

5/. Worksheet: Alpha Diversity

Student Name; Z620: Quantitative Biodiversity, Indiana University

29 January, 2025

OVERVIEW

In this exercise, we will explore aspects of local or site-specific diversity, also known as alpha (*/alpha*) diversity. First we will quantify two of the fundamental components of (*/alpha*) diversity: **richness** and **evenness**. From there, we will then discuss ways to integrate richness and evenness, which will include univariate metrics of diversity along with an investigation of the **species abundance distribution (SAD)**.

Directions:

1. In the Markdown version of this document in your cloned repo, change “Student Name” on line 3 (above) to your name.
2. Complete as much of the worksheet as possible during class.
3. Use the handout as a guide; it contains a more complete description of data sets along with the proper scripting needed to carry out the exercise.
4. Answer questions in the worksheet. Space for your answer is provided in this document and indicated by the “>” character. If you need a second paragraph be sure to start the first line with “>”. You should notice that the answer is highlighted in green by RStudio (color may vary if you changed the editor theme).
5. Before you leave the classroom, **push** this file to your GitHub repo.
6. For the assignment portion of the worksheet, follow the directions at the bottom of this file.
7. When you are done, **Knit** the text and code into a PDF file.
8. After Knitting, submit the completed exercise by creating a **pull request** via GitHub. Your pull request should include this file `AlphaDiversity_Worskheet.Rmd` and the PDF output of `Knitr` (`AlphaDiversity_Worskheet.pdf`).

1) R SETUP

In the R code chunk below, please provide the code to: 1) Clear your R environment, 2) Print your current working directory, 3) Set your working directory to your `Week-2/` folder folder, and 4) Load the `vegan` R package (be sure to install first if you have not already).

```
setwd("C:/Users/ADMIN/OneDrive/Documents/GitHub/QB2025_Nambiar/Week2-Alpha/data")
mic<-read.table("C:/Users/ADMIN/OneDrive/Documents/GitHub/QB2025_Nambiar/Week2-Alpha/data/soilbac.txt",
getwd()

## [1] "C:/Users/ADMIN/OneDrive/Documents/GitHub/QB2025_Nambiar/Week2-Alpha/data"
```

```
library(vegan)

## Warning: package 'vegan' was built under R version 4.4.2

## Loading required package: permute

## Warning: package 'permute' was built under R version 4.4.2

## Loading required package: lattice

## This is vegan 2.6-8
```

2) LOADING DATA

In the R code chunk below, do the following: 1) Load the BCI dataset, and 2) Display the structure of the dataset (if the structure is long, use the `max.level = 0` argument to show the basic information).

```
data(BCI)
data<-data(BCI)
data

## [1] "BCI"

str(BCI, max.level=0) # max.level=0 is the

## 'data.frame':    50 obs. of  225 variables:
##  - attr(*, "original.names")= chr [1:225] "Abarema.macradenium" "Acacia.melanoceras" "Acalypha.diver...
```

3) SPECIES RICHNESS

Species richness (S) refers to the number of species in a system or the number of species observed in a sample.

Observed richness

In the R code chunk below, do the following:

1. Write a function called `S.obs` to calculate observed richness
2. Use your function to determine the number of species in `site1` of the BCI data set, and
3. Compare the output of your function to the output of the `specnumber()` function in `vegan`.

```
library(dplyr)
```

```
##
## Attaching package: 'dplyr'
```

```

## The following objects are masked from 'package:stats':
##
##     filter, lag

## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union

library(tidyverse)

## Warning: package 'tidyverse' was built under R version 4.4.1

## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## vforcats    1.0.0    vreadr      2.1.5
## vggplot2    3.5.1    vstringr   1.5.1
## vlubridate  1.9.3    vtibble     3.2.1
## vpurrr      1.0.2    vtidyr     1.3.1

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()   masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors

S.obs <- function(x){

  total<-as.data.frame(rowSums(x>0)*1)
  colnames(total)<-"total"

  x<-cbind(total,x )
  return(x)
}

total_BCI<-S.obs(BCI)
total_BCI

##      total Abarema.macradenia Vachellia.melanoceras Acalypha.diversifolia
## 1      93                      0                  0                  0
## 2      84                      0                  0                  0
## 3      90                      0                  0                  0
## 4      94                      0                  0                  0
## 5     101                      0                  0                  0
## 6      85                      0                  0                  0
## 7      82                      0                  0                  0
## 8      88                      0                  0                  0
## 9      90                      0                  0                  0
## 10     94                      1                  0                  0
## 11     87                      0                  0                  0
## 12     84                      0                  0                  0
## 13     93                      0                  0                  0
## 14     98                      0                  0                  0
## 15     93                      0                  0                  0
## 16     93                      0                  0                  0

```

## 17	93	0	0	0
## 18	89	0	0	0
## 19	109	0	0	0
## 20	100	0	0	0
## 21	99	0	0	0
## 22	91	0	0	0
## 23	99	0	0	0
## 24	95	0	0	0
## 25	105	0	0	0
## 26	91	0	0	0
## 27	99	0	0	0
## 28	85	0	2	0
## 29	86	0	0	0
## 30	97	0	0	0
## 31	77	0	0	0
## 32	88	0	1	0
## 33	86	0	0	0
## 34	92	0	0	1
## 35	83	0	0	0
## 36	92	0	0	0
## 37	88	0	0	0
## 38	82	0	0	0
## 39	84	0	0	0
## 40	80	0	0	1
## 41	102	0	0	0
## 42	87	0	0	0
## 43	86	0	0	0
## 44	81	0	0	0
## 45	81	0	0	0
## 46	86	0	0	0
## 47	102	0	0	0
## 48	91	0	0	0
## 49	91	0	0	0
## 50	93	0	0	0
## Acalypha.macrostachya Adelia.triloba Aegiphila.panamensis				
## 1		0	0	0
## 2		0	0	0
## 3		0	0	0
## 4		0	3	0
## 5		0	1	1
## 6		0	0	0
## 7		0	0	1
## 8		0	0	0
## 9		0	5	0
## 10		0	0	1
## 11		0	0	0
## 12		0	1	1
## 13		0	1	1
## 14		0	0	0
## 15		0	2	0
## 16		0	2	0
## 17		0	0	1
## 18		0	1	1
## 19		0	0	1

## 20	0	0	2
## 21	0	0	1
## 22	0	1	0
## 23	0	0	0
## 24	0	2	1
## 25	0	0	1
## 26	0	0	0
## 27	0	1	4
## 28	1	0	1
## 29	0	1	0
## 30	0	14	2
## 31	0	5	0
## 32	0	7	0
## 33	0	3	1
## 34	0	3	0
## 35	0	6	0
## 36	0	1	0
## 37	0	2	0
## 38	0	6	0
## 39	0	9	0
## 40	0	7	0
## 41	0	0	1
## 42	0	0	0
## 43	0	0	1
## 44	0	4	0
## 45	0	0	0
## 46	0	0	0
## 47	0	2	0
## 48	0	1	0
## 49	0	0	0
## 50	0	1	0
## Alchornea.costaricensis Alchornea.latifolia Alibertia.edulis			
## 1	2	0	0
## 2	1	0	0
## 3	2	0	0
## 4	18	0	0
## 5	3	0	0
## 6	2	1	0
## 7	0	0	0
## 8	2	0	0
## 9	2	0	0
## 10	2	0	0
## 11	10	0	0
## 12	3	0	0
## 13	1	0	1
## 14	4	0	0
## 15	2	0	0
## 16	2	0	0
## 17	2	0	0
## 18	0	0	0
## 19	1	0	0
## 20	2	0	0
## 21	2	0	0
## 22	4	0	0

## 23	1	0	0
## 24	0	0	0
## 25	2	0	0
## 26	3	0	0
## 27	3	0	0
## 28	2	0	0
## 29	1	0	0
## 30	6	0	0
## 31	4	0	0
## 32	6	0	0
## 33	3	0	0
## 34	5	0	0
## 35	8	0	0
## 36	3	0	0
## 37	4	0	0
## 38	2	0	0
## 39	3	0	0
## 40	3	0	0
## 41	11	0	0
## 42	0	0	0
## 43	3	0	0
## 44	4	0	0
## 45	0	0	0
## 46	0	0	0
## 47	1	0	0
## 48	3	0	0
## 49	6	0	0
## 50	2	0	0
## Allophylus.psilospermus			
## 1	0	25	0
## 2	0	26	0
## 3	0	18	0
## 4	0	23	0
## 5	1	16	0
## 6	0	14	0
## 7	0	18	0
## 8	0	14	0
## 9	0	16	0
## 10	0	14	0
## 11	0	14	0
## 12	2	19	0
## 13	1	8	0
## 14	0	17	0
## 15	0	15	0
## 16	3	25	0
## 17	2	31	0
## 18	0	7	0
## 19	1	13	0
## 20	0	10	0
## 21	1	12	0
## 22	4	22	0
## 23	0	5	0
## 24	1	14	0
## 25	0	20	0

## 26	0	7	0	
## 27	3	17	0	
## 28	0	16	0	
## 29	0	15	0	
## 30	0	36	0	
## 31	0	11	0	
## 32	0	21	0	
## 33	1	24	0	
## 34	0	42	0	
## 35	0	93	0	
## 36	0	8	0	
## 37	0	19	0	
## 38	1	25	0	
## 39	1	38	0	
## 40	1	65	0	
## 41	0	13	0	
## 42	0	13	0	
## 43	0	8	0	
## 44	0	13	0	
## 45	0	10	0	
## 46	0	29	2	
## 47	1	17	0	
## 48	1	12	0	
## 49	1	6	1	
## 50	1	9	0	
## Anacardium.excelsum Andira.inermis Annona.spraguei Apeiba.glabra				
## 1	0	0	1	13
## 2	0	0	0	12
## 3	0	0	1	6
## 4	0	0	0	3
## 5	0	1	0	4
## 6	0	1	0	10
## 7	0	0	0	5
## 8	1	0	1	4
## 9	0	1	1	5
## 10	0	0	0	5
## 11	1	1	0	2
## 12	0	0	0	4
## 13	0	0	3	1
## 14	0	1	4	5
## 15	0	0	2	8
## 16	0	0	0	5
## 17	0	0	1	1
## 18	2	0	2	1
## 19	0	2	1	13
## 20	0	0	2	6
## 21	2	0	0	2
## 22	0	1	0	7
## 23	2	1	0	3
## 24	1	2	0	6
## 25	1	0	0	6
## 26	0	2	0	4
## 27	0	0	0	2
## 28	2	1	0	6

## 29	0	1	0	5
## 30	0	2	0	5
## 31	0	0	0	5
## 32	0	0	0	4
## 33	0	2	0	8
## 34	0	1	0	3
## 35	0	0	0	5
## 36	0	0	1	3
## 37	0	0	0	4
## 38	0	0	1	1
## 39	0	0	0	3
## 40	2	0	0	7
## 41	2	1	0	2
## 42	0	1	0	5
## 43	0	2	0	2
## 44	0	0	0	7
## 45	0	0	0	1
## 46	0	0	3	0
## 47	0	0	1	8
## 48	3	1	2	2
## 49	1	2	0	4
## 50	2	1	0	3
## Apeiba.tibourbou				
## Aspidosperma.desmanthum				
## Astrocaryum.standleyanum				
## 1	2	0	0	0
## 2	0	0	0	2
## 3	1	0	0	1
## 4	1	1	0	5
## 5	0	1	0	6
## 6	0	1	0	2
## 7	0	0	0	2
## 8	1	0	0	0
## 9	0	0	0	2
## 10	0	1	0	1
## 11	0	0	0	3
## 12	0	0	0	1
## 13	1	0	0	12
## 14	1	1	0	5
## 15	0	0	0	0
## 16	0	0	0	5
## 17	0	1	0	1
## 18	1	0	0	6
## 19	1	0	0	2
## 20	1	0	0	0
## 21	0	2	0	3
## 22	0	0	0	8
## 23	0	0	0	17
## 24	0	0	0	7
## 25	0	3	0	13
## 26	1	0	0	4
## 27	0	0	0	5
## 28	0	2	0	4
## 29	0	2	0	1
## 30	1	0	0	1
## 31	0	0	0	3

## 32	0	1	4
## 33	1	3	10
## 34	1	3	3
## 35	1	0	3
## 36	0	3	2
## 37	0	1	2
## 38	0	3	1
## 39	0	5	1
## 40	0	3	3
## 41	0	0	3
## 42	1	2	13
## 43	0	3	1
## 44	0	2	6
## 45	0	0	1
## 46	3	1	6
## 47	1	2	5
## 48	0	2	7
## 49	0	1	4
## 50	1	2	4
## Astronium.graveolens			
## Attalea.butyraceae			
## Banara.guianensis			
## 1	6	0	0
## 2	0	1	0
## 3	1	0	0
## 4	3	0	0
## 5	0	0	0
## 6	1	1	0
## 7	2	1	0
## 8	2	0	0
## 9	0	0	0
## 10	0	0	0
## 11	0	0	0
## 12	0	0	0
## 13	0	4	0
## 14	0	4	0
## 15	0	0	0
## 16	0	1	0
## 17	2	0	0
## 18	0	2	0
## 19	0	0	0
## 20	0	0	0
## 21	1	1	0
## 22	2	1	0
## 23	0	1	1
## 24	0	1	0
## 25	0	2	0
## 26	2	2	0
## 27	0	1	0
## 28	1	0	0
## 29	1	0	0
## 30	1	0	0
## 31	1	2	0
## 32	0	0	0
## 33	1	0	0
## 34	7	0	0

## 35	1	0	0
## 36	0	0	0
## 37	0	0	0
## 38	0	1	0
## 39	2	0	0
## 40	1	0	0
## 41	0	1	0
## 42	0	1	0
## 43	0	0	0
## 44	0	0	0
## 45	0	1	0
## 46	1	1	0
## 47	0	0	0
## 48	0	2	0
## 49	0	1	0
## 50	0	0	0
## Beilschmiedia.pendula		Brosimum.alicastrum	Brosimum.guianense
## 1	4	5	0
## 2	5	2	0
## 3	7	4	0
## 4	5	3	0
## 5	8	2	0
## 6	6	2	0
## 7	5	6	0
## 8	9	4	0
## 9	11	3	0
## 10	14	6	0
## 11	1	5	0
## 12	2	4	0
## 13	0	2	0
## 14	3	4	0
## 15	9	3	0
## 16	4	4	0
## 17	2	5	0
## 18	0	0	0
## 19	2	4	0
## 20	1	0	0
## 21	2	2	0
## 22	0	8	0
## 23	0	2	0
## 24	16	4	0
## 25	5	5	0
## 26	3	3	0
## 27	1	5	0
## 28	3	4	0
## 29	11	2	0
## 30	4	5	0
## 31	2	2	0
## 32	5	8	0
## 33	2	3	0
## 34	5	5	0
## 35	1	1	0
## 36	1	3	0
## 37	2	4	0

## 38	5	8	0
## 39	9	5	0
## 40	5	5	0
## 41	7	6	0
## 42	4	4	0
## 43	10	2	0
## 44	21	2	0
## 45	42	2	0
## 46	0	5	0
## 47	1	1	1
## 48	1	6	0
## 49	11	4	0
## 50	17	4	0
## Calophyllum.longifolium	Casearia.aculeata	Casearia.arborea	
## 1	0	0	1
## 2	2	0	1
## 3	0	0	3
## 4	2	0	2
## 5	1	0	4
## 6	2	0	1
## 7	2	0	2
## 8	2	1	3
## 9	2	0	9
## 10	0	0	7
## 11	0	0	2
## 12	0	0	1
## 13	0	1	0
## 14	4	0	4
## 15	0	0	6
## 16	1	0	1
## 17	0	1	0
## 18	4	0	0
## 19	1	0	4
## 20	2	0	6
## 21	2	1	0
## 22	1	1	0
## 23	1	0	1
## 24	2	0	1
## 25	1	1	3
## 26	0	0	1
## 27	1	2	0
## 28	1	0	2
## 29	1	0	0
## 30	0	1	0
## 31	4	0	1
## 32	0	1	0
## 33	0	0	0
## 34	0	7	8
## 35	1	0	3
## 36	0	1	5
## 37	1	1	1
## 38	1	0	2
## 39	0	0	2
## 40	1	1	4

	## 41	## 42	## 43	## 44	## 45	## 46	## 47	## 48	## 49	## 50	## Casearia.commersoniana	## Casearia.guianensis	## Casearia.sylvestris
## 1	0	1	0	2	3	2	0	2	2	0	0	0	1
## 2	0	0	0	1	0	0	0	0	0	0	0	0	0
## 3	1	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	1	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	3
## 7	0	0	0	0	0	0	0	0	0	0	0	0	1
## 8	0	0	0	0	0	0	0	0	0	0	0	0	0
## 9	1	0	0	0	0	0	0	0	0	0	0	0	1
## 10	0	0	0	0	0	0	0	0	0	0	0	0	1
## 11	0	0	0	0	0	0	0	0	0	0	0	0	0
## 12	0	0	0	0	0	0	0	0	0	0	0	0	1
## 13	0	0	0	0	0	0	0	0	0	0	0	0	1
## 14	0	0	0	0	0	0	0	0	0	0	0	0	0
## 15	0	0	0	0	0	0	0	0	0	0	0	0	0
## 16	0	0	0	0	0	0	0	0	0	0	0	0	2
## 17	0	0	0	0	0	0	1	0	0	0	0	0	0
## 18	0	0	0	0	0	0	0	0	0	0	0	0	1
## 19	0	0	0	0	0	0	0	0	0	0	0	0	1
## 20	0	0	0	0	0	0	0	0	0	0	0	0	1
## 21	0	0	0	0	0	0	0	0	0	0	0	0	0
## 22	0	0	0	0	0	0	0	0	0	0	0	0	2
## 23	0	0	0	0	0	0	0	0	0	0	0	0	1
## 24	0	0	0	0	0	0	0	0	0	0	0	0	2
## 25	0	0	0	0	0	0	0	0	0	0	0	0	1
## 26	0	0	0	0	0	0	0	0	0	0	0	0	1
## 27	0	0	0	0	0	0	0	0	0	0	0	0	1
## 28	0	0	0	0	0	0	0	0	0	0	0	0	0
## 29	0	0	0	0	0	0	0	0	0	0	0	0	0
## 30	0	0	0	0	0	0	0	0	0	0	0	0	5
## 31	0	0	0	0	0	0	0	0	0	0	0	0	0
## 32	0	0	0	0	0	0	0	0	0	0	0	0	4
## 33	0	0	0	0	0	0	0	0	0	0	0	0	0
## 34	0	0	0	0	0	0	0	0	0	0	0	0	1
## 35	0	0	0	0	0	0	0	0	0	0	0	0	3
## 36	0	0	0	0	0	0	0	0	0	0	0	0	2
## 37	0	0	0	0	0	0	0	0	0	0	0	0	1
## 38	0	0	0	0	0	0	0	0	0	0	0	0	0
## 39	0	0	0	0	0	0	0	0	0	0	0	0	3
## 40	0	0	0	0	0	0	0	0	0	0	0	0	2
## 41	0	0	0	0	0	0	0	0	0	0	0	0	2
## 42	0	0	0	0	0	0	0	0	0	0	0	0	2
## 43	0	0	0	0	0	0	0	0	0	0	0	0	0

## 44	0	0	1
## 45	0	0	0
## 46	0	1	3
## 47	0	0	0
## 48	0	0	0
## 49	0	0	1
## 50	0	0	0
## Cassipourea.guianensis	Cavanillesia.platanifolia	Cecropia.insignis	
## 1	2	0	12
## 2	0	0	5
## 3	1	0	7
## 4	1	0	17
## 5	3	0	21
## 6	4	0	4
## 7	4	0	0
## 8	0	0	7
## 9	2	0	2
## 10	1	0	16
## 11	0	0	3
## 12	2	0	2
## 13	9	0	1
## 14	3	0	11
## 15	0	0	24
## 16	1	0	2
## 17	0	0	3
## 18	6	0	0
## 19	2	0	8
## 20	3	0	11
## 21	1	0	2
## 22	2	0	1
## 23	6	0	2
## 24	1	0	3
## 25	2	1	10
## 26	2	3	1
## 27	0	1	3
## 28	3	1	3
## 29	3	0	5
## 30	3	1	14
## 31	0	1	3
## 32	1	1	4
## 33	0	1	6
## 34	1	1	2
## 35	0	1	2
## 36	0	0	6
## 37	2	0	10
## 38	2	1	6
## 39	0	1	4
## 40	0	1	2
## 41	2	0	7
## 42	2	0	2
## 43	2	1	2
## 44	0	0	0
## 45	3	0	5
## 46	1	0	1

## 47	2	2	2
## 48	0	1	0
## 49	0	0	0
## 50	2	0	0
## Cecropia.obtusifolia	Cedrela.odorata	Ceiba.pentandra	Celtis.schippii
## 1	0	0	0
## 2	0	0	1
## 3	0	0	1
## 4	0	0	0
## 5	1	0	1
## 6	0	0	0
## 7	0	0	0
## 8	2	0	1
## 9	0	0	0
## 10	2	0	1
## 11	0	0	2
## 12	1	0	0
## 13	1	0	2
## 14	1	0	0
## 15	0	1	2
## 16	0	0	1
## 17	0	0	2
## 18	0	0	0
## 19	3	0	0
## 20	0	0	1
## 21	4	0	2
## 22	0	0	2
## 23	3	0	2
## 24	0	0	1
## 25	1	0	1
## 26	0	0	1
## 27	0	0	2
## 28	0	0	0
## 29	1	0	3
## 30	1	0	1
## 31	0	1	0
## 32	0	0	1
## 33	1	0	1
## 34	1	0	0
## 35	0	0	1
## 36	0	0	1
## 37	0	0	1
## 38	0	0	1
## 39	0	0	0
## 40	0	0	0
## 41	0	0	1
## 42	0	0	0
## 43	0	0	0
## 44	1	0	0
## 45	0	0	0
## 46	0	0	2
## 47	0	0	0
## 48	0	0	0
## 49	1	0	1

## 50	0	0	0	0
## Cespedesia.spathulata	Chamguava.schippiae	Chimarrhis.parviflora		
## 1	0	0	0	
## 2	0	0	0	
## 3	0	0	0	
## 4	0	0	0	
## 5	0	0	0	
## 6	0	0	0	
## 7	0	0	0	
## 8	0	0	0	
## 9	0	0	0	
## 10	0	0	0	
## 11	0	0	0	
## 12	0	0	0	
## 13	0	0	1	
## 14	0	0	0	
## 15	0	0	0	
## 16	1	0	0	
## 17	0	0	0	
## 18	0	2	0	
## 19	0	0	0	
## 20	0	0	0	
## 21	0	0	0	
## 22	0	0	0	
## 23	0	0	0	
## 24	0	1	0	
## 25	0	0	0	
## 26	0	0	0	
## 27	0	0	0	
## 28	0	0	0	
## 29	0	0	0	
## 30	0	0	0	
## 31	0	0	0	
## 32	0	0	0	
## 33	0	0	0	
## 34	0	0	0	
## 35	0	0	0	
## 36	0	0	0	
## 37	0	0	0	
## 38	0	0	0	
## 39	0	0	0	
## 40	0	0	0	
## 41	0	0	0	
## 42	0	0	0	
## 43	0	0	0	
## 44	0	0	0	
## 45	0	0	0	
## 46	0	0	0	
## 47	0	0	0	
## 48	0	0	0	
## 49	1	0	0	
## 50	0	0	0	
## Maclura.tinctoria	Chrysochlamys.eclipes	Chrysophyllum.argenteum		
## 1	0	0	4	

## 2	0	0	1
## 3	0	0	2
## 4	0	0	2
## 5	0	0	6
## 6	0	0	2
## 7	0	0	3
## 8	0	0	2
## 9	0	0	4
## 10	0	0	2
## 11	0	0	2
## 12	0	0	1
## 13	0	0	4
## 14	0	0	2
## 15	0	0	1
## 16	0	1	2
## 17	0	0	1
## 18	1	0	0
## 19	0	0	0
## 20	0	0	2
## 21	0	0	2
## 22	0	0	0
## 23	0	0	1
## 24	0	0	2
## 25	0	0	1
## 26	0	0	0
## 27	0	0	1
## 28	0	0	0
## 29	0	0	3
## 30	0	0	1
## 31	0	0	0
## 32	0	0	1
## 33	0	0	2
## 34	0	0	1
## 35	0	0	1
## 36	0	0	3
## 37	0	0	2
## 38	0	0	0
## 39	0	0	2
## 40	0	0	0
## 41	0	1	3
## 42	0	0	2
## 43	0	0	0
## 44	0	0	1
## 45	0	0	2
## 46	0	0	1
## 47	0	0	5
## 48	0	0	1
## 49	0	0	2
## 50	0	0	2
## Chrysophyllum.cainito	Coccoloba.coronata	Coccoloba.manzinellensis	
## 1	0	0	0
## 2	0	0	0
## 3	0	0	0
## 4	0	1	0

## 5	0	2	0
## 6	0	0	0
## 7	1	0	0
## 8	0	1	2
## 9	0	2	0
## 10	0	1	0
## 11	0	0	0
## 12	0	0	0
## 13	0	1	1
## 14	2	0	0
## 15	1	1	0
## 16	0	1	0
## 17	0	0	0
## 18	2	0	2
## 19	1	0	0
## 20	0	2	0
## 21	0	1	0
## 22	1	1	1
## 23	2	1	0
## 24	1	0	0
## 25	2	1	0
## 26	0	0	0
## 27	1	0	0
## 28	0	1	0
## 29	1	0	0
## 30	0	0	2
## 31	0	1	0
## 32	0	0	0
## 33	1	2	0
## 34	2	0	1
## 35	0	0	1
## 36	0	1	1
## 37	0	0	0
## 38	0	0	0
## 39	0	0	0
## 40	1	0	0
## 41	0	0	1
## 42	0	0	0
## 43	2	0	0
## 44	0	0	0
## 45	1	0	0
## 46	1	0	0
## 47	1	0	1
## 48	0	0	0
## 49	0	1	0
## 50	1	0	0
## Colubrina.glandulosa			
## Cordia.alliodora			
## Cordia.bicolor			
## Cordia.lasiocalyx			
## 1	0	2	8
## 2	0	3	6
## 3	0	3	6
## 4	0	7	11
## 5	0	1	7
## 6	0	1	6
## 7	0	2	6

