1	2	1	7	3	2	3	2
ENG	7	7	1	7	4	4	3	5	7	7	1	1	3	2	4	7	4	1	1	1	1		1	1	1	5	2	5	2	5
ENG	5	5	2	2	7	5	1	3	7	7	4	4	3	1	5	4	4	1	1	1	5	3	1	5	1	2	7	8	7	8
ENG	5	5	1	3	6	3	3	3	6	6	3	3	1	1	3	6	5	1	1	1	5	7	1	5	1	5	6	2	6	2
ENG	5	3	3	5	5	5	3	3	7	7	1	1	2	1	3	5	3	1	1	1	5	3	1	6	1	5	5	1	5	1
ENG	4	4	4	4	4	4	4	4	7	7	4	4	2	1	2	5	3	1	1	1	5	3	1	5	1	5	5	2	5	2
ENG	6	5	4	6	6	5	4	6	5	5	1	1	2	5	5	6	4	1	1	1	5	6	1	5	1	2	4	3	4	3
ENG	5	5	3	4	4	4	4	5	6	7	2	2	3	1	4	5	3	1	1	1	1		2	1	1	5	4	2	4	2
ENG	3	3	5	6	4	4	3	6	7	7	2	4	4	3	5	5	3	1	1	1	1		1	2	1	6	4	3	4	3
ENG	4	4	2	5	5	4	2	4	7	7	2	2	2	1	1	1	7	1	1	1	1		1	1	1	5	5	2	5	2
ENG	5	5	1	2	5	5	3	2	7	7	2	3	2	2	2	1	6	1	1	1	5	6	1	6	1	5	1	1	1	1
ENG	5	4	6	5	4	4	3	5	5	6	2	2	3	2	4	5	3	1	1	1	1		1	1	1	5	5	4	5	4
ENG	1	1	7	7	7	7	1	1	5	6	2	2	1	4	7	7	1	1	1	1	5	2	2	4	1	5	4	2	4	2
ENG	6	6	2	4	6	5	4	5	7	7	2	2	3	5	4	5	4	1	1	1	6	AD	2	6	1	5	6	1	6	1
ENG	6	5	3	3	6	7	4	4	7	7	3	2	3	1	4	6	4	1	1	1	4	3	1	2	1	5	4	2	4	2
ENG	6	6	1	4	6	6	2	5	5	6	2	4	2	1	2	5	3	1	1	1	5	3	1	4	1	5	5	1	5	1

ENG	5	6	1	1	5	4	2	4	7	7	2	4	1	6	5	4	4	1	1	1	5	2	1	6	1	5	2	3	2	3
ENG	5	5	4	5	5	5	3	4	6	6	3	2	3	3	2	3	3	1	1	1	6	EM	1	6	1	5	6	2	EM	EM
ENG	5	2	6	6	5	3	5	5	4	4	6	5	4	2	2	6	4	1	1	1	4	5	2	2	1	5	5	2	5	2
ENG	5	4	1	6	4	3	4	5	7	7	4	4	4	1	2	5	3	1	1	1	2	1	2	1	7	4	3	4	3	
ENG	1	6	2	2	2	7	1	1	6	7	2	3	2	6	5	2	6	1	1	1	6	EM	1	6	1	5	1	1	EM	EM
ENG	6	4	5	5	5	4	3	4	6	6	3	3	3	1	5	1	6	1	1	1	1	1	1	1	5	5	2	5	2	
ENG	4	4	5	3	4	4	3	5	6	7	4	2	2	2	4	5	3	1	1	1	5	DK	1	4	1	5	3	4	3	4
ENG	4	3	4	4					7	7	7	7	2	1		5	4	1	1	1	5	4	1	4	1	5	5	2	5	2
ENG	5	2	6	5	5	2	5	6	5	6	2	2	5	2	5	6	5	1	1	1	1	1	2	1	1	5	3	2	3	2
ENG	4	1	7	5	2	3	5	6	7	7	1	1	5	3	4	2	6	1	1	2	1	1	1	1	5	4	1	4	1	
ENG	3	6	3	4	2	4	4	5	5	5	4	3	3	1	1	5	5	1	1	1	6	EM	1	6	1	5	1	2	EM	EM
ENG	4	3	5	3	2	3	4	4	7	7	2	2	2	2	5	6	4	1	1	1	5	4	1	4	1	5	6	1	6	1
ENG	3	5	2	4	4	4	4	6	6	6	2	2	3	1	2	7	5	1	1	1	1	1	2	1	1	5	4	1	4	1
ENG	7	7	1	4	6	7	1	4	7	7	2	1	3	1	5	7	2	1	1	1	6	EM	1	6	1	5	3	2	EM	EM
ENG	6	6	1	4	6	5	2	4	7	5	5	3	2	1	2	6	4	1	1	1	5	2	1	5	1	5	5	2	5	2
ENG	4	3	3	5	4	4	2	2	5	6	3	2	2	1	3	5	2	1	1	1	5	3	1	6	1	5	2	5	2	5
ENG	4	4	1	1	4	7	4	4	7	7	4	2	3	1	2	6	7	1	2	1	5	5	1	6	1	5	2	4	2	4
ENG	2	5	3	5	5	4	3	2	6	6	3	2	2	1	3	5	4	1	1	1	5	5	1	4		7	7	3	7	3
ENG	5	5	4	5	6	6	3	3	6	6	5	3	2	1	1	5	4	1	2	1	3	2	1	4	1	5	4	2	4	2
ENG	5	5	3	3	6	6	2	2	6	7	2	2	2	1	4	6	4	1	1	1	2	1	1	3	1	5	6	2	6	2
ENG	2	2	6	6	6	2	2	6	6	7	2	2	5	1	1	1	7	1	1	1	6	RP	2	2	1	5	5	1	5	1
ENG	4	3	3	6	2	6	2	5	7	7	4	4	2	1	4	6	4	1	3	1	3	2	2	2	1	5	6	1	6	1
ENG	2	3	6	1	4	4	4	4	5	7	1	2	3	1	4	5	3	1	1	1	5	4	1	4	1	5	5	2	5	2
ENG	4	6	2	2	6	6	3	4	5	4	2	2	2	2	4	5	4	1	1	1	5	3	1	5	1	5	3	3	3	3
ENG	5	5	2	4	5	5	3	3	6	7	3	3	4	2	2	5	4	1	1	2	5	3	1	3		6	2	6	2	
ENG	5	6	2	4	6	6	3	3	7	6	2	2	2	3	3	2	5	1	1	2	5	2	1	4	1	5	5	2	5	2
ENG	5	5	2	3	5	5	2	2	5	6	5	3	3	1	3	6	5	1	2	2	5	2	1	5	1	5	5	2	5	2
ENG	7	5	3	7	7	6	3	4	4	7	2	2	3	1	3	5	5	1	1	2	3	3	1	3	1	5	6	2	6	2
ENG	5	6	3	4	5	6	2	2	7	7	2	2	3	1	5	5	5	1	1	2	3	1	2	2	1	5	4	2	4	2
ENG	7	7	7	7	7	7	7	7	7	7	7	7	4	7	2	2	7	1	1	1	1	1	1	1	1	2	7	3	7	3
ENG	3	3	4	3	2	2	4	3	6	5	3	3	3	3	3	4	4	1	1	2	6	EM	1	6	1	5	3	1	EM	EM
ELI	3	4	1	6	4	5	1	3	7	7	3	2	6	1	3	7	5	1	1	2	1	2	1	1	5	3	4	3	4	



ELI	4	5	3	3	5	5	2	4	5	6	5	3	7	1	4	6	5	1	2	2	1	2	2	1	5	2	2	2	2			
ELI	1	1	7	7	7	7	2	2	7	7	6	5	6	4	2	1	7	1	1	2	1	1	2	1	1	1	1	5	1	5		
ELI	5	5	3	4	5	5	2	2	6	7	7	5	7	1	6	6	5	1	1	2	1	2	2	2	2	3	2	5	2	5		
ELI	7	7	1	4	7	7	1	4	6	6	4	5	6	1	1	5	7	1	2	2	5	2	2	2	2	1	5	3	4	3	4	
ELI	4	4	2	4	2	4	4	4	5	3	5	4	5	1	2	5	5	1	2	2	5	4	1	4	1	5	3	4	3	4		
ELI	3	3	3	5	5	5	5	4	5	6	5	6	6	2	2	3	4	1	1	2	6	EM	1	6	1	5	1	2	EM	EM		
ELI	1	1	4	5	1	1	4	4	7	7	6	5	8	1	1	6	4	1	2	2	1	1	1	1	1	5	3	3	3	3		
ELI	3	5	1	4	4	6	2	2	6	5	6	4	7	1	2	4	5	1	2	2	5	2	1	4	1	5	2	3	2	3		
ELI	5	4	1	4	6	6	1	3	6	7	4	2	5	1	2	7	6	1	2	2	1	2	2	2	2	1	5	1	5	1	5	
ELI	4	5	2	4	5	5	2	4	7	5	7	3	6	1	4	5	5	1	2	2	1	2	2	2	2	1	5	1	8	1	8	
ELI	6	7	1	2	7	7	1	4	5	5	5	5	6	1	1	4	4	1	1	2	5	1	1	5	1	5	3	4	3	4		
ELI	5	4	1	4	6	5	1	2	4	6	5	5	7	2	2	5	6	1	1	1	5	1	1	5	1	5	2	4	2	4		
ELI	5	2	4	5	3	2	6	5	6	7	4	2	7	1	1	6	7	1	2	1	5	2	2	2	1	5	4	2	4	2		
ELI	3	4	3	6	5	5	3	5	7	7	4	4	6	1	2	6	7	1	1	1	5	2	1	3	1	5	5	2	5	2		
ELI	6	6	2	3	4	5	4	4	5	6	4	2	7	1	4	6	6	1	1	1	5	3	1	5	1	5	6	2	6	2		
ELI	4	2	3	5	3	3	6	2	7	6	2	2	7	1	6	4	4	1	1	1	3	2	1	2	1	5	3	4	3	4		
ELI	2	2	2	7	3	4	5	4	7	7	6	2	7	1	2	6	6	1	1	2	1	2	2	2	2	1	5	3	6	3	6	
ELI	4	2	2	5	6	4	3	5	6	6	5	6	7	1	2	5	6	1	2	2	5	2	1	5	1	5	3	5	3	5		
ELI	6	7	1	2	6	6	1	1	5	5	7	2	7	1	1	5	6	1	1	2	5	1	1	3	1	5	3	3	3	3		
ELI	7	7	1	1	2	2	6	7	2	7	7	7	3	1	7	7	3	1	1	2	1	2	2	2	1	3	1	3	3	4	3	4
ELI	1	1	7	3	3	5	4	3	6	6	6	6	7	1	1	1	7	1	1	1	1	1	1	1	1	1	5	1	5	1	5	
ELI	3	2	4	5	2	2	3	3	7	4	5	3	5	1	1	5	6	1	2	1	1	2	2	2	2	1	5	3	4	3	4	
ELI	5	6	2	5	4	5	2	4	6	5	5	2	6	1	1	2	6	1	2	2	5	1	1	4	1	5	3	3	3	3		
ELI	4	4	2	3	4	5	6	6	7	7	7	7	9	1	3	6	3	1	2	1	1	2	2	2	2	1	5	4	2	4	2	
ELI	1	3	5	4	1	4	4	3	7	7	6	6	5	1	4	5	5	1	2	1	1	2	2	2	2	2	5	2	4	2	4	
ELI	6	4	1	6	6	6	1	3	7	7	7	7	6	1	1	4	6	1	1	1	5	1	1	3	1	7	1	7	1	7		
ELI	6	5	2	3	6	6	1	2	4	7	3	3	7	1	1	2	7	1	1	2	5	1	2	3	1	7	3	6	3	6		
ELI	4	5	2	7	5	3	2	6	5	6	7	7	8	1	6	7	4	1	2	2	1	2	2	2	2	1	5	2	3	2	3	
ELI	4	2	2	4	5	5	1	4	6	7	5	2	5	1	5	6	2	1	2	2	1	2	2	2	2	1	5	3	4	3	4	
ELI	4	4	4	5	6	5	3	2	6	7	7	4	6	1	2	7	5	1	1	2	1	2	2	2	2	1	5	3	3	3	3	
ELI	5	5	3	6	6	6	2	3	7	7	4	4	6	1	2	6	4	1	2	2	1	2	2	2	2	2	2	2	4	2	4	
ELI	6	7	1	3	4	4	2	5	6	4	7	5	5	1	1	2	7	1	2	2	1	2	2	2	1	5	4	2	4	2		

ELI	5	5	3	5	5	5	3	5	5	6	7	4	8	1	3	5	5	1	2	2	5	1	2	3	1	2	2	4	2	4	
ELI	3	3	5	5	4	3	5	5	5	4	6	5	7	1	3	5	4	1	2	2	5	1	2	4	1	5	2	4	2	4	
ELI	5	5	2	5	5	5	2	4	5	5	4	3	7	1	1	5	6	1	2	2	5	2	1	6	1	5	2	5	2	5	
ELI	2	2	3	3	2	4	3	3	2	5	6	5	8	1	2	3	6	1	2	2	5	1	2	5	1	5	1	6	1	6	
ELI	5	4	2	4	5	4	2	4	7	5	7	4	9	2	1	4	7	1	2	2	1		2	1	1	5	2	8	2	8	
ELI	6	5	5	4	4	5	5	6	5	6	7	5	7	1	1	1	7	1	2	2	1		2	1	2	5	1	4	1	4	
ELI	5	4	2	6	5	4	2	4	7	7	7	1	7	1	3	6	5	1	2	2	1		2	2	1	5	3	3	3	3	
ELI	6	6	2	2	4	5	3	2	7	7	4	4	8	1	5	7	2	1	2	2	1		1	1	1	5	3	3	3	3	
ELI	5	6	2	3	5	5	3	3	7	7	6	5	7	1	2	5	7	1	2	2	1		2	1	1	5	2	5	2	5	
ELI	6	6	4	4	4	4	4	4	7	7	7	7	8	1	1	3	6	1	3	2	1		2	1	1	5	3	3	3	3	
ELI	3	3	1	3	2	3	1	2	7	7	5	4	6	1	1	5	6	1	1	1	5	2	1	4	1	5	2	7	2	7	
ELI	6	5	2	3	5	5	1	3	6	4	5	7	7	1	1	5	5	1	1	2	6	RF		1	1	1	5	4	1	4	1
ELI	4	4	1	4	5	5	5	3	7	7	3	4	6	1	1	6	5	1	1	2	5		1	2	3	1	5	3	3	3	3
ELI	4	4	5	7	6	6	4	6	6	7	4	4	6	1	1	5	5	1	1	2	1		2	2	1	5	2	4	2	4	
ELI	4	5	3	4	5	5	4	3	6	6	5	4	6	1	2	5	7	1	1	2	1		1	2	1	5	2	3	2	3	
ELI	5	6	2	2	6	5	3	3	7	5	5	1	8	1	3	6	4	1	1	2	1		2	1	1	5	3	2	3	2	
ELI	1	2	5	7	5	6	2	6	3	3	5	2	6	1	1	5	6	1	1	1	1		1	1	1	1	5	3	5	3	5
ELI	5	5	6	5	4	5	5	6	6	6	4	5	6	1	1	4	7	1	1	1	1		1	1	1	7	3	2	3	2	
ELI	3	6	2	2	6	6	2	2	7	7	7	6	5	1	1	6	2	1	1	1	1		1	1	1	5	2	5	2	5	
ELI	5	6	2	4	5	5	3	4	6	5	6	3	6	4	4	5	5	1	1	1	3	DK		2	3	1	5	3	3	3	3
ELI	1	1	5	5	5	3	5	5	6	7	6	4	6	1	4	6	3	1	1	1	5		3	2	5	1	5	2	8	2	8
ELI	4	4	2	4	5	4	3	4	7	7	6	7	6	1	1	5	7	1	1	1	1		1	1	1	5	4	3	4	3	
ELI	3	4	5	6	6	7	3	3	6	6	5	5	6	1	7	5	5	1	1	1	1		2	1	1	5	3	5	3	5	
ELI	5	4	2	5	3	5	3	5	5	6	3	4	7	1	5	7	4	1	2	1	5		4	2	3	1	6	3	3	3	3
ELI	1	1	7	7	1	2	6	6	5	4	7	5	7	1	2	2	6	2	2	1	3	DK		2	2	1	5	2	2	2	2
ELI	4	3	1	5	4	4	1	5	7	7	2	2	6	1	1	1	7	1	1	1	5		2	1	3	1	6	3	4	3	4
ELI	5	4	4	6	5	4	4	5	7	7	5	3	7	1	2	6	5	1	1	1	4		3	2	3	1	5	2	5	2	5
ELI	5	4	2	5	4	4	4	4	6	5	4	4	7	1	2	5	5	1	1	1	4		DK	2	2	1	5	2	4	2	4
ELI	2	1	1	3	6	6	4	4	4	4	5	4	5	1	2	1	7	1	3	1	6	EM		1	5	1	7	1	5	EM	EM
ELI	5	5	4	5	6	6	3	3	7	6	6	5	6	1	3	6	4	1	1	1	1		1	1	1	5	3	7	3	7	
ELI	2	3	6	5	5	4	2	6	4	6	5	3	6	1	1	2	5	1	2	1	1		1	1	1	5	5	2	5	2	
ELI	2	2	6	6	4	4	4	2	6	6	6	5	7	1	1	1	7	1	2	1	3		DK	2	2	1	5	3	3	3	3

ELI	7	6	1	2	7	6	1	4	6	5	7	6	7	1	1	2	7	1	2	1	5	2	1	5	1	5	2	6	2	6	
EVO	5	6	6	5	6	4	3	5	7	7	2	2	5	1	1	1	7	1	1	2	1		1	1	1	5	7	4	7	4	
EVO	2	2	5	5	3	2	7	7	7	7	1	2	3	1	5	7	3	1	1	2	1		2	1	1	5	5	1	5	1	
EVO	1	1	7	7	1	2	7	7	3	7	2	2	6	1	2	5	6	1	1	2	1		2	1	1	5	3	2	3	2	
EVO	5	6	1	6	5	6	3	2	7	6	2	1	5	1	1	5	7	1	1	2	5	1	1	5	1	5	6	3	6	3	
EVO	5	6	3	6	6	5	4	6	7	7	2	3	6	1	1	1	7	1	1	2	1		1	1	1	5	7	4	7	4	
EVO	6	5	1	2	6	5	2	3	7	7	3	2	5	1	2	5	7	1	1	2	5	2	1	5	1	5	5	2	5	2	
EVO	5	7	2	7	4	5	1	7	6	7	4	4	5	1	2	4	6	1	1	2	1		1	1	1	2	6	3	6	3	
EVO	2	2	2	5	2	3	4	5	5	6	2	3	3	2	3	6	4	1	1	1	6	RG		2	2	1	5	5	1	5	1
EVO	2	2	6	4	5	6	2	6	7	7	2	2	4	1	3	7	5	1	1	1	1		2	1	1	1	6	2	6	2	
EVO	5	4	4	5	4	4	3	5	6	6	2	3	6	3	5	3	5	1	1	1	2		2	1	1	2	5	3	5	3	
EVO	2	3	6	5	3	3	5	5	7	7	2	3	6	2	3	5	5	1	1	1	2		2	1	1	5	5	1	5	1	
EVO	7	5	1	3	6	6	2	2	6	7	1	1	5	1	3	5	5	1	2	1	2		2	2	1	5	5	1	5	1	
EVO	6	5	2	3	4	4	4	4	6	7	2	3	5	1	4	4	6	1	1	1	1		1	1	2	7	2	2	2	2	
EVO	6	5	3	3	6	5	3	3	7	7	1	1	4	1	4	5	5	1	1	1	6	EM		1	6	1	5	1	3	EM	EM
EVO	2	2	1	2	5	5	2	2	7	5	4	4	6	1	1	1	7	1	2	1	1		1	1	1	5	5	2	5	2	
EVO	5	5	3	3	3	4	3	5	5	5	4	4	6	3	3	4	6	1	1	1	5	1	1	3	1	5	5	2	5	2	
EVO	3	2	5	6	4	4	4	4	6	7	3	3	6	1	5	5	4	1	2	1	1		1	2	1	5	3	3	3	3	
EVO	6	5	2	4	6	6	1	3	7	7	2	3	4	1	1	1	7	1	1	2	2		1	2	1	6	6	1	6	1	
EVO	5	5	2	3	6	6	4	4	7	7	1	1	6	1	4	5	2	1	1	1	1		1	1	1	1	4	2	4	2	
EVO	5	4	6	7	6	3	3	5	6	6	2	2	5	5	3	7	6	1	1	1	1		2	2	1	5	1	6	1	6	
EVO	1	1	6	6	5	2	5	2	6	6	2	2	4	1	2	5	5	1	1	1	1		1	1	1	5	5	1	5	1	
EVO	2	1	7	6					4	7	1	1	6	1		6	6	1	1	1	4	1	1	2	1		4	3	4	3	
EVO	6	6	2	2	6	6	2	2	7	7	2	5	5	1	2	2	7	1	1	1	1		2	1	1	5	4	3	4	3	
EVO	3	2	4	2	4	4	4	4	4	4	2	7	6	1	4	4	5	1	1	1	1		1	2	1	2	7	3	7	3	
EVO	4	6	5	6	5	6	5	6	5	6	4	4	5	2	4	6	6	1	1	1	5	2	1	5	1	5	4	4	4	4	
EVO	2	2	4	5	5	5	5	4	6	6	2	2	4	1	2	7	3	2	4	1	4		1	2	1	5	3	3	3	3	
EVO	3	5	5	6	3	2	6	5	6	7	2	3	4	1	3	6	2	1	1	1	1		1	1	1	7	5	3	5	3	
HIS	1	3	5	6	1	2	3	6	2	7	7	5	4	1	2	7	5	1	1	2	2		1	2	1	5	6	3	6	3	
HIS	4	4	4	4	5	5	3	3	4	6	7	7	6	1	2	5	5	1	1	2	5	1	1	2	1	5	4	4	4	4	
HIS	5	5	3	3	4	4	4	4	5	5	7	2	5	1	1	6	6	1	1	2	2		1	2	1	5	4	2	4	2	
HIS	5	4	2	4	5	6	2	2	3	7	3	3	6	1	5	2	6	1	1	1	6	EM		1	6	1	5	1	5	EM	EM