## 8	0	0	10	3
## 9	0	0	7	0
## 10	0	2	13	4
## 11	0	3	10	5
## 12	0	0	2	3
## 13	0	2	0	4
## 14	0	1	11	7
## 15	0	1	21	3
## 16	0	1	11	10
## 17	0	0	7	3
## 18	0	2	2	3
## 19	0	5	8	4
## 20	0	0	17	4
## 21	0	0	5	11
## 22	1	0	4	5
## 23	0	0	2	10
## 24	0	0	3	4
## 25	0	0	3	4
## 26	0	1	1	8
## 27	0	0	3	9
## 28	0	0	4	4
## 29	0	2	3	5
## 30	0	2	5	0
## 31	0	2	0	6
## 32	0	0	3	7
## 33	0	0	3	11
## 34	0	2	0	5
## 35	0	0	3	4
## 36	0	0	9	10
## 37	0	6	2	13
## 38	0	2	3	8
## 39	0	0	1	8
## 40	0	0	2	3
## 41	0	1	6	12
## 42	0	0	9	12
## 43	0	1	2	12
## 44	0	0	3	20
## 45	0	0	1	8
## 46	0	6	7	17
## 47	0	1	3	13
## 48	0	0	3	14
## 49	0	0	2	7
## 50	0	1	2	11
## Coussarea.curvigemma	Croton.billbergianus	Cupania.cinerea	Cupania.latifolia	
## 1	0	2	0	0
## 2	0	2	0	0
## 3	0	0	0	0
## 4	1	11	0	1
## 5	0	6	0	0
## 6	2	0	0	0
## 7	1	0	0	0
## 8	0	4	0	0
## 9	1	2	0	0
## 10	1	0	0	0

## 11	0	1	0	0
## 12	3	2	0	0
## 13	4	12	0	0
## 14	0	11	0	0
## 15	0	1	0	0
## 16	1	3	0	2
## 17	4	0	0	0
## 18	6	4	0	0
## 19	3	1	1	0
## 20	0	0	0	1
## 21	0	1	0	0
## 22	11	0	0	0
## 23	2	2	0	0
## 24	1	0	0	0
## 25	0	1	0	0
## 26	0	1	0	0
## 27	2	0	0	1
## 28	2	0	0	0
## 29	0	1	0	0
## 30	2	2	0	0
## 31	0	0	0	0
## 32	0	0	0	0
## 33	0	0	0	0
## 34	0	0	0	1
## 35	1	1	0	0
## 36	0	0	0	1
## 37	0	2	0	1
## 38	0	2	0	0
## 39	0	0	0	0
## 40	0	1	0	0
## 41	0	6	0	3
## 42	0	3	0	0
## 43	0	0	0	0
## 44	0	0	0	0
## 45	0	1	0	0
## 46	5	0	0	1
## 47	1	3	0	0
## 48	1	6	0	0
## 49	0	2	0	0
## 50	0	1	0	0
## Cupania.rufescens	Cupania.seemannii	Dendropanax.arboreus		
## 1	0	2	0	
## 2	0	2	3	
## 3	0	1	6	
## 4	0	0	0	
## 5	0	3	5	
## 6	0	0	2	
## 7	0	1	1	
## 8	0	2	6	
## 9	0	2	1	
## 10	0	0	3	
## 11	0	2	2	
## 12	0	1	2	
## 13	1	2	5	

## 14	0	0	2
## 15	0	4	5
## 16	0	0	3
## 17	2	3	2
## 18	1	0	2
## 19	0	1	3
## 20	0	2	1
## 21	0	2	3
## 22	0	0	0
## 23	0	1	1
## 24	0	1	3
## 25	0	1	10
## 26	0	0	0
## 27	0	2	0
## 28	0	0	0
## 29	0	2	2
## 30	0	1	3
## 31	0	0	0
## 32	0	1	0
## 33	0	0	1
## 34	0	0	2
## 35	0	1	0
## 36	0	1	0
## 37	0	0	1
## 38	0	0	1
## 39	0	1	0
## 40	0	0	1
## 41	0	1	1
## 42	0	1	0
## 43	0	0	1
## 44	0	0	0
## 45	0	0	2
## 46	0	1	0
## 47	0	1	0
## 48	0	0	0
## 49	0	0	1
## 50	0	1	1
## Desmopsis.panamensis		Diospyros.artanthifolia	Dipteryx.oleifera
## 1	0	1	1
## 2	0	1	1
## 3	4	1	3
## 4	0	1	0
## 5	0	0	0
## 6	0	0	0
## 7	0	0	0
## 8	0	0	2
## 9	0	0	1
## 10	1	1	2
## 11	0	1	0
## 12	0	0	0
## 13	0	0	0
## 14	0	0	1
## 15	0	0	1
## 16	0	0	0

## 17	0	1	0
## 18	0	0	0
## 19	1	0	1
## 20	0	0	2
## 21	0	0	0
## 22	0	2	0
## 23	1	0	0
## 24	0	0	0
## 25	0	0	0
## 26	0	0	1
## 27	0	0	1
## 28	0	0	3
## 29	0	0	1
## 30	0	0	2
## 31	0	1	0
## 32	0	0	1
## 33	1	0	1
## 34	1	0	0
## 35	0	0	0
## 36	1	0	1
## 37	1	0	0
## 38	0	1	0
## 39	1	0	0
## 40	0	0	0
## 41	0	0	0
## 42	0	0	0
## 43	0	0	2
## 44	1	0	1
## 45	0	0	2
## 46	0	3	1
## 47	0	2	0
## 48	0	0	0
## 49	0	0	0
## 50	0	0	1
## Drypetes.standleyi	Elaeis.oleifera	Enterolobium.schomburgkii	
## 1	2	0	0
## 2	1	0	0
## 3	2	0	0
## 4	0	0	0
## 5	0	0	0
## 6	0	0	0
## 7	0	0	0
## 8	0	0	0
## 9	0	0	0
## 10	0	0	0
## 11	3	0	0
## 12	2	0	0
## 13	0	6	0
## 14	0	0	0
## 15	0	0	0
## 16	2	0	0
## 17	3	0	0
## 18	1	9	0
## 19	1	1	1

## 20	0	0	0
## 21	7	0	0
## 22	4	0	0
## 23	0	5	0
## 24	0	0	0
## 25	2	0	0
## 26	8	0	0
## 27	7	0	0
## 28	2	0	0
## 29	4	0	0
## 30	3	0	1
## 31	15	0	0
## 32	6	0	0
## 33	2	0	0
## 34	1	0	0
## 35	1	0	0
## 36	39	0	0
## 37	13	0	0
## 38	12	0	0
## 39	2	0	0
## 40	0	0	0
## 41	21	0	0
## 42	14	0	0
## 43	17	0	0
## 44	8	0	0
## 45	7	0	0
## 46	33	0	0
## 47	12	0	0
## 48	11	0	0
## 49	5	0	0
## 50	12	0	0
## Erythrina.costaricensis	Erythroxylum.macrophyllum	Eugenia.florida	
## 1	0	0	0
## 2	0	1	1
## 3	0	0	0
## 4	0	0	7
## 5	0	0	2
## 6	3	0	0
## 7	0	0	0
## 8	0	1	1
## 9	1	1	1
## 10	0	1	3
## 11	1	0	1
## 12	0	1	1
## 13	0	0	2
## 14	1	0	1
## 15	1	1	0
## 16	1	0	0
## 17	0	0	2
## 18	0	0	2
## 19	0	0	2
## 20	1	1	1
## 21	0	0	1
## 22	0	2	1

## 23	1	1	2
## 24	3	0	1
## 25	0	1	2
## 26	1	0	1
## 27	0	1	1
## 28	0	0	0
## 29	0	0	5
## 30	0	1	3
## 31	0	0	0
## 32	0	0	1
## 33	0	0	1
## 34	0	0	4
## 35	0	1	1
## 36	1	0	2
## 37	1	1	2
## 38	0	0	3
## 39	0	0	4
## 40	0	0	1
## 41	0	0	1
## 42	1	0	2
## 43	2	0	3
## 44	4	0	2
## 45	1	0	1
## 46	0	0	4
## 47	0	0	4
## 48	0	1	1
## 49	2	1	0
## 50	0	1	0
## Eugenia.galalonensis Eugenia.nesiotica Eugenia.oerstediana			
## 1	0	0	3
## 2	0	0	2
## 3	0	1	5
## 4	0	0	1
## 5	0	0	5
## 6	0	0	2
## 7	0	5	2
## 8	1	4	3
## 9	0	3	3
## 10	0	0	3
## 11	0	0	6
## 12	1	2	1
## 13	0	2	11
## 14	0	3	1
## 15	0	2	4
## 16	0	0	7
## 17	0	2	3
## 18	0	2	4
## 19	1	1	6
## 20	0	0	2
## 21	1	1	2
## 22	0	1	2
## 23	0	1	2
## 24	0	0	2
## 25	1	0	6

## 26	1	0	1	
## 27	0	2	3	
## 28	0	1	5	
## 29	1	0	1	
## 30	0	0	5	
## 31	0	0	3	
## 32	0	1	2	
## 33	0	1	5	
## 34	0	3	7	
## 35	0	0	6	
## 36	0	2	0	
## 37	0	0	4	
## 38	0	1	10	
## 39	0	2	4	
## 40	2	2	3	
## 41	0	0	7	
## 42	0	0	8	
## 43	0	3	4	
## 44	0	0	3	
## 45	0	1	2	
## 46	0	1	0	
## 47	1	1	2	
## 48	0	1	1	
## 49	0	2	1	
## 50	2	1	2	
## Faramea.occidentalis Ficus.colubrinae Ficus.costaricana Ficus.insipida				
## 1	14	0	0	0
## 2	36	1	0	0
## 3	39	0	0	0
## 4	39	0	0	0
## 5	22	0	0	0
## 6	16	0	0	0
## 7	38	0	0	0
## 8	41	0	0	0
## 9	33	0	0	0
## 10	42	0	0	0
## 11	17	0	0	0
## 12	38	0	0	0
## 13	39	0	0	1
## 14	31	0	0	0
## 15	31	0	0	0
## 16	27	0	0	0
## 17	42	0	0	0
## 18	35	0	1	0
## 19	42	0	0	0
## 20	21	0	1	0
## 21	17	0	0	0
## 22	58	0	0	0
## 23	26	0	1	1
## 24	24	0	0	0
## 25	35	0	0	0
## 26	31	0	0	0
## 27	51	0	0	0
## 28	58	0	0	0

## 29	54	0	0	0
## 30	61	0	0	0
## 31	30	0	0	0
## 32	60	0	0	0
## 33	53	0	0	0
## 34	49	0	0	0
## 35	37	0	0	0
## 36	32	0	1	0
## 37	65	0	0	0
## 38	80	0	1	0
## 39	43	0	2	0
## 40	41	0	0	1
## 41	22	0	0	0
## 42	25	0	0	0
## 43	15	0	0	0
## 44	15	0	0	0
## 45	10	0	0	0
## 46	22	0	0	0
## 47	27	0	0	0
## 48	15	0	0	0
## 49	11	0	0	0
## 50	7	0	0	0
## Ficus.maxima	Ficus.obtusifolia	Ficus.popenoei	Ficus.tonduzii	Ficus.trigonata
## 1	1	0	0	0
## 2	0	0	0	0
## 3	0	0	0	1
## 4	0	0	0	2
## 5	0	0	0	1
## 6	0	0	0	0
## 7	0	0	1	0
## 8	0	0	0	0
## 9	0	0	0	0
## 10	0	0	0	0
## 11	0	0	0	0
## 12	0	0	1	1
## 13	0	0	0	0
## 14	0	1	0	0
## 15	0	0	0	2
## 16	0	0	0	1
## 17	0	0	0	0
## 18	0	0	0	0
## 19	0	0	0	0
## 20	0	0	0	3
## 21	0	0	0	0
## 22	1	1	0	0
## 23	0	0	0	0
## 24	0	2	0	0
## 25	0	0	0	1
## 26	0	0	0	0
## 27	0	0	0	0
## 28	0	0	0	0
## 29	0	0	0	0
## 30	0	0	0	0
## 31	1	0	0	1

## 32	0	0	0	0	0
## 33	0	1	0	0	0
## 34	0	0	0	0	1
## 35	0	0	0	0	0
## 36	0	0	0	1	0
## 37	0	0	0	1	0
## 38	0	0	0	1	0
## 39	0	0	0	0	0
## 40	0	0	0	0	0
## 41	1	1	0	0	0
## 42	0	0	0	2	1
## 43	0	0	0	2	1
## 44	0	0	1	0	1
## 45	0	0	0	0	0
## 46	0	0	0	0	0
## 47	0	1	0	0	0
## 48	0	0	0	1	0
## 49	0	0	0	1	0
## 50	0	0	0	1	1
## Ficus.yoponensis					
Garcinia.intermedia					
Garcinia.madruno					
Genipa.americana					
## 1	1	0	4	0	
## 2	0	1	0	0	
## 3	0	1	0	1	
## 4	0	3	0	0	
## 5	0	2	1	0	
## 6	1	1	0	0	
## 7	1	2	0	1	
## 8	0	2	0	0	
## 9	0	1	0	1	
## 10	0	0	1	1	
## 11	0	1	0	0	
## 12	0	3	0	0	
## 13	0	3	0	1	
## 14	0	1	0	1	
## 15	0	0	1	0	
## 16	0	1	0	2	
## 17	0	0	0	1	
## 18	0	2	0	1	
## 19	0	3	0	0	
## 20	0	0	1	0	
## 21	0	1	0	0	
## 22	0	3	0	0	
## 23	0	2	1	0	
## 24	0	1	0	0	
## 25	1	3	1	0	
## 26	0	2	0	1	
## 27	0	2	1	0	
## 28	0	4	0	0	
## 29	0	1	0	1	
## 30	0	1	0	0	
## 31	0	0	0	0	
## 32	0	3	0	0	
## 33	0	0	0	0	
## 34	0	4	1	0	

## 35	1	2	0	0
## 36	0	0	0	1
## 37	0	1	0	0
## 38	0	2	0	0
## 39	0	6	0	1
## 40	0	6	0	0
## 41	0	0	0	2
## 42	0	0	0	0
## 43	0	2	0	0
## 44	0	4	0	0
## 45	0	0	0	1
## 46	0	8	0	1
## 47	1	3	0	1
## 48	0	0	0	0
## 49	0	0	0	1
## 50	0	4	0	3
## Guapira.myrtiflora	Guarea.fuzzy	Guarea.grandifolia	Guarea.guidonia	
## 1	3	1	0	2
## 2	1	1	0	6
## 3	0	0	0	2
## 4	1	1	0	5
## 5	1	3	0	3
## 6	7	0	0	4
## 7	3	0	0	4
## 8	1	2	1	0
## 9	1	0	0	1
## 10	1	3	0	5
## 11	1	1	1	5
## 12	3	1	0	3
## 13	2	0	0	4
## 14	0	0	0	3
## 15	1	2	2	0
## 16	2	2	0	7
## 17	1	0	0	2
## 18	0	0	0	2
## 19	3	0	0	2
## 20	1	1	1	5
## 21	3	3	0	7
## 22	3	0	1	4
## 23	1	2	0	6
## 24	7	0	0	8
## 25	2	1	0	6
## 26	2	1	0	6
## 27	4	1	0	12
## 28	2	2	0	8
## 29	2	3	1	3
## 30	2	2	0	2
## 31	2	0	0	9
## 32	0	2	0	11
## 33	4	1	1	27
## 34	2	5	0	16
## 35	1	0	0	3
## 36	2	2	0	10
## 37	1	2	1	24

## 38	5	2	0	12
## 39	3	1	1	9
## 40	4	2	0	6
## 41	1	0	0	18
## 42	1	1	0	8
## 43	1	1	0	16
## 44	0	3	0	8
## 45	2	7	0	11
## 46	2	2	0	4
## 47	2	0	0	10
## 48	4	1	0	13
## 49	1	1	0	20
## 50	0	2	0	14
##	Guatteria.dumetorum	Guazuma.ulmifolia	Guettarda.foliacea	Gustavia.superba
## 1	6	0	1	10
## 2	16	0	5	5
## 3	6	0	1	0
## 4	3	1	2	1
## 5	9	0	1	3
## 6	7	0	0	1
## 7	8	0	0	8
## 8	6	0	4	4
## 9	2	0	1	4
## 10	2	0	3	4
## 11	3	0	1	2
## 12	2	0	0	3
## 13	0	2	2	10
## 14	7	1	0	4
## 15	16	1	4	4
## 16	5	1	0	10
## 17	3	0	1	7
## 18	0	1	2	3
## 19	3	1	1	6
## 20	7	2	4	4
## 21	10	0	0	6
## 22	5	0	0	9
## 23	2	1	0	3
## 24	5	1	3	4
## 25	2	2	3	14
## 26	13	0	0	8
## 27	3	2	0	3
## 28	3	1	1	8
## 29	5	1	0	6
## 30	1	2	6	23
## 31	10	0	1	2
## 32	11	0	2	8
## 33	3	0	0	6
## 34	1	5	3	25
## 35	0	5	7	247
## 36	8	2	2	1
## 37	5	0	0	1
## 38	3	0	2	11
## 39	1	2	2	22
## 40	4	0	3	63

## 41	5	1	1	6
## 42	7	0	2	4
## 43	5	1	1	1
## 44	6	0	2	17
## 45	1	0	0	2
## 46	1	0	1	11
## 47	0	0	4	11
## 48	2	1	3	4
## 49	7	1	1	15
## 50	4	0	2	10
## Hampea.appendiculata				
## Hasseltia.floribunda				
## Heisteria.acuminata				
## 1	0	5	0	
## 2	0	9	0	
## 3	1	4	0	
## 4	0	11	0	
## 5	0	9	1	
## 6	0	2	1	
## 7	0	7	0	
## 8	0	6	0	
## 9	2	3	0	
## 10	1	4	0	
## 11	0	5	0	
## 12	1	0	0	
## 13	0	1	0	
## 14	0	4	1	
## 15	0	20	0	
## 16	0	7	0	
## 17	0	1	0	
## 18	0	2	0	
## 19	0	3	0	
## 20	0	6	0	
## 21	0	3	1	
## 22	0	5	0	
## 23	0	6	0	
## 24	1	5	0	
## 25	1	3	0	
## 26	0	7	1	
## 27	0	1	0	
## 28	0	3	0	
## 29	1	1	0	
## 30	0	10	0	
## 31	0	2	0	
## 32	0	7	0	
## 33	0	4	0	
## 34	0	1	0	
## 35	0	7	0	
## 36	1	1	1	
## 37	1	3	0	
## 38	0	2	0	
## 39	0	2	0	
## 40	1	3	0	
## 41	0	1	1	
## 42	1	4	0	
## 43	0	6	0	

## 44	0	6	0
## 45	1	1	0
## 46	0	0	0
## 47	0	1	0
## 48	0	2	0
## 49	0	7	0
## 50	0	16	0
## Heisteria.concinna			
Hirtella.americana			
Hirtella.triandra			
Hura.crepitans			
## 1	4	0	21
## 2	5	0	14
## 3	4	0	5
## 4	6	0	4
## 5	4	0	6
## 6	8	0	6
## 7	2	0	7
## 8	5	0	14
## 9	1	0	8
## 10	5	0	7
## 11	5	0	12
## 12	12	0	6
## 13	4	0	11
## 14	0	0	13
## 15	3	0	4
## 16	2	0	4
## 17	13	0	4
## 18	8	0	12
## 19	7	0	24
## 20	1	0	12
## 21	1	0	17
## 22	9	0	6
## 23	5	0	10
## 24	7	1	15
## 25	3	0	26
## 26	4	0	24
## 27	1	0	8
## 28	4	0	9
## 29	5	0	7
## 30	0	0	3
## 31	6	0	14
## 32	6	0	8
## 33	5	0	9
## 34	4	0	4
## 35	2	0	1
## 36	4	0	24
## 37	6	0	7
## 38	15	0	3
## 39	12	0	3
## 40	3	0	7
## 41	6	0	31
## 42	4	0	18
## 43	10	0	23
## 44	6	0	18
## 45	18	0	26
## 46	15	4	22

## 47	6	0	33	7
## 48	3	0	41	7
## 49	8	0	43	1
## 50	11	0	27	2
## Hieronyma.alchorneoides				
## 1	0	0	2	0
## 2	2	0	4	0
## 3	0	0	4	1
## 4	0	0	6	0
## 5	0	0	0	2
## 6	0	0	0	1
## 7	0	0	1	0
## 8	0	0	6	1
## 9	1	0	4	1
## 10	0	0	5	2
## 11	0	0	0	1
## 12	0	0	0	0
## 13	1	0	2	1
## 14	2	0	3	1
## 15	0	0	2	2
## 16	0	7	0	0
## 17	0	2	2	1
## 18	2	0	1	2
## 19	1	0	2	0
## 20	3	0	2	3
## 21	1	0	0	0
## 22	1	1	3	2
## 23	5	0	1	6
## 24	0	0	0	1
## 25	2	0	0	0
## 26	1	2	0	1
## 27	0	0	0	2
## 28	2	1	0	2
## 29	1	0	0	0
## 30	0	0	0	1
## 31	1	0	0	0
## 32	0	0	0	1
## 33	0	0	0	2
## 34	0	0	0	1
## 35	3	0	0	0
## 36	1	0	0	2
## 37	3	3	0	2
## 38	1	0	0	0
## 39	0	0	0	0
## 40	1	0	0	1
## 41	2	1	0	1
## 42	1	2	0	0
## 43	0	3	0	0
## 44	0	0	0	1
## 45	0	0	0	0
## 46	0	0	2	1
## 47	2	3	0	1
## 48	0	1	0	1
## 49	1	0	0	1

	## 50	0	0	0	0
## 1	0	0	0	0	0
## 2	0	0	0	0	0
## 3	0	2	1	0	0
## 4	0	4	3	0	0
## 5	1	0	1	0	0
## 6	0	0	0	0	0
## 7	0	0	2	0	0
## 8	0	4	2	0	0
## 9	0	1	2	0	0
## 10	0	1	3	0	0
## 11	0	2	0	0	0
## 12	1	1	0	0	0
## 13	1	0	0	0	0
## 14	0	1	0	0	0
## 15	0	8	5	0	0
## 16	0	6	0	0	0
## 17	0	0	1	0	0
## 18	0	1	1	0	0
## 19	1	0	0	0	0
## 20	0	9	2	0	0
## 21	1	1	1	1	0
## 22	0	2	0	0	0
## 23	0	0	0	0	0
## 24	0	2	1	0	0
## 25	0	1	0	0	0
## 26	0	2	2	0	0
## 27	0	1	2	0	0
## 28	0	2	1	0	0
## 29	0	1	0	1	0
## 30	1	1	1	0	0
## 31	0	1	0	0	0
## 32	0	1	2	0	0
## 33	0	0	0	0	0
## 34	0	0	2	0	0
## 35	0	1	0	0	0
## 36	0	3	0	0	0
## 37	0	2	0	0	0
## 38	0	3	1	0	0
## 39	0	4	1	0	0
## 40	0	7	1	0	3
## 41	0	3	2	0	0
## 42	0	7	3	0	0
## 43	0	0	6	0	2
## 44	0	1	2	0	5
## 45	0	3	2	0	3
## 46	3	1	2	0	0
## 47	1	1	3	0	3
## 48	0	4	3	0	0
## 49	0	3	2	0	1
## 50	0	0	4	0	3
## 1	Inga.punctata	Inga.ruiziana	Inga.sapindoides	Inga.spectabilis	
## 1	3	0	2	0	

## 2	0	0	0	2
## 3	0	0	3	0
## 4	0	0	2	1
## 5	0	0	5	0
## 6	0	0	0	0
## 7	0	0	0	0
## 8	0	0	1	0
## 9	0	0	1	0
## 10	0	0	0	0
## 11	0	0	0	1
## 12	0	0	2	0
## 13	0	0	0	0
## 14	0	0	4	2
## 15	0	0	1	1
## 16	0	0	0	0
## 17	0	0	1	1
## 18	0	3	1	0
## 19	0	0	3	1
## 20	1	0	1	1
## 21	1	1	1	0
## 22	0	0	2	0
## 23	0	0	0	0
## 24	0	0	4	0
## 25	0	0	2	0
## 26	0	0	0	0
## 27	1	0	1	0
## 28	0	0	4	0
## 29	0	0	0	0
## 30	0	0	2	1
## 31	0	0	2	0
## 32	0	0	2	0
## 33	0	0	1	0
## 34	1	0	3	0
## 35	1	0	2	0
## 36	0	0	2	0
## 37	0	0	3	0
## 38	0	0	1	0
## 39	0	0	0	0
## 40	0	0	1	0
## 41	1	0	2	1
## 42	0	0	3	1
## 43	0	0	1	0
## 44	0	0	1	1
## 45	0	0	0	0
## 46	0	0	1	0
## 47	0	0	1	0
## 48	0	0	3	0
## 49	0	0	2	0
## 50	1	1	2	0
## Inga.umbellifera				
## Jacaranda.copaia				
## Lacistema.aggregatum				
## Lacmellea.panamensis				
## 1	0	6	1	1
## 2	0	10	0	0
## 3	0	9	0	0
## 4	1	2	1	2

## 5	0	3	1	2
## 6	0	7	2	1
## 7	0	4	1	3
## 8	2	8	0	2
## 9	2	5	0	0
## 10	1	12	2	0
## 11	0	7	0	0
## 12	0	2	0	1
## 13	0	3	0	1
## 14	0	12	0	2
## 15	1	23	1	1
## 16	0	6	1	0
## 17	0	4	2	1
## 18	0	3	0	3
## 19	1	7	1	4
## 20	0	10	1	1
## 21	0	8	0	1
## 22	0	6	1	0
## 23	0	4	0	2
## 24	0	2	0	0
## 25	0	5	2	1
## 26	0	0	1	0
## 27	0	3	1	1
## 28	0	3	1	0
## 29	0	3	1	1
## 30	0	3	0	2
## 31	1	0	0	0
## 32	0	3	1	0
## 33	1	6	2	1
## 34	0	2	0	1
## 35	1	3	1	1
## 36	1	3	1	1
## 37	0	2	0	0
## 38	0	1	0	3
## 39	0	1	2	1
## 40	0	1	0	1
## 41	0	3	0	1
## 42	0	3	3	1
## 43	0	2	0	1
## 44	1	0	0	0
## 45	0	1	1	0
## 46	0	7	0	2
## 47	1	13	1	2
## 48	0	1	0	2
## 49	0	3	0	0
## 50	0	1	0	0
## Laetia.procera	Laetia.thamnia	Lafoensia.punicifolia	Licania.hypoleuca	
## 1	0	0	0	0
## 2	1	1	0	0
## 3	1	1	0	0
## 4	0	0	0	0
## 5	1	0	0	1
## 6	0	0	0	0
## 7	0	0	0	0

## 8	1	2	0	1
## 9	0	1	0	0
## 10	0	1	0	1
## 11	1	1	0	0
## 12	1	0	0	0
## 13	0	3	0	1
## 14	1	3	1	0
## 15	0	2	0	1
## 16	0	0	0	0
## 17	1	1	0	0
## 18	2	0	0	0
## 19	1	3	4	2
## 20	0	2	0	1
## 21	1	0	0	0
## 22	0	0	0	1
## 23	0	1	0	0
## 24	0	2	0	0
## 25	0	1	0	1
## 26	0	0	0	0
## 27	0	1	0	0
## 28	0	0	0	0
## 29	0	0	0	1
## 30	0	0	0	0
## 31	0	0	0	0
## 32	0	0	0	0
## 33	0	0	0	0
## 34	0	0	0	0
## 35	0	0	0	1
## 36	0	1	0	0
## 37	0	0	0	0
## 38	0	0	0	0
## 39	0	0	0	0
## 40	0	0	0	0
## 41	0	0	0	1
## 42	0	0	0	0
## 43	0	0	0	0
## 44	0	0	0	0
## 45	0	0	0	0
## 46	0	0	0	0
## 47	0	0	0	0
## 48	0	0	0	0
## 49	0	0	0	1
## 50	0	0	0	0
## Licania.platypus	Lindackeria.laurina	Lonchocarpus.heptaphyllus		
## 1	0	0	7	
## 2	0	0	7	
## 3	0	0	3	
## 4	0	0	9	
## 5	0	0	2	
## 6	0	0	1	
## 7	1	1	4	
## 8	0	0	2	
## 9	0	2	2	
## 10	0	2	4	

## 11	1	0	2
## 12	0	1	3
## 13	0	3	4
## 14	0	4	3
## 15	0	0	2
## 16	0	0	2
## 17	0	2	5
## 18	0	5	3
## 19	0	3	1
## 20	0	2	1
## 21	1	0	2
## 22	0	2	1
## 23	1	2	4
## 24	0	6	2
## 25	0	2	2
## 26	0	1	2
## 27	0	2	0
## 28	0	1	0
## 29	0	2	3
## 30	0	1	7
## 31	0	0	3
## 32	0	2	1
## 33	0	0	1
## 34	0	0	1
## 35	0	2	2
## 36	0	0	4
## 37	0	0	2
## 38	0	0	0
## 39	0	1	1
## 40	0	0	3
## 41	1	2	1
## 42	0	0	1
## 43	0	1	2
## 44	0	0	0
## 45	0	0	1
## 46	0	7	2
## 47	1	3	3
## 48	2	0	1
## 49	2	1	0
## 50	0	1	2
## Luehea.seemannii Macrocnemum.roseum Maquira.guianensis.costaricensis			
## 1	1	0	4
## 2	0	0	3
## 3	0	0	7
## 4	0	0	7
## 5	1	0	10
## 6	1	0	4
## 7	2	0	3
## 8	0	0	4
## 9	1	0	7
## 10	0	0	3
## 11	4	0	6
## 12	1	0	3
## 13	4	0	2

## 14	1	0	0	
## 15	0	0	4	
## 16	4	0	4	
## 17	1	0	2	
## 18	5	0	0	
## 19	4	0	1	
## 20	0	0	2	
## 21	4	0	5	
## 22	2	0	2	
## 23	6	0	2	
## 24	0	0	5	
## 25	2	0	4	
## 26	1	1	7	
## 27	3	1	3	
## 28	3	0	2	
## 29	1	0	2	
## 30	5	0	2	
## 31	2	0	4	
## 32	3	3	3	
## 33	4	0	3	
## 34	3	2	3	
## 35	6	6	1	
## 36	2	0	5	
## 37	2	2	0	
## 38	2	0	3	
## 39	2	0	1	
## 40	1	4	0	
## 41	2	1	2	
## 42	2	0	4	
## 43	1	1	4	
## 44	1	0	5	
## 45	0	0	7	
## 46	0	0	0	
## 47	1	2	1	
## 48	1	1	4	
## 49	1	0	5	
## 50	0	1	2	
## Margaritaria.nobilis	0	1	2	0
## Marila.laxiflora	0	0	0	0
## Maytenus.schippiae	0	0	0	0
## Miconia.affinis	0	0	0	0
## 1	0	1	2	0
## 2	0	0	0	0
## 3	0	0	0	0
## 4	0	0	1	1
## 5	1	0	0	0
## 6	0	0	1	0
## 7	0	0	2	0
## 8	0	0	0	1
## 9	0	0	0	0
## 10	0	0	1	1
## 11	0	0	1	0
## 12	0	0	0	0
## 13	0	0	0	0
## 14	0	0	0	1
## 15	0	0	0	0
## 16	0	0	0	0

## 17	0	0	0	1
## 18	0	0	1	0
## 19	0	0	1	0
## 20	0	0	1	1
## 21	0	0	1	0
## 22	0	0	0	0
## 23	0	0	0	0
## 24	0	0	0	0
## 25	0	0	0	0
## 26	0	0	1	0
## 27	0	0	0	0
## 28	0	0	1	0
## 29	0	0	0	0
## 30	0	0	0	0
## 31	0	1	0	0
## 32	0	0	1	0
## 33	0	0	0	0
## 34	0	0	0	1
## 35	0	0	0	0
## 36	0	0	0	0
## 37	0	0	0	0
## 38	0	0	0	0
## 39	0	0	0	1
## 40	0	0	0	0
## 41	0	0	2	0
## 42	0	0	0	0
## 43	0	0	1	0
## 44	0	0	1	0
## 45	0	0	0	0
## 46	0	0	0	0
## 47	0	0	0	0
## 48	1	0	0	0
## 49	0	0	1	0
## 50	0	8	1	0
## Miconia.argentea	Miconia.elata	Miconia.hondurensis	Mosannona.garwoodii	
## 1	2	0	0	1
## 2	0	0	0	0
## 3	1	0	0	0
## 4	0	0	0	0
## 5	1	0	0	1
## 6	0	0	0	1
## 7	1	0	0	1
## 8	4	0	0	0
## 9	0	0	0	0
## 10	0	0	0	1
## 11	0	0	0	0
## 12	0	0	0	0
## 13	5	0	0	0
## 14	3	0	1	0
## 15	0	0	1	0
## 16	0	0	0	0
## 17	3	0	0	2
## 18	4	0	0	1
## 19	0	1	2	0

## 20	10	0	1	1
## 21	0	0	0	0
## 22	0	0	2	1
## 23	0	0	0	0
## 24	6	0	0	0
## 25	0	0	0	0
## 26	0	0	0	0
## 27	2	0	0	0
## 28	0	0	0	0
## 29	2	0	0	0
## 30	8	0	0	0
## 31	0	0	0	1
## 32	1	0	0	0
## 33	0	0	0	0
## 34	3	0	0	0
## 35	3	0	0	0
## 36	0	0	0	0
## 37	2	0	0	0
## 38	1	0	0	0
## 39	1	0	0	0
## 40	0	0	0	0
## 41	1	0	0	0
## 42	0	0	0	0
## 43	0	0	0	0
## 44	0	0	0	1
## 45	0	0	0	1
## 46	3	0	0	1
## 47	3	0	0	1
## 48	0	0	0	0
## 49	0	0	0	0
## 50	0	0	0	0
## Myrcia.gatunensis				
## 1	1	0	0	
## 2	0	0	1	
## 3	0	0	2	
## 4	0	0	2	
## 5	0	0	2	
## 6	0	2	0	
## 7	0	0	1	
## 8	0	0	2	
## 9	1	0	3	
## 10	0	0	5	
## 11	0	0	3	
## 12	0	0	0	
## 13	0	0	0	
## 14	1	0	1	
## 15	0	0	0	
## 16	0	0	0	
## 17	0	0	1	
## 18	0	0	0	
## 19	1	0	0	
## 20	0	0	2	
## 21	0	0	1	
## 22	0	0	0	

## 23	0	0	0	
## 24	0	1	0	
## 25	0	0	0	
## 26	0	0	0	
## 27	0	0	0	
## 28	0	0	1	
## 29	0	0	0	
## 30	0	0	0	
## 31	0	1	0	
## 32	0	0	0	
## 33	0	0	1	
## 34	0	0	0	
## 35	0	0	0	
## 36	0	0	0	
## 37	0	0	0	
## 38	0	0	0	
## 39	0	0	0	
## 40	0	0	0	
## 41	0	0	1	
## 42	0	0	3	
## 43	0	0	1	
## 44	0	0	0	
## 45	1	0	0	
## 46	0	3	0	
## 47	0	0	0	
## 48	0	0	0	
## 49	0	0	0	
## 50	0	0	0	
## Nectandra.lineata Nectandra.purpurea Ochroma.pyramidalis Ocotea.cernua				
## 1	0	1	1	0
## 2	0	0	0	0
## 3	0	0	0	1
## 4	0	0	0	1
## 5	0	0	0	0
## 6	0	1	0	0
## 7	0	0	0	1
## 8	0	0	3	0
## 9	0	0	0	1
## 10	0	0	0	0
## 11	0	0	0	0
## 12	1	0	0	2
## 13	0	0	0	5
## 14	0	0	0	1
## 15	0	0	1	2
## 16	1	0	0	0
## 17	0	0	0	0
## 18	1	0	0	1
## 19	0	0	0	2
## 20	1	0	0	1
## 21	1	0	0	0
## 22	0	0	0	0
## 23	0	0	0	1
## 24	1	0	0	1
## 25	0	0	0	1

## 26	0	0	0	0
## 27	0	0	0	0
## 28	0	0	0	0
## 29	0	0	0	0
## 30	0	0	0	1
## 31	0	0	0	0
## 32	0	0	0	0
## 33	0	0	0	0
## 34	0	0	0	2
## 35	0	0	0	1
## 36	1	0	0	0
## 37	0	0	0	0
## 38	0	1	0	0
## 39	2	0	0	1
## 40	0	0	0	0
## 41	0	0	0	3
## 42	0	0	0	0
## 43	0	0	0	0
## 44	0	0	0	0
## 45	0	0	0	0
## 46	0	1	0	0
## 47	0	0	0	0
## 48	0	0	0	0
## 49	0	0	0	0
## 50	1	0	0	0
## Ocotea.oblonga	Ocotea.puberula	Ocotea.whitei	Oenocarpus.mapora	
## 1	0	0	1	22
## 2	0	0	0	21
## 3	1	0	2	14
## 4	2	2	3	23
## 5	0	0	16	17
## 6	0	1	3	19
## 7	0	0	0	20
## 8	0	2	1	20
## 9	0	0	1	18
## 10	1	2	3	20
## 11	3	1	3	17
## 12	0	0	0	19
## 13	0	3	0	17
## 14	1	0	1	22
## 15	1	3	1	11
## 16	0	0	2	15
## 17	0	0	0	31
## 18	0	0	0	24
## 19	0	1	1	24
## 20	0	2	5	19
## 21	2	0	12	11
## 22	1	0	0	24
## 23	0	0	0	22
## 24	0	1	2	24
## 25	1	1	1	14
## 26	0	0	15	6
## 27	3	0	1	11
## 28	1	0	0	10

## 29	0	1	0	16
## 30	1	0	0	12
## 31	0	0	29	7
## 32	2	0	4	5
## 33	0	0	2	10
## 34	0	0	0	9
## 35	1	0	0	4
## 36	2	0	11	24
## 37	0	0	8	15
## 38	2	0	0	11
## 39	1	0	0	4
## 40	1	0	0	2
## 41	2	0	2	11
## 42	1	0	7	19
## 43	1	0	7	11
## 44	1	0	5	10
## 45	1	1	13	8
## 46	0	0	0	36
## 47	1	0	1	28
## 48	1	1	4	15
## 49	1	0	8	4
## 50	0	0	9	12
##	Ormosia.amazonica	Ormosia.coccinea	Ormosia.macrocalyx	Pachira.quinata
## 1	0	0	0	0
## 2	0	0	0	0
## 3	0	0	0	0
## 4	0	0	0	0
## 5	0	0	0	0
## 6	0	0	0	0
## 7	0	0	0	1
## 8	0	0	0	0
## 9	0	0	0	0
## 10	0	0	0	0
## 11	0	0	0	0
## 12	0	0	1	0
## 13	0	0	0	0
## 14	0	0	0	0
## 15	0	0	0	0
## 16	0	0	0	0
## 17	0	0	0	0
## 18	0	0	0	0
## 19	0	1	0	0
## 20	0	0	0	0
## 21	0	0	0	0
## 22	0	0	0	0
## 23	0	0	0	0
## 24	0	0	0	0
## 25	0	0	0	0
## 26	0	0	0	0
## 27	0	0	1	0
## 28	0	0	0	0
## 29	1	0	0	0
## 30	0	0	0	0
## 31	0	0	0	0

## 32	0	0	0	0
## 33	0	0	1	0
## 34	0	1	0	0
## 35	0	1	0	0
## 36	0	0	0	0
## 37	0	0	0	0
## 38	0	0	0	0
## 39	0	1	0	0
## 40	0	0	0	0
## 41	0	0	0	0
## 42	0	0	0	0
## 43	0	0	0	0
## 44	0	1	0	0
## 45	0	0	0	0
## 46	0	0	0	0
## 47	0	0	0	0
## 48	0	0	0	0
## 49	0	0	0	0
## 50	0	0	0	0
## Pachira.sessilis Perebea.xanthochyma Cinnamomum.triplinerve				
## 1	0	0	0	0
## 2	0	1	0	0
## 3	0	0	1	0
## 4	0	0	0	0
## 5	0	1	1	0
## 6	0	0	0	0
## 7	0	0	2	0
## 8	0	0	0	0
## 9	0	8	1	0
## 10	0	6	0	0
## 11	0	0	0	0
## 12	0	0	1	0
## 13	0	0	0	0
## 14	0	2	1	0
## 15	0	1	0	0
## 16	0	0	1	0
## 17	0	0	0	0
## 18	0	0	0	0
## 19	0	0	0	0
## 20	0	1	0	0
## 21	0	0	0	0
## 22	0	0	1	0
## 23	0	0	1	0
## 24	0	0	2	0
## 25	0	0	1	0
## 26	0	0	0	0
## 27	0	0	0	0
## 28	0	0	0	0
## 29	0	0	0	0
## 30	9	0	0	0
## 31	0	0	0	0
## 32	0	0	0	0
## 33	0	0	0	0
## 34	0	0	0	0

## 35	0	0	1
## 36	0	1	1
## 37	0	0	0
## 38	0	0	0
## 39	0	0	0
## 40	0	0	0
## 41	0	0	1
## 42	0	0	0
## 43	0	0	0
## 44	0	0	0
## 45	0	0	0
## 46	0	0	0
## 47	0	0	0
## 48	0	0	0
## 49	0	0	0
## 50	0	0	0
## Picramnia.latifolia Piper reticulatum Platymiscium.pinnatum			
## 1	0	0	3
## 2	0	0	3
## 3	1	0	5
## 4	0	0	1
## 5	0	2	1
## 6	0	0	1
## 7	0	0	6
## 8	1	0	0
## 9	0	0	2
## 10	0	0	0
## 11	1	1	0
## 12	0	0	0
## 13	1	0	2
## 14	1	0	2
## 15	0	0	1
## 16	0	0	1
## 17	0	1	2
## 18	0	0	1
## 19	0	0	2
## 20	1	0	0
## 21	0	0	0
## 22	1	0	0
## 23	0	0	1
## 24	0	0	2
## 25	1	0	3
## 26	6	1	1
## 27	3	1	0
## 28	0	0	4
## 29	0	0	0
## 30	0	0	0
## 31	2	0	0
## 32	2	0	2
## 33	0	0	0
## 34	2	1	2
## 35	1	0	1
## 36	2	1	0
## 37	2	0	2

## 38	1	0	1	
## 39	0	0	0	
## 40	0	0	0	
## 41	5	0	0	
## 42	1	0	2	
## 43	0	0	1	
## 44	1	0	1	
## 45	1	0	2	
## 46	2	0	2	
## 47	0	0	1	
## 48	4	1	0	
## 49	1	0	0	
## 50	1	0	0	
## Platypodium.elegans				
## Posoqueria.latifolia				
## Poulsenia.armata				
## Pourouma.bicolor				
## 1	2	0	24	5
## 2	1	1	16	3
## 3	3	0	28	0
## 4	0	0	15	0
## 5	0	0	25	1
## 6	2	0	15	0
## 7	3	0	8	0
## 8	3	0	13	1
## 9	1	0	5	1
## 10	0	0	24	0
## 11	1	0	22	1
## 12	2	0	8	0
## 13	2	0	0	0
## 14	1	0	13	0
## 15	2	0	16	0
## 16	1	0	32	0
## 17	0	1	2	0
## 18	1	0	0	0
## 19	1	0	4	0
## 20	1	0	15	0
## 21	0	0	44	0
## 22	0	0	5	0
## 23	1	3	1	0
## 24	0	0	6	0
## 25	1	1	4	0
## 26	2	0	22	0
## 27	1	1	9	0
## 28	2	0	1	0
## 29	0	0	2	0
## 30	1	0	8	0
## 31	0	0	24	0
## 32	1	0	2	0
## 33	0	0	4	0
## 34	0	0	1	0
## 35	1	0	0	0
## 36	1	0	14	0
## 37	0	0	6	0
## 38	0	0	1	0
## 39	0	0	1	0
## 40	2	0	2	0

## 41	0	1	11	0
## 42	0	0	26	0
## 43	0	0	55	0
## 44	1	0	55	0
## 45	0	1	57	1
## 46	0	3	0	0
## 47	2	0	4	0
## 48	0	3	23	0
## 49	0	0	39	0
## 50	0	0	43	0
## Pouteria.fossicola	Pouteria.reticulata	Pouteria.stipitata	Prioria.copaifera	
## 1	0	5	0	13
## 2	0	7	0	12
## 3	0	3	1	12
## 4	0	6	0	5
## 5	0	5	0	3
## 6	0	4	0	26
## 7	0	4	0	18
## 8	0	4	0	5
## 9	0	3	0	1
## 10	0	0	1	2
## 11	0	5	1	26
## 12	0	4	0	21
## 13	0	5	0	7
## 14	0	5	1	3
## 15	0	4	0	0
## 16	0	3	1	18
## 17	0	5	6	25
## 18	0	17	1	5
## 19	0	10	5	5
## 20	0	1	2	0
## 21	1	1	0	14
## 22	0	2	1	17
## 23	0	6	0	1
## 24	1	4	0	4
## 25	0	9	0	1
## 26	0	3	0	11
## 27	0	2	1	11
## 28	0	2	0	4
## 29	0	2	1	14
## 30	0	3	1	9
## 31	0	3	0	3
## 32	0	4	0	1
## 33	0	3	1	5
## 34	0	3	0	14
## 35	0	4	0	7
## 36	0	3	1	0
## 37	0	2	0	1
## 38	0	4	0	5
## 39	0	4	0	6
## 40	0	5	0	1
## 41	0	3	0	0
## 42	0	4	0	1
## 43	0	4	0	1

## 44	0	2	0	1
## 45	0	2	1	0
## 46	0	4	3	3
## 47	0	7	1	1
## 48	0	5	0	2
## 49	0	2	1	0
## 50	0	1	0	0
## Protium.costaricense		Protium.panamense	Protium.tenuifolium	
## 1	5	2	11	
## 2	4	0	8	
## 3	1	2	3	
## 4	3	3	9	
## 5	7	2	3	
## 6	1	1	2	
## 7	0	0	6	
## 8	0	3	7	
## 9	4	0	4	
## 10	4	1	6	
## 11	2	0	4	
## 12	0	0	5	
## 13	0	0	4	
## 14	3	4	5	
## 15	4	0	4	
## 16	1	0	2	
## 17	1	1	2	
## 18	0	0	1	
## 19	0	2	5	
## 20	7	0	9	
## 21	2	1	7	
## 22	0	2	4	
## 23	0	2	3	
## 24	0	1	7	
## 25	6	4	7	
## 26	4	0	6	
## 27	2	1	4	
## 28	3	1	2	
## 29	1	1	6	
## 30	4	2	9	
## 31	3	0	9	
## 32	2	1	3	
## 33	1	0	8	
## 34	5	3	8	
## 35	1	0	1	
## 36	3	0	3	
## 37	4	0	8	
## 38	1	0	10	
## 39	3	1	10	
## 40	2	0	7	
## 41	0	1	6	
## 42	3	2	12	
## 43	1	0	6	
## 44	3	2	8	
## 45	1	3	11	
## 46	0	0	18	

## 47	1	1	27
## 48	1	0	26
## 49	2	0	22
## 50	5	0	23
## Pseudobombax.septenatum Psidium.friedrichsthalianum Psychotria.grandis			
## 1	0	0	0
## 2	0	0	0
## 3	0	0	0
## 4	0	0	0
## 5	0	0	0
## 6	0	0	0
## 7	0	0	0
## 8	0	0	0
## 9	0	0	0
## 10	0	0	0
## 11	0	0	0
## 12	0	0	0
## 13	0	1	0
## 14	0	0	0
## 15	0	0	0
## 16	0	0	0
## 17	0	0	0
## 18	0	0	0
## 19	0	0	0
## 20	0	0	0
## 21	1	0	0
## 22	0	0	0
## 23	1	0	2
## 24	1	0	0
## 25	0	0	0
## 26	0	1	0
## 27	1	0	0
## 28	1	0	0
## 29	0	0	0
## 30	1	0	0
## 31	0	0	0
## 32	0	0	0
## 33	0	1	0
## 34	0	0	0
## 35	2	0	0
## 36	0	0	0
## 37	0	0	0
## 38	0	0	0
## 39	0	0	0
## 40	0	0	0
## 41	0	0	0
## 42	0	0	0
## 43	0	1	0
## 44	0	0	0
## 45	0	0	0
## 46	0	0	0
## 47	0	0	0
## 48	0	0	0
## 49	0	0	0

## 50	0	0	0
## Pterocarpus.rohrii	Quararibea.asterolepis	Quassia.amara	Randia.armata
## 1	1	11	0
## 2	0	12	0
## 3	0	15	0
## 4	2	14	0
## 5	1	9	0
## 6	1	3	0
## 7	2	21	0
## 8	2	7	0
## 9	1	4	0
## 10	0	18	0
## 11	2	25	0
## 12	2	11	0
## 13	2	1	0
## 14	2	10	0
## 15	2	8	0
## 16	1	25	0
## 17	1	9	0
## 18	3	0	0
## 19	1	2	0
## 20	3	15	0
## 21	0	12	0
## 22	0	11	0
## 23	4	6	0
## 24	0	12	0
## 25	1	22	0
## 26	2	20	0
## 27	1	20	0
## 28	2	24	0
## 29	1	14	0
## 30	3	13	0
## 31	1	25	0
## 32	6	21	0
## 33	1	22	0
## 34	1	17	0
## 35	2	11	0
## 36	0	11	0
## 37	3	14	1
## 38	2	20	0
## 39	2	20	0
## 40	0	22	0
## 41	2	11	0
## 42	3	19	0
## 43	1	12	0
## 44	1	23	0
## 45	1	32	0
## 46	3	3	3
## 47	1	7	0
## 48	2	21	0
## 49	3	25	0
## 50	2	14	0
## Sapium.broadleaf	Sapium.glandulosum	Schizolobium.parahyba	Senna.dariensis
## 1	0	0	0

## 2	0	0	0	0
## 3	0	1	0	0
## 4	0	0	0	0
## 5	0	2	0	0
## 6	0	0	1	0
## 7	0	0	0	0
## 8	0	0	0	0
## 9	0	0	0	0
## 10	0	0	0	0
## 11	0	0	0	0
## 12	0	0	0	0
## 13	0	0	0	0
## 14	0	0	0	0
## 15	0	0	0	0
## 16	0	0	0	0
## 17	0	0	0	0
## 18	0	1	0	0
## 19	0	1	0	0
## 20	0	0	0	0
## 21	0	0	0	0
## 22	0	0	1	0
## 23	0	0	0	0
## 24	0	1	0	0
## 25	0	1	0	0
## 26	0	1	0	0
## 27	0	2	0	0
## 28	0	0	0	0
## 29	0	0	0	0
## 30	0	0	0	0
## 31	0	0	0	0
## 32	0	0	0	0
## 33	0	1	0	0
## 34	0	1	0	0
## 35	0	1	0	0
## 36	0	0	0	0
## 37	0	0	0	0
## 38	0	0	0	0
## 39	0	0	0	0
## 40	0	0	0	0
## 41	0	0	0	1
## 42	0	0	0	0
## 43	1	0	0	0
## 44	1	0	0	0
## 45	1	0	0	0
## 46	0	1	0	0
## 47	0	0	0	0
## 48	0	1	0	0
## 49	0	1	0	0
## 50	0	1	0	0
## Simarouba.amara Siparuna.guianensis Siparuna.pauciflora Sloanea.terniflora				
## 1	14	3	0	1
## 2	6	2	0	0
## 3	16	1	1	2
## 4	8	2	0	2

## 5	7	0	3	3
## 6	7	1	0	2
## 7	13	1	0	1
## 8	14	0	0	2
## 9	12	0	1	1
## 10	17	0	1	2
## 11	7	1	0	1
## 12	9	0	0	1
## 13	2	0	0	1
## 14	4	0	0	1
## 15	6	0	2	0
## 16	8	1	0	0
## 17	2	0	0	1
## 18	2	1	0	0
## 19	6	0	1	1
## 20	8	0	0	0
## 21	4	0	0	1
## 22	5	0	0	0
## 23	1	0	0	0
## 24	3	0	1	0
## 25	10	0	0	0
## 26	5	0	0	1
## 27	16	0	0	0
## 28	7	0	0	1
## 29	3	0	0	1
## 30	8	0	1	1
## 31	5	0	1	2
## 32	5	0	0	2
## 33	2	0	0	2
## 34	2	0	0	1
## 35	0	0	0	0
## 36	9	0	0	3
## 37	6	0	1	3
## 38	3	0	0	4
## 39	1	0	0	1
## 40	4	0	1	1
## 41	1	0	0	1
## 42	4	0	0	7
## 43	0	0	1	2
## 44	0	0	0	1
## 45	3	0	0	5
## 46	3	0	0	2
## 47	4	0	0	4
## 48	0	0	0	3
## 49	4	0	0	2
## 50	3	0	1	5
## Socratea.exorrhiza Solanum.hayesii Sorocea.affinis Spachea.membranacea				
## 1	15	0	1	0
## 2	22	0	1	0
## 3	31	0	1	0
## 4	9	0	1	0
## 5	55	1	0	0
## 6	44	0	1	0
## 7	23	0	0	0