HIS	7	7	1	1	1	1	1	1	4	7	3	3	5	1	1	5	6	1	1	2	5	1	2	4	1	5	3	3	3	3
HIS	3	6	2	2	3	6	2	3	5	7	5	6	4	1	4	4	5	1	1	2	6	EM	1	6	1	5	1	5	EM	EM
HIS	6	6	2	4	7	5	1	6	3	4	5	6	4	2	2	4	6	1	1	2	5	1	1	5	1	5	3	2	3	2
HIS	2	2	6	6	4	4	6	3	4	7	4	2	4	2	2	2	7	1	2	2	1	2	2	1	5	4	1	4	1	
HIS	2	2	6	6	3	3	5	5	2	6	5	2	5	1	2	7	4	1	4	2	1	2	1	1	2	4	3	4	3	
HIS	4	4	7	4	3	4	6	5	5	6	3	2	6	3	5	4	5	1	2	2	4	5	2	2	1	3	3	7	3	7
HIS	5	5	5	3	2	2	7	7	3	6	5	5	3	1	1	5	3	1	4	2	1	1	1	1	5	1	6	1	6	
HIS	3	4	3	3	3	4	4	4	4	5	4	4	3	1	4	6	4	1	2	2	1	2	1	2	6	1	3	1	3	
HIS	1	1	1	1	4	1	1	7	7	7	4	7	7	1	3	7	5	1	3	2	6	EM	1	6	1	5	3	3	EM	EM
HIS	5	5	2	7	5	5	3	7	7	7	7	6	6	1	2	7	1	1	1	2	1	2	1	1	5	2	5	2	5	
HIS	2	6	3	3	2	2	2	6	6	7	5	6	6	1	1	2	6	1	1	2	6	EM	1	6	1	5	4	4	EM	EM
HIS	5	5	5	5	7	7	4	2	5	7	7	6	6	1	3	5	6	1	1	2	5	1	1	5	1	5	2	6	2	6
HIS	3	3	2	3	3	2	2	2	5	7	3	1	5	1	5	7	5	1	1	2	5	DK	2	6	1	5	2	7	2	7
HIS	3	4	5	5	3	6	2	3	1	7	4	2	5	1	3	6	5	1	1	2	5	1	1	5	1	5	3	3	3	3
HIS	2	2	3	6	1	4	1	6	6	7	7	7	5	1	3	7	6	1	1	2	5	1	2	5	1	5	2	6	2	6
HIS	2	2	4	6	3	4	4	5	4	7	4	3	5	2	2	2	6	1	1	2	5	2	1	3	2	5	2	3	2	3
HIS	1	1	7	7	5	5	3	2	7	7	7	4	4	1	6	6	4	1	2	2	5	2	2	3	1	3	2	5	2	5
HIS	5	5	5	5	5	5	3	5	5	5	6	3	6	1	1	7	5	1	1	2	5	2	1	5	1	5	5	2	5	2
HIS	2	5	2	3	4	5	2	6	7	7	7	7	6	1	1	1	6	1	3	2	5	2	1	5	1	5	6	2	6	2
HIS	6	5	4	2	6	7	5	5	6	7	7	7	6	3	1	7	4	1	2	2	1	2	1	1	2	4	3	4	3	3
HIS	3	3	5	5	4	4	4	5	7	7	2	2	6	1	2	6	5	1	2	2	1	2	1	1	5	3	2	3	2	2
HIS	3	5	1	5	5	5	2	2	6	5	6	4	5	1	2	2	6	1	2	2	5	2	1	5	1	5	3	5	3	5
HIS	6	3	5	4	4	2	5	7	6	7	6	4	6	1	1	1	7	1	2	2	1	1	3	1	5	1	5	1	5	5
HIS	4	4	2	3	2	2	3	3	7	7	7	5	5	1	1	1	7	1	2	1	1	1	1	1	5	1	4	1	4	4
HIS	6	6	2	2	5	5	3	3	7	7	6	5	4	1	2	6	5	1	1	1	5	2	2	5	1	5	4	3	4	3
HIS	3	3	5	7	4	4	2	4	7	7	7	2	4	1	3	6	5	1	2	1	5	2	2	3	1	5	5	2	5	2
HIS	3	2	3	6	3	3	5	6	5	7	7	2	4	1	2	6	5	1	1	1	5	2	1	3	1	5	4	1	4	1
HIS	5	3	1	4	6	3	3	4	2	7	6	4	6	1	5	4	5	1	1	1	5	3	2	4	1	6	2	4	2	4
HIS	5	5	3	4	6	6	2	2	7	7	6	1	5	1	3	5	4	1	2	1	1	2	4	1	5	3	5	3	5	5
HIS	2	2	3	3	3	3	3	2	7	7	7	6	6	1	1	7	6	1	2	1	1	2	4	1	5	3	8	3	8	8
HIS	6	5	1	3	3	4	1	5	6	7	6	5	7	1	2	6	6	1	2	1	1	2	2	1	5	1	5	1	5	5
HIS	7	7	1	2	4	5	4	4	7	7	7	7	6	1	1	5	4	1	2	2	6	EM	1	6	1	5	1	3	EM	EM

HIS	6	5	1	3	6	6	2	2	7	7	7	7	5	1	1	7	6	1	2	2	1	2	1	1	3	2	4	2	4	
HIS	1	1	2	7	1	1	5	7	3	5	2	1	2	1	5	6	3	1	2	1	1	1	1	1	1	2	2	2	2	
HIS	1	1	3	6	4	4	4	4	6	7	5	3	4	1	3	5	4	1	1	1	1	1	1	5	3	3	3	3		
HIS	2	1	2	6	4	2	4	6	5	6	7	4	5	1	4	3	5	1	1	1	5	2	1	3	2	3	4	3	4	
HIS	1	5	1	7	2	2	5	7	7	7	7	3	6	1	1	3	2	1	1	1	1	1	2	2	1	5	2	8	2	8
HIS	2	2	7	7	4	4	4	4	6	7	4	2	4	2	4	4	7	1	2	1	4	4	1	2	1	5	4	2	4	2
HIS	4	4	3	3	4	4	3	3	6	6	5	6	6	1	1	6	6	1	2	1	1	1	2	2	1	5	1	5	1	5
HIS	4	5	3	6	6	5	3	6	4	7	5	2	5	1	3	6	5	1	2	1	1	1	1	1	1	5	2	3	2	3
HIS	3	4	6	6	4	4	4	4	7	7	7	7	6	1	1	5	4	1	2	2	6	CH	1	4	1	5	7	1	7	1
HIS	5	5	3	3	4	5	3	3	3	7	5	3	5	1	2	6	6	1	1	1	5	2	2	3	2	5	2	4	2	4
HIS	1	3	5	4					5	7	4	4	5	1	1	7	3	1	1	1	2	2	2	2	1	5	4	3	4	3
HIS	2	3	6	5	6	5	3	3	6	6	6	2	5	1	5	7	5	1	1	1	1	1	2	2	1	5	4	3	4	3
HIS	5	5	3	4	4	4	1	4	6	5	6	6	5	1	1	5	7	1	1	1	6	EM	2	6	1	5	1	4	EM	EM
HIS	4	4	5	5	4	5	5	4	5	7	5	4	7	1	2	5	5	1	1	1	5	2	2	4	1	5	2	3	2	3
HIS	2	2	4	3	1	2	1	4	4	7	4	1	5	1	2	7	3	1	1	1	1	1	2	2	1	5	3	5	3	5
HIS	2	2	6	6	3	2	5	6	6	7	6	6	4	1	1	5	5	1	1	1	1	1	2	2	1	5	4	1	4	1
HIS	2	2	6	6	3	3	3	3	7	7	7	7	5	1	5	7	2	1	1	1	1	1	1	3	1	5	4	3	4	3
HIS	3	2	6	7	2	2	4	6	6	7	7	5	6	1	1	6	6	1	1	1	1	1	2	1	1	5	2	5	2	5
HIS	6	6	3	6	6	6	3	3	6	7	7	5	2	1	1	1	2	1	1	1	6	RG	1	3	1	5				
HIS	1	2	6	7	3	4	7	6	4	6	7	6	5	1	2	7	5	1	1	1	5	2	2	5	1	5	4	4	4	4
HIS	3	5	5	7	5	5	5	5	6	7	4	5	5	1	4	5	5	1	2	1	4	2	2	2	1	5	2	4	2	4
HIS	6	6	3	3	7	4	2	7	6	6	7	7	6	1	1	1	7	1	DK	1	1	1	1	1	5	3	4	3	4	
HIS	4	4	3	6	6	5	3	2	5	6	2	1	4	1	2	7	3	1	1	1	1	1	2	1	1	5	1	2	1	2
HIS	4	4	4	4	4	3	4	6	3	7	6	2	6	1	4	6	5	1	1	1	1	1	2	2	1	5	2	5	2	5
HIS	1	1	2	5	1	1	4	6	6	7	6	6	5	1	1	6	4	1	1	1	1	1	2	1	1	5	3	3	3	3
HIS	5	6	3	2	7	6	3	3	4	6	5	3	6	1	2	5	5	1	1	1	1	1	2	2	1	5	3	3	3	3
HIS	2	1	6	7	4	4	3	5	4	7	4	2	6	1	5	7	3	1	1	1	1	1	2	2	1	7	4	4	4	4
HIS	5	5	4	5	6	6	3	4	6	6	7	3	6	1	3	6	5	1	1	1	1	1	2	1	1	5	1	3	1	3
HIS	5	5	3	3	3	5	2	4	6	6	7	5	6	2	2	5	6	1	1	1	1	1	2	1	2	5	4	2	4	2
HIS	2	5	3	4	4	5	2	3	6	7	6	4	5	1	1	3	5	1	1	1	1	1	1	3	1	5	1	6	1	6
HIS	1	3	2	7	1	1	7	7	6	6	7	6	5	1	2	2	6	1	1	1	5	2	1	4	1	3	3	4	3	4
HIS	2	4	3	3	5	5	5	5	3	7	7	5	5	1	3	6	5	1	1	1	1	1	1	1	1	5	4	3	4	3

HIS	2	3	6	5	2	4	6	5	5	6	5	3	6	2	3	5	5	1	1	1	1	2	1	1	5	3	3	3	3		
HIS	4	5	4	4	5	5	6	4	7	7	5	4	5	1	4	5	5	1	1	1	1	2	1	1	5	2	4	2	4		
HIS	2	2	7	4	1	1	6	4	6	6	3	2	5	1	4	7	4	1	1	1	1	2	1	1	5	1	1	1	1		
HIS	3	3	2	5	4	4	5	3	6	6	5	2	5	1	6	7	3	1	1	1	2	1	2	1	5	5	1	5	1		
HIS	5	7	1	1	5	7	1	1	7	7	7	5	5	1	1	1	7	1	1	1	6	EM	1	5	1	5	1	4	EM	EM	
HIS	2	3	5	6	6	6	2	4	3	7	6	5	4	1	6	7	2	1	1	1	1	2	2	1	5	1	6	1	6		
HIS	4	4	4	5	4	4	4	5	4	7	3	3	3	1	2	7	5	1	1	1	5	2	1	5	1	5	3	3	3		
HIS	1	2	7	6	3	2	6	5	6	7	6	5	5	1	1	7	4	1	1	1	1	2	2	1	5	4	2	4	2		
HIS	2	2	2	2	3	2	2	3	7	7	7	3	4	1	7	7	5	1	1	1	5	1	2	5	1	2	3	6	3	6	
HIS	2	1	5	6	4	4	4	5	6	7	3	4	6	1	1	7	6	1	2	2	4	4	1	2	1	5	5	1	5	1	
HIS	3	2	2	3	3	3	3	4	4	4	4	3	6	1	4	6	4	1	2	2	3	DK	2	2	1	5	3	3	3	3	
HIS	5	3	3	6	3	5	3	6	5	7	4	5	5	2	1	6	5	1	1	1	1	1	1	2	1	5	6	2	6	2	
HIS	5	5	6	6	5	4	5	7	7	7	7	7	5	1	1	5	7	1	1	1	1	1	1	1	1	1	8	1	8		
HIS	5	5	2	2	4	6	2	3	6	7	5	5	4	1	2	5	4	1	1	1	5	2	1	3	2	5	5	2	5	2	
HIS	5	5	2	4																											
HIS	1	1	4	4	4	3	3	5	6	5	6	4	6	1	1	5	4	1	1	1	1	1	1	1	1	4	1	4	1	4	
HIS	6	5	2	6	3	4	5	7	5	6	2	5	4	1	4	6	2	1	1	1	5	2	1	5	1	5	3	4	3	4	
HIS	2	3	7	4	2	3	6	6	7	7	7	4	6	1	1	4	6	1	1	1	1	1	2	2	1	2	3	5	3	5	
HIS	7	4	1	4	2	5	3	3	6	6	4	2	4	1	1	5	5	1	1	1	5	1	1	5	2	5	2	5	2	5	
HIS	1	1	5	3	4	4	4	4	7	7	4	4	7	1	3	7	4	1	1	1	6	RG	2	3	1	3	1	8	1	8	
HIS	6	6	2	3	5	6	2	5	6	7	7	5	4	1	6	5	3	1	2	1	1	1	1	1	5	2	6	2	6		
HIS	1	3	5	5	1	3	6	3	6	7	5	3	7	1	5	5	5	1	3	1	4	4	2	2	1	5	3	3	3	3	
HIS	6	3	4	5	2	4	6	4	5	7	5	2	5	4	2	2	5	1	2	1	1	1	1	1	5	3	3	3	3		
HIS	4	3	4	5	6	6	3	4	6	6	3	4	7	1	2	4	6	1	2	1	1	1	2	2	1	6	4	2	4	2	
HIS	5	3	1	5	6	6	2	4	4	7	6	4	4	1	2	3	4	1	3	2	5	6	1	6	1	5					
HIS	5	3	3	3	5	5	6	6	7	7	5	5	4	1	6	7	2	1	2	1	1	1	2	1	5	2	8	2	8		
HIS	6	6	2	5	2	4	5	2	3	6	6	1	5	1	6	4	5	1	4	1	3	DK	1	6	1	5	2	5	2	5	
HIS	2	4	1	2	2	2	2	2	6	7	6	6	4	1	1	3	4	1	3	1	5	3	1	4	1	5	4	4	4	4	
HIS	6	6	6	6	6	6	6	6	4	5	7	4	6	1	1	6	6	1	3	1	5	2	1	6	1	3	1	5	1	5	
HIS	4	4	5	6	4	5	6	6	6	6	6	5	6	2	3	6	6	1	1	2	1	1	1	1	5	2	4	2	4		
HIS	2	2	5	6	4	4	4	4	5	7	7	6	5	1	6	5	4	1	1	2	3	3	3	2	3	1	5	2	4	2	4
HIS	6	6	1	2	5	5	1	2	7	7	2	4	4	1	2	4	5	1	1	2	6	EM	1	6	1	5	1	3	EM	EM	

HIS	5	5	3	5	5	4	1	5	6	7	4	3	7	1	3	4	5	1	1	2	1	2	1	1	5	2	4	2	4	
LIN	3	3	3	4	3	3	3	3	7	7	5	7	4	1	1	3	6	1	1	2	5	2	1	2	1	5	6	2	6	2
LIN	4	5	7	4	4	3	7	5	7	7	3	2	7	1	1	3	7	1	1	2	1	1	1	1	5	2	4	2	4	
LIN	5	6	1	3	6	7	1	3	6	7	4	4	5	1	1	6	6	1	1	2	5	1	1	5	1	5	4	2	4	2
LIN	7	3	1	3	7	3	1	3	7	7	4	4	6	1	2	7	7	1	1	2	5	1	2	6	1	5	4	2	4	2
LIN	2	2	3	3	2	2	4	3	5	7	2	3	7	1	1	1	7	2	2	6	CP	1	5	1	3	2	6	2	6	
LIN	1	1	4	6	2	2	3	6	7	6	2	2	7	1	3	6	6	1	1	2	1	1	1	1	5	6	2	6	2	
LIN	3	3	6	5	3	2	5	5	7	7	1	2	4	1	3	2	6	1	1	2	1	1	1	1	5	3	4	3	4	
LIN	2	2	5	5	2	2	7	7	7	7	4	2	7	1	4	7	4	1	1	2	1	2	1	1	5	4	4	4	4	
LIN	3	5	1	3	3	4	2	3	7	7	5	2	6	1	4	4	5	1	1	2	1	2	1	1	5	3	4	3	4	
LIN	2	3	5	6	4	6	4	5	7	7	3	3	6	1	2	5	6	1	1	2	5	1	2	2	1	5	4	2	4	2
LIN	3	4	5	5	4	4	4	4	6	7	6	5	3	1	5	4	5	1	1	2	6	RG	1	2	1	5	1	3	1	3
LIN	4	5	5	5	2	3	5	5	7	7	5	3	5	2	2	6	6	1	1	2	1	2	1	1	2	5	2	5	2	
LIN	4	4	4	4	4	4	4	3	7	7	5	5	4	1	3	5	6	1	1	2	2	1	2	1	5	3	3	3	3	
LIN	4	5	4	6	5	5	5	5	6	6	3	4	6	2	4	5	3	1	1	2	5	1	2	2	1	5	3	3	3	3
LIN	5	5	4	5	5	5	4	5	7	6	3	2	6	1	1	6	7	1	2	1	5	1	1	3	1	5	3	3	3	3
LIN	1	2	6	7	2	2	6	6	7	7	2	2	5	1	2	2	7	1	2	1	5	1	2	5	1	5	3	7	3	7
LIN	7	5	4	5	7	4	5	6	7	7	4	4	6	1	4	6	4	1	1	1	1	1	1	1	5	2	2	2	2	2
LIN	4	4	4	4	2	3	4	4	5	6	5	5	7	3	2	4	6	1	1	1	1	1	1	1	2	5	1	5	1	1
LIN	6	4	5	3	5	6	2	4	6	4	2	2	6	1	2	2	2	1	3	1	6	EM	1	6	1	5	2	3	EM	EM
LIN	5	5	3	4	5	5	2	4	6	6	5	5	6	1	1	2	7	1	1	2	5	1	1	5	1	5	3	4	3	4
LIN	7	4	1	6	5	5	2	5	6	6	4	4	5	1	1	5	6	1	2	1	6	RG	1	2	1	5	1	4	1	4
LIN	6	6	1	4	6	1	4	5	7	7	4	2	5	2	1	5	5	1	2	1	6	EM	2	5	1	5	1	1	EM	EM
LIN	5	5	3	4	5	5	2	5	7	7	4	4	5	1	2	2	6	1	1	1	1	1	2	2	1	5	2	8	2	8
LIN	5	7	1	4	3	5	5	6	7	7	7	7	7	1	5	7	7	1	2	1	5	2	2	4	1	2	3	4	3	4
LIN	5	4	4	6	3	3	4	5	7	5	3	3	7	1	1	5	6	1	2	1	5	2	2	2	1	5	3	3	3	3
LIN	3	5	5	2	6	6	2	2	7	6	3	2	7	1	1	2	7	1	2	1	4	1	1	2	1	5	2	3	2	3
LIN	7	7	1	7	7	6	5	2	7	5	1	1	5	1	1	1	7	1	DK	1	6	EM	1	6	1	5			EM	EM
LIN	3	5	2	5	4	4	2	5	6	7	3	2	5	1	2	5	6	1	1	1	4	1	1	3	1	5	6	2	6	2
LIN	5	6	2	5	3	3	1	4	7	7	2	2	7	1	1	5	7	1	1	1	5	2	1	5	1	5	3	4	3	4
LIN	5	5	3	3	3	3	5	5	7	7	2	2	4	1	1	4	7	1	1	1	1	1	1	1	1	5	4	1	4	1
LIN	2	2	6	7	3	2	5	6	7	7	4	2	6	1	2	3	5	1	1	1	1	1	2	1	1	6	4	4	4	4