## 8	22	0	0	0
## 9	17	0	0	0
## 10	12	2	1	0
## 11	5	0	1	0
## 12	8	0	0	0
## 13	0	0	0	0
## 14	6	0	0	0
## 15	7	1	1	0
## 16	1	2	0	0
## 17	0	0	0	0
## 18	0	0	0	0
## 19	3	0	1	0
## 20	6	0	0	1
## 21	5	1	0	0
## 22	0	0	0	0
## 23	1	1	1	0
## 24	5	0	1	0
## 25	5	0	0	7
## 26	3	0	0	0
## 27	0	1	2	0
## 28	0	0	1	0
## 29	0	0	1	0
## 30	0	0	0	0
## 31	8	0	2	0
## 32	0	1	1	0
## 33	0	0	0	0
## 34	0	0	0	0
## 35	0	1	0	0
## 36	1	1	0	0
## 37	0	0	0	0
## 38	2	0	0	0
## 39	0	0	0	0
## 40	0	0	0	0
## 41	0	0	0	0
## 42	3	0	0	0
## 43	7	0	1	0
## 44	5	0	0	0
## 45	9	0	1	0
## 46	0	0	0	0
## 47	0	0	3	0
## 48	0	0	2	0
## 49	2	0	3	0
## 50	4	0	0	0
## Spondias.mombin	Spondias.radlkoferi	Sterculia.apetala		
## 1	1	2	1	
## 2	1	0	2	
## 3	0	3	0	
## 4	1	3	0	
## 5	1	5	0	
## 6	0	0	1	
## 7	0	5	1	
## 8	1	0	0	
## 9	0	1	0	
## 10	2	1	0	

## 11	0	1	0
## 12	1	0	0
## 13	10	1	3
## 14	1	0	0
## 15	0	2	0
## 16	0	2	0
## 17	1	0	1
## 18	3	3	2
## 19	0	0	1
## 20	0	3	0
## 21	0	1	0
## 22	0	1	0
## 23	2	2	1
## 24	0	1	0
## 25	0	2	0
## 26	0	0	1
## 27	0	0	0
## 28	0	0	1
## 29	0	2	0
## 30	1	1	1
## 31	0	1	0
## 32	0	1	2
## 33	0	0	0
## 34	0	1	0
## 35	0	1	0
## 36	0	3	0
## 37	0	1	1
## 38	0	0	0
## 39	0	1	0
## 40	0	2	0
## 41	0	3	1
## 42	0	1	1
## 43	0	1	1
## 44	0	0	0
## 45	0	0	1
## 46	0	1	2
## 47	0	0	1
## 48	1	2	0
## 49	1	1	0
## 50	1	1	0
## Swartzia.simplex.var.grandiflora	Swartzia.simplex.continentalis		
## 1	3	1	
## 2	3	4	
## 3	0	2	
## 4	1	2	
## 5	1	1	
## 6	9	5	
## 7	9	7	
## 8	5	0	
## 9	5	0	
## 10	0	0	
## 11	10	5	
## 12	13	13	
## 13	2	2	

## 14	3	3
## 15	1	0
## 16	5	5
## 17	6	4
## 18	9	2
## 19	6	4
## 20	2	0
## 21	2	1
## 22	6	4
## 23	2	4
## 24	4	3
## 25	2	1
## 26	5	2
## 27	6	4
## 28	8	1
## 29	6	4
## 30	3	0
## 31	0	1
## 32	4	3
## 33	13	4
## 34	14	2
## 35	4	1
## 36	0	3
## 37	8	3
## 38	10	2
## 39	5	3
## 40	1	3
## 41	0	0
## 42	3	1
## 43	8	0
## 44	3	2
## 45	1	1
## 46	0	0
## 47	0	1
## 48	4	2
## 49	2	1
## 50	1	1
## Symphonia.globulifera	Handroanthus.guayacan	Tabebuia.rosea
## 1	0	1
## 2	1	2
## 3	1	1
## 4	1	2
## 5	2	3
## 6	0	0
## 7	0	1
## 8	1	0
## 9	1	0
## 10	0	0
## 11	0	0
## 12	1	0
## 13	0	2
## 14	0	1
## 15	2	0
## 16	1	1

## 17	0	1	1
## 18	0	0	0
## 19	0	0	0
## 20	0	0	1
## 21	2	0	2
## 22	0	2	0
## 23	0	0	4
## 24	1	1	0
## 25	1	0	0
## 26	0	0	2
## 27	0	2	0
## 28	0	6	1
## 29	0	1	0
## 30	0	4	3
## 31	0	0	2
## 32	0	0	1
## 33	0	0	5
## 34	0	0	0
## 35	0	1	0
## 36	0	0	2
## 37	0	0	1
## 38	0	0	1
## 39	1	0	4
## 40	0	0	2
## 41	2	0	1
## 42	1	0	1
## 43	0	2	0
## 44	0	1	2
## 45	2	0	1
## 46	0	1	3
## 47	1	0	3
## 48	0	0	5
## 49	1	0	2
## 50	3	1	1
## Tabernaemontana.arborea		Tachigali.versicolor	Talisia.nervosa
## 1	9	6	0
## 2	5	1	0
## 3	6	3	0
## 4	10	3	0
## 5	16	0	0
## 6	11	1	0
## 7	9	2	0
## 8	8	0	0
## 9	12	3	0
## 10	10	1	0
## 11	4	4	0
## 12	6	2	0
## 13	12	3	1
## 14	22	0	0
## 15	8	5	0
## 16	11	2	0
## 17	3	1	0
## 18	10	3	0
## 19	9	2	0

## 20	13	3	0
## 21	4	1	0
## 22	10	1	0
## 23	5	1	0
## 24	9	3	0
## 25	6	3	0
## 26	4	4	0
## 27	12	2	0
## 28	5	8	0
## 29	2	2	0
## 30	21	1	0
## 31	1	5	0
## 32	4	1	0
## 33	2	1	0
## 34	5	0	0
## 35	2	1	0
## 36	1	1	0
## 37	0	1	0
## 38	4	1	0
## 39	3	2	0
## 40	2	0	0
## 41	1	3	0
## 42	2	1	0
## 43	0	2	0
## 44	1	0	0
## 45	2	2	0
## 46	2	1	0
## 47	1	1	0
## 48	8	0	0
## 49	2	2	0
## 50	7	2	0
## Talisia.princeps Terminalia.amazonia Terminalia.oblonga			
## 1	1	1	0
## 2	0	0	0
## 3	0	0	0
## 4	0	0	0
## 5	0	1	0
## 6	0	1	0
## 7	0	0	0
## 8	0	0	0
## 9	0	0	0
## 10	0	0	0
## 11	0	0	0
## 12	0	0	0
## 13	0	5	0
## 14	0	2	0
## 15	0	0	0
## 16	0	0	3
## 17	0	0	0
## 18	0	2	0
## 19	0	0	0
## 20	0	1	0
## 21	0	0	1
## 22	0	0	1

## 23	0	6	0
## 24	0	1	0
## 25	0	2	2
## 26	1	0	5
## 27	0	0	10
## 28	1	0	0
## 29	0	1	0
## 30	0	0	0
## 31	0	1	8
## 32	0	0	2
## 33	0	0	0
## 34	0	0	0
## 35	0	2	0
## 36	0	0	0
## 37	0	0	0
## 38	0	0	0
## 39	0	0	0
## 40	0	1	0
## 41	0	0	0
## 42	0	0	0
## 43	0	0	0
## 44	0	0	0
## 45	0	0	0
## 46	0	0	0
## 47	0	0	0
## 48	0	0	2
## 49	0	1	9
## 50	0	0	0
## Tetragastris.panamensis Tetrathyllum.johansenii Theobroma.cacao			
## 1	5	0	1
## 2	7	0	1
## 3	10	0	0
## 4	10	0	0
## 5	7	0	1
## 6	17	0	0
## 7	8	0	0
## 8	9	0	0
## 9	5	0	0
## 10	6	0	0
## 11	10	0	0
## 12	10	0	0
## 13	6	0	0
## 14	5	0	0
## 15	3	0	0
## 16	6	0	1
## 17	13	0	0
## 18	11	2	0
## 19	9	0	0
## 20	4	0	0
## 21	4	0	0
## 22	9	0	0
## 23	11	2	0
## 24	15	0	1
## 25	7	0	1

## 26	6	0	0	
## 27	11	1	0	
## 28	13	0	0	
## 29	8	0	1	
## 30	5	1	0	
## 31	5	0	0	
## 32	4	0	1	
## 33	1	0	0	
## 34	2	1	0	
## 35	1	0	0	
## 36	5	0	0	
## 37	9	0	0	
## 38	1	0	0	
## 39	2	0	0	
## 40	1	0	0	
## 41	7	0	1	
## 42	7	0	0	
## 43	6	0	1	
## 44	4	0	0	
## 45	9	0	0	
## 46	20	0	0	
## 47	25	0	0	
## 48	8	0	0	
## 49	4	0	0	
## 50	8	0	2	
## Thevetia.ahouai Tocoyena.pittieri Trattinnickia.aspera Trema.micrantha				
## 1	0	0	3	0
## 2	0	1	1	0
## 3	0	0	1	0
## 4	0	0	0	2
## 5	0	0	2	1
## 6	0	0	0	0
## 7	0	0	0	0
## 8	0	0	2	0
## 9	0	0	2	0
## 10	0	0	1	0
## 11	0	0	0	1
## 12	0	1	0	1
## 13	0	0	0	0
## 14	0	0	0	0
## 15	0	0	1	0
## 16	0	0	1	0
## 17	0	0	3	0
## 18	0	0	0	0
## 19	0	0	3	1
## 20	0	0	0	0
## 21	0	1	1	0
## 22	0	0	0	0
## 23	1	0	0	1
## 24	0	0	1	0
## 25	0	0	0	1
## 26	0	0	0	0
## 27	0	0	1	0
## 28	0	0	1	1

## 29	0	0	0	0
## 30	0	0	0	0
## 31	0	0	0	0
## 32	0	0	0	0
## 33	0	1	0	0
## 34	0	0	0	0
## 35	0	0	0	0
## 36	0	0	4	0
## 37	0	0	1	0
## 38	0	0	0	0
## 39	0	0	0	3
## 40	0	0	1	0
## 41	1	0	0	0
## 42	0	0	0	1
## 43	0	0	0	0
## 44	0	0	0	1
## 45	0	0	0	0
## 46	0	0	7	0
## 47	0	0	1	0
## 48	0	0	1	0
## 49	0	0	0	0
## 50	0	1	1	1
## Trichanthera.gigantea Trichilia.pallida Trichilia.tuberculata				
## 1	0	0	18	
## 2	0	1	27	
## 3	0	0	28	
## 4	0	1	35	
## 5	0	0	15	
## 6	0	0	31	
## 7	0	1	27	
## 8	0	0	36	
## 9	0	0	65	
## 10	0	0	46	
## 11	0	2	41	
## 12	0	1	46	
## 13	0	8	35	
## 14	0	1	33	
## 15	0	6	33	
## 16	0	3	25	
## 17	0	2	36	
## 18	0	5	23	
## 19	0	1	44	
## 20	0	10	33	
## 21	0	0	23	
## 22	0	1	42	
## 23	0	1	23	
## 24	1	2	38	
## 25	1	6	26	
## 26	0	1	15	
## 27	0	3	20	
## 28	0	0	43	
## 29	0	0	47	
## 30	0	4	33	
## 31	0	1	33	

## 32	0	8	50
## 33	0	1	37
## 34	0	2	31
## 35	0	1	30
## 36	0	0	28
## 37	0	4	33
## 38	0	1	59
## 39	0	0	79
## 40	0	2	97
## 41	0	0	19
## 42	0	0	15
## 43	0	0	36
## 44	0	0	26
## 45	0	0	26
## 46	0	0	16
## 47	0	1	16
## 48	0	0	19
## 49	0	1	26
## 50	0	0	18
## Trichospermum.galeottii	Triplaris.cumingiana	Trophis.caucana	
## 1	0	0	2
## 2	0	0	0
## 3	0	0	0
## 4	0	0	0
## 5	0	0	2
## 6	0	1	0
## 7	0	0	0
## 8	0	0	0
## 9	0	0	0
## 10	0	1	0
## 11	0	1	2
## 12	0	3	0
## 13	0	13	0
## 14	0	7	0
## 15	0	0	0
## 16	0	2	0
## 17	0	3	1
## 18	0	6	0
## 19	0	1	0
## 20	1	0	0
## 21	0	2	1
## 22	0	1	1
## 23	0	11	0
## 24	0	1	0
## 25	0	3	0
## 26	0	2	1
## 27	0	3	0
## 28	0	0	0
## 29	0	0	0
## 30	0	0	0
## 31	0	1	0
## 32	0	13	0
## 33	0	11	0
## 34	0	11	0

## 35	0	1	0
## 36	0	0	0
## 37	0	3	0
## 38	0	6	0
## 39	0	4	0
## 40	0	5	0
## 41	0	1	0
## 42	0	0	0
## 43	0	1	4
## 44	0	6	1
## 45	0	5	4
## 46	0	1	0
## 47	0	3	0
## 48	0	6	3
## 49	0	4	8
## 50	0	4	3
## <i>Trophis.racemosa</i>			
## <i>Turpinia.occidentalis</i>			
## <i>Unonopsis.pittieri</i>			
## <i>Virola.multiflora</i>			
## 1	1	0	1
## 2	1	1	5
## 3	0	1	12
## 4	1	4	3
## 5	0	2	4
## 6	0	1	3
## 7	1	0	3
## 8	0	1	2
## 9	0	1	5
## 10	2	1	9
## 11	0	1	4
## 12	0	1	0
## 13	0	0	0
## 14	1	0	3
## 15	0	5	11
## 16	2	2	1
## 17	0	0	0
## 18	2	0	0
## 19	3	0	4
## 20	0	5	10
## 21	0	1	6
## 22	0	1	1
## 23	1	0	1
## 24	1	2	3
## 25	2	0	3
## 26	1	0	4
## 27	1	7	0
## 28	0	1	0
## 29	0	3	5
## 30	2	1	1
## 31	1	0	3
## 32	2	0	4
## 33	1	2	5
## 34	0	1	1
## 35	0	0	0
## 36	0	2	9
## 37	0	5	8

## 38	0	0	2	0
## 39	0	2	0	0
## 40	1	1	0	0
## 41	0	2	4	2
## 42	0	0	5	3
## 43	1	0	5	0
## 44	0	0	3	0
## 45	0	0	4	0
## 46	0	0	0	0
## 47	2	0	0	0
## 48	2	0	0	1
## 49	0	0	2	0
## 50	0	1	4	1
##	<i>Virola.sebifera</i>	<i>Virola.surinamensis</i>	<i>Vismia.baccifera</i>	<i>Vochysia.ferruginea</i>
## 1	17	4	0	0
## 2	12	3	0	0
## 3	11	2	0	0
## 4	16	2	0	0
## 5	31	6	0	0
## 6	19	1	0	0
## 7	8	1	0	0
## 8	19	1	0	0
## 9	16	1	0	0
## 10	17	2	0	0
## 11	6	4	0	0
## 12	6	2	0	2
## 13	0	0	0	3
## 14	17	1	0	1
## 15	16	4	0	0
## 16	24	5	0	0
## 17	5	0	0	1
## 18	0	2	0	2
## 19	12	1	0	0
## 20	15	4	0	0
## 21	15	10	0	0
## 22	7	1	0	0
## 23	9	1	0	0
## 24	12	1	0	0
## 25	12	4	0	0
## 26	20	12	0	0
## 27	12	1	0	0
## 28	18	1	0	0
## 29	9	1	0	0
## 30	8	3	0	0
## 31	20	6	0	0
## 32	18	4	0	0
## 33	16	3	0	0
## 34	7	1	0	0
## 35	11	0	0	0
## 36	14	5	0	0
## 37	14	4	1	0
## 38	11	0	0	0
## 39	7	2	0	0
## 40	11	1	0	0

## 41	12	7	0	0
## 42	12	5	0	0
## 43	14	8	0	0
## 44	10	1	0	0
## 45	13	7	0	0
## 46	0	0	0	2
## 47	11	1	0	1
## 48	7	5	0	0
## 49	6	16	0	0
## 50	14	7	0	0
## Xylopia.macrantha Zanthoxylum.ekmanii Zanthoxylum.juniperinum				
## 1	1	3	0	0
## 2	0	4	0	0
## 3	0	8	1	
## 4	0	13	1	
## 5	0	3	0	
## 6	0	1	0	
## 7	0	2	0	
## 8	0	4	0	
## 9	0	13	1	
## 10	4	7	10	
## 11	1	1	0	
## 12	0	0	0	
## 13	1	5	2	
## 14	0	12	3	
## 15	3	5	6	
## 16	1	2	1	
## 17	2	1	0	
## 18	1	0	2	
## 19	1	3	1	
## 20	1	4	2	
## 21	15	7	2	
## 22	0	1	1	
## 23	0	0	0	
## 24	0	0	0	
## 25	0	4	3	
## 26	15	1	1	
## 27	8	4	1	
## 28	0	0	0	
## 29	0	2	0	
## 30	0	1	0	
## 31	23	0	1	
## 32	4	4	0	
## 33	8	3	0	
## 34	1	0	0	
## 35	0	0	0	
## 36	20	2	1	
## 37	1	5	0	
## 38	1	2	1	
## 39	0	1	1	
## 40	0	0	0	
## 41	9	3	0	
## 42	14	4	0	
## 43	2	1	0	

## 44	1	2	0
## 45	0	2	1
## 46	3	1	1
## 47	1	2	1
## 48	1	5	0
## 49	0	1	0
## 50	0	0	0
## Zanthoxylum.panamense	Zanthoxylum.setulosum	Zuelania.guidonia	
## 1	2	0	0
## 2	2	0	0
## 3	2	0	0
## 4	5	0	1
## 5	5	0	0
## 6	3	0	2
## 7	0	0	0
## 8	2	0	0
## 9	4	0	0
## 10	4	0	0
## 11	1	0	0
## 12	0	0	0
## 13	0	0	0
## 14	1	0	0
## 15	2	0	0
## 16	0	0	0
## 17	1	0	1
## 18	1	0	1
## 19	3	0	0
## 20	1	0	0
## 21	0	0	0
## 22	1	0	0
## 23	0	0	0
## 24	0	0	0
## 25	1	0	0
## 26	0	0	0
## 27	2	0	0
## 28	0	0	1
## 29	0	0	0
## 30	3	0	0
## 31	1	0	0
## 32	2	0	0
## 33	1	0	0
## 34	3	0	0
## 35	1	0	0
## 36	0	0	0
## 37	4	0	0
## 38	1	0	0
## 39	1	0	0
## 40	0	0	0
## 41	1	1	0
## 42	1	0	1
## 43	0	0	0
## 44	0	0	0
## 45	0	0	0
## 46	1	0	0

```

## 47          0          0          1
## 48          1          0          2
## 49          1          0          0
## 50          2          0          0

```

```
#site1 total
```

```
#site_total_for_site1
total_BCI$total[1]
```

```
## [1] 93
```

```
#specnumber
colnames(total_BCI)
```

```

## [1] "total"
## [3] "Vachellia.melanoceras"
## [5] "Acalypha.macrostachya"
## [7] "Aegiphila.panamensis"
## [9] "Alchornea.latifolia"
## [11] "Allophylus.psilospermus"
## [13] "Amaioua.corymbosa"
## [15] "Andira.inermis"
## [17] "Apeiba.glabra"
## [19] "Aspidosperma.desmanthum"
## [21] "Astronium.graveolens"
## [23] "Banara.guianensis"
## [25] "Brosimum.alicastrum"
## [27] "Calophyllum.longifolium"
## [29] "Casearia.arborea"
## [31] "Casearia.guianensis"
## [33] "Cassipourea.guianensis"
## [35] "Cecropia.insignis"
## [37] "Cedrela.odorata"
## [39] "Celtis.schippii"
## [41] "Chamguava.schippii"
## [43] "Maclea.tinctoria"
## [45] "Chrysophyllum.argenteum"
## [47] "Coccoloba.coronata"
## [49] "Colubrina.glandulosa"
## [51] "Cordia.bicolor"
## [53] "Coussarea.curvigemma"
## [55] "Cupania.cinerea"
## [57] "Cupania.rufescens"
## [59] "Dendropanax.arboreus"
## [61] "Diospyros.artanthifolia"
## [63] "Drypetes.standleyi"
## [65] "Enterolobium.schomburgkii"
## [67] "Erythroxylum.macrophyllum"
## [69] "Eugenia.galalonensis"
## [71] "Eugenia.oerstediana"
## [73] "Ficus.colubrinae"
## [75] "Ficus.insipida"

```

```

"Abarema.macradenia"
"Acalypha.diversifolia"
"Adelia.triloba"
"Alchornea.costaricensis"
"Alibertia.edulis"
"Alseis.blackiana"
"Anacardium.excelsum"
"Annona.spraguei"
"Apeiba.tibourbou"
"Astrocaryum.standleyanum"
"Attalea.butyracea"
"Beilschmiedia.pendula"
"Brosimum.guianense"
"Casearia.aculeata"
"Casearia.commersoniana"
"Casearia.sylvestris"
"Cavanillesia.platanifolia"
"Cecropia.obtusifolia"
"Ceiba.pentandra"
"Cespedesia.spathulata"
"Chimarrhis.parviflora"
"Chrysochlamys.eclipes"
"Chrysophyllum.cainito"
"Coccoloba.manzinellensis"
"Cordia.alliodora"
"Cordia.lasiocalyx"
"Croton.billbergianus"
"Cupania.latifolia"
"Cupania.seemannii"
"Desmopsis.panamensis"
"Dipteryx.oleifera"
"Elaeis.oleifera"
"Erythrina.costaricensis"
"Eugenia.florida"
"Eugenia.nesiotica"
"Faramea.occidentalis"
"Ficus.costaricana"
"Ficus.maxima"

```

```

## [77] "Ficus.obtusifolia"
## [79] "Ficus.tonduzii"
## [81] "Ficus.yoponensis"
## [83] "Garcinia.madruno"
## [85] "Guapira.myrtiflora"
## [87] "Guarea.grandifolia"
## [89] "Guatteria.dumetorum"
## [91] "Guettarda.foliacea"
## [93] "Hampea.appendiculata"
## [95] "Heisteria.acuminata"
## [97] "Hirtella.americana"
## [99] "Hura.crepitans"
## [101] "Inga.acuminata"
## [103] "Inga.goldmanii"
## [105] "Inga.semialata"
## [107] "Inga.oerstediana"
## [109] "Inga.punctata"
## [111] "Inga.sapindoides"
## [113] "Inga.umbellifera"
## [115] "Lacistema.aggregatum"
## [117] "Laetia.procera"
## [119] "Lafoensia.punicifolia"
## [121] "Licania.platypus"
## [123] "Lonchocarpus.heptaphyllus"
## [125] "Macrocnemum.roseum"
## [127] "Margaritaria.nobilis"
## [129] "Maytenus.schippiae"
## [131] "Miconia.argentea"
## [133] "Miconia.hondurensis"
## [135] "Myrcia.gatunensis"
## [137] "Nectandra.cissiflora"
## [139] "Nectandra.purpurea"
## [141] "Ocotea.cernua"
## [143] "Ocotea.puberula"
## [145] "Oenocarpus.mapora"
## [147] "Ormosia.coccinea"
## [149] "Pachira.quinata"
## [151] "Perebea.xanthochyma"
## [153] "Picramnia.latifolia"
## [155] "Platymiscium.pinnatum"
## [157] "Posoqueria.latifolia"
## [159] "Pourouma.bicolor"
## [161] "Pouteria.reticulata"
## [163] "Prioria.copaifera"
## [165] "Protium.panamense"
## [167] "Pseudobombax.septenatum"
## [169] "Psychotria.grandis"
## [171] "Quararibea.asterolepis"
## [173] "Randia.armata"
## [175] "Sapium.glandulosum"
## [177] "Senna.dariensis"
## [179] "Siparuna.guianensis"
## [181] "Sloanea.terniflora"
## [183] "Solanum.hayesii"
## [185] "Ficus.popenoei"
## [187] "Ficus.trigonata"
## [189] "Garcinia.intermedia"
## [191] "Genipa.americana"
## [193] "Guarea.fuzzy"
## [195] "Guarea.guidonia"
## [197] "Guazuma.ulmifolia"
## [199] "Gustavia.superba"
## [201] "Hasseltia.floribunda"
## [203] "Heisteria.concinna"
## [205] "Hirtella.triandra"
## [207] "Hieronyma.alchorneoides"
## [209] "Inga.cocleensis"
## [211] "Inga.laurina"
## [213] "Inga.nobilis"
## [215] "Inga.pezizifera"
## [217] "Inga.ruiziana"
## [219] "Inga.spectabilis"
## [221] "Jacaranda.copaia"
## [223] "Lacistema.panamensis"
## [225] "Laetia.thamnia"
## [227] "Licania.hypoleuca"
## [229] "Lindackeria.laurina"
## [231] "Luehea.seemannii"
## [233] "Maquira.guianensis.costaricana"
## [235] "Marila.laxiflora"
## [237] "Miconia.affinis"
## [239] "Miconia.elata"
## [241] "Mosannonia.garwoodii"
## [243] "Myrospermum.frutescens"
## [245] "Nectandra.lineata"
## [247] "Ochroma.pyramidalis"
## [249] "Ocotea.oblonga"
## [251] "Ocotea.whitei"
## [253] "Ormosia.amazonica"
## [255] "Ormosia.macrocalyx"
## [257] "Pachira.sessilis"
## [259] "Cinnamomum.tripinnatum"
## [261] "Piper.reticulatum"
## [263] "Platypodium.elegans"
## [265] "Poulsenia.armata"
## [267] "Pouteria.fossicola"
## [269] "Pouteria.stipitata"
## [271] "Protium.costaricense"
## [273] "Protium.tenuifolium"
## [275] "Psidium.friedrichsthalianum"
## [277] "Pterocarpus.rohrii"
## [279] "Quassia.amara"
## [281] "Sapium.broadleaf"
## [283] "Schizolobium.parahyba"
## [285] "Simarouba.amara"
## [287] "Siparuna.pauciflora"
## [289] "Socratea.exorrhiza"
## [291] "Sorocea.affinis"

```

```

## [185] "Spachea.membranacea"
## [187] "Spondias.radlkoferi"
## [189] "Swartzia.simplex.var.grandiflora"
## [191] "Symphonia.globulifera"
## [193] "Tabebuia.rosea"
## [195] "Tachigali.versicolor"
## [197] "Talisia.princeps"
## [199] "Terminalia.oblonga"
## [201] "Tetrathylacium.johansenii"
## [203] "Thevetia.ahouai"
## [205] "Trattinnickia.aspera"
## [207] "Trichanthera.gigantea"
## [209] "Trichilia.tuberculata"
## [211] "Triplaris.cumingiana"
## [213] "Trophis.racemosa"
## [215] "Unonopsis.pittieri"
## [217] "Virola.sebifera"
## [219] "Vismia.baccifera"
## [221] "Xylopia.macrantha"
## [223] "Zanthoxylum.juniperinum"
## [225] "Zanthoxylum.setulosum"

```

```
class(total_BCI)
```

```
## [1] "data.frame"
```

```
specnumber(BCI)
```

```

##   1   2   3   4   5   6   7   8   9   10  11  12  13  14  15  16  17  18  19  20
##  93  84  90  94 101  85  82  88  90  94  87  84  93  98  93  93  93  89 109 100
##  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40
##  99  91  99  95 105  91  99  85  86  97  77  88  86  92  83  92  88  82  84  80
##  41  42  43  44  45  46  47  48  49  50
## 102  87  86  81  81  86 102  91  91  93

```

```
length(specnumber(BCI))
```

```
## [1] 50
```

#species count for the first 4 sites.

```
total_BCI$total[1:4]
```

```
## [1] 93 84 90 94
```

Question 1: Does `specnumber()` from `vegan` return the same value for observed richness in `site1` as our function `S.obs`? What is the species richness of the first four sites (i.e., rows) of the BCI matrix?