LIN	6	2	1	6	7	1	7	5	7	7	7	7	6	1	3	7	4	1	1	1	1	2	1	1	5	4	2	4	2	
LIN	5	5	5	4	5	5	6	6	7	7	2	3	6	1	3	5	5	1	2	2	2	1	2	2	5	5	2	5	2	
LIN	5	5	3	6	4	4	3	6	7	7	4	5	5	1	1	1	7	1	1	2	1	2	2	2	2	2	2	2	2	
LIN	2	2	6	7	3	4	2	6	7	7	6	7	5	1	2	1	7	1	1	2	1	2	1	5	5	2	5	2		
LIN	5	5	3	3	5	5	3	3	7	7	1	4	4	4	2	5	7	1	DK	2	1	1	1	5	4	3	4	3		
LIN	5	5	2	4	5	5	2	4	7	6	3	4	6	1	3	5	5	1	1	2	1	2	1	5	4	2	4	2		
LIN	5	5	5	7	5	5	5	6	7	7	5	5	6	1	5	5	5	1	1	2	1	2	1	5	4	2	4	2		
LIN	4	3	2	4	4	5	3	4	6	6	5	3	6	1	1	1	7	1	2	2	6	EM	2	6	1	5	1	1	EM	EM
MAT	1	2	6	6	4	4	5	4	7	7	2	2	5	1	1	5	7	1	1	1	2	1	1	1	5	5	1	5	1	
MAT	2	2	6	6	6	6	2	2	7	7	1	1	3	1	3	3	3	1	1	1	1	1	1	1	5	2	3	2	3	
MAT	6	6	2	2	6	6	4	4	7	7	1	1	4	1	1	6	6	1	1	1	1	1	1	1	4	4	4	4	4	
MAT	5	7	1	3	5	6	2	2	4	5	2	2	2	2	2	6	6	1	1	2	5	2	1	6	1	5	2	4	2	4
MAT	3	3	3	4	3	3	3	4	7	7	2	2	2	2	2	2	5	1	1	1	1	1	2	1	1	5	1	2	1	2
MAT	5	4	4	3	5	4	4	3	6	6	2	3	3	1	2	6	5	1	1	1	5	DK	1	5	1	5	6	4	6	4
MAT	5	5	2	2	6	5	1	2	7	5	4	3	2	1	4	6	3	1	1	2	5	2	1	4	1	5	1	5	1	5
MAT	6	5	2	3	5	3	2	5	7	6	1	2	4	2	2	6	5	1	1	1	1	1	1	1	5	1	2	1	2	
MAT	6	6	1	4	4	4	2	4	7	6	2	3	2	3	3	3	4	1	1	1	1	1	1	1	5	2	4	2	4	
MAT	2	1	2	7	3	4	2	6	7	7	1	2	3	1	2	3	6	1	1	1	1	1	1	1	5	2	3	2	3	
MAT	4	3	3	5	3	2	6	7	7	7	1	1	2	1	4	6	3	1	2	1	1	1	1	1	5	3	3	3	3	
MAT	7	7	1	1	7	7	1	1	7	7	2	2	2	1	1	1	2	1	1	2	5	2	1	6	1	5	4	8	4	8
MAT	7	6	3	7	6	6	3	7	7	7	7	3	4	4	5	4	5	1	1	1	1	1	1	1	2	4	3	4	3	
MAT	7	2	1	1	7	7	1	1	7	2	2	2	3	1	3	4	5	1	1	2	5	1	1	6	1	5	4	2	4	2
MAT	3	3	7	7	3	3	7	7	7	7	1	1	4	1	4	7	7	1	4	1	1	1	1	1	5	6	1	6	1	
MAT	7	3	3	6	6	4	3	6	7	7	1	1	3	1	1	1	7	1	1	1	1	1	1	1	5	4	4	4	4	
MAT	5	6	5	4	7	7	5	4	7	7	3	3	3	3	5	6	3	1	1	1	1	1	1	1	4	2	3	2	3	
MAT	5	7	1	4	7	7	1	1	4	4	2	1	3	1	5	5	5	1	1	1	5	4	1	6	1	5	3	4	3	4
MAT	7	7	5	3	7	7	1	3	7	7	1	1	2	2	3	4	4	1	1	1	1	1	1	1	5	3	2	3	2	
MAT	7	7	1	1	7	7	1	1	7	7	1	1	2	3	4	5	2	1	1	2	5	2	1	4	1	6	5	6	5	6
MAT	6	6	2	3	6	6	2	3	7	6	2	2	2	2	4	5	4	1	1	1	5	1	1	2	1	5	8	2	8	2
MAT	6	6	4	2	7	7	1	1	7	7	1	1	3	1	6	7	4	1	1	1	1	1	2	1	1	5	5	2	5	2
MAT	7	5	4	5	6	7	2	3	6	7	3	3	3	1	3	5	5	1	1	1	1	1	1	1	5	4	2	4	2	
MAT	7	7	1	1	7	7	1	1	4	7	1	1	2	1	1	5	4	1	1	1	1	1	1	1	5	2	3	2	3	



MAT	6	5	1	4	6	6	1	4	7	7	4	4	2	2	3	2	6	1	1	2	5	3	1	3	1	5	3	4	3	4	
MAT	7	6	2	5	6	6	2	4	7	7	1	1	3	4	6	5	5	1	1	1	1		1	1	2	6	6	1	6	1	
MAT	5	3	3	5	5	3	2	7	7	7	1	1	4	1	4	5	4	1	1	2	3	DK	1	2	1	5	4	2	4	2	
MAT	3	1	6	5	5	5	3	3	7	7	1	2	4	1	1	1	7	1	1	1	1		1	1	1	5	2	3	2	3	
MAT	5	3	1	6	5	5	1	6	6	7	2	1	4	1	5	5	4	1	1	1	6	EM		1	4	1	2	4	8	EM	EM
MAT	3	4	3	6	6	6	2	4	7	7	2	2	3	1	2	5	6	1	1	1	5	3	1	5	1	1	3	6	3	6	
MAT	3	3	4	7	4	7	2	7	7	7	1	1	5	1	1	1	7	1	1	1	1		2	1	1	2	7	1	7	1	
MAT	5	5	5	5	6	5	3	5	5	5	5	5	4	4	4	5	4	1	1	1	5	6	2	3	1	5	8	4	8	4	
MAT	6	6	2	3	5	6	2	3	7	6	4	2	3	2	4	4	4	1	1	1	3	DK	1	5	1	5	2	4	2	4	
MAT	2	2	6	6	3	3	5	7	7	7	1	1	4	1	1	5	5	1	1	2	1		1	1	1	5	5	2	5	2	
MAT	2	2	6	6	6	6	2	2	7	7	2	2	3	1	5	6	5	1	1	2	1		2	1	1	5	4	1	4	1	
MAT	3	3	5	5	3	3	5	5	6	5	4	2	1	5	6	2	7	1	1	2	1		1	1	1	2	1	5	1	5	
MAT	1	1	7	7	5	3	3	5	5	6	1	1	3	1	2	5	5	1	1	2	1		1	1	1	5	5	1	5	1	
MAT	1	1	7	7	3	3	5	5	7	7	3	1	3	4	1	4	4	1	1	2	1		1	1	1		1	2	1	2	
MAT	1	4	6	7	7	4	6	7	7	7	1	1	2	1	1	1	5	1	1	2	1		1	1	1	5	8	1	8	1	
MAT	7	5	1	7	6	5	2	5	7	5	1	1	2	4	2	7	6	1	1	2	1		1	1	1	5	3	3	3	3	
MAT	5	5	2	5	5	5	2	5	7	7	2	1	3	2	2	4	4	1	1	2	2		1	1	1	5	3	2	3	2	
MAT	2	2	5	6	4	3	4	5	7	7	2	2	3	1	3	6	4	1	1	2	1		1	1	1	5	2	5	2	5	
MAT	2	5	2	5	2	5	2	5	6	7	2	3	2	4	5	6	4	1	1	2	1		1	1	1	5	2	4	2	4	
MAT	4	5	2	4	4	6	2	5	7	7	1	2	5	4	1	5	6	1	1	2	2		1	2	1	5	4	3	4	3	
MAT	6	5	5	5	6	6	6	6	7	7	2	1	2	4	4	2	6	1	1	1	5	DK	1	4	1	5	5	2	5	2	
MAT	6	6	4	4	7	6	2	2	7	6	2	2	4	3	4	6	2	1	1	2	5	2	1	4	1	5	5	1	5	1	
MAT	6	6	2	2	7	7	1	1	7	7	2	2	3	1	3	7	3	1	1	1	5	1	1	5	1	5	4	1	4	1	
MAT	2	5	3	3	2	5	2	3	7	7	2	2	3	1	5	5	3	1	1	1	5	3	1	5	1	5	4	2	4	2	
MAT	5	5	4	5	7	7	1	2	7	7	2	2	3	1	4	4	4	1	1	1	1		1	2	1	5	4	3	4	3	
MAT	7	7	1	1	7	1	1	7	7	6	2	3	2	7	5	3	7	1	1	1	1		1	1	1	2	5	1	5	1	
MAT	6	4	4	6	4	4	2	4	7	7	4	3	3	6	6	6	6	1	1	1	1		1	1	1	2	5	2	5	2	
MAT	6	6	3	6	6	6	3	6	7	7	4	4	4	4	5	4	5	1	2	1	1		1	2	1	5	3	1	3	1	
MAT	6	5	3	3	7	7	2	2	7	6	2	2	4	1	5	3	5	1	1	1	1		1	2	1	5	2	5	2	5	
MAT	3	6	2	2	6	6	2	2	6	6	2	2	2	4	5	3	5	1	1	1	5	2	1	4	1	5	5	1	5	1	
MAT	7	7	1	1	7	7	1	1	7	6	1	1	3	1	1	6	1	1	1	2	5	2	1	6	1	5	3	7	3	7	
MAT	6	5	2	4	6	5	2	4	7	6	2	2	3	1	6	7	3	1	2	2	1		2	1	1	5	4	3	4	3	

MAT	3	4	3	5	3	3	4	5	6	7	4	3	3	5	6	3	5	1	3	1	1	2	1	1	2	6	3	6	3		
MAT	3	5	5	3	2	3	5	3	7	7	1	1	3	1	2	6	4	1	2	2	1					4	2	4	2		
MAT	5	4	1	7	5	5	1	7	7	7	2	2	3	1	5	5	4	1	2	2	5	4	1	5	1	5	4	2	4	2	
MAT	3	4	1	6	6	5	1	5	7	7	1	1	3	1	2	6	5	1	1	2	5	1	1	3	1	5	5	1	5	1	
MAT	7	7	1	1	7	7	1	1	7	7	1	1	3	1	1	1	7	1	2	2	5	2	1	4	1	5	3	4	3	4	
MAT	6	5	1	3	4	4	4	4	7	7	2	2	4	6	4	2	3	1	1	1	1		2	1	1	5	4	1	4	1	
MAT	6	2	2	6	6	2	2	6	7	6	1	2	4	3	2	4	5	1	2	2	1		1	3	1	5	3	2	3	2	
MAT	7	5	1	5	7	3	1	5	6	6	1	1	3	2	4	6	3	1	2	2	5	3	1	6	1	5	3	3	3	3	
MAT	6	5	3	6	6	5	3	5	7	7	2	3	2	4	4	6	4	1	2	2	1		1	1	1	5	4	3	4	3	
MAT	3	3	6	6	3	3	5	5	7	7	2	2	2	1	1	4	3	2	2	2	6	IN		1	2	1	5	5	1	5	1
MAT	4	6	5	2	5	6	2	4	7	5	1	4	2	3	3	4	4	1	1	1	1		1	1	1	5	2	5	2	5	
MAT	4	3	4	5	3	3	5	6	5	7	1	3	3	5	7	5	3	1	2	1	1		1	1	2	5	1	1	1	1	
MAT	6	6	2	3	6	6	3	3	6	6	2	2	2	2	4	5	6	1	1	1	5	7	1	6	1	5	4	4	4	4	
MAT	5	5	3	1	5	5	1	3	6	6	1	1	3	1	4	6	2	1	3	2	5	6	1	4	1	2	8	3	8	3	
MAT	3	3	7	6	5	5	4	4	5	5	1	1	4	1	4	2	6	1	1	1	1		1	1	1	2	2	3	2	3	
MAT	3	4	4	5	3	3	5	4	5	7	1	1	3	6	5	4	4	1	1	2	1		2	1	1	2	1	1	1	1	
MAT	5	5	3	3	6	6	2	2	6	6	4	4	4	2	6	5	3	1	3	2	3	DK	2	4	1	5	3	2	3	2	
MAT	2	2	5	6	6	6	2	6	7	7	2	2	4	1	1	1	6	1	1	2	3	DK	1	3	1	5	5	1	5	1	
MAT	7	5	1	2	6	7	2	2	7	7	1	1	2	2	1	5	6	1	1	2	1		2	1	1	5	1	2	1	2	
MAT	2	3	4	7	4	5	2	6	5	6	1	2	4	1	4	6	3	1	1	1	1		1	1	1	5	3	2	3	2	
MAT	5	5	5	5	4	4	4	4	5	6	2	2	5	6	5	4	4	1	1	2	1		2	2	1	5	5	4	5	4	
MAT	4	5	6	6	5	5	6	6	7	7	2	2	3	2	4	4	5	1	1	1	1		1	1	1	5	4	2	4	2	
MAT	4	4	4	6	6	6	3	3	7	7	1	1	2	1	2	2	4	1	2	2	1		1	1	1	5	3	2	3	2	
MAT	2	3	3	7	2	3	3	7	7	7	4	4	1	1	5	6	3	1	1	1	1		2	1	1	7	1	2	1	2	
MAT	7	7	4	3	7	7	4	3	7	7	1	1	2	1	4	3	5	1	1	1	5	4	1	3	1	2	4	5	4	5	
MAT	5	2	2	4	6	6	1	4	7	7	2	2	3	1	3	5	3	1	2	1	4	DK	2	2	1	5	1	4	1	4	
MAT	6	5	1	4	7	6	1	2	7	7	2	3	2	4	5	5	3	1	1	1	5	2	1	5	1	5	3	2	3	2	
MAT	6	2	2	5	6	3	2	5	7	7	1	1	4	5	3	7	3	1	1	2	1		1	1	1	5	3	3	3	3	
MAT	6	4	6	6	6	6	3	3	7	7	1	1	4	1	6	6	3	1	1	1	1		2	1	1	2	8	1	8	1	
MAT	6	6	2	5	7	7	2	3	7	7	2	4	3	2	2	6	3	1	1	1	1		1	1	1	5	4	3	4	3	
MAT	5	4	4	6	4	4	4	6	7	7	1	1	4	3	2	5	6	1	1	1	1		1	1	1	5	3	4	3	4	
MAT	3	3	4	7	5	5	4	6	7	7	2	2	3	1	1	5	4	1	1	1	1		2	1	2	5	3	3	3	3	

MAT	5	3	3	3	5	5	3	3	7	7	2	2	2	2	2	7	5	1	1	1	1	1	1	1	1	1	1	7	2	3	2	3
MAT	5	6	2	2	5	6	4	2	7	7	1	2	2	5	5	4	6	1	1	1	5	4	1	4	1	5	3	4	3	4	4	
MAT	4	2	6	5	5	4	2	3	7	7	1	1	3	1	1	1	4	1	1	1	1	1	1	1	5	5	1	5	1	1		
MAT	6	6	1	5	6	5	1	6	7	7	4	4	3	4	5	5	4	1	1	1	6	EM	1	6	1	2	1	6	EM	EM		
MAT	5	5	3	4	6	4	2	4	7	7	1	1	3	1	5	6	2	1	1	1	1	1	1	1	2	7	2	3	2	3		
MAT	6	5	2	3	4	4	4	4	7	7	2	2	3	5	6	4	3	1	1	1	1	1	1	2	1	4	3	4	3	3		
MAT	2	5	5	5	5	6	3	2	7	5	1	2	4	1	6	6	6	1	2	1	1	1	1	1	2	7	5	1	5	1		
MAT	7	4	7	7	7	7	7	4	7	7	3	2	2	1	7	7	5	1	1	1	4	3	2	3	1	5	5	2	5	2		
MAT	6	2	5	6	2	2	6	6	7	7	1	1	1	4	4	1	7	1	3	1	3	3	DK	1	3	5	5	5	5	5		
MAT	4	3	3	5	5	4	4	3	7	7	1	1	3	1	2	4	3	1	1	1	1	1	1	1	2	1	5	3	3	3	3	
MAT	1	1	7	7	1	1	7	7	7	7	1	1	3	1	4	6	4	1	1	1	1	1	1	2	1	1	2	4	2	4	2	
MAT	7	1	7	7	7	1	7	7	6	6	3	3	2	1	1	6	6	1	2	1	3	3	1	1	1	5	4	2	4	2	2	
MAT	7	7	1	4	6	6	2	4	7	7	3	4	4	5	3	4	7	1	1	1	1	1	1	1	1	5	3	3	3	3	3	
MAT	7	4	2	4	6	6	2	2	7	7	2	2	3	1	1	2	3	1	1	1	3	4	1	2	1	5	7	2	7	2	2	
MAT	7	7	1	2	7	7	1	2	6	6	1	1	3	2	3	5	3	1	1	1	5	1	1	4	1	5	4	4	4	4	4	
MAT	4	4	4	4	4	4	4	4	7	7	2	2	1	1	1	1	5	1	1	1	5	1	1	5	1	5	1	5	1	5	1	
MAT	2	6	2	6	6	2	6	2	7	7	2	1	2	3	4	5	5	1	2	1	2	2	1	1	2	1	5	4	1	4	1	
MAT	6	4	2	5	6	4	2	5	7	7	1	1	3	1	1	4	3	1	2	1	1	1	1	1	1	5	4	4	4	4	4	
MAT	6	7	6	1	7	6	2	2	7	5	1	1	4	6	5	7	6	1	1	1	6	1	1	5	1	5	1	4	1	4	4	
MAT	7	6	1	1	4	4	4	4	6	6	2	2	3	1	4	6	4	1	2	1	6	EM	1	6	1	5	1	1	EM	EM	EM	
MAT	5	5	1	3	5	5	2	4	7	7	2	1	2	1	1	7	3	1	1	1	1	1	1	1	1	5	2	2	2	2	2	
MAT	5	7	2	5	5	6	2	4	7	7	1	2	2	4	4	5	2	1	1	1	1	1	1	1	1	5	2	2	2	2	2	
MAT	5	6	3	4	6	6	3	2	7	7	1	1	4	1	3	5	4	1	1	1	6	RP	1	2	1	5	4	3	4	3	3	
MAT	2	2	5	6	5	5	3	4	7	7	2	2	4	1	4	7	2	1	1	1	1	1	1	1	1	5	4	3	4	3	3	
MAT	5	4	3	5	6	6	2	3	7	7	1	1	2	1	4	5	3	1	1	1	1	1	1	1	1	5	6	3	6	3	3	
MAT	6	5	1	3	7	6	2	2	7	7	1	1	3	1	3	6	3	1	1	1	5	1	1	4	1	5	3	3	3	3	3	
MAT	4	5	2	6	4	5	2	6	7	4	2	2	2	4	6	6	6	1	3	1	1	1	1	1	1	2	5	3	5	3	3	
MAT	7	7	1	3	7	7	1	3	7	7	2	6	2	7	6	7	7	1	1	1	1	1	1	1	1	2	7	2	7	2	2	
MAT	6	5	1	2	6	5	1	3	7	7	3	1	3	7	7	7	7	1	1	1	6	AD	1	4	1	5	5	2	5	2	2	
MAT	4	2	4	6	6	6	2	5	6	7	2	1	3	1	3	7	5	1	1	1	1	1	1	1	1	5	2	2	2	2	2	
MAT	7	7	1	6	7	7	2	7	7	7	2	2	5	3	4	4	4	1	2	1	6	EM	1	6	1	5	1	3	EM	EM	EM	
MAT	7	5	1	3	6	5	2	3	4	5	3	5	3	3	4	3	5	1	2	2	1	1	1	1	7	1	3	1	3	3	3	

MAT	6	2	2	6	5	3	3	5	7	7	2	2	2	1	1	1	7	1	1	2	3	2	1	3	4	3	4	3			
MAT	6	5	1	2	6	6	1	1	7	7	1	1	3	1	2	7	6	1	1	1	5	3	1	4	1	5	5	3	5	3	
MAT	2	2	6	6	5	5	3	5	6	6	2	2	2	1	2	4	3	1	1	2	1	1	1	1	5	2	5	2	5		
MAT	5	5	3	6	6	6	2	4	7	7	2	2	2	1	3	7	2	1	1	2	1	1	1	1	5	4	3	4	3		
MAT	4	3	3	4	4	3	3	4	6	7	1	2	3	2	4	7	3	1	1	2	1	1	1	1	5	4	2	4	2		
MAT	7	7	1	1	7	7	1	2	7	7	1	1	3	1	7	7	1	1	1	2	2	2	1	1	5	5	3	5	3		
MAT	6	6	1	2	7	7	1	1	7	7	1	1	3	1	4	7	2	1	1	1	5	3	1	2	1	5	4	3	4	3	
MAT	5	5	7	6	6	7	6	6	6	6	4	5	4	5	6	5	7	1	2	1	6										
MAT	6	6	3	4	5	6	2	2	6	6	3	3	3	1	3	7	3	1	1	2	2	2	1	1	5	5	1	5	1		
MAT	3	6	2	6	3	4	3	5	7	7	2	2	5	1	1	7	2	1	1	1	4	DK	1	2	2	5	6	2	6	2	
MAT	6	7	1	3	6	7	3	5	7	6	1	2	4	5	4	3	4	1	1	1	2			2	1	5					
MAT	3	2	5	5	3	5	3	6	7	7	4	5	2	1	3	4	1	1	2	2	1			1	1	1	5	2	2	2	2
MAT	4	7	4	7	4	7	4	6	7	7	1	1	4	1	4	1	7	1	1	2	1			1	1	1	2	6	2	6	2
MES	4	5	3	2	5	5	2	3	5	7	7	3	5	1	2	2	6	1	1	1	5	2	1	3	1	5	5	4	5	4	
MES	6	6	2	2	2	2	4	2	2	2	3	2	5	2	3	5	5	1	1	1	5	1	1	6	1	5	2	6	2	6	
MES	4	4	4	3	4	3	4	3	3	7	4	3	3	3	5	5	3	2	2	1	3			1	5	3	3	3	3	3	
MES	6	6	4	3	3	3	3	3	7	7	7	7	3	3	6	6	2	2	DK	1	5	3	1	4	1	6	2	4	2	4	
MES	7	7	5	6	6	7	5	5	7	7	7	6	6	1	1	4	1	1	1	1	5	2	1	6	1	2	1	5	1	5	
MES	4	4	4	6	4	4	3	5	5	7	4	3	1	1	4	6	2	1	2	1	1			1	2	1	5	2	6	2	6
MES	2	2	7	7	2	2	7	6	3	3	7	7	4	6	6	4	7	1	3	1	3	4	2	5	1	5	3	3	3	3	
MES	3	6	2	2	2	2	4	4	7	6	7	6	4	5	4	4	3	1	2	1	1			2	1	1	5	3	1	3	1
MOL	6	5	2	4	5	6	2	5	6	7	2	5	6	2	3	6	4	1	2	2	5	2	1	3	1	5	6	1	6	1	
MOL	2	2	2	2	6	6	2	2	6	6	7	7	6	1	5	6	5	1	2	2	3	2	1	5	1	5	7	1	7	1	
MOL	5	5	4	5	3	3	6	6	6	5	1	1	6	4	2	5	5	1	2	2	1			1	1	1	5	5	1	5	1
MOL	4	4	4	4	4	4	4	4	7	7	4	4	6	4	4	6	2	1	1	2	3	DK	2	5	1	5	5	2	5	2	
MOL	2	2	6	6	4	4	4	4	6	7	2	3	6	1	4	7	5	1	2	2	5	2	1	3	1	5	5	3	5	3	
MOL	3	2	4	6	3	2	4	5	7	7	1	1	6	1	1	5	4	1	1	2	2			2	2	1	6	5	2	5	2
MOL	5	5	3	5	5	5	3	5	6	5	4	3	5	1	1	3	7	1	1	2	2			1	1	1	2	6	1	6	1
MOL	2	2	4	3	4	4	3	5	5	7	4	6	6	1	5	7	4	1	1	2	4	3	2	3	1	5	4	2	4	2	
MOL	4	6	2	2	2	2	5	6	6	6	1	1	5	2	1	1	5	1	1	2	5	5	1	4	1	5	5	1	5	1	
MOL	3	3	5	6	5	5	3	3	5	6	3	3	6	3	3	5	5	1	2	2	1			2	1	1	5	5	2	5	2
MOL	4	3	2	2	5	4	3	3	5	6	1	2	5	1	1	2	7	1	1	2	1			2	1	1	5	5	2	5	2

MOL	5	4	5	3	6	6	3	3	7	7	2	1	6	2	2	5	6	1	2	2	1	2	2	2	5	3	1	3	1	
MOL	5	6	2	6	5	6	4	3	7	7	5	5	3	1	2	2	6	1	1	2	4	4	1	3	1	5	8	2	8	2
MOL	5	2	2	6	5	5	5	5	7	6	6	5	7	5	5	6	7	1	2	2	1	1	1	1	2	6	2	6	2	
MOL	4	7	1	1	2	7	1	4	7	7	2	2	5	1	4	7	5	1	1	2	2	1	1	1	5	6	2	6	2	
MOL	5	5	2	2	5	5	3	3	5	6	2	4	5	1	4	4	4	1	2	2	1	2	1	1	5	5	2	5	2	
MOL	5	3	4	6	3	5	3	6	6	6	2	2	5	1	2	6	2	1	2	2	1	2	2	2	5	6	1	6	1	
MOL	5	3	6	6	3	2	7	6	6	6	2	2	5	1	1	4	5	1	1	2	1	2	1	1	5	5	1	5	1	
MOL	2	1	7	7	2	1	6	6	7	7	4	4	3	1	2	2	6	1	1	2	1	1	1	1	5	5	8	5	8	
MOL	5	5	3	4	5	5	3	5	7	7	2	2	5	1	3	5	5	1	1	2	4	1	2	2	1	5	7	2	7	2
MOL	1	6	5	1	1	1	2	5	6	7	3	2	5	1	1	4	3	1	1	2	1	2	2	2	5	5	1	5	1	
MOL	4	5	4	5	4	5	4	6	6	7	4	4	5	2	4	6	5	1	1	2	5	4	1	3	1	5	7	1	7	1
MOL	4	4	3	5	3	4	4	5	6	6	2	3	5	1	3	5	3	1	1	2	1	1	1	1	5	5	2	5	2	
MOL	5	4	5	5	3	3	5	6	6	7	1	2	5	1	2	7	7	1	1	2	1	2	1	1	5	5	1	5	1	
MOL	5	4	5	7	5	6	3	4	6	7	3	3	6	1	4	6	6	1	1	2	1	1	1	1	3	6	1	6	1	
MOL	4	5	4	3	4	4	3	5	6	7	2	4	5	3	3	3	6	1	1	2	1	1	1	1	5	5	2	5	2	
MOL	1	1	7	7	3	3	5	5	5	7	1	1	6	1	3	7	1	1	1	2	1	2	1	1	5	5	2	5	2	
MOL	1	2	7	7	6	6	4	4	5	5	1	1	4	1	4	4	6	1	1	2	1	1	1	1	2	8	1	8	1	
MOL	3	2	6	6	3	6	5	6	4	7	1	2	8	2	3	5	7	1	1	2	1	1	1	1	5	5	1	5	1	
MOL	2	3	5	6	3	4	4	6	7	7	2	3	6	1	2	5	6	1	1	2	1	2	1	1	5	6	1	6	1	
MOL	1	1	6	2	4	7	5	1	5	7	1	1	7	1	1	1	7	1	1	2	1	1	1	1	2	7	8	7	8	
MOL	6	5	2	5	5	5	2	5	6	7	1	1	5	1	4	6	4	1	2	2	1	2	2	1	5	6	1	6	1	
MOL	5	5	3	4	7	4	3	3	6	6	2	2	6	1	5	7	5	1	1	2	1	2	1	1	2	5	1	5	1	
MOL	6	6	6	5	5	5	6	4	7	7	2	3	4	1	2	7	7	1	1	2	1	1	1	1	5	5	2	5	2	
MOL	4	3	2	6	2	3	4	6	7	7	3	3	5	1	4	7	4	1	1	2	1	1	1	1	5	5	1	5	1	
MOL	5	3	4	5	5	5	2	5	6	7	2	2	6	1	2	4	5	1	2	2	1	2	2	1	5	6	1	6	1	
MOL	6	6	2	2	6	6	3	2	2	2	6	6	5	2	4	5	4	1	1	2	5	2	1	5	5	5	2	5	2	
MOL	2	3	5	5	2	3	5	5	6	6	2	3	6	1	1	5	7	1	1	2	1	2	1	1	2	6	1	6	1	
MOL	4	4	6	5	3	5	5	5	7	7	2	3	6	1	2	1	7	1	1	2	1	1	1	1	5	5	2	5	2	
MOL	2	2	6	5	3	3	6	5	7	7	1	1	6	1	1	2	7	1	1	1	1	1	1	1	5	6	1	6	1	
MOL	2	2	6	6	3	4	3	6	7	7	3	5	6	1	1	5	7	1	2	1	1	1	1	2	5	5	1	5	1	
MOL	1	6	7	7	1	6	7	7	7	7	3	3	6	6	6	7	6	1	1	1	1	1	1	1	2	7	1	7	1	
MOL	4	5	1	3	5	3	1	4	5	5	1	1	6	1	3	3	3	1	2	1	1	1	1	1	5	5	2	5	2	



MTC	6	6	2	5					5	3	4	4	2	1	5	3	6	1	1	2		1		1	2	1	5	5	2	5	2	
MTC	5	6	4	4	3	5	5	5	7	6	2	3	1	1	5	3	5	1	1	2		1		2	2	1	7	1	7	1	7	
MTC	3	2	6	6	6	6	3	4	6	7	4	4	7	1	5	5	6	1	3	2		3	DK	2	2	1	5	1	6	1	6	
MTC	6	7	1	1	5	6	2	2	7	7	6	5	3	1	1	4	6	1	1	1		5		3	2	4	1	5	3	3	3	3
MTC	5	5	3	3	6	6	2	4	5	5	4	4	4	1	1	4	5	1	1	1		5		3	1	4	1	5	3	3	3	3
MTC	5	5	2	4	5	5	2	4	6	6	3	3	4	3	3	5	3	2	3	1		5										
MTC	3	4	2	3	4	4	2	3	7	3	7	3	3	1	1	4	4	1	1	3		5		1	1	2	1	5	3	4	3	4
MTC	2	2	3	5	3	2	3	4	6	6	2	3	3	1	2	2	5	1	1	1		5		3	1	4	1	5	6	2	6	2
MTC	4	4	5	5	5	4	3	3	6	6	2	2	3	1	1	4	4	1	4	1		4		8	1	2	1	5	4	1	4	1
MTC	5	5	5	5	6	6	1	4	4	4	7	2	2	2	1	3	2	1	1	2		1			1	1	1	5	4	2	4	2
MTC	6	5	2	4	4	3	4	5	6	5	5	6	2	1	2	6	2	1	2	2		1			1	1	1	5	2	8	2	8
MTC	5	6	2	6	3	4	5	6	6	5	7	3	3	1	1	5	3	1	1	2		1			1	1	1	5	2	5	2	5
MTC	3	4	6	6	5	4	5	5	7	7	7	2	3	1	2	5	5	1	1	1		3		1	1	4	1	5	5	4	5	4
NEU	5	6	5	2	5	6	5	4	5	5	2	2	3	1	3	5	5	1	1	2		5		2	2	5	2	5	5	2	5	2
NEU	1	1	6	7	1	2	6	6	7	7	3	2	6	1	1	7	4	1	1	1		1			2	1	1	5	4	2	4	2
NEU	5	5	6	6	5	5	6	6	6	6	5	5	6	1	2	5	5	1	1	2		5		3	1	5	1	5	5	2	5	2
NEU	2	1	5	5	2	1	6	6	7	7	4	4	4	1	2	6	4	1	2	1		1			2	2	1	5	4	2	4	2
NEU	2	2	1	4	3	3	3	5	6	6	4	4	7	2	3	4	5	1	1	2		1			2	2	1	6	6	2	6	2
NEU	4	3	5	7	4	4	6	6	7	7	3	4	5	1	2	2	6	1	1	2		1			2	2	1	5	5	2	5	2
NEU	2	2	5	4	2	3	5	2	7	7	3	3	7	1	3	5	6	1	1	2		1			2	1	1	3	4	2	4	2
NEU	6	5	3	3	2	4	3	4	5	5	5	4	6	3	4	3	6	1	1	2		1			1	1	1	5	5	2	5	2
NEU	3	3	5	5	4	4	4	4	7	7	4	4	5	1	1	6	5	1	2	2		1			2	1	1	5	5	2	5	2
NEU	2	3	3	6	1	2	6	6	7	7	3	5	5	1	2	5	4	1	1	2		1			2	1	1	5	5	1	5	1
NEU	7	5	2	6	7	6	2	6	3	6	4	4	8	1	1	7	7	1	1	2		1			2	1	1	5	5	1	5	1
NEU	3	5	4	3	2	4	6	5	6	6	3	4	6	1	1	6	6	1	1	2		1			1	1	1	3	4	3	4	3
NEU	2	1	6	6	3	2	5	5	5	5	3	6	7	1	2	7	6	1	2	2		1			2	1	1	5	4	1	4	1
NEU	5	4	6	5	3	5	6	4	7	7	4	2	6	1	1	4	7	1	1	2		1			2	1	1	5	5	3	5	3
NEU	2	4	2	4	5	5	2	3	3	4	2	2	6	2	2	4	7	1	2	2		1			1	1	1	5	3	3	3	3
NEU	5	7	1	2	4	5	2	3	6	7	3	4	5	1	2	6	6	1	1	2		1			2	1	1	5	5	1	5	1
NEU	6	5	3	3	3	3	5	5	6	7	1	1	5	2	2	1	7	1	1	2		1			1	2	1	5	5	1	5	1
NEU	2	4	3	4	3	4	4	5	6	6	3	3	4	2	2	6	5	1	2	1		5		3	1	4	1	5	6	2	6	2
NEU	2	2	6	6	6	3	5	2	6	7	3	3	5	1	5	6	3	1	1	2		1			2	1	1	5	7	1	7	1

NEU	2	2	4	4	4	5	4	6	7	7	4	6	7	3	4	6	5	1	2	1	1	2	1	1	5	5	2	5	2	
NEU	5	5	3	4	4	2	3	4	5	7	2	3	7	1	3	6	4	1	1	2	1	2	2	1	5	4	2	4	2	
NEU	1	2	7	5	2	2	7	5	5	7	4	3	4	1	2	6	3	1	1	2	1	1	1	7	4	4	4	4		
NEU	2	3	2	7	4	4	4	5	7	7	3	2	6	1	4	5	4	1	1	2	1	2	1	5	6	1	6	1		
NEU	4	4	5	6	4	4	5	5	6	7	3	3	6	1	4	7	4	1	2	1	2	2	1	5	5	2	5	2		
NEU	2	5	4	4	4	4	2	5	7	7	3	3	4	4	5	6	7	1	1	2	1	2	1	5	2	2	2	2		
NEU	3	5	2	3	3	3	5	5	4	6	5	5	6	5	5	6	4	1	1	2	1	1	1	5	7	1	7	1		
NEU	6	4	5	7	5	2	5	5	6	7	5	3	6	1	2	6	6	1	1	2	1	2	1	5	6	2	6	2		
NEU	2	2	6	6	2	3	5	5	6	6	5	3	5	2	5	6	4	1	1	2	1	2	1	5	6	1	6	1		
NEU	6	6	2	2	5	5	3	3	6	7	2	3	5	1	2	6	3	1	1	2	1	1	1	5	6	1	6	1		
NEU	7	7	1	1	5	5	1	1	7	7	2	2	5	1	5	5	3	1	1	2	1	2	1	5	6	1	6	1		
NEU	5	5	5	4	5	5	4	4	7	7	4	4	4	2	3	6	4	1	2	1	1	1	2	5	1	5	1	1		
NEU	5	5	1	2	6	6	1	3	6	6	5	5	6	1	5	7	5	1	1	1	2	2	1	5	5	2	5	2		
NEU	5	3	2	3	4	4	4	5	5	5	5	5	5	3	4	5	5	1	2	1	1	1	5	2	2	2	2	2		
NEU	4	4	4	4	4	3	3	5	7	6	5	3	5	2	3	5	6	1	2	1	3	4	2	3	1	5	2	4	2	4
NEU	5	5	2	5	5	5	4	5	7	7	5	6	6	1	5	7	5	1	1	2	1	2	1	5	2	6	2	6		
NEU	7	7	1	2	5	5	4	5	7	5	5	5	4	3	4	5	5	1	1	2	5	1	1	2	1	5	5	2	5	2
NEU	3	4	5	5	3	5	6	4	6	6	5	6	5	2	4	3	6	1	1	2	1	1	1	5	2	3	2	3		
NEU	4	6	2	2	5	5	3	3	6	6	3	3	6	1	5	5	3	1	2	2	5	3	2	3	1	5	7	1	7	1
NEU	4	4	4	4	6	5	6	6	6	6	3	3	4	1	2	5	5	1	1	2	1	2	1	5	4	2	4	2		
NEU	5	5	3	6	3	2	5	6	5	5	3	2	5	5	2	7	6	1	1	2	1	2	1	2	5	3	5	3		
NEU	3	2	5	5	4	4	4	4	5	6	2	2	5	1	4	7	4	1	1	2	5	4	1	4	1	5	6	1	6	1
NEU	5	6	3	6	4	4	3	6	6	6	3	3	5	1	2	2	4	1	1	2	5	1	1	3	1	5	6	1	6	1
PHI	4	5	1	3	6	6	1	2	7	5	5	4	4	1	4	6	2	1	1	2	5	1	2	4	1	5	3	3	3	3
PHI	5	5	4	4	5	5	3	4	7	7	6	6	3	1	6	7	3	1	2	2	1	2	2	1	5	1	4	1	4	
PHI	6	6	1	6	6	6	1	6	7	7	4	2	5	1	2	5	4	1	3	2	5	1	1	4	1	5	5	2	5	2
PHI	3	7	1	2	4	7	1	3	7	7	3	2	3	1	5	7	1	1	2	2	1	2	1	5	5	2	5	2		
PHI	5	5	6	6	6	6	5	5	7	7	2	7	2	3	6	7	3	1	1	2	1	2	1	5	4	2	4	2		
PHI	6	6	1	2					6	6	4	2	2	1	2	5	4	1	1	2	1	2	1	5	3	5	3	5		
PHI	6	5	2	3	7	6	2	2	7	6	3	4	4	5	6	3	3	1	1	2	1	2	1	5	3	1	3	1		
PHI	7	6	1	4	7	7	2	2	5	7	4	2	5	1	4	6	5	1	1	2	5	1	1	4	1	6	2	5	2	5
PHI	6	5	1	3	5	4	1	3	7	7	5	3	3	1	1	4	5	1	1	2	5	1	1	3	1	5	4	2	4	2



PHI	6	5	1	3	5	6	1	4	7	7	3	1	3	1	3	7	5	1	1	2	1	2	1	1	5	1	3	1	3				
PHI	5	5	4	4	6	6	4	2	6	7	6	4	2	2	3	5	3	1	1	2	1	1	1	1	5	3	2	3	2				
PHI	4	5	1	2	4	5	1	3	7	7	4	3	3	1	3	7	1	1	3	2	4	1	2	2	2	5	2	3	2	3			
PHI	5	5	1	3	5	5	1	4	6	7	5	5	4	1	1	2	7	1	1	2	1	1	1	1	5	6	1	6	1				
PHI	4	5	3	3	4	5	2	3	6	6	4	3	3	1	1	5	4	1	1	2	1	1	1	1	5	2	2	2	2				
PHI	6	6	1	4	6	6	1	4	7	7	3	3	3	1	2	5	3	1	1	2	1	1	1	1	5	2	3	2	3				
PHI	7	7	1	5	6	6	2	2	7	7	5	3	3	1	2	7	2	1	1	2	4	1	1	2	2	5	3	3	3	3			
PHI	6	6	2	2	2	6	2	6	7	7	7	2	2	2	2	6	2	1	1	2	1	1	2	1	2	1	5	1	5				
PHI	6	7	1	4	7	7	1	2	7	7	1	2	3	5	3	4	3	1	1	2	1	1	2	1	2	1	5	1	5				
PHI	6	6	2	4	6	6	1	5	7	7	4	2	3	4	5	5	3	1	1	2	1	1	2	1	1	1	5	3	1	3	1		
PHI	6	6	5	4	5	5	5	5	7	7	4	4	4	1	1	5	7	1	1	2	1	1	2	1	1	2	7	4	1	4	1		
PHI	4	6	3	3	5	6	5	4	7	5	2	2	3	7	5	6	3	1	1	2	1	1	2	1	1	1	5	2	4	2	4		
PHI	6	6	1	3	7	6	2	3	7	7	5	2	2	1	1	4	6	1	1	2	1	1	2	1	2	1	1	1	5	1	4	1	4
PHI	5	5	1	6	5	5	2	3	7	7	1	1	2	1	5	7	1	1	1	2	2	1	2	1	2	1	5	3	3	3	3		
PHI	4	5	1	5	4	4	2	6	7	7	5	3	3	1	4	4	4	1	1	2	1	1	2	1	1	1	5	3	2	3	2		
PHI	6	6	2	2	6	5	3	3	6	7	2	1	3	2	3	6	4	1	1	2	1	1	2	1	1	1	5	1	2	1	2		
PHI	7	5	1	4	6	6	1	4	7	7	7	2	3	1	6	7	1	1	1	2	4	2	2	3	1	5	1	4	1	4	4		
PHI	5	4	2	2	6	6	2	3	7	6	2	2	3	1	5	6	2	1	1	2	1	1	2	1	1	1	5	2	4	2	4	4	
PHI	5	6	2	5	7	7	1	1	7	7	5	6	3	1	4	7	3	1	3	2	1	1	2	1	1	1	5	2	4	2	4	4	
PHI	6	6	1	2	6	6	1	2	6	7	2	2	3	4	4	4	5	1	1	2	5	1	1	5	1	5	3	4	3	4	4		
PHI	6	7	1	4	6	6	1	4	7	7	4	7	4	3	6	2	2	1	1	2	1	1	2	1	2	2	2	2	2	2	2		
PHI	6	7	1	3	5	6	2	3	7	6	5	5	3	4	2	4	4	1	1	1	5	1	1	1	5	1	5	1	5	1	5		
PHI	5	5	3	3	5	5	2	3	6	5	2	2	3	3	2	3	6	1	1	1	1	1	1	1	1	5	7	1	7	1	1		
PHI	6	7	1	2	1	1	7	7	7	7	5	5	3	1	5	5	3	1	1	1	1	1	1	1	1	5	1	5	1	5	1	5	
PHI	3	5	3	5	6	6	2	2	7	7	5	6	3	1	5	6	2	1	1	1	5	1	2	4	1	5	3	4	3	4	4		
PHI	5	5	3	3	5	5	3	3	7	7	4	2	4	1	4	6	2	1	1	1	5	1	1	3	1	6	1	5	1	5	1	5	
PHI	5	5	3	5	6	6	2	3	6	7	3	3	3	2	6	7	2	1	1	1	5	1	2	3	1	5	3	3	3	3	3		
PHI	5	5	1	5	6	6	1	2	6	7	2	3	3	1	5	7	1	1	1	1	1	1	1	1	1	2	2	3	2	3	3		
PHI	6	6	1	2	6	6	2	2	5	5	2	2	4	1	1	4	3	1	1	2	1	1	2	1	2	2	5	2	5	2	5		
PHI	2	4	2	3	4	5	1	2	7	7	6	5	3	1	3	7	2	1	1	1	5	3	1	2	1	5	3	3	3	3	3		
PHI	2	6	2	6	7	6	2	2	7	7	4	3	3	2	3	5	4	1	1	1	4	2	1	3	1	2	2	8	2	8	8		
PHI	4	5	2	4	4	4	2	4	7	7	2	3	2	1	3	6	3	1	1	1	1	1	1	1	5	1	5	1	5	1	5		