Answer 1: Yes, both the functions yield the same result for me. The species richness in the first four sites are in order - 93, 84, 90, 94.

Coverage: How well did you sample your site?

In the R code chunk below, do the following:

1. Write a function to calculate Good's Coverage, and
2. Use that function to calculate coverage for all sites in the BCI matrix.

```
library(vegan)

C<- function(x){
  C<- 1 - (rowSums(x==1)/rowSums(x))
}

g_coverage<-C(BCI)
g_coverage      #coverage for all sites.

##          1         2         3         4         5         6         7         8
## 0.9308036 0.9287356 0.9200864 0.9468504 0.9287129 0.9174757 0.9326923 0.9443155
##          9        10        11        12        13        14        15        16
## 0.9095355 0.9275362 0.9152120 0.9071038 0.9242054 0.9132420 0.9350649 0.9267735
##         17        18        19        20        21        22        23        24
## 0.8950131 0.9193084 0.8891455 0.9114219 0.8946078 0.9066986 0.8705882 0.9030612
##         25        26        27        28        29        30        31        32
## 0.9095023 0.9115479 0.9088729 0.9198966 0.8983516 0.9221053 0.9382423 0.9411765
##         33        34        35        36        37        38        39        40
## 0.9220183 0.9239374 0.9267887 0.9186047 0.9379310 0.9306488 0.9268868 0.9386503
##         41        42        43        44        45        46        47        48
## 0.8880597 0.9299517 0.9140049 0.9168704 0.9234234 0.9348837 0.8847059 0.9228916
##         49        50
## 0.9086651 0.9143519

site1 <- BCI[1, ]

singletons <- sum(site1 == 1)
total_species <- sum(site1 > 0)

# Portion of taxa represented by singletons
portion_singletons <- singletons / total_species

portion_singletons

## [1] 0.3333333
```

Question 2: Answer the following questions about coverage:

- a. What is the range of values that can be generated by Good's Coverage?
- b. What would we conclude from Good's Coverage if n_i equaled N ?
- c. What portion of taxa in `site1` was represented by singletons?
- d. Make some observations about coverage at the BCI plots.

Answer 2a: Good coverage can range from 0 -1

Answer 2b: If $n_i=N$ then we can interpret that as all individuals we see are in the same species. Here, $C=1$ **Answer 2c:** 0.33 **Answer 2d:** There appears to be reasonably high coverage across the plots. This means that most individuals of the represented species are there in the same plots. Suggested high site specificity of communities.

Estimated richness

In the R code chunk below, do the following:

1. Load the microbial dataset (located in the Week-2/data folder),
2. Transform and transpose the data as needed (see handout),
3. Create a new vector (`soilbac1`) by indexing the bacterial OTU abundances of any site in the dataset,
4. Calculate the observed richness at that particular site, and
5. Calculate coverage of that site

```
mic #microbial dataset
```

```
##      OTU T1_1  T1_2  T1_3  T7_1  T7_2  T7_3  DF_1  DF_2  CF_1  CF_2  CF_3
## 1      1   31    42    12   151    65    83    92    64   164   140   190
## 2      2   11    14    10     0     1     6    11     6   149    50    86
## 3      3    2     1     2    27     3     1    11     5   18    13    46
## 4      4   25    46    78    50   120    60    26     7    0     4     0
## 5      5  124   195   270   25   17     3     0     0     0     0     0
## 6      6    5     5     6    42    55    29    11    18     2     4     1
## 7      7    4    20     7     3     4     1     5     9   29    4    29
## 8      8    0     0     0     2     0     0     9     7   32    27    42
## 9      9    1     2     0     3    15     8    25    15   35   63    9
## 10    10    2     0     0     1     0     2     2     0     0     0     0
## 11    11    0     3     2     0     1     0     3     3   50    8    5
## 12    12   28    36   13     0     0     0     0     0     0     0     0
## 13    13    0     0     2     1    50    13    11     4     0     2     0
## 14    14    0     1     0     0     7     3     5    15     0     3     8
## 15    15    4    10     0     1     6     1   10     4   73   18   32
## 16    16    0     0     5     6    18    10   12   13     3   18   20
## 17    17   13   19   12     4     2     6   23   34   26   16   16
## 18    18    1     1     2     2    42   10   11   11     0     2     0
## 19    19    0     2     0     2   14     4     6     7     1     1     0
## 20    20    1    11     3    14    56    36   13   17     0     5     0
## 21    21    8    16   18     0    12     8     0     5     0     1     0
## 22    22    0     5     2     1    53    17   10     6     0     9     1
## 23    23    2     5     0     0     0     0     0     0     0     0     0
## 24    24    2     1     0    15     6     7     8   11     2     0     0
## 25    25    2     1     0     0     1     1     1     0   48   12   29
## 26    26    4     6     2     3     0     2     6     0   15   19     7
## 27    27   11   17   12     0     0     0     0     0     0     1     0
## 28    28    4     3     0     6     4     2     0     0   13     3   18
## 29    29    1     3     0     0     0     0     0     0     4     9   30
## 30    30    0     1     0     7     1   21     4     2     5     3     1
```

## 31	31	1	3	0	8	2	14	0	3	2	4	0
## 32	32	6	5	5	0	0	0	0	0	0	0	0
## 33	33	4	18	6	2	17	1	0	0	0	1	0
## 34	34	0	0	0	6	9	9	3	1	0	1	0
## 35	35	14	26	40	0	52	5	12	7	1	8	0
## 36	36	0	0	0	2	0	12	9	8	0	1	5
## 37	37	13	20	19	0	0	0	0	0	0	0	0
## 38	38	22	11	12	12	2	2	0	0	0	0	0
## 39	39	10	19	5	0	0	0	0	0	2	6	0
## 40	40	3	1	3	0	0	0	3	0	35	12	21
## 41	41	0	0	0	0	0	0	19	15	0	1	1
## 42	42	2	3	4	19	17	16	31	37	6	13	8
## 43	43	0	0	0	0	0	0	0	0	5	4	5
## 44	44	8	3	5	10	2	3	4	0	0	5	0
## 45	45	1	7	3	3	10	3	8	10	0	2	1
## 46	46	2	0	0	13	0	6	1	3	0	0	1
## 47	47	3	0	0	11	6	7	12	8	0	6	4
## 48	48	2	2	2	3	54	15	6	0	0	0	0
## 49	49	2	1	0	0	0	1	3	3	5	8	18
## 50	50	7	3	3	0	2	4	15	20	7	14	18
## 51	51	12	5	3	0	1	0	2	1	3	5	0
## 52	52	2	3	3	2	3	6	17	16	7	6	9
## 53	53	0	1	0	1	7	13	22	16	6	9	3
## 54	54	10	3	7	0	0	0	0	0	0	0	0
## 55	55	6	11	4	0	1	0	9	11	42	13	14
## 56	56	1	2	0	0	5	2	3	3	0	2	10
## 57	57	8	9	11	3	51	24	8	6	1	3	0
## 58	58	6	2	4	11	5	4	3	12	0	1	3
## 59	59	0	0	0	0	0	0	7	13	0	2	6
## 60	60	7	3	4	0	0	0	0	0	3	0	0
## 61	61	0	1	2	3	8	9	6	7	0	2	0
## 62	62	1	3	0	1	4	1	2	6	18	16	14
## 63	63	11	10	13	23	2	4	1	7	0	0	0
## 64	64	4	12	4	1	6	1	5	0	0	5	0
## 65	65	3	16	5	0	0	0	0	3	7	7	2
## 66	66	6	11	9	0	0	0	0	2	0	0	0
## 67	67	4	8	7	5	15	7	0	2	2	0	0
## 68	68	0	2	0	0	0	1	5	7	10	1	9
## 69	69	0	0	0	3	0	0	3	1	12	8	21
## 70	70	1	3	2	2	19	12	3	3	0	3	1
## 71	71	2	1	5	22	8	13	13	8	1	5	1
## 72	72	2	1	0	1	0	0	23	9	9	12	8
## 73	73	0	0	0	0	0	0	4	2	15	6	6
## 74	74	4	3	4	1	5	6	3	0	0	0	0
## 75	75	2	0	0	2	0	1	4	4	1	1	9
## 76	76	1	0	1	0	0	0	0	0	7	23	9
## 77	77	6	7	2	12	13	14	4	4	2	0	0
## 78	78	0	0	0	5	19	1	6	3	0	0	0
## 79	79	1	9	18	0	0	0	0	0	0	0	0
## 80	80	2	0	2	6	2	2	1	2	0	0	0
## 81	81	0	0	0	0	0	0	1	2	2	3	15
## 82	82	0	1	0	12	7	3	20	4	0	1	2
## 83	83	1	0	0	0	0	0	1	2	1	0	0
## 84	84	2	2	3	7	9	3	1	1	0	1	2

## 85	85	0	2	1	6	4	0	1	4	0	1	0
## 86	86	0	0	0	5	0	0	6	8	0	0	11
## 87	87	0	0	0	0	0	0	0	1	0	0	1
## 88	88	0	0	0	0	0	0	14	4	5	20	0
## 89	89	2	0	0	7	0	2	5	3	9	14	15
## 90	90	2	1	3	15	9	13	0	1	0	0	0
## 91	91	0	0	0	0	0	0	2	0	3	3	1
## 92	92	0	0	0	0	0	0	0	0	0	0	0
## 93	93	0	0	1	0	0	0	0	0	13	0	6
## 94	94	2	3	84	0	0	1	0	0	22	1	0
## 95	95	0	0	0	0	5	3	2	0	0	0	0
## 96	96	0	0	0	0	0	0	1	0	14	1	8
## 97	97	11	16	19	0	0	1	0	0	0	0	0
## 98	98	1	0	2	2	2	1	2	0	0	1	1
## 99	99	1	1	1	0	0	0	0	0	0	0	0
## 100	100	0	0	0	4	4	5	1	3	1	2	0
## 101	101	0	0	0	2	6	5	10	3	0	1	0
## 102	102	0	0	0	0	0	0	0	0	0	0	0
## 103	103	0	0	0	1	3	8	14	15	2	1	0
## 104	104	0	0	0	5	2	3	9	1	7	5	3
## 105	105	0	0	0	0	0	0	0	0	14	1	3
## 106	106	1	4	0	0	1	0	1	1	0	4	0
## 107	107	18	3	14	0	0	0	0	0	0	0	0
## 108	108	0	0	0	4	0	1	0	0	0	2	15
## 109	109	0	5	9	11	0	0	1	0	0	0	0
## 110	110	0	0	0	0	0	0	0	0	25	1	0
## 111	111	0	0	0	16	3	4	10	16	0	0	0
## 112	112	6	6	1	17	0	6	6	3	0	2	0
## 113	113	12	4	4	0	0	0	0	0	0	0	0
## 114	114	4	5	2	0	0	2	2	0	0	0	0
## 115	115	3	1	2	0	0	0	0	0	0	0	0
## 116	116	0	0	0	0	1	0	10	17	0	8	1
## 117	117	0	6	0	6	3	1	1	4	1	3	10
## 118	118	0	0	1	20	15	11	5	24	6	11	0
## 119	119	3	8	2	0	21	7	19	33	4	16	5
## 120	120	0	1	1	4	11	10	5	2	0	0	0
## 121	121	2	3	10	0	3	0	0	0	0	0	0
## 122	122	0	0	0	0	0	0	6	9	0	4	0
## 123	123	0	0	0	0	0	0	22	7	37	11	4
## 124	124	9	7	4	0	0	0	0	0	0	0	0
## 125	125	0	1	3	2	6	13	2	2	0	1	0
## 126	126	0	0	0	2	2	0	9	9	0	4	0
## 127	127	0	0	0	6	6	10	3	1	0	0	0
## 128	128	0	1	1	2	0	0	0	0	0	0	1
## 129	129	0	0	2	8	8	4	24	24	0	6	0
## 130	130	0	0	0	0	0	0	0	4	28	0	17
## 131	131	0	0	3	0	0	0	0	0	0	0	0
## 132	132	0	0	0	0	0	0	0	0	10	9	4
## 133	133	0	0	0	5	0	3	0	0	0	0	0
## 134	134	0	0	0	0	0	0	1	0	3	2	6
## 135	135	0	0	0	0	1	7	0	13	0	0	0
## 136	136	0	0	0	1	1	0	0	0	0	0	0
## 137	137	1	1	5	0	5	0	1	3	0	1	0
## 138	138	1	0	1	1	2	0	0	0	3	0	0

## 139	139	0	0	0	0	0	0	0	0	14	0	1
## 140	140	2	2	6	0	3	4	1	5	0	2	0
## 141	141	0	0	0	0	0	0	0	2	0	1	0
## 142	142	0	0	0	0	0	0	1	0	0	0	0
## 143	143	0	0	0	0	0	0	1	0	1	6	6
## 144	144	4	14	7	0	0	0	0	0	0	0	0
## 145	145	1	3	1	1	1	0	0	0	0	0	0
## 146	146	0	0	0	0	0	0	0	0	0	0	0
## 147	147	0	0	0	0	4	7	2	2	4	0	0
## 148	148	0	0	0	2	5	7	6	11	1	2	0
## 149	149	14	10	6	0	0	0	0	0	0	0	0
## 150	150	1	2	0	2	2	6	1	4	4	10	17
## 151	151	0	0	0	0	0	0	0	0	8	2	16
## 152	152	0	0	0	0	0	0	0	1	2	7	12
## 153	153	2	1	3	8	2	1	0	2	10	10	7
## 154	154	2	5	2	0	2	0	8	9	2	5	3
## 155	155	14	6	2	0	0	0	0	0	0	0	0
## 156	156	4	0	1	0	0	3	3	2	0	2	2
## 157	157	7	4	5	0	0	0	0	0	0	0	0
## 158	158	1	1	0	3	0	3	3	5	0	2	0
## 159	159	0	0	0	3	3	0	2	3	0	0	0
## 160	160	13	3	5	0	0	0	0	0	0	0	0
## 161	161	1	5	2	2	5	6	1	1	0	0	1
## 162	162	5	4	1	1	0	3	0	0	1	0	2
## 163	163	0	0	1	1	0	0	0	0	0	0	0
## 164	164	1	1	0	1	0	0	6	5	4	2	13
## 165	165	0	0	0	0	0	0	0	0	25	0	0
## 166	166	0	3	0	0	0	0	0	0	1	1	1
## 167	167	4	1	2	3	3	2	2	1	0	1	2
## 168	168	0	0	0	0	0	3	0	0	0	0	0
## 169	169	11	8	15	0	0	0	0	0	0	0	0
## 170	170	0	1	9	0	0	2	1	0	1	0	2
## 171	171	2	7	3	8	3	11	5	8	0	0	0
## 172	172	6	5	6	0	1	0	2	8	3	6	1
## 173	173	0	0	0	5	0	1	3	2	2	0	0
## 174	174	0	0	0	3	2	2	4	4	0	0	1
## 175	175	1	1	2	2	1	4	0	0	0	0	0
## 176	176	0	3	2	1	12	16	5	4	0	0	0
## 177	177	4	0	4	0	0	0	0	0	0	0	0
## 178	178	4	3	3	7	6	0	11	5	4	10	1
## 179	179	4	1	1	6	1	2	2	9	0	2	8
## 180	180	0	1	1	1	2	3	1	3	0	0	0
## 181	181	0	0	0	0	0	0	1	0	3	2	4
## 182	182	0	0	0	0	0	0	0	0	22	0	0
## 183	183	1	0	0	0	0	0	1	0	0	0	0
## 184	184	0	0	3	0	0	6	1	2	0	0	0
## 185	185	2	2	2	1	1	8	0	1	0	0	1
## 186	186	1	2	3	2	4	3	0	1	0	0	0
## 187	187	0	2	1	3	2	2	1	2	0	6	3
## 188	188	7	5	2	0	0	6	0	1	0	0	0
## 189	189	13	6	12	0	0	0	0	0	5	0	0
## 190	190	0	0	0	0	8	9	1	1	0	3	0
## 191	191	0	0	0	0	2	3	2	3	0	1	0
## 192	192	2	2	3	0	0	0	0	0	0	0	0

## 193	193	5	6	3	0	0	0	0	0	0	0	0	0
## 194	194	2	8	0	0	0	0	0	0	1	0	0	1
## 195	195	0	0	0	0	0	0	0	0	11	0	0	0
## 196	196	0	0	0	0	0	0	0	0	0	0	0	12
## 197	197	0	1	0	0	0	0	0	0	6	0	0	0
## 198	198	2	1	0	0	1	0	0	0	3	2	2	2
## 199	199	0	0	0	0	3	3	1	1	0	0	0	1
## 200	200	0	0	0	0	0	1	0	2	4	0	0	8
## 201	201	2	5	7	0	0	1	0	0	0	0	0	0
## 202	202	2	1	0	6	1	15	0	0	1	0	0	3
## 203	203	0	1	0	1	1	1	9	5	18	10	7	7
## 204	204	2	1	0	0	1	0	0	0	0	0	0	0
## 205	205	0	8	4	2	0	6	5	5	0	2	0	0
## 206	206	0	1	0	0	0	3	0	0	0	0	0	0
## 207	207	1	2	2	1	9	4	4	0	0	0	0	0
## 208	208	0	3	0	4	1	5	0	0	0	1	0	0
## 209	209	0	0	0	0	2	0	0	1	2	0	0	0
## 210	210	0	0	0	5	0	4	0	1	0	0	0	0
## 211	211	4	3	6	0	0	0	0	0	0	0	0	0
## 212	212	0	0	0	0	5	1	1	3	1	0	0	0
## 213	213	0	8	2	3	0	0	0	0	0	0	0	0
## 214	214	1	1	0	1	3	3	3	5	0	0	0	2
## 215	215	0	0	0	0	0	0	1	0	0	0	0	0
## 216	216	0	0	0	3	1	4	2	10	0	0	0	0
## 217	217	0	3	2	1	0	0	7	11	12	5	16	16
## 218	218	1	0	0	0	0	0	4	3	3	1	6	6
## 219	219	0	4	1	2	0	3	2	6	0	2	0	0
## 220	220	0	0	0	0	0	0	0	0	7	0	6	6
## 221	221	10	13	8	0	10	0	1	0	0	0	0	0
## 222	222	3	2	6	1	0	0	0	0	0	0	0	1
## 223	223	0	0	0	0	0	0	0	0	4	0	0	0
## 224	224	0	0	0	13	2	0	1	0	0	0	0	0
## 225	225	3	2	0	0	3	0	3	2	0	0	0	0
## 226	226	0	0	1	1	4	1	2	3	0	1	0	0
## 227	227	0	0	0	3	2	3	0	6	2	2	0	0
## 228	228	4	11	9	1	6	1	11	6	1	4	3	3
## 229	229	0	2	0	0	0	0	0	0	0	3	2	2
## 230	230	1	0	0	8	2	4	1	8	0	0	0	0
## 231	231	7	10	4	2	0	1	1	0	0	0	0	0
## 232	232	1	1	1	6	3	2	0	6	6	3	1	1
## 233	233	1	0	0	2	0	0	4	0	1	5	13	13
## 234	234	0	0	0	3	0	0	0	2	0	0	1	1
## 235	235	8	8	3	1	0	0	0	0	0	0	0	0
## 236	236	1	0	0	1	1	1	0	0	0	0	0	0
## 237	237	0	0	0	0	0	0	1	0	4	7	1	1
## 238	238	0	0	0	0	0	0	4	8	0	2	7	7
## 239	239	6	2	9	1	5	6	0	3	0	0	0	0
## 240	240	0	1	1	2	0	0	6	6	3	6	4	4
## 241	241	0	0	0	1	0	0	5	0	0	0	0	0
## 242	242	0	0	0	0	4	3	1	0	0	0	0	0
## 243	243	0	0	0	0	0	0	0	0	1	0	0	0
## 244	244	0	0	0	0	0	3	0	0	0	0	0	0
## 245	245	0	0	0	0	0	0	5	0	0	6	3	3
## 246	246	0	0	0	3	0	5	3	1	0	0	0	0

## 247	247	0	0	0	1	10	3	2	3	0	1	0
## 248	248	0	0	0	0	0	1	2	1	0	0	1
## 249	249	0	2	0	0	6	0	1	1	0	0	0
## 250	250	0	0	0	1	0	1	2	2	1	2	1
## 251	251	0	0	0	0	0	2	0	0	1	0	0
## 252	252	1	0	1	2	2	7	4	0	0	0	1
## 253	253	0	0	0	1	5	1	1	4	0	2	0
## 254	254	0	2	1	2	3	0	0	0	0	0	0
## 255	255	0	0	0	1	6	4	3	2	0	0	0
## 256	256	1	0	0	3	0	3	5	2	0	2	1
## 257	257	0	0	0	0	5	2	3	2	0	0	0
## 258	258	0	2	0	0	0	0	7	4	0	2	1
## 259	259	0	0	0	5	2	1	0	0	0	0	0
## 260	260	0	0	0	3	3	1	2	5	0	2	0
## 261	261	0	1	0	0	0	0	2	12	0	0	3
## 262	262	0	0	0	6	5	6	4	7	2	0	0
## 263	263	0	2	6	12	0	0	5	6	0	0	0
## 264	264	0	0	0	0	0	0	9	5	0	0	0
## 265	265	0	1	0	1	6	0	0	0	0	0	1
## 266	266	0	1	0	0	8	9	3	2	4	2	0
## 267	267	0	0	0	7	4	5	0	0	0	0	0
## 268	268	2	0	0	0	4	1	0	2	1	3	0
## 269	269	0	0	0	0	0	0	0	5	0	0	0
## 270	270	1	4	3	0	1	0	0	0	0	0	0
## 271	271	2	2	1	0	2	5	0	0	0	0	0
## 272	272	2	0	0	0	0	0	0	0	0	2	0
## 273	273	0	0	1	1	1	0	0	2	0	0	2
## 274	274	0	0	0	14	3	6	0	0	0	0	0
## 275	275	0	0	0	7	0	0	0	0	0	0	0
## 276	276	0	1	0	5	0	1	2	2	1	0	0
## 277	277	1	0	0	2	0	0	2	1	3	1	0
## 278	278	0	1	1	0	0	0	0	0	0	0	0
## 279	279	0	1	1	0	1	4	0	0	0	0	0
## 280	280	7	1	0	0	0	0	0	0	0	0	0
## 281	281	1	1	0	0	2	1	0	6	0	0	1
## 282	282	0	0	0	0	0	0	5	0	0	0	0
## 283	283	0	3	0	1	0	0	4	1	0	1	2
## 284	284	0	1	3	0	0	0	0	0	2	1	3
## 285	285	0	0	0	0	0	0	0	0	0	0	1
## 286	286	2	2	0	1	2	0	3	1	0	3	5
## 287	287	9	1	0	0	0	0	0	0	0	0	0
## 288	288	0	0	0	0	0	0	1	5	0	7	3
## 289	289	0	0	0	0	0	0	0	1	7	1	6
## 290	290	1	0	0	0	0	0	1	0	2	1	1
## 291	291	0	1	0	0	0	0	12	8	9	14	1
## 292	292	0	2	2	0	0	0	0	0	0	0	0
## 293	293	0	0	0	0	0	0	1	0	1	2	1
## 294	294	0	0	0	0	0	2	0	0	0	1	0
## 295	295	0	0	0	0	0	0	2	0	0	9	5
## 296	296	0	2	0	1	7	8	0	3	1	0	1
## 297	297	1	4	0	6	0	0	4	7	0	5	0
## 298	298	0	0	0	0	7	0	3	0	0	5	0
## 299	299	0	0	0	1	2	3	3	1	1	4	0
## 300	300	1	0	1	6	1	5	1	4	1	2	0