PHI	5	4	7	6	3	5	3	4	5	4	7	3	4	6	4	4	2	1	1	2	1	1	1	1	5	4	2	4	2	
PHI	3	5	3	6	3	5	4	6	7	7	4	2	2	1	3	6	3	1	1	1	1	1	1	1	5	3	1	3	1	
PHI	6	7	1	3	6	6	1	2	7	7	2	1	3	2	5	5	3	1	1	1	1	1	1	5	3	4	3	4		
PHI	2	3	5	6	3	3	4	5	7	6	5	4	4	1	2	3	3	1	1	1	3	1	1	2	1	5	1	5	1	5
PHI	5	5	3	4	5	4	3	4	6	7	5	5	3	2	4	5	4	1	1	1	1	1	2	1	5	2	3	2	3	
PHI	4	4	3	5	7	5	4	5	6	6	6	4	2	2	5	7	1	1	2	2	1	1	2	1	5	2	3	2	3	
PHI	6	6	2	3	4	4	4	4	7	7	5	4	3	2	1	2	7	1	2	2	1	1	2	1	5	2	4	2	4	
PHI	2	4	1	6	3	5	1	4	7	7	3	3	3	1	1	6	4	2	4	1	4	1	2	2	1	5	4	2	4	2
PHI	3	4	3	3	4	4	4	4	7	5	6	4	2	1	4	7	2	1	2	2	1	1	2	2	5	2	3	2	3	
PHI	2	2	6	5	7	7	1	1	5	7	5	4	3	1	3	7	3	1	1	2	4	1	2	2	1	5	2	3	2	3
PHI	6	6	1	6	6	6	2	7	7	7	5	2	3	1	3	7	2	1	2	2	1	1	2	1	3	2	3	2	3	
PHI	5	5	2	2	6	7	1	7	7	7	3	1	2	1	2	7	2	1	2	2	5	2	1	3	1	5	4	3	4	3
PHI	5	5	4	6	4	5	4	3	7	7	5	3	4	1	3	7	2	1	1	2	1	1	2	1	5	2	4	2	4	
PHI	7	7	1	1	7	7	1	1	7	7	4	3	2	4	4	4	4	1	2	2	3	DK	1	2	1	5	5	2	5	2
PHI	2	4	2	6	4	4	2	4	6	7	4	4	3	1	4	5	3	1	1	3	1	1	3	1	5	5	2	5	2	
PHI	6	6	2	6	6	6	2	6	7	7	5	3	4	1	7	7	1	1	2	2	1	1	2	2	5	8	1	8	1	
PHI	2	2	3	7	4	6	4	6	7	7	4	7	2	1	6	7	1	1	2	2	3	DK	1	2	1	5	2	4	2	4
PHY	3	4	3	3	3	4	2	3	5	4	3	4	1	2	1	2	3	1	1	2	2	1	2	1	5	3	2	3	2	
PHY	6	6	1	2	6	6	1	7	6	7	1	1	2	4	6	7	1	1	4	2	6	EM	1	6	1	5	1	3	EM	EM
PHY	5	5	2	4	6	6	1	3	7	7	2	3	2	1	3	6	2	1	1	1	4	2	2	2	1	5	5	3	5	3
PHY	2	4	7	7	1	4	6	7	7	7	1	1	2	4	4	4	4	1	2	2	4	DK	1	2	1	5	8	2	8	2
PHY	3	5	2	6	5	6	2	5	7	7	3	4	4	1	5	7	4	1	2	2	2	1	2	1	5	5	2	5	2	
PHY	7	7	2	3	6	6	2	3	6	7	1	1	3	5	6	7	6	1	2	2	5	6	1	4	1	2	2	5	2	5
PHY	4	6	1	3	4	7	1	3	7	7	5	3	2	2	4	5	5	1	2	2	5	4	2	4	1	5	4	2	4	2
PHY	1	2	2	7	1	2	2	7	7	7	2	3	3	1	2	1	7	1	2	2	1	1	2	2	1	5	2	5	2	
PHY	6	6	2	4	6	6	2	4	7	6	1	2	2	5	5	5	3	1	1	2	5	2	1	4	1	5	5	2	5	2
PHY	6	5	5	5	6	6	3	3	6	6	3	3	4	3	2	5	4	1	1	2	6	EM	1	6	1	5	5	2	EM	EM
PHY	3	5	3	4	4	4	4	4	6	6	2	2	2	3	3	7	1	1	2	2	1	1	2	2	1	5	5	2	5	2
PHY	6	6	2	2	6	4	4	3	7	7	1	1	3	1	4	7	7	1	2	2	1	1	2	1	5	1	4	1	4	
PHY	5	6	7	2	5	2	6	7	6	5	5	1	3	5	5	5	6	1	2	2	2	1	1	1	2	7	3	7	3	
PHY	6	5	5	4	5	5	5	5	6	6	2	2	4	2	2	2	4	1	DK	2	2	1	1	1	2	6	1	6	1	
PHY	4	5	3	4	6	6	1	2	7	7	2	3	2	1	4	7	2	1	1	2	2	1	2	1	5	8	3	8	3	

PHY	4	4	4	4	6	6	3	3	7	7	2	2	3	1	3	6	2	1	2	2	5	3	1	3	5	6	1	6	1	
PHY	7	7	1	1	7	7	1	1	7	7	1	1	1	1	1	7	5	1	1	2	5	3	1	4	1	2	5	3	5	3
PHY	7	7	7	7	7	7	7	7	5	6	5	4	2	1	5	2	2	1	1	2	1		2	1	1	2	6	1	6	1
PHY	5	5	3	3	6	3	6	3	6	6	2	2	3	1	3	5	3	1	2	2	3	9	1	5	1	5	5	1	5	1
PHY	2	3	1	5	2	2	1	3	7	6	1	1	2	4	6	4	3	1	3	2	5	6	1	4	1	5	5	1	5	1
PHY	4	5	3	6	5	5	3	3	6	6	4	3	4	1	6	6	3	1	2	2	1		1	1	1	5	5	2	5	2
PHY	6	5	5	4	7	7	1	3	6	6	2	2	2	1	2	2	4	1	1	2	1		1	1	1	5	5	1	5	1
PHY	5	5	2	2	6	6	1	2	7	7	1	1	3	1	3	7	5	1	1	1	5	3	1	4	1	5	4	3	4	3
PHY	3	5	3	3	7	7	1	1	7	7	2	2	2	1	4	7	2	1	1	1	5	3	2	3	1	5	6	2	6	2
PHY	6	5	2	5	5	6	7	4	7	7	1	1	2	2	5	7	2	1	1	1	1		2	1	1	5	7	1	7	1
PHY	6	4	4	4	6	6	2	3	7	7	1	1	3	1	3	2	6	1	1	1	1		2	1	2	5	4	4	4	4
PHY	5	3	5	4	5	5	3	3	6	6	2	4	4	1	3	6	3	1	DK	1	2		2	1	1	5	5	1	5	1
PHY	5	5	3	3	5	6	2	3	6	6	2	3	3	2	4	7	4	1	1	1	1		1	1	1	5	2	6	2	6
PHY	3	3	5	6	3	6	5	5	7	7	1	2	3	1	4	6	2	1	1	1	1		1	1	1	5	4	1	4	1
PHY	2	2	6	6	2	2	6	6	7	7	1	1	2	1	1	4	7	1	2	1	4	3	1	2	1	5	8	2	8	2
PHY	5	5	4	3	5	4	4	6	7	6	3	3	3	5	5	5	4	1	2	1	6	EM	1	6	1	5	4	1	EM	EM
PHY	6	6	2	2	5	4	4	5	6	7	1	1	2	2	5	6	2	1	1	1	1		1	1	1	5	3	8	3	8
PHY	3	3	6	6	5	4	5	5	7	7	2	2	3	2	4	5	4	1	1	1	1		1	1	1	5	5	2	5	2
PHY	3	3	5	3	2	6	6	3	6	7	2	2	3	4	5	3	6	1	1	1	1		1	1	1	5	3	3	3	3
PHY	2	2	1	6	6	6	1	2	7	7	1	4	2	1	2	4	6	1	1	1	1		1	1	1	5	5	2	5	2
PHY	3	3	5	6	6	6	2	2	7	7	5	5	2	1	5	6	2	1	1	1	1		1	1	1	5	5	1	5	1
PHY	1	1	7	7	2	4	6	6	7	7	1	3	3	1	1	6	2	1	1	1	1		1	1	1	6	5	4	5	4
PHY	2	1	5	6	1	7	1	1	7	7	2	2	1	1	7	7	2	1	1	1	1		1	1	1	3	2	7	2	7
PHY	1	1	6	6	2	1	6	6	6	5	1	1	4	1	3	5	3	1	DK	1	1		1	1	1	5	3	4	3	4
PHY	4	5	2	5	6	6	2	5	6	7	2	2	3	2	4	6	4	1	2	1	1		1	1	1	5	4	2	4	2
PHY	5	5	5	3	4	4	4	4	4	4	4	4	4	4	4	4	4	2	3	1	1		1	1	1	2	7	2	7	2
PHY	4	4	2	3	4	4	2	3	7	7	2	2	2	1	2	3	3	1	1	1	3	3	1	3	1	5	4	1	4	1
PHY	7	7	1	4	6	7	2	4	6	6	2	1	2	2	3	6	2	1	2	1	6	EM	1	6	1	5	1	8	1	8
PHY	5	4	4	6	4	5	4	3	6	6	2	2	3	4	3	2	5	1	1	1	1		1	1	1	5	6	1	6	1
PHY	5	5	3	3	5	6	2	2	7	7	1	1	4	1	3	4	2	1	2	2	1		2	1	1	5	6	1	6	1
PHY	4	3	3	7	4	3	3	6	7	7	2	3	3	5	6	4	3	1	2	2	1		2	1	1	5	6	1	6	1
PHY	7	7	1	4	4	6	2	6	7	7	2	2	2	3	4	6	6	1	1	2	2		1	1	1	5	4	3	4	3

PHY	4	5	5	6	5	5	6	7	7	7	2	2	2	2	5	5	4	1	1	2	5	3	1	3	1	5	6	3	6	3	
PHY	5	5	2	5	5	6	2	5	6	6	2	2	3	1	2	4	5	1	1	1	3	DK	2	2	1	5	8	1	8	1	
PHY	7	5	1	3	7	7	1	3	7	7	3	3	2	1	1	7	7	1	1	2	5	2	1	4	1	5	5	1	5	1	
PHY	1	4	3	5	2	4	3	5	6	6	2	2	4	2	5	5	6	1	2	2	2		2	2	1	2	5	2	5	2	
PHY	5	5	6	3	6	2	6	2	7	7	7	7	3	2	2	7	4	1	3	2	1		1	1	1	5	5	7	5	7	
PHY	2	2	6	6	6	2	6	6	6	7	1	1	3	1	6	5	4	1	2	2	5	3	2	2	1	2	8	1	8	1	
PHY	6	6	3	5	6	6	2	5	6	6	3	5	3	6	6	6	5	1	1	2	1		1	1	1	2	6	2	6	2	
PHY	4	6	3	3	5	6	2	4	7	7	2	2	3	2	2	4	4	1	1	2	4	3	1	2	1	5	6	1	6	1	
PHY	3	3	3	3	4	4	4	4	7	5	1	2	2	2	4	4	3	1	1	2	1		2	1	1	5	5	1	5	1	
PHY	7	7	7	7	7	7	7	7	7	7	7	7	4	7	7	1	7	1	3	2	1		1	1	1	6	8	8	8	8	
PHY	5	6	3	3	6	6	2	3	7	7	3	3	3	1	3	6	3	1	DK	1	3	DK	1	4	1	5	5	2	5	2	
PHY	6	3	4	5	6	6	3	4	7	7	2	2	3	1	2	5	3	1	1	1	5	3	1	3	1	2	5	3	5	3	
PHY	2	5	3	3	4	3	6	5	6	6	4	4	4	1	3	7	2	1	1	1	1		1	1	1	5	2	2	2	2	
PHY	7	5	1	4	6	7	2	4	6	7	1	1	4	1	2	7	5	1	3	1	1		1	1	1	5	3	2	3	2	
PHY	2	2	7	7	1	4	6	7	7	7	2	4	2	1	4	6	4	1	1	1	1		2	1	1	2	6	1	6	1	
PHY	6	4	1	4	6	4	2	4	7	7	2	2	2	2	3	3	4	1	1	1	1		1	1	1	5	4	3	4	3	
PHY	3	5	3	2	6	6	2	3	6	7	3	5	3	1	2	5	5	1	1	1	5	2	1	2	1	5	5	1	5	1	
PHY	4	4	5	5	3	4	3	5	6	6	2	3	2	1	1	4	5	1	1	1	1		1	1	1	5	4	1	4	1	
PHY	2	5	5	6	5	5	5	6	6	7	3	3	2	1	2	5	5	1	1	1	1		1	1	1	5	3	2	3	2	
PHY	7	5	1	3	7	5	1	3	6	5	2	2	2	1	2	6	4	1	1	1	1		1	1	1	5	3	4	3	4	
PHY	6	7	1	6	7	6	6	1	6	5	1	2	2	1	1	3	5	1	1	1	5	3	1	3	1	5	5	2	5	2	
PHY	3	3	5	6	5	4	5	7	6	6	1	3	3	1	2	6	4	1	1	1	1		1	2	1	6	1	4	1	4	
PHY	2	6	5	7	7	7	1	1	7	7	7	7	2	1	4	7	1	1	2	1	5	4	1	4	1	5	2	6	2	6	
PHY	4	5	2	6	5	5	2	5	7	7	2	4	3	1	3	6	3	1	2	1	4	DK	2	2	1	5	6	3	6	3	
PHY	5	4	1	5	7	7	1	1	7	7	1	2	2	1	3	6	2	1	1	1	5	2	1	3	1	5	5	3	5	3	
PHY	7	7	1	1	7	7	1	1	7	7	1	4	3	1	4	7	2	1	1	1	1			1	1		5	3	5	3	
PHY	6	6	2	2	6	6	1	2	6	6	2	2	3	2	5	6	3	1	2	1	6	EM		1	6	1	5	1	6	EM	EM
PHY	2	2	3	5	5	5	3	6	5	7	1	1	3	5	5	5	3	1	1	1	1		1	1	1	5	6	1	6	1	
PHY	3	3	7	6	2	2	5	5	7	6	2	4	2	1	6	4	6	1	1	1	1		1	1	1	5	4	2	4	2	
PHY	6	7	1	6	7	6	6	1	6	5	1	2	2	1	1	3	5	1	1	1	5	3	1	3	1	5	5	2	5	2	
PHY	6	7	1	6	7	6	6	1	6	5	1	2	2	1	1	3	5	1	1	1	5	3	1	3	1	5	5	2	5	2	
PHY	6	3	6	5	6	5	4	4	6	6	2	2	3	1	4	4	3	1	1	1	1		1	1	1	5	3	2	3	2	

PHY	2	3	3	6	6	7	1	1	6	6	2	2	2	1	5	7	2	1	1	1	5	3	1	3	1	5	4	3	4	3
PHY	4	5	3	4	6	5	3	3	7	7	1	1	2	2	5	5	5	1	1	1	1	1	1	1	1	2	6	1	6	1
PHY	3	5	5	6	5	5	3	6	7	7	5	5	2	1	3	7	3	1	1	1	5	2	1	3	1	5	4	3	4	3
PHY	5	3	3	7	5	5	3	7	7	7	2	5	3	1	4	6	3	1	1	1	1	1	1	1	1	5	4	6	4	6
PHY	5	5	4	4	4	4	4	4	7	7	1	2	2	1	5	7	3	1	1	1	1	1	1	1	1	5	3	4	3	4
PHY	6	6	3	7	7	5	3	6	7	7	3	5	3	4	5	6	3	1	1	1	1	1	1	1	1	5	3	3	3	3
PHY	7	7	1	1	7	7	1	1	6	7	4	4	1	1	1	7	4	1	1	1	5	4	1	4	1	5	5	2	5	2
PHY	5	5	3	7	3	3	5	5	7	7	4	4	2	1	1	7	2	1	1	1	1	1	1	1	1	5	4	3	4	3
PHY	3	6	2	4	3	5	3	4	7	7	3	1	3	1	5	2	4	1	1	1	1	1	1	1	2	6	2	6	2	
PHY	6	3	2	5	6	5	6	6	7	7	2	2	3	6	7	2	5	1	1	1	1	1	1	1	1	2	3	2	3	2
PHY	4	4	7	4	4	4	6	4	6	6	1	1	2	1	5	5	4	1	2	1	5	4	1	5	1	5	8	5	8	5
PHY	4	4	4	5	5	5	3	3	7	7	2	2	3	5	5	4	3	1	1	1	1	1	1	1	2	1	1	7	1	1
PHY	5	5	1	4	6	6	2	5	7	7	3	3	2	1	1	5	2	1	1	1	1	1	1	1	2	1	1	5	2	2
PHY	2	2	5	5	2	2	5	3	3	6	4	4	2	7	6	4	3	1	1	1	1	1	1	1	2	5	5	4	5	4
PHY	3	3	3	6	3	3	3	6	4	6	1	4	2	1	1	5	5	1	1	1	1	1	1	1	1	5	5	1	5	1
PHY	3	2	2	3	3	2	2	3	7	7	1	1	4	4	5	4	4	1	1	1	1	1	1	1	1	6	3	3	3	3
PHY	3	2	3	5	2	2	4	5	7	7	2	3	3	1	3	6	3	1	1	1	1	1	1	1	1	5	6	1	6	1
PHY	1	1	6	6	1	1	7	7	7	7	4	4	4	1	1	5	6	1	1	1	1	1	1	1	1	2	1	4	1	1
PHY	3	5	2	6	3	3	5	7	5	7	2	3	3	1	1	5	5	1	1	1	1	1	1	1	2	1	1	5	2	2
PHY	6	4	5	5	6	4	3	4	6	6	2	2	2	2	5	5	3	1	1	1	1	1	1	1	2	1	1	5	1	1
PHY	4	5	1	1	5	4	1	1	7	7	4	3	2	3	1	5	7	1	1	1	1	1	1	1	1	5	2	4	2	4
PHY	5	4	5	3	6	5	3	4	4	6	5	3	3	2	6	5	5	1	1	1	1	1	1	1	1	2	6	8	6	8
PHY	3	5	1	4	5	5	2	4	7	7	1	4	2	1	2	5	3	1	1	1	1	1	1	1	1	7	3	2	3	2
PHY	5	5	2	4	4	6	6	4	4	4	5	5	4	3	5	6	5	1	1	1	3	8	1	5	1	5	5	2	5	2
PHY	5	4	2	4	4	2	4	5	6	6	2	3	5	5	5	6	4	1	1	1	1	1	1	1	1	5	4	1	4	1
POL	1	1	7	7	2	2	5	5	6	5	4	4	5	1	2	5	5	1	1	2	1	1	1	1	1	2	3	2	3	3
POL	2	2	5	5	3	4	5	5	5	7	3	3	5	1	3	6	4	1	1	2	1	1	1	1	2	6	4	3	4	3
POL	4	5	2	4	3	3	3	3	7	7	4	4	5	2	4	6	5	1	1	2	4	DK	2	2	1	5	6	2	6	2
POL	2	2	6	5	4	4	4	4	7	7	7	5	5	1	5	5	3	1	1	2	1	1	1	1	2	5	5	1	5	1
POL	3	4	3	5	3	4	3	5	7	7	4	2	5	1	3	6	4	1	1	2	1	1	1	1	2	5	3	3	3	3
POL	3	3	1	3	2	2	1	3	6	5	5	3	4	1	5	7	3	1	1	2	1	1	1	1	2	6	1	4	1	4
POL	4	4	3	5	5	5	4	4	5	6	4	3	4	1	1	5	4	1	1	2	1	1	1	1	1	5	4	5	4	5

POL	1	2	6	6	2	2	5	6	7	7	3	2	5	1	2	7	5	1	1	2	1	2	2	2	5	4	1	4	1		
POL	1	2	6	6	2	2	6	6	5	4	2	3	3	3	4	5	2	1	1	2	1	2	1	1	5	4	3	4	3		
POL	2	2	2	2	4	2	5	3	7	7	2	2	3	1	4	6	2	1	1	2	1	1	1	1	5	2	6	2	6		
POL	2	2	6	6	2	1	4	5	7	7	2	2	5	1	3	7	3	1	1	2	1	2	1	1	5	5	2	5	2		
POL	3	4	3	5	4	4	4	4	6	7	5	4	5	1	1	5	4	1	1	2	1	1	1	1	5	5	2	5	2		
POL	3	5	2	5	4	6	2	5	6	7	4	3	5	1	1	2	6	1	2	2	5	2	1	5	1	5	5	1	5	1	
POL	6	5	5	5	6	5	5	5	7	7	5	5	4	1	1	4	7	1	1	2	1	1	2	1	5	1	6	1	6		
POL	2	4	4	5	5	4	4	5	6	7	3	1	6	1	4	7	3	1	2	2	1	2	2	2	1	5	1	4	1	4	
POL	6	6	3	4	4	4	5	5	6	5	3	3	5	1	4	5	3	1	2	2	1	2	2	1	5	3	3	3	3		
POL	6	6	2	5	5	3	3	6	6	7	4	3	3	1	2	4	6	1	1	2	1	1	1	2	4	6	4	6			
POL	2	2	6	6	6	6	2	2	4	4	1	2	6	1	2	4	7	1	2	2	1	2	2	1	5	3	5	3	5		
POL	2	5	2	6	5	6	2	3	6	6	2	2	4	2	2	3	6	1	2	2	5	3	1	3	1	5	4	2	4	2	
POL	5	5	3	4	5	4	3	4	6	7	5	2	4	1	2	5	4	1	1	2	5	3	1	2	1	5	4	2	4	2	
POL	3	4	3	5	3	3	2	5	7	6	3	2	6	1	4	5	4	1	2	2	5	2	1	2	1	5	4	2	4	2	
POL	2	2	5	6	2	2	5	6	7	7	5	4	5	2	3	5	3	1	1	2	1	1	2	1	5	3	5	3	5		
POL	5	5	3	4	4	4	4	4	5	5	4	3	6	1	1	4	4	1	2	2	5	2	1	4	1	5	5	2	5	2	
POL	6	6	1	4	4	5	5	3	6	6	2	3	6	1	2	2	6	1	2	2	5	2	1	5	1	5	4	2	4	2	
POL	2	5	5	6	3	4	4	5	6	6	2	2	6	1	1	5	3	1	2	2	1	2	2	2	1	5	3	3	3	3	
POL	3	3	2	5	2	3	2	5	5	6	2	3	5	1	1	6	2	1	1	2	1	1	2	1	5	2	4	2	4		
POL	2	3	2	3	6	2	1	2	6	7	5	4	5	1	2	5	5	1	1	1	5	2	1	5	1	5	6	2	6	2	
POL	4	3	5	6	5	5	4	3	7	7	2	2	6	1	6	7	3	1	1	1	1	1	1	2	2	1	5	1	5	1	5
POL	2	2	5	6	5	1	1	2	6	7	3	3	4	1	5	6	4	1	1	1	5	2	2	2	5	1	5	3	2	3	2
POL	5	4	5	6	4	6	3	5	5	5	4	2	6	2	5	6	5	1	1	1	1	1	1	2	1	5	1	4	1	4	
POL	6	2	2	2	2	2	6	2	7	6	5	2	5	1	3	4	4	1	1	1	5	1	1	3	1	3	4	3	4	3	
POL	6	6	2	4	4	4	4	4	5	5	4	4	4	2	1	5	5	1	1	1	5	2	1	4	1	5	5	2	5	2	
POL	6	4	6	4	5	5	3	5	6	5	5	6	3	2	3	5	4	1	1	1	1	1	1	1	7	4	2	4	2		
POL	3	3	5	5	5	3	3	5	4	4	4	2	4	1	2	6	5	1	1	1	1	1	1	2	1	5	3	3	3	3	
POL	5	5	5	5	5	5	5	5	6	6	4	3	5	1	2	6	5	1	1	1	1	1	1	1	5	5	1	5	1		
POL	2	5	4	6	2	4	5	5	5	6	4	5	3	1	3	7	3	1	1	1	1	1	1	2	1	7	2	6	2	6	
POL	3	3	3	5	3	3	3	5	6	7	5	2	5	1	1	4	5	1	1	1	1	1	1	2	1	5	4	1	4	1	
POL	5	5	1	5	5	5	1	5	7	7	7	7	4	1	1	1	7	1	1	2	1	1	2	1	2	8	1	8	1		
POL	6	3	6	7	5	5	4	5	6	7	5	5	4	1	1	1	7	1	1	2	1	1	2	1	2	2	5	4	1	4	1

POL	2	2	3	5	4	4	4	4	7	7	2	2	5	1	1	5	5	1	1	2	5	2	1	5	1	5	4	2	4	2	
POL	5	5	1	1	3	5	1	2	7	7	3	4	5	1	1	5	6	1	1	2	5	1	1	5	1	5	4	4	4	4	
POL	5	3	5	5	7	7	3	5	7	7	4	2	3	1	7	7	2	1	1	1	1		2	2	1	3	5	2	5	2	
POL	3	4	4	4	1	4	7	5	7	6	6	4	6	1	1	5	6	1	1	2	5	2	1				2	7	2	7	
POL	5	3	4	4	5	4	3	5	7	2	2	2	3	1	2	5	5	1	1	2	1		1	2	1	5	5	2	5	2	
POL	5	7	1	1	2	5	1	1	7	7	5	5	3	1	1	6	4	1	1	2	5	1	1	5	1	5	4	3	4	3	
POL	5	7	1	5	5	6	1	3	7	7	2	2	3	1	4	4	5	1	1	2	1		1	1	2	5	2	4	2	4	
POL	5	4	3	5	5	5	3	3	6	4	2	2	3	1	4	6	3	1	1	4	PU	1		2	2	1	5	4	3	4	3
POL	2	2	6	6	2	2	6	5	5	7	4	2	2	1	5	5	3	1	1	2	1		1	3	1	5	1	5	1	5	
POL	3	3	5	5	3	3	5	5	7	7	5	3	5	1	4	6	3	1	1	1	2		1	2	1	5	4	2	4	2	
POL	1	1	7	7	3	3	5	5	6	6	6	3	5	1	4	4	6	1	1	2	1		1	2	1	5	5	2	5	2	
POL	4	4	1	5	2	6	1	4	6	7	3	4	4	1	2		3	1	1	2	4	1	1	2	1	5	4	2	4	2	
POL	1	1	1	1	1	1	1	3	4	7	4	4	5	1	1	2	6	1	1	2	4	2	1	2	1	6	6	1	6	1	
POL	4	5	1	1	5	4	2	3	5	7	7	4	5	1	3	7	4	1	1	2	1		2	2	1	5	4	1	4	1	
POL	3	3	2	3	3	3	3	3	5	6	3	3	5	4	3	3	5	1	2	2	5	3	1	5	1	5	4	2	4	2	
POL	2	2	3	5	3	3	5	5	6	6	3	3	4	1	3	7	2	1	1	1	1		1	2	1	7	1	5	1	5	
POL	3	5	3	6	3	5	3	6	6	6	3	5	6	1	4	7	3	1	1	1	1		1	2	2	1	5	2	3	2	3
POL	2	2	5	5	3	5	5	3	6	6	4	2	4	5	5	5	4	1	1	1	1		1	2	1	1	7	1	4	1	4
POL	3	2	5	5	4	4	4	4	5	6	4	2	5	1	5	7	3	1	1	1	1		1	2	2	1	5	4	4	4	4
POL	6	6	1	7	4	5	2	6	6	7	3	2	4	1	3	6	2	1	1	1	1		1	2	1	1	5	4	2	4	2
POL	1	2	3	3	1	4	3	2	2	2	6	6	4	2	3	3	7	1	1	1	5	2	1	6	1	5	2	5	2	5	
POL	5	6	1	2	5	6	1	2	7	7	6	5	6	1	2	7	2	1	1	1	5	2	2	4	1	5	4	4	4	4	
POL	5	5	1	4	7	6	1	4	4	6	2	3	4	1	1	2	6	1	1	1	5	DK	1	5	1	5	1	6	1	6	
POL	5	5	3	5	6	6	4	4	6	6	5	6	4	1	2	5	5	1	1	1	1		1	1	1	5	4	4	4	4	
POL	4	5	3	5	4	4	4	4	5	7	5	2	4	1	5	7	2	1	1	1	1		2	2	1	5	1	4	1	4	
POL	4	4	1	4	5	4	1	2	3	3	2	7	6	6	7	7	1	1	1	1	1		1	2	1	6	1	4	1	4	
POL	3	5	7	5	3	3	6	6	7	7	6	5	6	1	4	3	6	1	1	1	1		2	1	1	5	4	5	4	5	
POL	4	5	3	5					7	7	5	2	4	1	5	7	1	1	2	1	4	3	2	3	1	5	4	3	4	3	
POL	5	5	4	6	6	6	2	6	7	7	5	5	4	1	4	5	3	1	1	1	5	3	1	3	1	5	3	3	3	3	
POL	1	3	5	5	5	3	4	5	6	6	3	4	5	1	3	5	5	1	2	1	1		1	1	1	5	5	2	5	2	
POL	4	7	2	2	3	6	1	4	5	7	2	2	5	1	2	5	5	1	1	1	5	2	1	3	1	5	3	3	3	3	
POL	2	4	1	2					4	4	4	4	5	3		6	4	1	2	1	5	3	1	4	1	5	4	2	4	2	

POL	5	5	6	7	3	3	4	3	7	7	7	5	4	1	1	2	6	1	1	1	3	DK	1	1	1	5	6	2	6	2
POL	1	2	5	3	3	3	6	3	5	6	2	3	4	1	4	5	3	1	1	1	1		2	1	1	6	2	5	2	5
POL	5	5	2	6	4	5	4	6	3	4	6	2	4	1	5	7	2	1	1	1	5	3	1	5	1	5	6	1	6	1
POL	6	6	2	3	5	5	3	3	5	7	2	4	3	2	4	2	4	1	1	1	1		1	2	1	5	1	4	1	4
POL	4	4	5	5	4	4	4	4	5	6	5	3	4	1	1	5	6	1	2	1	1		1	1	1	5	5	4	5	4
POL	2	1	4	6	2	4	1	5	7	7	5	4	5	1	2	5	5	1	DK	1	1		2	1	1	5	4	5	4	5
POL	1	1	5	6	6	5	1	2	7	5	5	2	5	1	2	7	2	1	2	1	5	2	2	4	1	5	5	2	5	2
POL	1	1	6	6	1	1	6	6	7	7	2	2	6	1	1	6	6	1	2	1	3	DK	2	3	1	5	4	3	4	3
POL	5	6	2	5	6	6	2	2	5	7	2	2	2	2	6	7	1	1	2	1	1		2	1	1	2	6	2	6	2
POL	6	6	2	2	2	2	7	6	7	6	2	3	4	1	2	6	5	1	1	1	1		1	2	1	5	3	4	3	4
POL	3	3	1	6	4	3	5	5	6	6	6	5	3	1	4	6	5	1	1	1	5	2	1	5	1	5	8	1	8	1
POL	3	4	5	5	3	4	5	5	6	7	3	1	5	1	1	5	5	1	1	2	1		1	1	1	5	4	3	4	3
POL	4	5	4	4	4	4	4	5	6	6	2	2	5	1	3	2	4	1	1	2	1		1	1	1	5	4	2	4	2
POL	3	4	4	6	5	5	2	3	7	7	2	2	5	1	1	7	2	1	1	2	1		1	1	1	5	5	3	5	3
POL	3	4	5	6	6	6	1	2	7	7	3	3	5	1	3	6	6	1	1	2	1		2	1	1	7	2	7	2	7
POL	5	5	1	4	5	6	1	3	6	6	4	2	5	1	4	5	6	1	1	2	6	EM	1	6	1	5	1	5	EM	EM
POL	5	5	3	4	5	5	4	5	6	6	4	4	5	1	1	1	7	1	2	1	1		1	1	1	5	1	3	1	3
POL	3	2	1	2	2	3	2	2	7	7	5	4	3	1	2	5	3	1	1	1	6	AD	1	4	1	5	5	2	5	2
POL	3	3	4	4	3	3	3	4	6	7	3	3	4	1	3	5	3	1	1	2	5	2	2	2	1	5	4	2	4	2
POL	1	1	7	7	2	3	6	5	7	7	3	2	6	1	2	5	5	1	1	2	1		1	1	1	5	7	2	7	2
POL	2	2	3	6	5	3	5	7	7	6	3	2	4	2	3	5	3	1	2	1	1		2	1	1	5	4	2	4	2
POL	5	5	3	4	5	4	5	5	6	6	6	5	5	1	4	5	4	1	2	1	1		1	1	1	5	3	3	3	3
POL	6	5	3	6	4	4	4	4	4	6	5	5	4	5	4	5	4	1	1	2	1		2	2	1	2	4	2	4	2
POL	3	4	5	5	5	3	5	6	6	7	5	5	4	1	5	3	5	1	2	2	1		2	2	1	5	4	2	4	2
POL	2	6	6	6	5	5	5	5	6	7	5	2	4	1	6	7	3	1	2	1	5	3	1	3	1	5	5	2	5	2
POL	3	2	2	4	3	3	3	3	6	6	3	2	5	1	3	7	4	1	1	1	1		1	1	1	5	3	4	3	4
POL	5	5	1	3	6	6	1	3	7	7	6	3	4	1	5	7	3	1	2	1	1		2	1	1	5	4	3	4	3
POL	5	5	6	5	6	4	4	5	6	6	3	3	5	1	1	5	6	1	2	2	1		1	2	2	5	3	6	3	6
POL	3	3	2	5	4	4	2	5	7	7	7	4	4	1	5	4	4	1	2	1	1		2	1	1	5	1	5	1	5
POL	4	7	1	5	1	6	1	1	7	7	5	2	3	1	1	5	6	1	1	1	5	4	1	5	1	5	2	4	2	4
POL	2	2	6	6	4	2	6	6	7	7	3	3	6	1	5	7	2	1	1	2	1		2	2	1	5	1	5	1	5
POL	5	5	2	4	7	7	2	2	4	4	4	4	3	1	7	4	6	1	1	2	1		1	2	1	5	1	6	1	6



POL	6	6	3	3	6	5	3	3	5	7	3	2	4	5	6	7	2	1	2	2	4	2	2	2	1	5	5	2	5	2
POL	3	4	4	5	4	4	5	5	6	7	3	4	6	2	2	3	6	1	2	2	1	2	1	1	5	1	3	1	3	
POL	4	4	4	4	4	4	4	4	6	7	5	2	3	1	1	2	6	1	1	1	1	1	1	1	5	3	4	3	4	
POL	2	2	4	7	2	2	5	5	7	7	2	2	3	1	2	3	3	1	2	1	1	1	1	5	3	4	3	4		
POL	7	5	5	7	5	6	4	6	7	7	6	6	3	2	7	6	7	1	2	2	1	1	2	1	2	5	2	5	2	
POL	5	5	2	3	4	4	5	3	5	7	5	2	2	1	3	7	4	1	1	1	4	2	1	1	1	7	4	2	4	2
POL	5	5	3	2	5	5	2	3	6	7	5	3	4	1	4	6	3	1	2	1	5	2	1	3	1	5	5	1	5	1
POL	1	1	4	4	1	1	5	5	6	6	3	2	6	1	1	3	5	1	2	1	4	2	1	2	1	5	6	1	6	1
POL	3	3	4	6	4	4	4	4	5	7	4	3	4	1	2	5	5	1	2	1	1	1	1	1	5	4	1	4	1	
PSY	2	2	2	3	2	2	3	4	7	7	4	2	6	1	3	6	5	1	1	2	5	1	2	4	1	5	3	3	3	3
PSY	4	5	6	6	3	4	5	5	5	7	7	5	5	1	4	5	5	1	2	2	2	2	2	1	2	5	3	5	3	
PSY	6	1	5	7	4	4	5	5	4	4	4	4	5	1	1	5	7	1	1	2	2	1	2	1	5	5	1	5	1	
PSY	3	2	2	4	4	4	3	4	1	1	1	5	4	1	2	2	6	1	2	2	1	1	2	1	5	4	2	4	2	
PSY	2	5	2	3	3	5	2	3	7	7	6	4	8	2	1	6	2	1	1	2	5	2	1	4	1	5	5	3	5	3
PSY	5	5	2	3	6	6	2	3	4	5	7	7	8	2	3	7	5	1	1	2	2	2	2	1	5	1	8	1	8	
PSY	2	3	5	5	2	3	6	6	6	7	5	5	7	1	1	7	6	1	1	2	1	1	2	1	5	4	2	4	2	
PSY	4	4	6	7	6	5	6	6	7	7	4	4	7	5	7	7	6	1	1	2	1	2	1	1	6	6	2	6	2	
PSY	2	2	6	5	5	6	3	3	6	7	4	2	7	1	5	5	6	1	2	2	3	2	2	4	1	5	6	1	6	1
PSY	2	2	4	4	3	5	3	6	7	7	3	4	8	1	3	5	4	1	2	2	5	1	2	3	1	5	5	1	5	1
PSY	6	5	6	4	3	3	5	5	7	7	5	4	8	1	4	6	5	1	2	2	1	2	1	1	5	6	2	6	2	
PSY	3	3	5	5	1	2	6	5	7	7	5	5	9	1	1	2	7	1	2	2	1	2	1	1	5	8	1	8	1	
PSY	2	3	6	5	3	3	5	5	7	7	5	4	8	1	1	5	7	1	1	2	3	3	2	5	1	5	5	2	5	2
PSY	2	1	3	5	3	3	5	4	7	7	6	5	4	1	3	6	5	1	2	2	2	2	2	1	5	3	3	3	3	
PSY	4	4	1	2	4	4	5	1	5	3	2	2	4	1	4	7	4	1	1	1	5	2	1	3	1	5	4	2	4	2
PSY	2	1	7	7	1	1	6	7	7	6	6	3	7	1	1	5	6	1	1	1	1	1	2	1	1	5	4	4	4	4
PSY	2	2	4	6	2	2	5	5	7	7	3	1	6	1	1	1	7	1	1	1	5	1	1	3	1	4	1	4	1	
PSY	6	6	5	5	5	5	6	5	7	7	5	6	4	1	3	5	6	1	2	1	2	2	1	1	5	3	3	3	3	
PSY	6	5	5	5	5	5	5	5	5	6	5	4	5	2	3	4	6	2	2	1	1	1	2	1	5	6	1	6	1	
PSY	4	3	3	5	4	4	5	5	4	4	4	3	6	1	2	5	6	1	1	2	5	1	1	3	1	5	4	2	4	2
PSY	4	4	2	5	3	4	3	4	7	7	7	5	6	2	3	6	5	1	1	1	2	2	1	1	5	5	2	5	2	
PSY	5	5	2	4	5	5	4	3	6	6	2	4	8	2	2	7	2	1	1	2	1	1	2	1	5	3	5	3	5	
PSY	3	3	4	3	4	4	4	4	7	7	6	6	5	1	4	1	6	1	1	2	1	1	2	1	5	4	1	4	1	



PSY	5	3	3	7	4	4	4	4	6	6	3	3	6	1	1	2	7	1	1	2	1	1	1	1	5	8	1	8	1	
PSY	6	3	2	6	3	2	6	6	5	6	6	5	6	1	5	7	5	1	2	2	2	2	1	1	2	6	2	6	2	
PSY	4	2	7	6	5	3	5	4	7	7	7	7	7	1	1	1	7	1	1	2	1	2	1	1	5	4	2	4	2	
PSY	2	2	2	2	2	2	2	2	6	6	6	4	6	2	2	4	6	1	1	2	5	4	1	6	1	5	1	7	1	7
PSY	1	1	1	1	1	1	1	1	6	7	4	4	3	1	1	7	1	1	1	2	5	2	1	5	1	5	1	4	1	4
PSY	3	3	3	7	2	2	3	7	4	6	4	4	7	1	1	1	7	1	1	2	1	2	1	1	5	2	3	2	3	
PSY	3	3	5	5	3	3	5	5	6	6	6	6	6	1	1	4	6	1	1	2	1	1	1	1	5	5	2	5	2	
PSY	1	5	2	2	3	5	3	3	6	7	3	5	6	1	1	6	7	1	2	2	5	DK	1	4	1	5	2	5	2	5
PSY	4	5	3	3	4	4	2	3	6	6	5	5	7	2	2	5	5	1	1	1	5	1	2	3	1	5	4	2	4	2
PSY	4	5	2	2	4	5	3	4	4	5	5	4	8	1	3	5	6	1	1	2	5	1	1	5	1	5	5	2	5	2
PSY	2	3	1	5	3	3	1	4	6	7	6	4	8	1	2	5	5	1	1	1	4	2	2	2	1	5	4	2	4	2
PSY	5	5	2	3	2	4	4	4	5	6	6	5	5	1	1	4	5	1	1	2	1	1	1	1	5	4	1	4	1	
PSY	3	5	4	5	5	5	3	6	5	6	3	3	5	2	4	2	5	1	1	1	1	2	1	1	5	5	1	5	1	
PSY	4	4	1	6	3	4	3	3	5	7	7	5	8	1	5	7	4	1	1	2	1	2	2	1	5	2	7	2	7	
PSY	3	3	3	5	4	4	4	3	6	6	2	3	6	1	5	5	5	1	1	1	1	2	1	1	2	4	1	4	1	
PSY	5	5	4	6	6	5	3	5	6	6	7	3	5	1	2	7	5	1	1	1	1	2	1	1	5	3	3	3	3	
PSY	6	5	5	5	7	2	7	5	7	7	6	6	7	1	6	6	7	1	1	1	1	2	1	2	6	3	2	3	2	
PSY	3	4	3	3	4	4	4	4	4	5	5	4	7	1	2	5	5	1	1	1	5	1	1	5	1	5	2	5	2	5
PSY	2	2	4	5	2	2	5	6	6	7	7	6	7	1	5	7	5	1	1	1	4	1	2	2	1	5	4	1	4	1
PSY	2	2	4	6	2	2	5	6	6	6	6	4	7	1	5	6	5	1	1	1	1	2	1	1	5	3	1	3	1	
PSY	1	1	7	6	3	2	6	7	7	7	6	7	4	1	5	7	5	1	1	1	1	2	1	2	3	2	3	2		
PSY	2	2	6	6	3	3	5	5	6	7	7	6	6	1	2	4	6	1	2	1	2	2	1	1	5	5	1	5	1	
PSY	3	3	6	6	3	3	6	6	6	6	6	6	7	1	5	7	4	1	1	1	1	2	1	1	5	4	3	4	3	
PSY	3	4	6	6	4	3	6	6	6	7	5	5	7	1	3	7	5	1	1	1	1	2	1	1	5	2	3	2	3	
PSY	4	4	5	4	4	4	5	4	6	6	6	6	8	3	3	4	5	1	1	1	1	2	1	1	2	7	5	7	5	
PSY	3	3	6	5	5	5	6	6	7	7	4	3	9	1	3	2	6	1	1	1	1	2	1	1	3	1	8	1	8	
PSY	4	4	1	2	4	4	1	4	3	5	3	3	8	1	5	4	5	1	3	1	3	1	2	5	1	5	5	2	5	2
PSY	1	4	5	6	3	6	4	2	4	5	7	5	8	1	6	6	3	1	1	1	1	2	2	2	3	2	4	2	4	
PSY	3	2	6	6	4	4	4	4	7	7	7	7	7	1	4	5	7	1	1	1	1	1	1	1	5	1	5	1	5	
PSY	3	4	2	5	3	2	1	5	5	5	5	3	7	1	1	5	5	1	1	1	1	2	2	1	5	1	3	1	3	
PSY	3	2	5	6	6	5	4	3	5	6	5	3	7	1	2	2	7	1	1	1	1	1	1	2	7	5	2	5	2	
PSY	5	5	2	5	4	4	4	4	4	7	4	2	7	1	1	7	4	1	1	1	1	2	1	1	5	4	4	4	4	