## 301	301	2	1	6	0	0	0	2	1	0	0	0
## 302	302	2	1	0	1	2	1	10	14	0	1	4
## 303	303	0	0	0	0	0	0	1	0	2	2	7
## 304	304	0	0	0	0	0	0	0	0	0	1	1
## 305	305	0	0	0	4	0	0	0	0	0	0	0
## 306	306	0	0	0	0	0	0	0	0	5	1	2
## 307	307	0	0	0	3	1	2	1	3	0	1	0
## 308	308	4	4	2	0	0	0	0	0	0	0	0
## 309	309	1	2	1	0	2	3	2	8	0	0	0
## 310	310	0	1	1	6	4	3	0	0	0	0	0
## 311	311	0	0	0	0	9	2	2	1	0	0	0
## 312	312	0	1	2	0	5	6	0	0	0	0	0
## 313	313	0	0	0	0	6	8	0	0	0	0	0
## 314	314	2	3	10	0	0	0	0	0	0	0	0
## 315	315	1	0	0	6	0	3	0	0	0	0	0
## 316	316	0	0	0	0	0	0	2	8	0	0	0
## 317	317	7	5	3	0	0	0	0	0	0	0	0
## 318	318	1	0	1	0	0	0	0	0	7	0	0
## 319	319	1	2	2	4	3	2	13	7	7	7	5
## 320	320	0	2	0	0	0	0	10	1	1	0	1
## 321	321	0	1	0	0	0	0	3	1	0	1	0
## 322	322	0	0	0	4	2	1	1	0	2	2	0
## 323	323	0	0	1	0	0	3	0	0	1	2	0
## 324	324	0	0	0	0	0	0	0	0	1	0	0
## 325	325	0	0	0	0	0	0	0	0	5	1	3
## 326	326	0	0	2	2	16	7	1	0	4	0	0
## 327	327	0	0	0	0	0	0	2	3	3	0	0
## 328	328	0	0	0	2	0	0	5	3	1	6	0
## 329	329	0	0	1	0	0	0	0	7	0	0	0
## 330	330	2	1	2	1	0	0	0	0	0	0	0
## 331	331	1	0	2	9	9	1	3	2	0	0	0
## 332	332	0	0	0	0	2	4	0	0	0	0	0
## 333	333	5	10	10	0	3	2	0	1	0	0	0
## 334	334	0	0	0	0	0	0	0	0	0	0	0
## 335	335	0	2	1	1	2	0	0	0	0	0	0
## 336	336	0	0	0	0	6	0	1	0	0	0	0
## 337	337	5	0	1	2	0	0	0	0	0	0	2
## 338	338	0	0	0	0	0	2	0	0	0	0	0
## 339	339	0	0	0	3	0	0	1	3	0	2	6
## 340	340	0	0	1	5	1	2	0	0	0	0	0
## 341	341	6	3	2	9	4	4	6	2	0	0	0
## 342	342	0	0	0	0	0	0	0	0	6	0	0
## 343	343	0	0	0	0	0	0	0	0	0	0	6
## 344	344	0	2	0	3	4	1	0	0	0	0	0
## 345	345	2	1	1	0	0	1	0	1	0	0	0
## 346	346	6	3	0	0	0	0	0	0	0	0	0
## 347	347	1	0	1	0	0	2	7	7	5	2	13
## 348	348	0	0	0	1	3	0	3	5	0	1	0
## 349	349	0	0	0	1	0	4	0	2	0	0	0
## 350	350	0	0	0	0	0	0	9	7	0	2	0
## 351	351	0	0	0	0	1	3	0	0	0	0	0
## 352	352	0	0	0	0	0	0	3	7	0	2	0
## 353	353	0	2	2	0	0	3	0	1	0	0	0
## 354	354	0	0	0	0	8	0	0	0	0	0	0

## 355	355	1	0	1	0	0	0	2	3	3	2	4
## 356	356	1	4	0	3	1	3	0	0	0	0	2
## 357	357	2	5	2	7	8	8	17	8	0	2	1
## 358	358	0	0	0	0	0	0	1	0	0	1	1
## 359	359	3	4	2	0	0	0	0	0	0	0	3
## 360	360	0	0	0	0	0	0	0	0	0	0	0
## 361	361	2	1	2	0	0	0	0	0	0	0	0
## 362	362	1	4	0	0	0	3	23	10	1	3	3
## 363	363	1	0	2	1	3	0	4	1	2	4	5
## 364	364	4	0	0	0	0	3	0	0	0	0	0
## 365	365	1	0	0	0	0	0	0	0	0	0	7
## 366	366	0	1	0	3	0	10	0	0	1	1	0
## 367	367	1	0	0	1	1	0	0	0	0	0	0
## 368	368	0	1	0	1	0	0	1	4	1	2	3
## 369	369	0	0	0	1	1	3	2	2	1	3	0
## 370	370	0	1	2	1	3	1	1	5	0	2	0
## 371	371	0	2	3	4	0	1	11	17	6	2	2
## 372	372	0	1	0	4	0	2	2	2	1	1	6
## 373	373	2	1	7	0	0	0	0	0	0	0	0
## 374	374	2	1	2	8	4	12	0	4	0	1	1
## 375	375	0	1	1	0	0	0	0	0	7	1	3
## 376	376	1	1	0	0	0	0	1	2	0	0	0
## 377	377	0	1	0	2	0	1	1	1	0	0	0
## 378	378	7	6	0	0	0	0	0	0	0	0	0
## 379	379	0	0	0	2	0	1	9	0	0	0	0
## 380	380	1	0	2	0	0	0	0	0	0	0	0
## 381	381	2	0	6	0	0	0	0	0	0	0	0
## 382	382	0	0	0	0	0	0	0	0	0	0	0
## 383	383	10	1	17	0	0	0	0	0	0	0	0
## 384	384	0	1	1	1	0	0	3	3	0	0	0
## 385	385	0	0	3	0	10	0	0	2	0	0	0
## 386	386	0	0	0	0	0	0	5	1	0	4	0
## 387	387	0	0	0	0	0	0	1	0	6	0	0
## 388	388	0	0	0	0	0	0	0	0	0	0	0
## 389	389	0	0	0	0	0	0	0	1	3	1	0
## 390	390	0	0	0	0	0	0	1	1	0	3	2
## 391	391	2	0	0	1	0	1	3	5	2	4	5
## 392	392	0	0	0	2	0	1	1	0	0	2	0
## 393	393	3	3	1	2	1	0	0	0	0	0	0
## 394	394	0	0	0	0	0	0	0	0	8	1	0
## 395	395	0	3	0	0	0	0	0	0	0	0	0
## 396	396	1	2	1	0	0	0	0	0	0	1	0
## 397	397	0	0	0	0	0	0	0	0	0	0	5
## 398	398	0	0	0	1	0	1	1	1	0	0	0
## 399	399	0	0	0	0	0	0	0	6	0	0	0
## 400	400	0	0	0	0	0	0	4	0	12	3	1
## 401	401	0	0	0	0	0	0	0	0	0	0	0
## 402	402	0	0	0	10	0	0	0	0	0	0	0
## 403	403	2	6	0	2	0	0	4	4	0	0	3
## 404	404	0	2	2	0	2	7	1	3	0	0	0
## 405	405	0	0	0	1	0	2	10	7	0	0	0
## 406	406	0	0	0	1	2	2	1	0	0	0	0
## 407	407	0	0	0	0	0	0	0	0	7	0	0
## 408	408	2	0	0	0	1	0	0	0	2	0	0

## 409	409	0	0	0	1	1	0	0	0	0	0	0
## 410	410	0	0	0	0	0	0	0	0	0	0	0
## 411	411	0	0	0	0	0	0	0	1	13	4	9
## 412	412	0	2	0	1	0	0	4	0	0	2	4
## 413	413	6	1	8	0	0	0	0	0	0	0	0
## 414	414	0	0	0	1	1	0	1	0	0	0	1
## 415	415	0	0	0	0	1	4	0	2	0	0	0
## 416	416	0	1	0	0	4	3	0	0	0	0	0
## 417	417	0	2	0	0	0	0	0	0	0	0	0
## 418	418	0	0	0	1	2	0	1	4	5	0	1
## 419	419	0	1	0	0	0	0	1	1	2	0	5
## 420	420	0	0	0	0	0	0	2	0	0	0	1
## 421	421	0	0	0	2	0	0	0	0	0	0	0
## 422	422	0	0	0	1	2	0	0	5	0	0	0
## 423	423	0	0	0	0	1	0	0	0	1	0	0
## 424	424	0	0	0	0	0	1	4	0	0	3	0
## 425	425	0	0	1	2	0	0	0	0	0	1	2
## 426	426	0	0	0	0	0	0	0	0	0	0	0
## 427	427	0	3	0	0	0	0	0	0	0	0	0
## 428	428	0	1	0	9	0	0	0	0	0	0	0
## 429	429	0	0	0	0	0	0	0	0	0	0	0
## 430	430	0	0	0	1	0	0	3	1	6	0	1
## 431	431	1	0	0	0	0	0	1	1	0	0	0
## 432	432	0	0	0	0	0	0	0	0	3	0	0
## 433	433	0	0	0	0	0	0	2	0	1	4	1
## 434	434	0	0	0	0	0	0	0	0	0	0	0
## 435	435	0	1	1	0	0	2	0	0	0	0	0
## 436	436	0	0	0	0	5	2	0	4	0	0	0
## 437	437	0	1	1	5	10	0	0	1	0	3	0
## 438	438	1	0	3	1	4	0	0	0	0	0	0
## 439	439	0	0	0	0	0	0	0	0	11	0	0
## 440	440	0	1	0	0	4	1	2	4	0	0	0
## 441	441	0	0	0	0	0	0	0	0	0	0	0
## 442	442	0	0	0	0	0	0	2	0	0	8	4
## 443	443	0	0	0	1	2	1	1	0	1	2	0
## 444	444	0	0	0	0	0	0	8	0	1	4	4
## 445	445	0	0	10	0	0	0	0	0	0	0	0
## 446	446	0	0	0	0	0	0	0	3	0	2	0
## 447	447	0	0	0	1	0	3	0	0	1	0	0
## 448	448	1	0	1	2	1	10	1	0	0	0	0
## 449	449	0	0	0	0	0	0	0	1	3	1	2
## 450	450	0	0	0	0	0	0	0	0	4	3	4
## 451	451	7	0	1	0	0	0	0	0	0	0	0
## 452	452	0	0	0	2	3	1	2	2	0	0	0
## 453	453	0	0	0	2	0	2	9	1	0	0	0
## 454	454	0	4	1	0	1	0	0	5	0	0	0
## 455	455	0	0	0	0	0	0	2	7	0	1	1
## 456	456	1	2	1	0	0	0	0	0	0	0	0
## 457	457	0	0	2	0	3	1	2	2	0	0	0
## 458	458	0	0	0	1	6	0	4	3	4	4	1
## 459	459	1	0	0	1	0	0	0	1	3	1	0
## 460	460	0	0	1	1	0	0	0	0	0	2	0
## 461	461	0	0	0	0	0	0	1	3	3	7	3
## 462	462	0	0	0	0	0	0	0	0	1	3	0

## 463	463	1	2	3	0	1	0	0	0	0	0	0	0
## 464	464	0	0	1	2	0	0	2	5	5	0	0	11
## 465	465	0	0	7	0	1	0	0	0	0	0	0	0
## 466	466	0	0	0	0	3	2	0	3	0	0	0	0
## 467	467	0	0	0	3	0	0	5	1	0	0	0	0
## 468	468	0	6	2	0	2	1	3	0	0	1	0	0
## 469	469	0	0	0	0	0	0	0	0	0	0	0	1
## 470	470	0	0	0	0	0	0	0	0	1	1	1	0
## 471	471	0	1	0	1	0	5	0	0	0	0	0	0
## 472	472	0	0	0	0	0	0	0	0	2	0	0	1
## 473	473	0	0	0	0	0	0	0	0	0	0	0	0
## 474	474	0	0	0	3	0	0	0	0	1	0	0	0
## 475	475	3	5	2	0	0	0	0	0	0	0	1	0
## 476	476	0	0	0	0	0	0	0	0	3	1	1	1
## 477	477	0	0	0	1	1	0	3	3	1	1	1	1
## 478	478	0	0	0	0	0	0	9	1	0	0	0	0
## 479	479	0	0	0	0	0	0	0	0	4	0	0	0
## 480	480	0	0	0	0	1	0	0	0	4	0	0	0
## 481	481	0	0	0	1	2	2	1	1	0	0	0	0
## 482	482	1	1	0	0	0	1	2	0	0	1	0	0
## 483	483	0	0	0	4	0	0	0	0	0	0	0	0
## 484	484	0	0	0	0	4	0	1	0	0	1	0	0
## 485	485	0	0	0	5	0	1	0	0	0	0	0	0
## 486	486	3	0	0	0	0	0	2	1	0	0	1	0
## 487	487	0	1	0	0	3	0	3	1	0	0	0	0
## 488	488	1	0	1	0	0	4	1	0	0	0	0	0
## 489	489	2	13	0	0	0	0	0	0	0	0	0	0
## 490	490	0	3	3	5	21	8	2	4	0	0	0	0
## 491	491	0	0	0	0	1	1	1	9	0	1	0	0
## 492	492	0	0	0	0	0	0	0	2	0	1	0	0
## 493	493	0	0	0	0	0	0	0	0	0	0	0	0
## 494	494	1	0	1	2	0	0	0	1	0	0	0	0
## 495	495	0	0	0	1	0	3	1	0	0	0	0	0
## 496	496	0	0	0	2	0	1	3	2	0	0	0	0
## 497	497	0	3	0	0	0	0	0	0	0	0	0	0
## 498	498	0	0	0	5	0	0	0	0	0	0	0	0
## 499	499	0	0	0	0	0	0	0	0	6	0	0	3
## 500	500	4	3	2	0	0	0	0	0	3	3	3	3
## 501	501	0	0	0	4	0	0	5	1	0	0	0	0
## 502	502	0	0	0	0	0	0	2	0	4	6	5	5
## 503	503	0	0	0	3	6	1	1	0	0	1	0	0
## 504	504	1	0	0	2	1	0	1	7	1	0	0	0
## 505	505	0	0	0	0	3	0	3	0	0	0	0	0
## 506	506	0	0	0	0	0	1	1	0	0	1	0	0
## 507	507	7	1	3	0	0	0	0	0	0	0	0	0
## 508	508	0	0	0	0	0	0	9	0	0	0	0	0
## 509	509	0	0	0	0	0	0	0	0	0	0	0	2
## 510	510	0	1	0	0	0	1	2	0	0	0	0	0
## 511	511	0	0	0	1	2	2	2	1	0	1	2	2
## 512	512	0	1	1	6	1	0	4	0	0	0	0	2
## 513	513	0	0	1	0	2	0	2	1	0	2	0	0
## 514	514	0	0	0	0	0	0	0	0	0	0	0	0
## 515	515	0	0	0	0	0	0	0	0	0	0	0	0
## 516	516	0	0	0	0	0	0	0	0	0	0	0	0

```

## 517 517 0 0 1 0 0 0 0 0 0 0 0 0 0 0
## 518 518 2 3 0 0 0 0 0 0 0 0 1 2 1
## 519 519 0 0 1 0 0 0 0 1 0 0 0 0 0 0
## 520 520 3 5 0 0 0 0 0 3 0 0 0 0 0 0
## 521 521 4 11 3 0 0 0 0 0 0 0 0 0 0 0
## 522 522 0 0 3 0 2 3 0 1 0 0 0 0 0 0
## 523 523 0 2 3 2 0 0 2 5 0 0 0 0 0 0
## 524 524 0 0 0 1 4 1 1 1 0 0 0 0 0 0
## 525 525 0 1 0 0 0 0 0 0 0 0 0 0 0 0
## 526 526 2 0 1 0 0 0 0 0 0 0 0 0 0 0
## 527 527 0 0 0 0 0 0 5 0 0 0 0 0 0 0
## 528 528 0 0 1 0 1 2 0 0 0 1 0 0 0 0
## 529 529 0 0 0 3 0 2 0 0 0 0 0 0 0 0
## 530 530 2 0 0 0 0 0 0 0 0 0 0 0 0 0
## 531 531 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## 532 532 4 0 0 0 0 0 0 0 0 0 0 0 0 0
## 533 533 0 2 0 0 0 3 1 0 0 0 1 1 0 0
## 534 534 0 0 0 0 0 0 0 0 0 0 0 0 0 9
## 535 535 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## 536 536 2 0 0 0 9 4 2 0 0 0 0 0 0 0
## 537 537 0 0 0 0 0 0 0 0 0 4 1 5 0 0
## 538 538 0 1 1 0 1 5 2 6 0 0 0 0 0 0
## 539 539 0 0 0 0 0 0 0 0 3 0 1 2 0 0
## 540 540 1 0 0 4 0 0 0 0 1 0 0 0 0 0
## 541 541 3 3 2 0 0 0 0 0 0 0 0 0 0 0
## 542 542 0 0 0 10 4 0 0 0 0 0 0 0 0 0
## 543 543 3 4 0 0 0 0 0 0 0 0 0 0 0 0
## 544 544 0 0 0 1 4 5 2 3 0 0 0 0 0 0
## 545 545 0 0 0 1 0 0 0 0 0 1 0 0 0 0
## 546 546 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## 547 547 0 0 0 0 7 0 0 0 0 0 0 0 0 0
## 548 548 0 1 0 0 0 0 0 0 0 0 0 1 0 0
## 549 549 0 0 0 1 2 0 2 0 1 0 0 0 0 0
## 550 550 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## 551 551 0 0 0 0 0 0 0 0 0 11 0 0 0
## 552 552 1 1 0 0 0 0 0 0 0 0 0 0 0 0
## 553 553 0 1 0 0 2 0 0 1 0 0 0 0 0 1
## 554 554 0 0 1 2 3 0 2 4 0 0 0 0 0 0
## 555 555 2 0 2 2 0 4 3 1 2 2 1 0 0 0
## 556 556 0 0 0 0 7 4 0 0 0 0 0 0 0 0
## 557 557 2 0 7 0 0 0 0 0 0 0 0 0 0 0
## 558 558 1 2 0 0 6 0 0 0 0 0 0 0 0 0
## 559 559 0 0 3 0 0 3 0 0 0 0 0 0 0 0
## 560 560 1 0 2 0 3 0 1 2 0 0 0 0 0 0
## 561 561 0 0 0 0 0 0 0 4 0 1 0 0 0 0
## 562 562 0 0 0 1 3 0 1 0 0 0 0 0 0 0
## 563 563 0 2 0 0 0 0 0 0 0 0 0 3 1 0
## 564 564 2 1 0 0 1 0 0 0 0 0 0 0 0 0
## 565 565 2 4 2 0 0 0 0 0 0 0 0 0 0 0
## 566 566 2 0 0 0 0 0 0 0 0 0 0 0 0 0
## 567 567 0 0 0 0 0 0 0 0 0 0 2 1 0 0
## 568 568 0 0 1 0 2 3 4 3 0 0 0 0 0 0
## 569 569 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## 570 570 0 1 1 0 0 0 0 0 0 0 0 0 0 0

```

## 571	571	0	0	0	0	1	4	1	0	0	0	0
## 572	572	0	3	0	0	0	0	0	0	0	0	0
## 573	573	0	0	0	0	0	0	0	0	0	0	0
## 574	574	2	0	0	1	1	0	0	0	2	2	3
## 575	575	0	0	0	0	2	3	3	1	0	0	0
## 576	576	1	1	0	1	4	4	0	0	0	0	0
## 577	577	1	0	0	1	0	0	0	5	3	2	0
## 578	578	3	2	6	0	16	1	0	0	0	0	0
## 579	579	4	0	2	6	0	2	0	0	0	0	0
## 580	580	0	0	0	0	0	0	0	0	3	0	0
## 581	581	0	0	1	0	0	2	1	0	0	0	0
## 582	582	0	0	0	0	0	0	0	0	0	1	0
## 583	583	0	0	0	0	0	0	1	0	6	2	1
## 584	584	0	0	0	0	0	0	4	2	0	0	0
## 585	585	0	0	0	0	0	0	0	0	0	1	0
## 586	586	0	1	0	2	6	0	0	0	0	0	0
## 587	587	1	0	1	1	1	0	0	0	0	0	0
## 588	588	0	0	0	0	2	1	1	0	0	1	3
## 589	589	1	0	1	0	1	7	0	0	0	0	0
## 590	590	0	0	0	0	4	3	0	0	0	0	0
## 591	591	0	0	0	5	1	1	0	2	0	0	0
## 592	592	0	0	0	0	0	0	0	0	1	2	1
## 593	593	0	0	0	0	0	0	3	0	2	0	1
## 594	594	0	0	3	0	0	0	0	1	0	0	0
## 595	595	0	0	0	0	0	0	0	0	9	2	3
## 596	596	0	0	0	6	0	0	1	0	0	1	1
## 597	597	0	0	0	1	0	0	2	6	0	0	3
## 598	598	0	0	0	0	0	0	0	0	0	1	1
## 599	599	0	0	0	0	2	2	1	0	0	0	0
## 600	600	0	0	0	5	0	0	4	0	8	0	0
## 601	601	0	0	0	0	0	0	0	0	0	1	1
## 602	602	0	0	0	1	0	0	1	2	3	1	4
## 603	603	0	0	0	0	2	0	0	1	0	0	0
## 604	604	0	0	0	0	10	1	1	3	0	1	0
## 605	605	0	0	1	7	0	0	0	0	0	0	0
## 606	606	0	2	1	3	0	0	6	2	0	2	1
## 607	607	1	1	1	0	0	0	0	0	0	0	0
## 608	608	0	0	0	0	0	0	0	1	0	0	0
## 609	609	0	0	0	0	0	0	1	0	5	0	4
## 610	610	2	2	0	2	0	1	0	0	1	0	3
## 611	611	0	0	0	3	2	1	0	0	0	0	0
## 612	612	0	0	0	2	0	5	3	4	0	0	0
## 613	613	0	0	0	0	0	0	0	0	1	4	4
## 614	614	0	0	0	0	0	0	0	0	4	0	0
## 615	615	0	0	0	0	0	0	2	0	1	0	0
## 616	616	0	0	0	0	0	1	0	0	0	0	0
## 617	617	0	0	0	2	2	1	0	1	3	0	5
## 618	618	1	4	0	0	0	0	0	0	0	0	0
## 619	619	0	0	0	0	5	3	1	0	0	0	0
## 620	620	0	1	0	0	1	0	0	0	8	2	0
## 621	621	2	2	4	0	0	0	0	0	0	0	0
## 622	622	0	0	0	0	1	2	0	5	0	0	0
## 623	623	0	0	0	0	0	0	2	1	1	0	1
## 624	624	0	0	0	6	3	3	2	0	0	0	0

##	625	625	0	0	0	0	0	0	0	0	4	0	4
##	626	626	1	4	3	0	0	0	0	0	0	0	0
##	627	627	0	0	0	1	0	0	0	7	0	0	0
##	628	628	0	0	0	0	0	0	0	0	0	0	0
##	629	629	0	0	0	0	0	0	1	0	5	2	12
##	630	630	0	0	0	0	0	0	0	0	3	0	0
##	631	631	0	0	0	1	2	9	0	0	0	0	0
##	632	632	0	0	0	0	0	8	0	0	0	0	0
##	633	633	0	0	0	10	3	2	2	2	0	1	0
##	634	634	0	1	0	2	0	0	3	0	0	0	0
##	635	635	0	0	0	0	0	3	1	1	0	0	0
##	636	636	0	0	0	0	0	0	0	0	9	1	0
##	637	637	0	0	0	2	5	4	3	2	0	0	0
##	638	638	0	1	1	0	0	0	0	0	0	0	0
##	639	639	0	0	0	4	0	0	2	2	0	0	1
##	640	640	0	0	1	0	0	0	0	2	0	0	0
##	641	641	0	0	0	0	5	0	1	0	0	0	0
##	642	642	0	2	1	2	1	3	5	0	0	0	3
##	643	643	0	2	0	0	0	0	0	2	0	0	0
##	644	644	1	2	0	0	3	0	0	0	0	0	0
##	645	645	0	0	0	0	0	0	1	1	3	2	1
##	646	646	0	0	0	0	0	0	0	0	0	0	0
##	647	647	0	0	0	0	2	0	1	0	0	0	0
##	648	648	0	0	0	1	3	2	0	2	2	0	0
##	649	649	0	0	0	0	0	0	0	0	0	0	0
##	650	650	0	0	0	0	0	0	0	0	0	0	0
##	651	651	0	0	0	0	4	0	1	0	0	0	0
##	652	652	0	0	0	0	0	5	0	0	0	0	1
##	653	653	0	1	0	0	0	0	3	3	0	0	0
##	654	654	0	0	0	0	2	5	0	0	0	0	0
##	655	655	0	0	0	0	0	0	0	0	0	0	1
##	656	656	0	0	0	0	0	0	0	0	6	1	1
##	657	657	0	0	0	0	0	0	0	0	1	1	0
##	658	658	0	0	0	0	1	0	1	3	0	0	0
##	659	659	2	1	3	1	3	0	0	0	0	0	0
##	660	660	0	0	0	1	0	1	1	6	0	3	4
##	661	661	0	0	0	7	0	0	0	0	0	0	0
##	662	662	0	0	1	0	0	0	0	0	0	0	0
##	663	663	0	2	0	4	0	0	0	1	0	0	0
##	664	664	1	0	0	0	1	0	1	0	1	0	0
##	665	665	0	0	0	0	0	0	1	0	1	1	1
##	666	666	0	0	0	0	0	2	0	0	0	0	0
##	667	667	0	0	3	1	4	0	0	0	0	0	0
##	668	668	0	0	0	0	0	0	0	0	3	0	0
##	669	669	0	0	0	0	0	0	8	0	0	1	0
##	670	670	0	1	0	3	0	5	0	2	0	2	2
##	671	671	0	0	0	0	1	0	1	0	0	2	0
##	672	672	0	0	0	0	0	0	1	0	0	0	0
##	673	673	0	0	4	1	5	4	0	0	2	1	0
##	674	674	0	0	0	0	0	0	4	2	8	4	3
##	675	675	4	2	0	0	0	0	0	0	0	0	0
##	676	676	0	0	0	0	0	0	13	2	2	5	0
##	677	677	0	0	0	0	0	0	3	1	10	4	0
##	678	678	5	0	1	0	0	0	0	0	0	0	0

## 679	679	0	1	1	1	0	3	1	2	0	0	0
## 680	680	0	0	0	2	1	0	2	0	0	0	0
## 681	681	0	0	0	0	0	0	0	0	0	0	0
## 682	682	0	0	0	0	0	0	0	0	0	1	0
## 683	683	1	1	0	0	0	7	0	0	0	0	0
## 684	684	0	0	0	0	0	0	0	0	0	0	0
## 685	685	0	0	0	1	0	0	0	0	0	0	0
## 686	686	0	0	0	4	1	6	0	0	0	0	0
## 687	687	0	0	0	0	0	0	0	0	0	0	0
## 688	688	0	1	0	0	2	5	1	0	0	2	0
## 689	689	0	0	0	0	0	0	0	0	0	1	3
## 690	690	0	0	0	0	0	0	0	0	4	0	0
## 691	691	1	1	0	2	0	0	2	2	0	0	0
## 692	692	1	2	1	0	0	0	0	0	0	0	1
## 693	693	0	1	0	1	1	2	0	3	0	0	1
## 694	694	0	0	0	0	0	1	1	0	0	0	0
## 695	695	0	0	0	0	0	0	0	0	0	0	0
## 696	696	2	4	1	0	0	0	0	0	0	0	0
## 697	697	0	0	0	0	6	2	0	0	0	0	0
## 698	698	0	0	1	1	0	8	1	0	0	0	0
## 699	699	0	1	0	1	0	0	1	1	0	0	0
## 700	700	0	0	0	0	1	4	4	0	0	1	0
## 701	701	0	0	0	0	0	0	0	0	0	0	0
## 702	702	0	0	0	0	2	0	0	2	0	2	0
## 703	703	0	1	0	4	0	0	0	1	0	0	0
## 704	704	2	7	0	0	0	0	0	0	0	0	0
## 705	705	0	0	0	1	2	1	2	0	3	0	0
## 706	706	0	0	0	1	0	0	6	6	2	3	1
## 707	707	0	0	0	5	1	0	4	0	0	3	0
## 708	708	0	0	1	0	3	0	1	0	0	1	0
## 709	709	0	0	0	3	5	4	0	0	0	0	0
## 710	710	0	0	0	1	0	0	0	0	0	0	0
## 711	711	0	0	0	0	0	0	0	0	4	0	3
## 712	712	0	2	0	1	0	0	5	1	4	0	0
## 713	713	0	7	0	0	0	0	0	0	0	0	0
## 714	714	0	0	0	0	0	0	0	0	0	0	0
## 715	715	0	0	0	0	0	0	0	0	0	0	0
## 716	716	0	0	3	0	0	0	0	0	0	0	0
## 717	717	0	0	1	2	3	1	1	0	5	1	0
## 718	718	0	0	0	0	0	0	0	4	0	0	0
## 719	719	4	0	0	0	4	4	0	3	0	0	0
## 720	720	2	4	0	0	0	3	0	2	0	0	2
## 721	721	0	1	0	1	1	8	1	0	0	0	0
## 722	722	0	0	0	0	0	0	0	0	0	0	0
## 723	723	0	0	0	1	2	0	0	2	0	1	0
## 724	724	0	0	1	0	0	0	0	0	0	1	0
## 725	725	2	2	0	1	0	0	0	0	0	0	0
## 726	726	0	0	0	0	0	0	1	0	0	0	0
## 727	727	0	0	0	4	0	1	0	0	0	0	0
## 728	728	2	1	1	0	0	0	0	0	5	3	0
## 729	729	0	0	0	0	0	0	5	0	1	4	0
## 730	730	0	0	1	0	0	0	0	0	0	0	1
## 731	731	0	1	0	1	4	0	1	0	0	0	0
## 732	732	4	0	1	1	0	0	0	0	0	0	0