PSY	3	5	1	2	5	2	2	2	4	5	4	3	7	1	3	6	6	1	1	1	5	1	2	5	2	5	3	5	3	5
PSY	3	3	6	6	5	5	2	5	6	7	3	3	5	1	5	6	5	1	1	1	1		2	2	1	2	6	1	6	1
PSY	2	3	3	6	5	4	2	7	4	7	7	4	6	1	4	4	7	1	1	1	5	1	2	3	1	5	3	3	3	3
PSY	2	3	6	7	1	2	7	6	7	5	7	7	7	1	1	4	6	1	1	1	1		1	1	1	5	3	3	3	3
PSY	3	4	5	6	2	2	5	5	7	7	4	4	5	1	4	5	5	1	1	1	1		2	1	1	5	3	2	3	2
PSY	1	1	7	7	1	1	6	7	7	7	5	4	7	1	2	3	6	1	1	1	1		2	1	1	3	2	4	2	4
PSY	3	4	4	4	4	4	4	4	7	7	7	5	5	1	3	4	5	1	1	1	3	1	2	4	1	5	4	5	4	5
PSY	5	5	5	5	3	4	4	7	6	7	6	6	8	3	2	5	4	1	2	1	1		2	1	1	2	5	1	5	1
PSY	2	2	5	5	2	2	5	5	5	4	4	4	4	2	2	2	6	1	1	1	1		1	1	1	2	4	1	4	1
PSY	6	6	4	4	6	6	6	4	7	7	4	4	7	1	1	5	6	1	1	2	1		1	2	1	5	7	2	7	2
PSY	2	2	4	5	2	3	4	6	7	7	5	6	7	1	2	4	4	1	1	1	1		2	1	2	5	1	4	1	4
PSY	1	1	6	5	2	2	5	6	6	6	3	2	7	1	2	4	6	1	1	1	1		2	1	1	5	4	1	4	1
PSY	1	1	7	7	1	2	6	5	5	6	2	4	6	1	2	2	5	1	1	1	1		2	1	1	5	3	2	3	2
PSY	2	2	2	6	3	3	3	6	6	6	6	6	6	1	1	1	7	1	1	1	1		2	1	1	5	3	4	3	4
PSY	1	1	7	5	1	1	7	5	6	6	3	7	6	1	2	5	6	1	1	1	1		1	1	1	5	4	3	4	3
PSY	2	1	2	5	4	2	2	5	6	7	6	4	6	1	1	7	7	1	1	1	1		1	1	1	5	5	2	5	2
PSY	3	3	5	5	5	3	3	5	7	7	5	5	7	2	2	2	6	1	1	1	1		1	1	1	5	1	8	1	8
PSY	4	4	5	6	4	5	4	5	7	7	4	4	8	1	3	6	5	1	1	1	1		2	1	1	2	2	3	2	3
PSY	2	3	3	4	4	4	3	2	7	7	7	5	7	1	2	4	6	1	1	1	1		2	2	1	5	1	5	1	5
PSY	3	4	6	7	3	3	5	6	5	5	2	2	7	1	6	6	4	1	1	1	1		2	1	1	5	5	3	5	3
PSY	3	3	7	7	2	5	5	6	7	7	7	5	6	1	1	5	7	1	1	1	1		2	1	1	5	8	1	8	1
PSY	4	4	4	5	4	4	4	4	6	6	5	4	7	1	3	5	5	2	DK	1	5		2	5	1	5	6	3	6	3
PSY	4	4	2	3	4	3	4	6	6	7	7	7	9	1	2	1	7	1	1	1	1		2	1	1	5	5	1	5	1
PSY	4	5	5	4	6	6	2	4	6	6	4	4	7	1	3	5	5	1	1	1	1		2	1	1	5	5	2	5	2
PSY	2	2	4	6	2	5	1	6	5	6	6	7	7	1	2	4	5	1	2	1	1		2	1	1	5	2	6	2	6
PSY	3	5	3	5	4	5	3	5	5	6	4	4	6	1	1	3	6	1	2	1	1		2	1	1	5	3	2	3	2
PSY	2	1	7	7	2	2	7	7	6	7	6	5	7	1	1	7	7	1	1	1	1		2	1	1	5	6	1	6	1
PSY	5	5	2	3	5	4	3	5	7	7	7	7	6	1	2	5	6	1	1	1	1		2	1	1	3	5	1	5	1
PSY	5	5	2	4	5	5	1	4	7	7	7	7	8	1	7	6	7	1	2	1	1		2	2	1	2	4	4	4	4
PSY	2	2	5	7	4	4	4	4	6	7	6	5	6	1	1	2	7	1	2	1	5	DK	1	4	1	5	2	5	2	5
PSY	3	4	3	3	4	3	6	6	7	7	5	5	7	1	4	2	7	1	2	1	1		2	1	1	5	6	2	6	2
PSY	5	5	2	3	5	5	3	4	7	7	6	5	6	1	6	6	4	1	2	1	2		2	2	1	5	1	5	1	5

PSY	5	6	5	4	6	5	2	6	6	6	6	6	6	1	1	6	5	1	3	1	1	2	1	1	5	5	2	5	2	
PSY	5	5	3	3	5	5	2	2	5	6	5	5	8	1	5	6	5	1	1	1	1	1	2	1	1	5	4	2	4	2
PSY	4	5	4	6	5	4	6	5	6	7	6	4	7	2	4	5	6	1	1	2	1	2	1	1	5	3	5	3	5	
PSY	4	4	5	6	4	3	5	5	7	7	6	7	7	1	2	3	5	1	3	1	1	2	1	1	5	1	5	1	5	
PSY	3	4	2	6	5	5	4	3	6	7	3	3	7	1	5	6	4	1	1	1	1	2	1	1	5	2	6	2	6	
PSY	5	5	2	2	5	5	2	4	7	7	6	4	6	1	2	6	5	1	1	1	5	1	1	4	1	5	4	3	4	3
PSY	5	6	2	3	5	5	3	3	7	6	7	6	7	1	2	5	7	1	2	1	5	1	2	4	2	5	5	2	5	2
PSY	5	5	1	1	5	5	1	1	7	6	2	4	4	4	4	3	3	1	2	1	5	1	1	6	1	5	2	8	2	8
PSY	4	4	6	3	4	4	6	6	6	7	4	5	7	2	1	3	7	1	2	1	1	2	1	1	5	1	4	1	4	
PSY	1	1	4	5	1	1	4	5	7	7	7	7	7	1	2	4	6	1	1	1	6	EM	2	6	1	5	1	4	EM	EM
PSY	3	4	7	6	3	2	7	7	6	6	7	7	5	1	1	4	7	1	1	1	1	2	1	1	5	1	6	1	6	
PSY	6	5	3	4	4	4	4	4	6	6	6	6	4	2	4	6	4	1	1	1	1	2	1	1	6	5	2	5	2	
PSY	5	4	6	5	7	6	3	3	6	7	5	5	7	1	1	6	7	1	2	1	5	DK	1	4	1	5	5	1	5	1
PSY	3	3	5	5	2	3	6	7	6	6	4	2	4	2	4	7	5	1	2	1	1	2	2	1	5	7	1	7	1	
PSY	5	6	5	6	5	6	3	6	6	6	6	6	7	1	4	6	6	1	1	1	1	2	1	1	5	1	8	1	8	
PSY	2	4	5	6	4	4	2	6	6	6	4	6	8	1	4	5	5	1	1	1	1	2	1	1	5	2	4	2	4	
PSY	1	2	3	4	1	3	5	4	6	6	4	2	8	1	4	4	5	1	1	1	5	2	1	4	1	3	6	2	6	2
PSY	1	1	7	7	2	2	7	6	4	7	1	1	5	7	4	7	7	2	2	1	4	2	1	1	5	4	3	4	3	
PSY	4	2	5	5	3	3	4	4	5	7	4	5	8	3	3	4	6	1	2	2	1	2	1	1	5	7	1	7	1	
PSY	3	3	5	5	2	2	6	6	6	5	3	3	7	1	2	6	6	1	1	2	5	4	1	5	1	5	5	3	5	3
PSY	5	4	4	5	2	3	4	4	6	7	6	5	8	1	3	2	6	1	2	2	1	2	3	1	5	1	3	1	3	
PSY	3	5	5	6	2	2	5	6	6	7	7	5	6	1	6	6	6	1	1	2	1	2	1	1	2	2	6	2	6	
PSY	3	5	5	6	3	2	6	7	7	7	3	2	8	1	1	6	7	1	1	2	1	2	1	1	5	5	1	5	1	
PSY	3	4	2	6	4	5	3	7	4	4	6	6	5	1	2	7	3	1	1	2	5	1	2	2	1	7	2	4	2	4
SOC	5	5	6	6	7	7	2	3	7	7	5	5	5	1	3	6	6	1	1	2	1	2	2	1	6	4	2	4	2	
SOC	4	3	5	5	3	4	4	4	7	7	7	6	6	1	1	3	6	1	1	2	1	2	1	1	2	2	5	2	5	2
SOC	5	4	2	5	2	6	2	3	6	7	6	6	7	1	2	7	6	1	1	2	1	2	1	1	5	6	4	6	4	
SOC	1	1	7	1	5	7	1	1	7	7	6	5	6	1	4	7	7	1	1	2	1	2	1	1	1	1	5	1	5	
SOC	6	6	2	5	6	6	5	5	7	7	5	6	8	2	5	4	7	1	1	2	1	2	1	1	2	6	1	6	1	
SOC	5	6	1	1	5	6	1	2	6	7	5	3	6	1	1	2	7	1	1	2	5	1	2	5	1	5	5	2	5	2
SOC	2	2	6	6	1	1	4	6	6	6	2	2	7	1	3	5	5	1	1	2	1	2	1	1	2	3	3	3	3	
SOC	6	4	6	6	4	6	4	6	6	6	6	6	6	1	2	6	4	1	1	2	1	2	1	1	5	1	5	1	5	

SOC	3	6	4	4	1	5	6	5	6	6	4	4	6	1	1	5	3	1	1	2	1	2	1	2	5	5	3	5	3	
SOC	4	5	2	4	4	3	5	5	4	6	3	3	7	1	1	4	7	1	1	2	5	2	1	6	1	5	4	1	4	1
SOC	2	1	6	6	6	3	4	6	6	7	2	2	6	1	2	5	5	1	1	2	1	2	1	1	5	3	5	3	5	
SOC	5	6	4	4	3	6	2	5	5	5	3	2	7	1	4	2	6	1	1	2	2	2	2	1	5	4	4	4	4	
SOC	6	2	2	6	2	2	5	6	7	6	5	2	7	1	5	6	6	1	1	2	1	1	2	1	3	5	3	5	3	
SOC	2	6	6	2	2	2	6	6	7	6	6	2	4	1	1	7	7	1	1	2	1	1	1	5	2	5	2	5		
SOC	3	4	3	5	3	4	3	5	6	7	5	4	6	1	2	5	5	1	2	2	1	2	1	1	5	3	4	3	4	
SOC	1	3	1	3	1	1	1	3	7	7	5	2	7	1	1	1	7	1	2	2	5	1	1	5	1	5	3	3	3	3
SOC	2	2	6	7	2	3	5	5	7	7	5	5	7	1	2	4	7	1	2	2	1	2	1	1	5	2	3	2	3	
SOC	1	1	3	5	2	2	5	4	7	7	4	4	7	1	5	7	6	1	2	2	1	2	2	1	5	1	4	1	4	
SOC	6	6	2	2	5	5	2	2	6	7	4	4	7	2	1	1	7	1	4	2	5	2	1	4	1	5	3	3	3	3
SOC	3	3	5	5	6	6	4	4	7	7	3	3	7	1	1	4	7	1	2	2	1	1	2	1	5	1	5	1	5	
SOC	2	5	3	5	6	7	2	2	6	6	3	2	7	1	2	2	7	1	3	2	5	1	1	3	1	5	1	4	1	4
SOC	3	5	1	3	2	2	2	7	6	7	3	2	6	1	2	5	6	1	1	2	1	2	1	1	5	3	3	3	3	
SOC	1	1	6	6	1	1	6	6	3	7	6	3	6	1	1	5	7	1	1	2	4	2	2	2	1	5	3	3	3	3
SOC	3	2	4	5	4	4	3	5	6	7	4	5	6	1	5	6	4	1	1	2	5	1	2	5	1	5	5	2	5	2
SOC	2	2	6	7	1	2	6	6	5	6	3	2	7	1	2	7	5	1	2	2	1	2	2	1	5	1	6	1	6	
SOC	2	2	7	4	3	4	5	5	5	7	5	5	6	2	1	4	5	1	2	2	3	7	1	3	1	5	2	5	2	5
SOC	3	3	6	6	1	1	5	5	6	7	6	3	6	1	4	7	7	1	1	1	2	2	2	1	5	4	2	4	2	
SOC	6	6	2	4	6	6	2	4	7	7	6	6	5	1	2	4	5	1	1	1	6	EM	1	6	1	5	1	2	EM	EM
SOC	6	4	2	4					7	4	4	3	7	1	5	7	5	1	1	1	3	2	4	1	5	3	4	3	4	
SOC	6	6	1	5	4	5	3	4	5	6	3	2	8	1	1	7	7	1	1	1	1	2	2	1	5	4	1	4	1	
SOC	7	3	3	5	5	5	1	2	7	7	3	1	4	1	1	5	7	1	1	2	2	2	2	1	5	5	2	5	2	
SOC	2	5	2	5	3	3	2	5	7	7	2	2	8	3	3	6	7	1	1	2	2	2	2	1	5	4	3	4	3	
SOC	2	2	4	4	2	2	2	2	7	7	3	2	7	1	1	4	6	1	1	1	1	2	2	1	2	3	2	3	2	
SOC	4	4	3	5	4	4	4	4	7	7	5	5	7	1	1	7	3	1	1	2	5	1	2	3	1	5	3	5	3	5
SOC	4	5	4	4	2	5	1	3	7	7	2	2	7	1	1	6	4	1	1	1	1	2	1	1	1	7	2	4	2	4
SOC	1	1	6	7	1	1	7	7	7	5	5	4	7	1	2	6	5	1	1	1	1	1	1	2	1	5	1	4	1	4
SOC	3	3	5	6	5	4	4	5	5	7	3	1	7	1	2	2	7	1	1	1	1	2	1	1	5	5	2	5	2	
SOC	3	3	1	2	3	3	2	3	7	7	3	3	7	1	1	5	5	1	1	1	1	2	1	1	5	5	2	5	2	
SOC	2	5	5	3	5	5	3	4	6	7	3	5	7	1	4	5	5	1	1	1	1	2	1	1	5	1	3	1	3	
SOC	2	5	3	3	4	5	1	2	6	7	5	3	7	1	4	7	5	1	1	1	5	3	1	3	1	3	5	4	5	4

SOC	6	4	5	6	5	3	4	5	5	7	6	5	5	5	4	5	6	1	1	1	1	2	2	1	5	2	4	2	4	
SOC	5	6	3	5	6	4	2	6	6	6	4	2	7	1	4	6	4	1	1	1	1	2	3	1	5	2	3	2	3	
SOC	3	3	2	2	4	4	4	4	6	7	3	5	7	1	4	2	4	1	1	1	1	2	1	1	5	1	3	1	3	
SOC	1	1	5	6	2	3	4	6	2	4	2	2	4	1	1	6	5	1	1	2	5	1	1	4	1	5	4	2	4	2
SOC	1	4	6	7	2	2	6	6	6	7	3	3	7	1	3	6	5	1	3	1	4	3	2	2	1	5	4	3	4	3
SOC	5	3	3	4	5	3	3	3	5	6	3	4	6	1	2	6	4	1	1	1	1	2	1	1	5	1	6	1	6	
SOC	2	2	5	5	4	4	2	4	7	7	4	4	6	1	1	7	6	1	1	2	1	2	2	1	5	5	2	5	2	
SOC	1	1	7	7	1	1	7	7	7	7	1	2	6	1	1	5	5	1	1	2	1	2	3	1	3	1	6	1	6	
SOC	3	3	5	5	6	5	3	4	6	6	4	4	7	1	2	7	4	1	1	2	1	2	1	1	5	4	2	4	2	
SOC	4	3	3	4	5	5	5	5	7	7	5	4	7	1	2	5	5	1	1	1	1	2	2	1	2	1	6	1	6	
SOC	5	2	1	5	5	3	1	5	7	4	5	4	5	4	2	7	6	1	1	2	1	1	1	1	5	2	5	2	5	
SOC	5	3	3	6	5	4	3	4	4	6	6	2	7	1	3	6	3	1	1	2	5	1	2	5	1	5	3	4	3	4
SOC	2	1	3	1	4	2	4	2	7	7	5	4	5	1	1	5	5	1	2	2	1	1	2	1	5	1	4	1	4	
SOC	3	3	1	4	6	6	3	4	7	7	3	3	5	4	6	6	4	1	1	1	1	2	2	2	3	4	2	4	2	
SOC	3	3	5	4	2	2	5	5	5	5	2	2	5	1	1	4	5	1	2	2	1	1	1	1	5	2	5	2	5	
SOC	5	6	2	3	2	2	4	6	7	7	2	2	7	1	7	7	2	1	1	1	5	1	2	4	1	5	2	7	2	7
SOC	2	3	6	6	4	6	4	3	6	6	4	1	7	1	2	5	7	1	1	1	1	1	1	2	1	5	5	1	5	1
SOC	6	6	2	5	6	6	2	5	6	7	5	2	7	1	2	6	6	1	1	1	2	2	2	1	5	3	2	3	2	
SOC	3	3	4	6	4	4	4	4	7	7	6	6	6	1	1	6	6	1	1	1	1	2	1	1	5	4	3	4	3	
SOC	7	1	1	7	3	1	1	4	7	3	7	7	7	1	1	7	3	1	1	4	PU	1	1	2	1	5	4	4	4	4
SOC	2	3	2	5	5	4	4	6	6	7	4	4	6	1	6	7	5	1	1	1	1	2	3	1	5	2	5	2	5	
SOC	5	4	4	5	5	5	3	3	7	7	6	4	5	1	1	2	6	1	1	1	1	2	1	1	5	3	2	3	2	
SOC	4	3	3	5	4	4	4	4	5	5	4	4	6	1	1	7	3	1	1	1	4	DK	1	2	1	5	3	3	3	3
SOC	2	3	6	6	1	3	6	6	7	7	5	5	8	1	1	4	7	1	1	1	1	2	2	2	3	4	2	4	2	
SOC	2	2	2	3	2	2	2	2	6	5	3	3	6	1	1	5	5	1	1	1	1	1	2	2	6	5	2	5	2	
SOC	1	1	1	1	5	5	2	3	7	7	7	4	5	1	1	4	7	1	1	1	2	1	2	1	5	8	1	8	1	
SOC	5	5	3	3	6	5	2	2	7	7	4	3	5	1	2	7	5	1	1	1	2	1	2	1	5	4	2	4	2	
SOC	2	2	5	7	4	4	3	4	7	6	6	3	5	1	3	6	4	1	2	1	2	2	2	1	3	5	1	5	1	
SOC	3	3	5	5	2	6	6	2	6	6	6	6	7	2	2	2	6	1	1	1	1	2	1	1	5	2	2	2	2	
SOC	1	1	1	4	4	4	2	3	6	5	4	2	5	1	3	7	3	1	1	1	1	2	2	2	5	1	5	1	5	
SOC	5	5	3	3	5	5	3	3	7	7	4	3	6	1	2	5	6	1	1	1	1	2	2	2	7	3	3	3	3	
SOC	2	2	5	2	2	5	3	5	6	7	4	5	6	1	1	2	7	1	1	1	1	1	1	1	7	3	3	3	3	

SOC	7	7	1	5	5	6	2	4	7	7	4	2	6	1	1	6	5	1	1	1	1	1	2	1	5	2	6	2	6			
SOC	6	5	2	4	5	4	3	5	6	7	5	2	6	1	5	6	6	1	1	1	1	1	2	2	1	6	1	5	1	5		
SOC	3	4	4	6	5	4	4	6	6	6	4	4	6	1	1	4	5	1	1	1	1	2	1	2	1	5	6	2	6	2		
SOC	2	2	5	6	2	2	3	4	7	7	4	2	6	1	2	6	6	1	1	1	1	1	1	1	1	6	1	5	1	5		
SOC	1	2	3	1	1	1	3	2	6	6	5	5	4	1	2	6	3	1	1	1	1	1	2	1	1	5	5	4	5	4		
SOC	2	4	2	4	4	4	4	4	6	6	4	2	7	1	4	4	4	1	1	1	1	1	2	2	1	3	3	2	3	2		
SOC	2	2	7	7					7	7	7	7	6	1	1	7	4	1	1	1	1	1	2	2	1	5	1	7	1	7		
SOC	5	4	3	7	5	6	1	6	5	5	5	4	7	1	1	3	5	1	1	1	1	1	2	1	1	5	2	3	2	3		
SOC	4	5	3	3	4	5	3	5	6	6	4	3	5	1	2	5	3	1	1	1	1	5	2	1	5	1	5	3	2	3	2	
SOC	4	5	3	4	4	5	5	4	6	6	4	3	5	1	1	2	5	1	1	1	1	1	1	1	1	5	5	3	5	3		
SOC	5	3	5	6	5	4	3	4	7	7	5	5	5	1	2	3	6	1	1	1	1	1	2	1	1	5	5	2	5	2		
SOC	2	3	4	5	3	2	5	6	7	7	2	2	4	1	1	1	7	1	1	1	1	1	2	1	1	5	4	1	4	1		
SOC	6	6	2	4	3	4	5	7	5	6	3	1	2	1	5	7	3	1	1	1	1	1	2	1	1	5	3	1	3	1		
SOC	1	1	7	7	1	2	7	6	7	7	6	4	6	1	2	5	4	1	1	1	1	1	1	1	1	5	1	5	1	5		
SOC	1	5	1	1	5	3	1	4	4	5	3	3	7	1	6	1	1	1	2	2	1	1	2	1	1	5	3	4	3	4		
SOC	3	3	5	6	5	5	5	3	6	7	7	5	8	1	1	7	5	1	1	1	1	1	2	1	1	5	1	3	1	3		
SOC	4	4	3	5	2	4	5	5	6	7	5	5	8	1	2	5	7	1	1	1	1	5	2	1	5	1	5	3	3	3	3	
SOC	5	5	6	6	6	6	5	5	6	7	4	3	5	3	3	4	6	1	1	1	1	1	1	1	1	5	6	3	6	3		
SOC	3	3	1	5	5	5	3	3	6	6	7	4	7	1	1	1	7	1	1	1	1	5	2	1	5		1	5	1	5		
SOC	4	4	6	4	5	2	4	4	6	7	5	5	7	1	1	5	5	1	1	1	1	1	2	1	2	6	4	3	4	3		
SOC	2	2	5	5	4	4	4	4	7	7	4	4	7	1	2	5	6	1	2	1	1	3	8	2	3	1	5	3	2	3	2	
SOC	4	4	1	5	6	4	4	4	7	7	7	5	6	1	5	5	5	1	1	1	1	1	2	1	2	7	4	2	4	2		
SOC	5	6	2	3	5	6	2	2	5	6	3	3	3	1	3	6	6	1	1	1	1	1	1	1	1	5	4	2	4	2		
SOC	2	2	3	5	3	3	2	4	6	7	4	3	7	1	5	6	5	1	1	1	1	5	2	1	5	1	5	4	3	4	3	
SOC	5	4	5	6	5	2	5	6	6	7	5	4	6	1	3	5	4	1	1	1	1	1	2	1	1	5	2	2	2	2	2	
SOC	1	2	2	5	3	4	5	6	7	7	4	5	5	1	4	7	5	1	1	1	1	3	3	2	2	1	5	4	2	4	2	
SOC	1	1	6	7	1	1	7	7	7	7	5	2	4	3	7	5	6	1	2	2	1	1	1	1	1	5	3	3	3	3	3	
SOC	2	2	5	5	2	2	5	5	5	5	4	3	7	1	3	5	4	1	1	1	1	4	4	1	2	1	7	3	3	3	3	
SOC	3	3	3	3	2	2	5	5	5	5	2	2	6	1	1	6	6	1	1	1	1	1	2	1	1	5	4	2	4	2	2	
SOC	2	2	3	5	3	2	4	5	6	7	5	2	7	1	1	5	5	1	1	1	1	4	DK	2	2	1	5	4	2	4	2	2
SOC	3	3	3	4	3	4	2	2	7	7	6	2	6	1	1	4	7	1	2	2	1	5	DK	2	5	1	5	5	2	5	2	2
SOC	5	5	4	5	5	6	4	4	6	6	4	2	4	1	3	5	6	1	1	1	1	1	1	2	1	5	4	2	4	2	2	