##	733	733	2	0	2	0	2	0	1	0	3	1	0
##	734	734	0	0	0	1	1	0	0	0	0	0	0
##	735	735	1	1	1	0	0	0	2	0	0	1	0
##	736	736	2	3	1	1	0	0	0	0	0	0	0
##	737	737	0	0	0	0	1	0	1	0	1	0	0
##	738	738	0	0	1	0	3	5	2	0	0	1	0
##	739	739	0	0	0	1	1	3	0	0	0	0	1
##	740	740	0	0	0	0	0	0	0	0	0	5	3
##	741	741	0	0	0	0	0	0	1	0	2	0	0
##	742	742	0	0	0	0	0	0	0	0	9	0	1
##	743	743	0	0	0	0	1	0	1	4	0	2	0
##	744	744	0	0	1	4	1	0	3	2	0	1	1
##	745	745	0	0	0	0	1	3	0	1	1	1	0
##	746	746	0	1	1	6	0	6	0	0	0	0	0
##	747	747	0	0	0	0	0	0	0	0	0	0	0
##	748	748	0	0	0	0	0	0	0	0	0	0	0
##	749	749	1	0	0	5	0	0	3	0	0	0	0
##	750	750	0	0	0	0	0	0	0	0	0	0	0
##	751	751	0	0	0	0	0	1	2	5	0	1	0
##	752	752	0	0	0	0	0	0	3	0	0	0	0
##	753	753	1	2	1	0	0	0	0	0	0	1	0
##	754	754	0	0	1	0	2	0	0	0	0	0	0
##	755	755	0	0	0	0	0	0	1	4	0	0	0
##	756	756	0	0	0	0	0	0	0	0	0	0	0
##	757	757	0	1	1	0	3	0	0	0	0	2	0
##	758	758	1	0	0	1	1	2	0	0	3	0	0
##	759	759	0	0	0	0	0	0	0	0	0	0	0
##	760	760	0	0	0	0	0	0	0	0	0	5	0
##	761	761	1	0	1	1	2	0	0	0	1	0	0
##	762	762	0	0	0	2	0	0	0	3	0	0	0
##	763	763	0	0	2	2	0	1	0	0	0	0	0
##	764	764	0	0	0	0	0	0	0	0	6	1	0
##	765	765	0	3	1	0	1	1	0	1	0	0	0
##	766	766	0	0	0	0	0	0	0	0	0	0	1
##	767	767	0	0	0	0	0	0	0	0	4	0	2
##	768	768	1	0	0	0	0	0	6	0	0	4	2
##	769	769	0	0	0	0	0	0	1	0	3	3	3
##	770	770	0	0	0	0	0	3	1	2	0	0	0
##	771	771	3	3	3	2	1	0	2	0	0	1	0
##	772	772	0	0	0	0	2	3	0	1	0	0	0
##	773	773	0	0	0	0	0	0	2	1	0	0	2
##	774	774	0	0	0	1	0	3	6	0	0	1	0
##	775	775	0	0	0	0	0	0	0	0	0	1	6
##	776	776	0	0	0	0	0	0	1	3	4	2	4
##	777	777	0	0	0	0	0	0	0	0	0	0	0
##	778	778	0	0	0	0	0	0	0	0	0	0	0
##	779	779	1	3	3	4	0	2	0	0	0	0	0
##	780	780	0	0	0	0	0	0	2	4	2	1	0
##	781	781	0	0	0	0	0	0	0	0	2	1	0
##	782	782	2	2	12	0	0	0	1	0	0	0	0
##	783	783	0	0	0	0	0	0	0	0	0	0	0
##	784	784	0	0	0	0	0	0	1	0	3	0	0
##	785	785	4	4	8	0	0	1	1	0	0	0	0
##	786	786	1	2	1	0	0	0	6	6	0	0	0

## 787	787	0	0	0	4	1	0	0	0	0	0	0	0
## 788	788	0	2	1	0	1	0	3	6	0	1	0	0
## 789	789	0	0	0	3	1	0	0	0	1	0	0	1
## 790	790	0	0	0	0	0	0	0	0	0	2	2	2
## 791	791	0	0	1	0	0	0	0	0	0	0	0	0
## 792	792	4	0	4	0	0	0	0	0	0	0	0	0
## 793	793	0	0	0	4	0	0	2	2	0	1	5	
## 794	794	0	0	0	0	4	1	0	2	0	1	1	
## 795	795	3	2	0	1	0	0	0	0	0	0	0	
## 796	796	1	0	0	0	0	1	1	0	0	1	0	
## 797	797	1	2	0	1	0	0	0	0	0	1	0	
## 798	798	0	0	0	0	0	0	0	2	1	4	0	
## 799	799	0	0	0	0	0	0	0	0	4	1	5	
## 800	800	0	0	1	0	3	0	2	0	0	0	0	
## 801	801	0	0	1	4	0	2	0	1	0	0	1	
## 802	802	0	0	0	0	0	0	1	0	1	0	1	
## 803	803	0	3	0	0	0	0	0	0	3	3	4	
## 804	804	0	0	0	0	0	1	0	0	0	0	0	
## 805	805	0	0	0	0	0	0	2	0	0	0	0	
## 806	806	0	0	0	0	1	2	0	0	0	0	0	
## 807	807	0	0	0	0	0	0	0	2	0	0	0	
## 808	808	0	0	0	0	0	3	0	0	0	0	0	
## 809	809	0	2	0	0	0	0	0	0	3	0	0	
## 810	810	0	0	1	3	0	0	8	6	0	0	0	
## 811	811	3	0	4	0	0	0	0	0	0	0	0	
## 812	812	2	1	0	0	0	0	0	0	0	0	0	
## 813	813	1	1	0	0	3	1	0	0	0	1	1	
## 814	814	0	0	0	0	1	5	0	0	0	0	0	
## 815	815	2	0	2	0	0	0	0	0	0	0	0	
## 816	816	0	0	0	0	0	0	1	0	0	0	1	
## 817	817	0	0	0	0	0	0	0	0	0	4	0	
## 818	818	0	0	0	0	0	0	0	0	0	0	0	
## 819	819	0	0	0	0	5	3	1	0	0	0	0	
## 820	820	2	1	0	0	0	0	0	0	0	0	0	
## 821	821	0	0	0	0	0	0	0	0	0	0	6	
## 822	822	0	0	1	0	3	2	0	0	0	0	0	
## 823	823	0	8	0	0	0	0	0	0	0	0	0	
## 824	824	0	4	1	0	1	0	0	0	0	0	0	
## 825	825	0	0	0	0	0	6	0	1	0	0	0	
## 826	826	0	0	1	3	5	0	1	1	0	0	0	
## 827	827	0	0	0	0	0	0	0	0	0	0	0	
## 828	828	2	2	3	0	0	0	0	0	0	0	0	
## 829	829	0	1	4	0	1	9	0	0	0	0	0	
## 830	830	0	1	0	0	0	0	0	0	0	0	0	
## 831	831	0	0	0	2	0	0	3	4	0	0	0	
## 832	832	0	0	1	0	2	1	2	0	0	3	0	
## 833	833	0	0	0	0	0	0	1	0	3	1	8	
## 834	834	0	0	0	0	0	0	0	0	2	2	2	
## 835	835	0	0	1	0	0	0	0	0	0	0	0	
## 836	836	0	0	0	0	0	0	1	3	0	0	0	
## 837	837	0	1	0	0	4	3	1	1	0	0	0	
## 838	838	0	0	0	2	0	0	0	0	0	0	0	
## 839	839	0	0	1	0	1	0	2	0	0	0	1	
## 840	840	0	0	0	0	1	1	2	1	0	1	0	

## 841	841	1	0	2	2	0	0	0	0	0	0	0
## 842	842	0	1	1	0	0	2	0	0	0	0	0
## 843	843	0	0	0	0	0	0	6	0	0	0	0
## 844	844	0	0	0	0	0	0	0	0	0	0	0
## 845	845	0	0	0	0	0	0	0	0	2	0	0
## 846	846	0	2	0	2	0	2	1	3	0	2	0
## 847	847	0	0	0	0	0	0	0	0	2	1	0
## 848	848	0	0	0	0	0	3	0	0	0	0	0
## 849	849	0	0	1	4	3	0	0	0	0	0	0
## 850	850	0	5	2	0	0	0	0	0	0	0	0
## 851	851	1	0	0	2	0	5	4	4	1	0	0
## 852	852	0	0	0	0	0	0	0	0	2	1	2
## 853	853	0	0	0	2	3	1	0	0	0	0	0
## 854	854	0	0	0	0	1	3	1	0	0	0	0
## 855	855	1	1	2	0	0	0	0	0	0	0	3
## 856	856	0	0	0	0	0	0	0	0	3	2	0
## 857	857	0	0	0	1	1	3	0	0	0	0	1
## 858	858	0	0	0	0	0	1	0	0	0	1	1
## 859	859	0	0	1	0	0	0	0	0	0	0	0
## 860	860	0	3	0	1	1	0	1	0	0	0	0
## 861	861	1	0	0	0	0	1	1	0	0	0	0
## 862	862	7	0	1	0	0	0	0	0	0	0	0
## 863	863	0	0	0	3	0	0	1	0	0	3	0
## 864	864	0	0	0	0	0	0	0	0	0	0	0
## 865	865	0	0	0	0	0	2	0	0	0	0	0
## 866	866	0	0	0	0	0	0	1	0	1	0	1
## 867	867	0	1	0	0	2	2	4	0	0	9	0
## 868	868	0	0	0	0	1	0	0	5	0	0	0
## 869	869	0	0	0	8	3	3	1	2	0	2	1
## 870	870	0	0	0	0	0	0	1	0	0	1	0
## 871	871	2	0	1	3	0	0	0	0	0	0	0
## 872	872	1	0	0	0	0	0	1	6	1	1	1
## 873	873	0	0	1	0	0	0	0	0	0	0	0
## 874	874	0	0	0	0	5	0	1	0	0	0	0
## 875	875	0	0	0	0	0	6	0	0	0	0	0
## 876	876	0	0	0	3	5	2	1	0	0	0	1
## 877	877	0	0	1	0	0	0	0	0	0	0	0
## 878	878	0	0	0	0	0	0	0	0	1	1	0
## 879	879	0	0	0	4	0	7	1	0	0	0	0
## 880	880	0	0	0	2	0	0	0	0	2	0	0
## 881	881	0	0	0	1	2	0	0	0	0	0	0
## 882	882	0	1	0	0	0	0	0	0	0	0	0
## 883	883	0	0	0	0	0	0	0	2	0	0	0
## 884	884	1	0	0	0	0	0	0	0	0	0	0
## 885	885	1	3	0	0	3	1	0	0	0	0	0
## 886	886	0	0	1	1	5	1	4	2	1	1	0
## 887	887	0	0	0	0	0	0	0	0	0	4	1
## 888	888	0	0	1	0	1	0	0	0	0	0	0
## 889	889	0	1	1	2	0	0	0	0	2	0	1
## 890	890	0	1	0	0	1	2	0	1	0	1	0
## 891	891	0	0	0	0	0	1	1	7	0	0	0
## 892	892	1	3	0	0	0	0	0	0	0	0	0
## 893	893	1	0	0	0	3	0	0	0	0	0	0
## 894	894	0	0	0	0	1	0	0	0	0	0	0

## 895	895	1	1	0	0	0	0	0	0	0	0	0
## 896	896	0	0	1	1	1	3	0	1	0	0	0
## 897	897	2	0	3	2	2	0	3	0	0	0	0
## 898	898	0	1	3	2	1	0	0	0	0	0	0
## 899	899	0	0	0	0	0	0	0	1	0	0	1
## 900	900	0	0	0	0	0	0	1	0	0	0	0
## 901	901	7	1	6	0	0	0	0	0	0	0	0
## 902	902	0	2	0	1	1	0	1	0	0	0	0
## 903	903	0	2	0	1	0	1	2	0	0	3	0
## 904	904	0	0	0	0	3	1	5	0	0	0	0
## 905	905	0	0	0	0	0	0	0	0	0	0	0
## 906	906	0	0	0	1	0	0	0	0	0	0	0
## 907	907	0	0	0	0	0	1	0	0	0	0	0
## 908	908	0	0	0	0	0	0	0	0	7	0	0
## 909	909	0	0	0	0	1	0	0	2	0	0	0
## 910	910	0	0	0	0	2	0	1	2	0	2	0
## 911	911	0	4	0	0	2	6	3	0	0	0	0
## 912	912	1	0	0	0	0	0	0	0	3	2	0
## 913	913	0	0	0	0	0	0	0	0	0	1	0
## 914	914	0	0	0	0	1	1	1	2	0	0	0
## 915	915	1	1	0	0	0	0	1	3	0	0	0
## 916	916	0	1	0	2	4	0	0	2	0	0	0
## 917	917	0	0	0	0	1	0	2	3	0	0	0
## 918	918	0	0	0	0	6	5	2	4	0	0	0
## 919	919	0	0	0	2	0	1	0	0	0	0	0
## 920	920	0	0	0	0	0	0	3	0	0	0	0
## 921	921	1	2	3	0	0	0	0	0	0	0	0
## 922	922	0	0	0	0	0	0	0	1	0	0	0
## 923	923	0	0	0	0	0	0	0	0	1	0	0
## 924	924	0	1	0	0	0	0	0	0	0	0	0
## 925	925	0	0	0	0	0	0	0	0	0	0	0
## 926	926	0	0	0	0	0	0	1	1	1	1	1
## 927	927	0	0	0	1	0	0	0	0	5	0	0
## 928	928	0	0	0	0	0	0	0	1	2	0	1
## 929	929	0	0	0	0	0	0	1	0	0	0	0
## 930	930	0	0	0	0	0	0	0	0	0	0	0
## 931	931	4	0	2	0	0	0	0	0	0	0	0
## 932	932	1	0	0	1	0	0	0	0	0	0	0
## 933	933	1	1	1	10	0	0	0	0	0	0	0
## 934	934	0	0	0	0	0	0	0	0	0	0	0
## 935	935	1	0	0	0	0	0	0	0	0	0	0
## 936	936	0	0	0	1	0	2	0	0	0	0	0
## 937	937	0	1	1	1	0	6	2	1	0	0	0
## 938	938	1	1	0	0	0	0	0	0	0	0	0
## 939	939	0	0	0	1	2	1	0	0	0	0	0
## 940	940	0	0	0	0	0	0	0	0	0	0	0
## 941	941	0	2	0	0	0	0	0	0	0	0	0
## 942	942	3	1	0	1	1	1	1	2	0	3	11
## 943	943	0	0	0	0	0	0	0	0	0	0	0
## 944	944	0	0	0	0	0	0	0	0	0	0	0
## 945	945	0	0	0	0	0	0	1	1	2	0	0
## 946	946	0	0	0	5	0	0	0	0	0	0	0
## 947	947	0	3	2	0	0	0	0	0	0	0	0
## 948	948	0	3	0	0	0	0	0	0	0	0	0

##	949	949	0	0	2	0	0	0	0	0	0	0	0
##	950	950	0	0	0	0	0	0	1	0	3	0	0
##	951	951	0	1	1	0	0	0	1	0	6	2	0
##	952	952	1	0	0	1	2	0	0	2	0	0	0
##	953	953	0	5	0	0	0	0	0	0	0	0	0
##	954	954	0	1	2	2	4	2	1	1	0	0	0
##	955	955	0	0	0	0	0	0	1	2	0	3	0
##	956	956	0	0	0	0	0	0	3	0	0	0	0
##	957	957	0	0	0	0	0	0	0	0	0	0	0
##	958	958	0	0	0	0	0	0	0	0	0	0	3
##	959	959	0	1	0	0	0	0	2	3	0	0	0
##	960	960	0	0	0	0	0	0	0	0	0	0	1
##	961	961	1	1	10	2	6	1	2	0	0	0	0
##	962	962	1	2	2	0	1	0	1	2	0	1	2
##	963	963	0	0	0	1	0	1	2	8	0	0	0
##	964	964	0	0	0	0	0	0	0	0	0	0	0
##	965	965	0	1	2	3	6	0	0	0	0	3	0
##	966	966	0	0	0	2	1	1	0	5	0	0	0
##	967	967	0	0	0	0	0	0	0	0	0	0	0
##	968	968	0	1	0	0	0	0	0	0	0	0	0
##	969	969	0	0	1	0	0	0	0	0	0	0	0
##	970	970	0	0	0	1	0	1	0	0	0	0	0
##	971	971	0	0	0	0	0	0	0	1	0	2	0
##	972	972	0	0	0	0	0	0	0	0	3	1	0
##	973	973	0	3	0	0	4	0	2	1	0	2	0
##	974	974	0	0	0	5	0	0	1	0	0	0	0
##	975	975	0	0	0	0	0	4	0	0	0	1	0
##	976	976	0	0	0	2	0	1	1	0	0	0	0
##	977	977	0	0	0	0	0	0	0	0	0	0	0
##	978	978	0	0	0	0	0	0	0	0	0	0	0
##	979	979	0	0	0	4	0	0	7	0	0	0	0
##	980	980	0	1	0	2	0	0	0	1	0	0	0
##	981	981	0	0	0	1	0	0	1	0	0	0	0
##	982	982	3	0	3	0	0	0	0	0	0	0	0
##	983	983	0	0	0	1	0	0	0	0	0	0	0
##	984	984	0	0	0	0	0	0	0	0	1	0	0
##	985	985	0	0	0	0	0	0	0	0	3	3	1
##	986	986	0	0	0	0	1	0	0	0	3	0	0
##	987	987	0	0	0	0	0	0	0	0	0	0	0
##	988	988	0	0	0	1	1	2	0	0	0	0	0
##	989	989	0	2	0	0	0	0	0	0	0	2	3
##	990	990	0	0	0	0	0	0	0	0	3	0	0
##	991	991	0	0	0	0	0	0	0	0	0	0	0
##	992	992	0	0	0	0	0	0	0	0	1	0	0
##	993	993	0	0	0	0	7	2	1	0	0	0	0
##	994	994	0	0	0	0	0	0	1	0	4	0	0
##	995	995	0	0	0	0	2	0	2	0	3	0	0
##	996	996	3	4	7	0	0	0	1	0	0	1	0
##	997	997	0	0	0	0	1	1	0	0	0	0	0
##	998	998	0	2	0	0	0	3	0	0	0	0	0
##	999	999	0	0	0	0	0	1	0	2	0	0	0
##	1000	1000	1	1	1	3	0	2	0	0	0	2	1
##	1001	1001	0	0	0	0	3	2	0	0	0	0	0
##	1002	1002	0	1	0	0	6	1	5	1	0	0	0

```

## 1003 1003 2 1 0 0 0 0 0 0 0 0 0 0 0
## 1004 1004 3 1 1 0 0 0 0 0 0 0 0 0 0 0
## 1005 1005 1 1 3 0 0 0 0 0 1 0 0 0 0 0
## 1006 1006 1 3 0 0 1 0 0 0 0 0 0 0 0 0
## 1007 1007 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1008 1008 0 0 0 0 2 0 0 0 0 4 1 0 0 0
## 1009 1009 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1010 1010 0 0 0 1 0 0 0 0 0 0 0 0 0 0
## 1011 1011 0 0 0 0 0 0 0 0 0 3 0 0 0 0
## 1012 1012 1 2 0 0 0 0 0 0 0 0 0 0 0 0
## 1013 1013 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1014 1014 0 0 0 0 0 0 0 0 3 0 0 0 0 0
## 1015 1015 0 0 0 0 0 0 0 2 2 0 0 0 0 0
## 1016 1016 0 0 0 0 0 0 0 5 0 0 0 0 0 0
## 1017 1017 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1018 1018 3 0 3 0 0 0 0 0 0 0 0 0 0 0
## 1019 1019 0 0 0 0 0 0 0 0 0 6 0 0 0 0
## 1020 1020 0 0 0 1 1 0 0 0 0 0 0 0 0 0
## 1021 1021 0 0 0 0 1 3 0 0 0 0 0 0 0 0
## 1022 1022 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1023 1023 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1024 1024 2 1 2 0 0 0 0 0 0 0 0 0 0 0
## 1025 1025 0 0 0 0 2 1 1 0 0 0 0 0 0 0
## 1026 1026 0 0 0 0 0 0 0 0 0 2 0 0 0 0
## 1027 1027 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1028 1028 0 0 0 0 1 0 0 0 1 0 1 0 0 0
## 1029 1029 0 0 0 2 1 2 0 0 0 0 0 0 0 0
## 1030 1030 0 1 0 0 0 0 0 0 0 0 0 0 0 0
## 1031 1031 3 1 0 0 0 0 0 0 0 0 0 1 0 0
## 1032 1032 0 1 0 0 0 0 0 0 0 0 0 0 0 0
## 1033 1033 0 0 0 0 0 0 0 2 2 0 0 0 0 0
## 1034 1034 0 0 0 1 3 1 3 0 3 3 3 0 0 0
## 1035 1035 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1036 1036 0 0 0 0 0 0 0 2 1 0 0 0 0 0
## 1037 1037 2 11 4 0 2 6 2 2 0 4 1 0 0 0
## 1038 1038 0 0 0 0 0 5 0 0 0 0 0 0 0 0
## 1039 1039 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1040 1040 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1041 1041 0 0 0 3 1 3 1 3 1 0 1 0 1
## 1042 1042 0 0 0 3 0 1 0 0 0 0 1 0 0 0
## 1043 1043 0 0 0 0 0 0 0 0 1 0 0 0 0 0
## 1044 1044 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1045 1045 0 0 0 0 0 0 0 0 0 1 0 0 0 0
## 1046 1046 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1047 1047 0 0 5 0 0 0 0 0 0 0 0 0 0 0
## 1048 1048 0 0 0 0 0 5 0 0 0 0 0 0 0 0
## 1049 1049 0 4 0 0 0 0 0 0 0 0 0 0 0 0
## 1050 1050 1 1 0 2 0 3 3 3 3 0 0 0 0 0
## 1051 1051 0 0 0 1 2 5 1 2 0 0 0 0 0 0
## 1052 1052 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1053 1053 0 0 0 0 0 0 1 2 1 0 0 0 0 0
## 1054 1054 0 0 0 1 2 1 1 0 0 0 0 0 0 0
## 1055 1055 1 0 1 0 0 0 0 0 0 0 0 0 0 0
## 1056 1056 0 2 0 0 0 0 0 0 0 0 0 0 0 0

```

## 1057 1057	0	0	2	0	1	5	0	0	2	3	0
## 1058 1058	0	1	1	0	2	4	9	8	0	2	0
## 1059 1059	1	0	0	0	0	3	0	1	0	0	1
## 1060 1060	0	0	0	0	0	0	1	4	0	1	0
## 1061 1061	0	0	0	0	0	0	0	5	0	3	0
## 1062 1062	0	0	0	0	0	0	0	0	0	0	0
## 1063 1063	0	0	0	1	0	0	0	1	1	2	0
## 1064 1064	0	0	0	0	0	0	2	0	0	0	0
## 1065 1065	0	0	0	0	0	0	0	0	0	0	0
## 1066 1066	0	0	0	0	0	0	0	0	0	0	0
## 1067 1067	4	1	2	0	0	1	0	0	0	0	0
## 1068 1068	0	0	0	0	0	0	0	0	0	0	0
## 1069 1069	0	0	0	0	0	0	0	0	0	0	0
## 1070 1070	0	1	3	0	1	0	0	0	0	0	0
## 1071 1071	0	0	0	0	1	0	0	0	0	0	0
## 1072 1072	0	0	0	0	0	0	0	1	0	0	0
## 1073 1073	0	0	0	0	0	0	0	0	0	0	0
## 1074 1074	0	0	0	0	0	0	0	0	0	0	0
## 1075 1075	0	0	0	0	0	0	0	0	0	0	0
## 1076 1076	0	0	0	0	0	0	0	0	0	0	0
## 1077 1077	3	1	0	0	1	0	1	0	0	0	0
## 1078 1078	0	0	0	0	0	0	0	0	2	0	0
## 1079 1079	0	0	0	0	0	0	5	0	0	0	0
## 1080 1080	0	1	0	0	0	0	0	0	0	0	0
## 1081 1081	0	2	0	0	0	0	0	0	0	0	0
## 1082 1082	0	0	0	1	2	2	0	0	0	0	0
## 1083 1083	0	0	0	0	0	0	0	5	0	0	0
## 1084 1084	0	1	0	0	0	0	0	1	1	1	4
## 1085 1085	0	0	0	0	0	0	0	0	0	0	0
## 1086 1086	0	0	0	1	1	1	0	0	0	0	0
## 1087 1087	0	0	0	0	0	0	0	0	1	0	1
## 1088 1088	0	0	1	3	0	1	0	0	0	0	0
## 1089 1089	0	0	0	0	0	0	0	0	0	0	0
## 1090 1090	0	0	0	0	1	3	0	0	2	1	0
## 1091 1091	0	0	0	0	0	0	0	0	0	1	0
## 1092 1092	0	0	0	1	0	1	0	2	0	0	1
## 1093 1093	1	0	1	0	0	0	0	0	0	0	0
## 1094 1094	1	3	0	0	0	0	0	0	0	0	0
## 1095 1095	0	0	0	0	0	0	0	0	0	0	0
## 1096 1096	0	0	2	0	1	0	0	0	0	0	0
## 1097 1097	0	0	0	0	6	0	3	2	1	0	5
## 1098 1098	0	0	0	0	0	0	3	2	0	3	0
## 1099 1099	0	0	0	0	0	0	0	0	2	0	0
## 1100 1100	0	0	0	0	0	3	3	0	0	0	0
## 1101 1101	1	1	0	2	2	2	2	1	0	0	0
## 1102 1102	0	0	0	0	0	0	0	2	0	0	0
## 1103 1103	0	0	0	0	0	0	3	0	0	1	0
## 1104 1104	0	0	0	0	2	1	1	0	0	0	0
## 1105 1105	0	0	0	0	0	0	0	0	0	0	0
## 1106 1106	0	0	0	0	0	5	0	0	0	0	0
## 1107 1107	0	0	0	0	0	0	2	0	0	0	0
## 1108 1108	0	2	0	1	1	0	0	0	0	0	0
## 1109 1109	0	0	5	0	0	0	0	0	0	0	0
## 1110 1110	0	0	0	1	0	0	1	3	0	0	0