SOC	5	3	3	3	5	6	3	3	5	5	5	3	8	1	3	2	7	2	1	1	1	1	1	2	6	5	2	5	2		
SOC	2	3	5	5	3	3	5	3	6	5	5	4	6	1	5	5	5	1	1	1	1	1	2	1	1	5	5	2	5	2	
SOC	4	5	5	6	4	5	6	4	5	6	2	3	7	1	2	4	6	1	1	1	1	1	1	2	1	5	4	3	4	3	
SOC	5	6	3	5	5	5	3	5	7	7	5	5	7	2	2	5	5	1	1	1	1	1	1	2	1	5	4	5	4	5	
SOC	6	6	4	6	5	5	6	5	7	7	5	3	5	1	1	1	7	1	2	1	1	1	1	1	1	5	3	4	3	4	
SOC	5	5	2	7	6	6	2	5	6	6	5	2	5	1	4	7	6	1	1	1	1	5	2	2	5	1	5	5	2	5	2
SOC	2	3	4	6	2	3	5	6	6	6	3	2	7	1	1	2	7	1	1	1	1	5	3	1	3	1	5	5	1	5	1
SOC	5	5	2	5	2	3	3	5	7	7	4	5	5	1	1	7	5	1	2	1	1	1	1	1	1	5	5	3	5	3	
SOC	3	5	1	5	2	3	2	5	2	6	6	5	6	1	4	7	5	1	2	1	1	1	2	2	1	5	2	3	2	3	
SOC	5	6	2	5	4	5	3	5	7	6	6	3	6	2	3	7	5	1	1	1	1	1	2	1	1	5	3	3	3	3	
SOC	5	5	2	5	5	5	3	5	6	7	6	3	7	1	1	3	6	1	1	1	1	5	2	1	3	1	5	4	1	4	1
SOC	3	3	5	6	3	3	6	6	6	6	7	2	7	1	1	1	6	1	2	1	1	1	2	1	1	5	7	4	7	4	
SOC	2	3	4	6	2	5	2	3	6	6	3	1	8	1	2	5	6	1	1	1	1	5	3	2	2	1	5	5	2	5	2
SPA	1	7	1	1	1	1	1	1					7	1	1	1	7	1	1	1	1	5	2	2	4	1	5	5	2	5	2
SPA	3	3	5	6	4	4	4	4					7	1	5	6	6	1	2	1	1	1		2	2	2	5	3	4	3	4
SPA	2	2	6	7	2	2	6	7					6	1	2	5	7	1	1	2	1	5	1	1	6	1	5	2	5	2	5
SPA	6	7	1	5	6	6	1	3					8	1	2	5	7	1	1	1	1	5	2	1	3	1	5	3	3	3	3
SPA	2	2	6	6	2	2	6	6					7	1	1	1	7	1	1	1	1	5	1	1	5	1	5	5	3	5	3
SPA	4	4	4	4	5	5	3	3					8	1	5	7	1	1	1	1	1	1		2	2	1	5	3	3	3	3
SPA	5	5	2	2	6	6	2	2	7	7	5	7	6	1	2	2	6	1	2	1	1	3	4	1	5	1	5	3	2	3	2
SPA	1	4	7	5	7	7	3	3	7	7	3	3	6	1	4	7	3	1	2	2	1	1		2	2	2	5	1	5	1	5
SPA	3	5	4	4	2	2	2	2	6	6	6	2	6	1	4	6	5	1	3	2	1	3	4	2	3	1	5	3	3	3	3
SPA	4	4	1	2	6	6	1	2	7	7	4	4	6	1	1	4	7	1	1	2	1	5	3	2	4	1	5	6	2	6	2
SPA	5	4	2	6	3	3	1	5	7	7	7	7	7	1	1	4	6	1	2	3	1	5	6	1	3	2	5	2	4	2	4
SPA	4	3	5	6	3	3	6	6	7	7	6	5	6	1	4	6	5	1	1	1	1	1		2	1	1	5	2	3	2	3
SPA	5	5	1	3	4	4	2	4	7	7	5	3	6	1	5	3	4	1	1	2	1	3	2	2	3	2	7	5	3	5	3
SPA	3	2	4	3	2	2	4	4	4	5	6	5	5	1	2	1	6	1	1	2	1	3	3	1	5	2	5	3	3	3	3
SPA	4	4	3	4	3	3	4	4	7	5	5	4	5	1	2	3	5	1	1	1	1	1		2	1	1	5	2	2	2	2
SPA	2	2	4	6	2	4	6	4	4	4	5	2	5	1	1	5	7	1	1	1	1	5	2	1	3	1	5	3	4	3	4
SPA	1	1	2	2	5	6	6	5	7	7	6	7	3	1	2	4	4	1	DK	1	1	1		2	1	2	6	3	2	3	2
SPA	1	5	4	5	5	4	3	4	7	7	6	3	6	1	4	3	5	1	1	1	1	1		2	1	1	5	1	8	1	8
SPA	6	7	1	2	6	6	2	2	6	7	6	5	7	1	3	2	7	1	1	1	1	5	2	1	4	2	5	4	2	4	2

SPA	2	5	5	5	4	4	2	5	7	7	7	4	6	1	1	1	7	1	2	1	1	1	2	1	5	3	3	3	3				
SPA	3	4	2	2	3	5	3	4	6	6	6	3	7	1	3	4	6	1	1	1	1	1	1	1	2	2	2	2	2				
SPA	2	4	1	6	1	6	1	6	6	6	2	5	5	1	5	6	3	1	2	2	1	1	2	2	6	2	3	2	3				
STA	5	5	5	3	5	5	5	3	7	7	2	2	3	1	1	4	5	1	1	1	1	1	1	1	2	1	3	4	3	4			
STA	6	5	5	4	5	5	5	5	4	6	1	2	3	1	1	1	6	1	1	2	1	1	1	1	2	8	1	8	1				
STA	3	3	6	5	5	4	3	3	6	6	2	3	4	3	4	5	5	1	2	1	1	1	1	1	7	1	2	1	2				
STA	4	4	4	4	3	4	2	7	6	6	2	1	2	1	1	1	7	1	1	1	1	1	1	1	2	4	2	4	2				
STA	2	5	4	5	4	4	3	5	6	5	2	2	6	1	2	5	6	1	1	1	1	5	2	2	4	1	5	5	7	5	7		
STA	6	3	1	5	6	5	7	5	7	7	1	1	5	1	1	6	7	1	1	1	1	5	1	1	2	1	2	3	2	3	2		
STA	3	2	2	6	5	2	1	6	7	6	3	4	5	3	3	6	5	1	1	1	1	6	EM	1	6	5	1	1	EM	EM			
STA	2	1	6	4	6	4	5	5	6	7	3	2	5	1	1	1	7	1	1	1	1	1	1	1	1	5	1	2	1	2			
STA	4	6	6	5	6	7	5	4	5	7	2	2	4	1	5	5	4	1	1	1	1	1	1	1	2	1	1	5	3	4	3	4	
STA	6	5	2	3							6	5	2	2	6	1	1	1	7	1	2	1	3	DK	1	5	1	5	3	3	3	3	
STA	6	7	1	2	6	5	1	3	7	7	2	2	4	1	1	5	5	1	DK	2	5	1	DK	2	5	1	4	1	5	4	2	4	2
STA	2	2	6	5	2	2	6	5	7	5	5	4	3	2	3	4	6	1	1	1	1	1	1	1	2	1	1	5	4	1	4	1	
STA	3	3	5	5	2	2	4	4	6	6	2	2	7	1	2	4	5	1	1	1	1	1	1	1	2	1	1	5	8	1	8	1	
STA	7	5	2	4	5	5	2	6	5	6	1	2	4	1	2	2	6	1	1	1	1	1	1	1	1	4	1	5	1	2	1	2	
STA	3	3	6	6	5	4	3	5	7	7	1	1	5	1	3	7	5	1	1	1	1	1	1	1	2	1	1	5	4	1	4	1	
STA	4	2	3	5	4	4	4	4	4	5	3	3	4	2	4	2	6	1	2	1	1	3	4	4	1	2	1	5	3	4	3	4	
STA	4	5	4	3	5	4	4	4	5	5	4	4	4	4	4	4	5	1	1	1	1	3	3	2	2	2	1	5	4	3	4	3	
STA	3	2	5	5	6	5	3	2	7	7	2	1	5	1	4	4	2	1	2	1	1	3	DK	2	3	1	5	4	4	4	4	4	
STA	2	2	5	5	3	3	6	5	7	6	4	2	6	1	2	6	2	1	2	1	1	1	1	1	2	1	1	5	3	2	3	2	
STA	5	5	3	5	5	5	2	3	7	7	3	3	5	1	3	5	6	1	1	2	5	5	1	1	2	1	5	5	2	5	2		
STA	5	6	2	2	5	6	2	2	6	5	2	2	4	1	4	4	6	1	2	4	PU	1	1	1	2	1	5	1	3	1	3		
STA	3	4	4	6	4	3	4	5	5	7	3	3	4	5	3	5	4	1	2	2	1	1	1	1	2	2	1	5	2	1	2	1	
STA	7	7	1	2	7	7	1	1	7	7	5	3	4	1	4	7	1	1	2	1	5	2	2	1	4	1	5	5	1	5	1		
STA	2	2	6	6	2	4	5	5	4	6	2	2	4	2	5	5	5	1	1	2	1	1	1	1	1	2	6	1	6	1			
STA	5	5	2	2	5	5	2	2	6	6	1	1	3	2	3	3	4	1	2	2	1	1	1	1	2	4	3	4	3	4	3		
STA	3	4	3	3	5	5	2	2	6	5	3	3	4	1	2	5	4	1	1	1	5	2	2	1	5	1	5	6	1	6	1		
STA	6	4	4	6	5	5	3	4	6	6	3	1	6	1	3	5	5		1	2	1	1	1	1	2	1	5	4	2	4	2		
STA	3	2	5	5	2	2	6	6	5	5	2	2	4	4	4	6	3	1	1	2	1	1	1	1	2	3	4	3	4	3	4		

*Notes. Questions.* (NB: question numbering does not indicate the order in which questions were presented; please refer to materials and methods for information on ordering.) Q1-Q4 – These items ask about your own beliefs regarding X. Please rate your agreement with the following: Q1: Personally, I think that being a top scholar of X requires a special aptitude that just can't be taught; Q2: Personally, I think that if you want to succeed in X, hard work alone just won't cut it; you need to have an innate gift or talent; Q3: Personally, I think that with the right amount of effort and dedication, anyone can be a top scholar of X; Q4: Personally, I think that when it comes to X, the most important factors for success are motivation and sustained effort; raw ability is secondary; Q5-Q8 – These items ask about beliefs generally held by other academics in the field of X. Please rate your agreement with the following: Q5: Other academics in X tend to think that being a top scholar of X requires a special aptitude that just can't be taught; Q6: Other academics in X tend to think that if you want to succeed in X, hard work alone just won't cut it; you need to have an innate gift or talent; Q7: Other academics in X tend to think that with the right amount of effort and dedication, anyone can be a top scholar of X; Q8: Other academics in X tend to think that when it comes to X, the most important factors for success are motivation and sustained effort; raw ability is secondary (Q1-Q8: 1=Strongly Disagree to 7=Strongly Agree); Q9-Q12 -- Please rate the extent to which the following processes are involved in doing scholarly work in X: Q9: Identifying the abstract principles, structures, or rules that underlie the relevant subject matter; Q10: Analyzing the relevant subject matter and constructing a systematic understanding of it; Q11: Having a refined understanding of human thoughts and feelings; Q12: Recognizing and responding appropriately to people's mental states (Q9-Q12: 1=Never Involved to 7=Highly Involved); Q13: Please provide your best guess or estimate for this question: In the recent past, what percentage of X doctoral (Ph.D.) degrees from American universities do you think have been earned by women? (1=0-9%, 2=10-19%, 3=20-29%, 4=30-39%, 5=40-49%, 6=50-59%, 7=60-69%, 8=70-79%, 9=80-89%, 10=90-100%); Q14: These items ask about your own beliefs regarding X. Please rate your agreement with the following: Personally, I think that even though it's not politically correct to say it, men are often more suited than women to do high-level work in X; Q15: This item asks about beliefs generally held by other academics in the field of X. Please rate your agreement with the following: Other academics in X tend to think that even though it's not politically correct to say it, men are often more suited than women to do high-level work in X; Q16: These items ask about your own beliefs regarding X. Please rate your agreement with the following: Personally, I think that women face more challenges than men if they pursue careers in X; Q17: These items ask about your own beliefs regarding X. Please rate your agreement with the following: Personally, I think that X as a discipline is welcoming to women (Q14-Q17: 1=Strongly Disagree to 7=Strongly Agree); Q18: Does your institution have a Ph.D. program in X? (1=Y, 2=N); Q19: Approximately how does your department compare to other departments in your field in terms of overall reputation? (Please consider only institutions in the United States.) (1=Top 10%, 2=Top 25%, 3=Top 50%, 4=Lower 50%, 5=don't know (5s are replaced by text "DK")); Q20: How would you categorize your institution? 1=public university, 2=private research university, 3=liberal arts college, 4=other (please specify); Q21: How would you categorize your institution? (TEXT if selection to prior forced-choice item was "Other"); Q22: What is your position? (1=graduate student, 2=post-doctoral fellow/researcher, 3=untentured faculty, non-tenure track, 4=untentured faculty, tenure track, 5=tenured faculty, 6=other (please specify)); Q23: What is your position? (TEXT if selection to prior forced-choice item was "Other"); Q24: If your institution does have a Ph.D. program in your discipline, please provide your best guess or estimate for this question: Roughly what percentage of applicants are accepted into your department's Ph.D. program in a typical year? (if not, please select "no Ph.D. program") (Question was displayed only for individuals reporting themselves as untentured faculty, non-tenure track; untentured faculty, tenure track; or tenured faculty. 1=0-9%, 2=10-19%, 3=20-29%, 4=30-39%, 5=40-49%, 6=50-59%, 7=60-69%, 8=70-79%, 9=80-89%, 10=90-100%, 11=don't know, 12=No Ph.D. program (responses of 11 and 12 replaced by text)); Q25: Are you: 1=male, 2=female; Q26: What is your age? 1=<30, 2=30-39, 3=40-49, 4=50-59, 5=60-69, 6=70 or >; Q27: What is your ethnicity? (1= Not Hispanic or Latino, 2=Hispanic or Latino); Q28: What is your race? 1=American Indian or Alaska Native, 2=Asian, 3=Black or African American, 4=Native Hawaiian or Other Pacific Islander, 5=White, 6=Multi-Racial, 7=Other; Q29: Approximately how many hours a week do you spend working In your office, lab, classroom, or otherwise on campus? (1=<10, 2=10-19, 3=20-29, 4=30-39, 5=40-49, 6=50-59, 7=60-69, 8=>70); Q30: Approximately how many hours a week do you spend working off campus (e.g., home, coffee shop, other remote site?) (1=<10, 2=10-19, 3=20-29, 4=30-39, 5=40-49, 6=50-59, 7=60-69, 8=>70); R29: [for calculation purposes only] responses to Q29 with responses from emeritus faculty replaced by "EM"; R30: [for calculation purposes only] responses to Q30 with responses from emeritus faculty replaced by "EM".

Discipline abbreviations. ANT: Anthropology; ARC: Archaeology; AHI: Art History; AST: Astrophysics; BCH: Biochemistry; CHE: Chemistry; CLA: Classics; COM: Communication Studies; CLI: Comparative Literature; CSC: Computer Science; EAR: Earth Sciences; ECO: Economics; EDU: Education; ENG: Engineering; ELI: English Literature; EVO: Evolutionary Biology; HIS: History; LIN: Linguistics; MAT: Mathematics; MES: Middle Eastern Studies; MOL: Molecular Biology; MTC: Music Theory and Composition; NEU: Neuroscience; PHI: Philosophy; PHY: Physics; POL: Political Science; PSY: Psychology; SOC: Sociology; SPA: Spanish; STA: Statistics.

Text field abbreviations/coding. AD=Adjunct; CH=Chair; CP=chaired professor; DE=Dean; DK=don't know; DO=PhD dropout; EM= emeritus; HE=Head of research institute; IN=Industry; PU=Private university; R1=Public research university (R1); RC=Regional Comprehensive University; RF=Research Fellow; RG=Recent Graduate; RP=Research Professor; SR=State Related; SS=State Survey.

## References

1. M. Bennett, Men's and women's self-estimates of intelligence. *J. Soc. Psychol.* **136**, 411–412 (1996). [Medline](#)
2. B. Kirkcaldy, P. Noack, A. Furnham, G. Siefen, Parental estimates of their own and their children's intelligence. *Eur. Psychol.* **12**, 173–180 (2007).
3. A. Lecklider, *Inventing the Egghead* (Univ. of Pennsylvania Press, Philadelphia, 2013).
4. J. Tiedemann, Gender-related beliefs of teachers in elementary school mathematics. *Educ. Stud. Math.* **41**, 191–207 (2000).
5. S. J. Ceci, W. M. Williams, *Why Aren't More Women in Science?* (APA, Washington, DC, 2007).
6. S. J. Ceci, W. M. Williams, Understanding current causes of women's underrepresentation in science. *Proc. Natl. Acad. Sci. U.S.A.* **108**, 3157–3162 (2011). [Medline](#)
7. National Science Foundation, Survey of Earned Doctorates, (2011); [www.nsf.gov/statistics/srvydoctorates/](http://www.nsf.gov/statistics/srvydoctorates/).
8. S. J. Ceci, D. K. Ginther, S. Kahn, W. M. Williams, Women in academic science: A changing landscape. *Psychol. Sci. Public Interest* **15**, 75(2014).
9. C. S. Dweck, *Mindset: The New Psychology of Success* (Random House, New York, 2006).
10. V. Valian, *Why So Slow? The Advancement of Women* (MIT Press, Cambridge, MA, 1998).
11. I. Dar-Nimrod, S. J. Heine, Exposure to scientific theories affects women's math performance. *Science* **314**, 435 (2006). [Medline](#)
12. A. Wigfield, J. S. Eccles, Expectancy-value theory of achievement motivation. *Contemp. Educ. Psychol.* **25**, 68–81 (2000). [Medline](#)
13. K. Ferriman, D. Lubinski, C. P. Benbow, Work preferences, life values, and personal views of top math/science graduate students and the profoundly gifted: Developmental changes and gender differences during emerging adulthood and parenthood. *J. Pers. Soc. Psychol.* **97**, 517–532 (2009). [Medline](#)
14. D. C. Geary, *Male, Female: The Evolution of Human Sex Differences* (APA Books, Washington, DC, ed. 2, 2010).
15. L. V. Hedges, A. Nowell, Sex differences in mental test scores, variability, and numbers of high-scoring individuals. *Science* **269**, 41–45 (1995). [Medline](#)
16. J. S. Hyde, The gender similarities hypothesis. *Am. Psychol.* **60**, 581–592 (2005). [Medline](#)
17. A. M. Penner, Gender differences in extreme mathematical achievement: An international perspective on biological and social factors. *Am. J. Sociol.* **114** (suppl.), S138–S170 (2008). [Medline](#)
18. J. Billington, S. Baron-Cohen, S. Wheelwright, Cognitive style predicts entry into physical sciences and humanities: Questionnaire and performance tests of empathy and systemizing. *Learn. Individ. Differ.* **17**, 260–268 (2007).

19. R. Lippa, Gender-related individual differences and the structure of vocational interests: The importance of the people-things dimension. *J. Pers. Soc. Psychol.* **74**, 996–1009 (1998). [Medline](#)
20. Educational Testing Service, *GRE: Guide to the Use of Scores* (ETS, Princeton, NJ, 2012).
21. J. Bethlehem, Selection bias in web surveys. *Int. Stat. Rev.* **78**, 161–188 (2010).
22. R. J. A. Little, Post-stratification: A modeler's perspective. *J. Am. Stat. Assoc.* **88**, 1001–1012 (1993).
23. A. F. Hayes, *Introduction to Mediation, Moderation, and Conditional Process Analysis* (Guilford Press, New York, 2013).
24. C. M. Steele, J. Aronson, Stereotype threat and the intellectual test performance of African Americans. *J. Pers. Soc. Psychol.* **69**, 797–811 (1995). [Medline](#)
25. M. Shih, T. L. Pittinsky, N. Ambady, Stereotype susceptibility: Identity salience and shifts in quantitative performance. *Psychol. Sci.* **10**, 80–83 (1999).
26. J. D. Angrist, J. S. Pischke, *Mostly Harmless Econometrics: An Empiricist's Companion* (Princeton Univ. Press, Princeton, NJ, 2008).
27. S. J. Gould, *The Mismeasure of Man* (Norton, New York, 1996).