## 1111 1111	0	0	0	0	0	0	0	0	0	0	0	0
## 1112 1112	0	0	0	0	0	0	0	0	0	0	0	0
## 1113 1113	0	0	1	0	0	3	0	0	1	0	0	0
## 1114 1114	0	0	0	0	0	0	0	0	3	0	7	
## 1115 1115	0	0	0	0	0	0	0	0	0	2	0	
## 1116 1116	0	0	0	0	0	0	1	0	0	0	0	
## 1117 1117	5	1	0	0	0	0	0	0	0	0	0	
## 1118 1118	2	1	0	0	0	0	0	0	0	0	0	
## 1119 1119	0	0	0	0	0	0	2	2	0	0	0	
## 1120 1120	0	3	1	0	0	1	2	7	0	1	0	
## 1121 1121	0	2	0	0	0	0	0	0	0	0	0	
## 1122 1122	1	1	0	0	0	0	0	0	0	0	0	
## 1123 1123	1	1	1	1	1	0	0	0	0	0	0	
## 1124 1124	0	0	0	0	0	0	0	0	3	0	0	
## 1125 1125	0	0	0	0	1	0	1	2	0	0	1	
## 1126 1126	0	0	0	0	0	0	0	0	4	0	1	
## 1127 1127	1	0	1	3	0	3	4	0	0	0	0	
## 1128 1128	0	0	0	0	0	0	0	0	0	0	5	
## 1129 1129	3	3	0	0	0	0	0	0	0	0	0	
## 1130 1130	1	2	0	0	0	0	0	0	2	0	1	
## 1131 1131	0	1	1	1	2	3	0	0	0	0	0	
## 1132 1132	0	0	0	0	0	0	1	0	2	0	0	
## 1133 1133	2	1	1	2	0	4	0	0	0	0	0	
## 1134 1134	0	0	0	0	3	0	0	0	1	0	0	
## 1135 1135	0	5	0	0	0	0	0	0	0	0	0	
## 1136 1136	0	0	0	0	0	1	0	0	0	0	0	
## 1137 1137	0	0	0	5	1	0	1	0	0	1	0	
## 1138 1138	0	0	0	1	0	0	2	0	0	1	0	
## 1139 1139	0	0	2	1	0	3	0	3	0	0	0	
## 1140 1140	0	0	0	0	1	0	1	2	0	0	0	
## 1141 1141	1	1	0	0	0	0	0	0	0	0	0	
## 1142 1142	0	0	0	0	0	0	0	1	0	0	0	
## 1143 1143	0	0	0	0	0	0	0	0	0	0	0	
## 1144 1144	0	0	0	0	4	3	0	0	0	0	0	
## 1145 1145	0	0	0	0	1	5	1	0	4	3	0	
## 1146 1146	0	0	0	0	0	0	0	0	0	0	0	
## 1147 1147	0	0	1	0	0	0	0	0	0	0	0	
## 1148 1148	0	0	0	0	0	0	1	0	0	0	0	
## 1149 1149	1	0	0	0	1	1	0	1	0	0	0	
## 1150 1150	0	1	0	0	0	0	0	0	0	0	0	
## 1151 1151	0	1	0	0	0	0	0	0	3	4	2	
## 1152 1152	0	3	2	1	0	1	0	3	0	0	0	
## 1153 1153	1	2	0	2	0	0	0	0	0	0	0	
## 1154 1154	3	2	2	0	0	0	0	0	0	0	0	
## 1155 1155	0	1	1	0	0	0	0	0	0	0	0	
## 1156 1156	0	0	0	0	0	0	0	0	0	0	0	
## 1157 1157	0	1	0	0	0	0	0	0	0	2	0	
## 1158 1158	0	0	0	0	1	0	0	0	0	0	1	
## 1159 1159	0	1	0	5	1	3	2	0	0	0	2	
## 1160 1160	0	0	0	1	0	2	0	2	2	0	3	
## 1161 1161	0	2	0	0	0	0	0	0	0	0	0	
## 1162 1162	0	0	0	1	1	2	2	1	0	0	0	
## 1163 1163	0	0	0	0	0	0	0	0	1	3	0	
## 1164 1164	0	0	1	1	0	0	1	0	0	0	0	

## 1165 1165	1	1	1	0	0	0	0	0	0	0	0
## 1166 1166	0	0	0	0	2	0	0	0	0	1	0
## 1167 1167	0	0	1	0	0	0	0	0	0	0	1
## 1168 1168	1	2	0	1	0	2	0	0	1	0	0
## 1169 1169	0	0	0	0	1	0	0	6	0	0	0
## 1170 1170	0	3	0	1	1	3	1	4	0	1	0
## 1171 1171	1	0	0	1	0	0	1	0	0	0	0
## 1172 1172	0	1	4	0	1	0	0	1	0	0	0
## 1173 1173	0	0	0	0	0	0	0	0	0	0	0
## 1174 1174	0	0	0	0	2	2	0	1	0	1	0
## 1175 1175	0	0	0	0	0	0	0	0	0	0	0
## 1176 1176	0	2	1	0	0	0	0	0	0	0	0
## 1177 1177	0	0	1	0	1	1	1	0	0	0	0
## 1178 1178	0	0	0	0	0	1	1	1	0	0	0
## 1179 1179	0	1	0	0	3	0	0	0	0	0	0
## 1180 1180	0	0	0	0	0	1	0	0	0	0	0
## 1181 1181	0	0	0	0	0	5	0	0	0	0	0
## 1182 1182	1	0	0	0	0	0	0	0	0	0	0
## 1183 1183	0	0	0	0	0	0	0	0	0	0	0
## 1184 1184	0	1	4	0	0	0	0	0	0	0	0
## 1185 1185	0	0	0	1	1	0	0	0	0	0	0
## 1186 1186	0	1	0	1	0	0	1	0	0	0	1
## 1187 1187	0	0	0	1	0	0	1	1	0	0	0
## 1188 1188	0	1	0	0	1	3	0	0	0	0	0
## 1189 1189	0	0	0	0	0	0	0	0	0	0	0
## 1190 1190	1	0	0	0	0	0	0	0	0	0	0
## 1191 1191	0	0	0	0	0	0	0	0	0	0	0
## 1192 1192	0	0	0	0	0	0	1	1	0	0	2
## 1193 1193	0	0	1	0	2	0	2	2	0	0	0
## 1194 1194	0	0	0	0	0	0	0	0	0	0	0
## 1195 1195	0	2	0	0	3	0	0	0	0	0	0
## 1196 1196	0	0	0	0	0	0	1	2	0	0	0
## 1197 1197	1	1	0	0	0	0	0	0	0	0	0
## 1198 1198	1	0	0	0	0	0	0	0	0	0	0
## 1199 1199	0	0	0	0	0	0	0	0	0	0	0
## 1200 1200	0	0	0	0	3	0	1	0	0	0	0
## 1201 1201	0	0	0	0	0	0	0	0	0	0	0
## 1202 1202	0	0	0	4	0	2	0	0	0	0	0
## 1203 1203	2	0	0	0	0	0	0	0	0	0	0
## 1204 1204	1	0	1	0	0	1	0	0	0	0	0
## 1205 1205	0	0	0	0	0	4	0	0	0	0	0
## 1206 1206	1	1	0	0	0	0	0	0	0	0	0
## 1207 1207	3	1	0	0	0	0	0	0	0	0	0
## 1208 1208	0	0	0	0	0	0	0	0	0	0	0
## 1209 1209	4	0	1	0	0	0	0	0	0	0	0
## 1210 1210	0	0	0	0	0	0	0	0	0	0	0
## 1211 1211	0	0	0	0	0	0	0	0	0	0	0
## 1212 1212	1	6	0	0	0	0	0	0	0	0	0
## 1213 1213	0	0	0	0	0	0	0	0	0	1	0
## 1214 1214	0	0	0	0	0	1	1	0	0	0	0
## 1215 1215	0	1	0	0	1	3	0	0	0	0	0
## 1216 1216	0	0	0	0	0	0	0	0	0	0	0
## 1217 1217	0	0	0	0	1	2	0	0	0	0	0
## 1218 1218	0	4	0	0	0	0	0	0	0	0	0

## 1219	1219	0	0	0	0	0	0	0	0	0	0
## 1220	1220	0	0	0	0	2	0	0	0	0	0
## 1221	1221	0	0	0	0	0	0	0	0	0	0
## 1222	1222	0	0	0	0	0	0	0	0	0	0
## 1223	1223	0	1	1	0	0	0	0	0	0	0
## 1224	1224	0	0	0	0	0	1	0	0	0	2
## 1225	1225	0	0	0	0	0	0	0	2	0	0
## 1226	1226	1	0	0	0	0	0	0	0	0	0
## 1227	1227	0	0	0	0	0	0	0	0	0	0
## 1228	1228	0	0	0	0	0	0	0	0	0	0
## 1229	1229	1	0	2	0	0	0	0	0	0	0
## 1230	1230	0	0	0	0	1	0	0	0	3	1
## 1231	1231	0	1	0	0	0	0	0	0	0	0
## 1232	1232	0	0	0	0	4	2	1	0	0	0
## 1233	1233	0	0	0	2	0	0	0	0	0	0
## 1234	1234	0	0	0	0	0	0	0	0	0	1
## 1235	1235	0	0	0	0	1	1	2	0	0	0
## 1236	1236	1	1	0	0	0	0	0	0	0	0
## 1237	1237	0	1	0	0	0	0	0	0	0	0
## 1238	1238	0	0	0	0	0	0	0	0	0	0
## 1239	1239	0	0	0	0	0	0	0	0	0	0
## 1240	1240	0	2	0	0	0	0	0	0	0	0
## 1241	1241	0	0	2	0	1	0	0	0	1	0
## 1242	1242	2	3	2	1	2	0	0	1	0	1
## 1243	1243	1	4	0	2	2	0	3	0	0	0
## 1244	1244	0	0	0	0	0	0	0	0	0	0
## 1245	1245	1	0	0	0	0	0	0	0	0	0
## 1246	1246	0	0	0	0	0	0	0	0	0	0
## 1247	1247	0	0	0	0	0	0	0	0	0	0
## 1248	1248	0	0	1	0	0	0	0	0	0	0
## 1249	1249	1	3	0	0	0	0	0	0	0	0
## 1250	1250	0	0	0	0	0	0	0	0	0	0
## 1251	1251	0	2	0	0	0	0	0	0	0	0
## 1252	1252	0	0	0	0	1	0	1	3	0	0
## 1253	1253	0	1	0	0	0	0	2	0	4	2
## 1254	1254	0	0	0	0	0	2	0	0	0	0
## 1255	1255	0	0	0	2	1	0	0	1	0	0
## 1256	1256	3	2	2	0	0	0	0	0	0	0
## 1257	1257	0	0	1	1	0	0	0	0	0	0
## 1258	1258	0	4	0	0	0	0	0	0	0	0
## 1259	1259	1	0	1	0	1	0	0	0	0	0
## 1260	1260	0	0	0	0	0	0	0	0	0	1
## 1261	1261	0	0	0	0	0	0	1	0	0	0
## 1262	1262	0	0	0	0	0	0	0	0	0	0
## 1263	1263	0	0	0	4	0	0	0	0	0	0
## 1264	1264	0	1	0	0	0	0	0	0	0	0
## 1265	1265	0	0	0	0	0	0	0	0	0	0
## 1266	1266	0	0	0	0	0	1	2	0	0	0
## 1267	1267	0	0	0	0	0	0	0	1	0	0
## 1268	1268	0	0	0	2	0	1	0	0	0	0
## 1269	1269	0	0	0	0	4	1	2	0	0	0
## 1270	1270	0	0	0	0	0	0	0	0	1	0
## 1271	1271	0	0	0	0	0	0	1	0	1	0
## 1272	1272	1	0	0	0	1	0	1	0	0	1

## 1273	1273	0	0	0	1	0	0	0	1	0	0	0
## 1274	1274	0	0	0	4	1	2	1	0	0	1	0
## 1275	1275	1	0	0	0	0	1	0	0	0	0	0
## 1276	1276	0	0	0	0	0	0	1	3	0	0	0
## 1277	1277	0	0	0	0	0	0	0	0	0	0	0
## 1278	1278	0	0	0	0	0	4	0	0	0	0	0
## 1279	1279	0	0	0	0	2	0	0	0	0	0	0
## 1280	1280	0	0	0	0	2	2	0	0	0	0	0
## 1281	1281	0	0	0	0	0	0	2	1	0	0	0
## 1282	1282	0	0	0	0	0	0	0	0	0	0	0
## 1283	1283	0	0	0	0	0	0	0	0	0	0	0
## 1284	1284	1	2	2	1	2	0	0	0	0	0	0
## 1285	1285	0	0	0	1	1	2	0	0	0	0	0
## 1286	1286	1	1	0	0	0	0	3	0	0	0	0
## 1287	1287	0	0	0	0	2	0	0	0	0	0	0
## 1288	1288	0	2	0	0	1	0	0	0	0	0	0
## 1289	1289	0	0	1	1	0	0	0	0	0	0	0
## 1290	1290	0	0	0	0	0	0	0	0	0	0	0
## 1291	1291	0	3	0	0	1	0	1	0	2	0	0
## 1292	1292	0	2	3	0	0	0	0	0	0	0	0
## 1293	1293	0	0	0	0	0	0	0	0	0	0	0
## 1294	1294	0	0	0	0	1	0	0	0	0	1	0
## 1295	1295	0	0	0	0	0	0	0	0	4	0	0
## 1296	1296	2	0	0	0	2	1	1	3	0	0	0
## 1297	1297	0	0	0	0	1	0	2	0	0	0	0
## 1298	1298	0	0	0	0	0	0	1	0	0	0	0
## 1299	1299	0	0	0	0	0	0	0	0	0	0	0
## 1300	1300	4	0	0	0	0	0	0	0	0	0	0
## 1301	1301	0	0	0	0	0	0	3	1	0	0	0
## 1302	1302	0	0	0	0	0	0	0	0	0	0	0
## 1303	1303	0	0	0	0	0	0	0	0	0	1	1
## 1304	1304	0	0	0	0	0	0	0	0	1	0	0
## 1305	1305	0	0	0	0	0	0	0	0	0	0	0
## 1306	1306	0	0	0	0	0	0	0	1	0	1	0
## 1307	1307	0	0	0	0	0	0	0	0	1	0	2
## 1308	1308	0	4	0	0	0	0	0	0	0	0	0
## 1309	1309	0	0	0	4	0	0	0	0	0	0	0
## 1310	1310	0	0	4	0	0	0	0	0	0	0	0
## 1311	1311	0	0	0	0	0	0	0	0	0	0	0
## 1312	1312	0	1	0	0	0	0	0	0	0	0	0
## 1313	1313	0	0	0	0	0	0	0	0	4	0	0
## 1314	1314	0	0	0	1	0	0	1	0	2	1	0
## 1315	1315	2	1	3	0	0	0	0	0	0	0	0
## 1316	1316	0	1	0	3	0	5	0	0	0	0	0
## 1317	1317	2	1	0	1	1	1	0	4	0	0	0
## 1318	1318	0	0	1	0	0	0	0	0	0	0	0
## 1319	1319	0	1	1	0	0	1	0	0	0	0	0
## 1320	1320	0	0	0	0	0	0	0	4	0	0	0
## 1321	1321	2	0	0	0	0	0	0	0	0	0	0
## 1322	1322	0	0	0	0	0	0	3	0	1	0	0
## 1323	1323	0	0	0	0	0	0	0	2	3	0	0
## 1324	1324	0	0	0	0	0	0	0	0	0	6	1
## 1325	1325	0	0	0	6	2	1	6	0	0	1	0
## 1326	1326	1	2	5	0	0	0	0	0	0	0	0

## 1327	1327	0	0	0	0	0	0	2	0	0	0	5
## 1328	1328	2	0	0	0	0	0	0	0	0	0	0
## 1329	1329	0	0	0	0	0	0	0	4	0	0	0
## 1330	1330	0	0	0	0	0	0	0	2	0	1	0
## 1331	1331	0	0	0	0	0	0	4	0	0	0	0
## 1332	1332	0	0	2	0	1	0	0	0	0	2	0
## 1333	1333	0	0	0	1	0	0	2	0	4	7	0
## 1334	1334	0	2	2	1	0	0	0	0	0	0	0
## 1335	1335	1	2	3	0	3	0	0	0	1	0	0
## 1336	1336	0	0	0	0	0	0	0	0	1	0	0
## 1337	1337	0	0	0	0	0	0	0	0	0	0	2
## 1338	1338	5	2	3	0	0	0	0	0	0	0	0
## 1339	1339	0	0	0	0	0	0	0	1	2	3	0
## 1340	1340	0	0	1	0	3	0	0	0	0	0	0
## 1341	1341	0	0	0	0	0	0	0	0	1	0	0
## 1342	1342	0	0	0	0	0	0	0	0	0	0	3
## 1343	1343	0	0	0	0	0	0	0	0	4	0	1
## 1344	1344	0	0	0	0	1	0	0	0	0	0	0
## 1345	1345	1	0	0	1	0	0	1	3	0	0	0
## 1346	1346	0	0	0	0	0	0	0	0	0	0	0
## 1347	1347	0	0	0	0	0	0	3	0	4	11	3
## 1348	1348	0	0	0	0	5	0	0	0	0	0	0
## 1349	1349	0	0	0	0	0	0	0	0	0	1	0
## 1350	1350	0	0	1	1	2	1	0	5	0	0	0
## 1351	1351	0	0	0	0	2	1	2	1	0	0	0
## 1352	1352	0	1	0	0	0	0	0	0	0	0	0
## 1353	1353	2	0	0	0	2	0	0	0	0	0	0
## 1354	1354	0	0	0	1	0	1	1	0	0	0	0
## 1355	1355	0	0	0	0	3	2	4	1	0	1	1
## 1356	1356	3	0	0	0	0	0	0	0	0	0	0
## 1357	1357	1	0	1	0	0	0	0	0	0	1	0
## 1358	1358	0	0	0	0	0	0	1	0	0	3	1
## 1359	1359	0	4	0	0	0	0	0	0	1	0	1
## 1360	1360	0	0	0	0	3	0	0	0	0	0	0
## 1361	1361	0	0	0	0	1	0	0	1	0	2	0
## 1362	1362	0	0	0	0	0	0	0	2	0	0	0
## 1363	1363	0	0	0	0	0	2	0	0	0	0	0
## 1364	1364	0	0	0	0	0	0	1	0	3	6	1
## 1365	1365	0	1	1	3	4	4	8	3	0	0	0
## 1366	1366	0	0	0	0	0	0	0	0	0	0	0
## 1367	1367	0	0	0	0	0	0	0	0	3	0	0
## 1368	1368	0	0	0	0	0	0	2	3	0	0	0
## 1369	1369	0	0	0	0	0	0	0	0	1	1	0
## 1370	1370	0	0	0	0	2	0	0	0	0	1	0
## 1371	1371	0	0	0	0	3	0	0	0	0	0	0
## 1372	1372	0	0	0	0	0	0	0	0	0	0	3
## 1373	1373	0	0	0	0	0	1	0	0	0	0	0
## 1374	1374	0	0	0	0	2	0	0	0	0	0	0
## 1375	1375	0	0	0	0	4	0	0	0	0	0	0
## 1376	1376	2	1	1	0	0	0	0	0	0	0	0
## 1377	1377	0	0	0	2	1	0	0	1	0	0	0
## 1378	1378	0	0	0	0	0	0	0	0	0	0	0
## 1379	1379	0	0	0	1	0	0	1	0	0	0	0
## 1380	1380	0	2	2	1	0	1	0	1	0	0	0

## 1381 1381	0	0	0	0	0	0	0	0	0	2	0
## 1382 1382	0	0	0	0	0	4	0	0	2	0	0
## 1383 1383	0	0	0	0	0	0	0	0	2	0	0
## 1384 1384	2	0	0	0	0	0	0	0	0	0	0
## 1385 1385	1	0	1	0	7	4	0	0	0	1	0
## 1386 1386	0	0	0	1	0	0	0	0	0	0	0
## 1387 1387	0	0	0	1	0	0	0	1	0	0	1
## 1388 1388	0	0	0	0	1	2	1	0	0	0	0
## 1389 1389	0	0	0	0	0	0	0	0	0	0	0
## 1390 1390	0	0	0	0	0	0	0	0	0	0	0
## 1391 1391	1	1	0	0	0	0	0	0	0	0	0
## 1392 1392	0	0	0	3	0	2	0	1	0	0	0
## 1393 1393	1	0	0	5	1	8	7	1	0	0	0
## 1394 1394	0	0	0	0	0	0	0	0	0	0	0
## 1395 1395	0	0	0	0	4	0	0	0	0	0	0
## 1396 1396	1	0	1	0	0	0	2	5	0	0	1
## 1397 1397	0	0	0	0	0	0	0	0	0	0	2
## 1398 1398	0	0	0	2	1	0	0	0	0	0	0
## 1399 1399	0	0	0	0	0	0	0	0	0	0	0
## 1400 1400	1	0	0	0	0	0	0	0	0	0	0
## 1401 1401	0	0	0	1	2	0	0	2	0	0	0
## 1402 1402	0	0	0	0	0	4	0	0	0	0	0
## 1403 1403	0	0	0	0	0	0	0	0	0	0	0
## 1404 1404	0	0	0	0	0	0	0	0	0	0	0
## 1405 1405	0	0	0	0	0	0	0	0	0	0	0
## 1406 1406	0	0	0	2	0	0	0	0	0	0	0
## 1407 1407	0	0	0	0	0	0	0	0	0	0	0
## 1408 1408	0	0	0	0	0	0	0	0	0	0	3
## 1409 1409	0	0	0	0	0	0	0	0	0	0	0
## 1410 1410	0	1	0	3	0	0	0	0	0	1	0
## 1411 1411	0	0	0	0	4	0	0	0	0	0	0
## 1412 1412	0	0	0	0	3	0	0	0	0	0	0
## 1413 1413	1	0	1	0	0	0	0	0	0	0	0
## 1414 1414	0	0	0	0	4	0	0	0	0	0	0
## 1415 1415	0	0	0	1	0	5	2	1	0	0	0
## 1416 1416	0	0	0	0	0	0	0	0	0	0	0
## 1417 1417	0	0	0	0	0	0	0	2	0	1	0
## 1418 1418	0	0	0	0	0	0	0	0	0	0	3
## 1419 1419	0	0	0	5	0	0	0	1	0	0	0
## 1420 1420	0	4	1	0	0	0	0	0	0	0	0
## 1421 1421	1	3	0	0	0	0	0	2	0	0	0
## 1422 1422	0	0	0	0	0	0	0	0	0	0	0
## 1423 1423	0	0	0	0	0	0	0	0	0	1	4
## 1424 1424	5	0	2	0	0	0	0	0	0	0	0
## 1425 1425	0	0	1	1	0	0	0	0	0	1	2
## 1426 1426	0	0	0	0	0	0	0	0	3	1	6
## 1427 1427	0	3	0	1	0	0	0	0	0	0	0
## 1428 1428	0	0	0	0	0	0	0	0	0	0	0
## 1429 1429	1	0	0	2	1	0	0	0	0	0	7
## 1430 1430	0	0	0	0	0	0	0	0	1	0	0
## 1431 1431	0	0	0	0	0	0	4	0	0	0	0
## 1432 1432	0	0	0	0	0	0	0	6	0	0	0
## 1433 1433	0	0	0	0	0	0	0	0	0	0	0
## 1434 1434	0	0	0	2	0	0	0	0	0	1	0

```

## 1435 1435 0 0 0 0 0 0 0 0 0 0 0 0
## 1436 1436 1 1 0 1 0 0 0 2 0 0 0 0
## 1437 1437 0 2 2 3 0 0 0 0 0 0 0 0
## 1438 1438 0 0 0 0 0 3 0 0 0 0 0 0
## 1439 1439 0 0 0 0 0 0 0 0 0 0 0 0
## 1440 1440 0 0 0 0 4 0 0 0 0 0 0 0
## 1441 1441 0 0 0 1 1 1 1 9 0 1 0 0
## 1442 1442 0 0 0 5 0 0 0 0 0 0 1 3
## 1443 1443 0 0 0 0 0 0 0 0 0 0 0 0
## 1444 1444 0 0 0 0 0 0 0 4 1 0 0 0
## 1445 1445 0 0 0 0 4 0 0 0 0 0 0 0
## 1446 1446 0 0 2 0 0 0 0 0 0 0 0 0
## 1447 1447 0 0 0 0 0 0 0 6 2 0 0 3
## 1448 1448 0 0 0 0 0 0 0 0 0 3 0 1
## 1449 1449 1 1 0 3 2 0 2 0 0 0 0 0
## 1450 1450 0 0 1 0 0 1 0 0 0 0 0 0
## 1451 1451 0 0 0 0 4 0 0 0 0 0 0 0
## 1452 1452 0 0 0 0 0 0 1 0 0 0 1 1
## 1453 1453 0 0 0 0 0 0 0 0 0 0 0 0
## 1454 1454 0 0 0 0 0 0 0 0 0 0 0 0
## 1455 1455 0 0 0 0 0 0 0 0 0 0 0 0
## 1456 1456 0 0 0 1 1 2 0 1 0 0 0 0
## 1457 1457 0 0 0 0 0 0 0 0 0 0 1 3
## 1458 1458 0 0 0 0 0 4 0 0 0 0 0 0
## 1459 1459 2 2 0 1 14 0 0 0 0 0 0 0
## 1460 1460 0 0 0 0 0 0 2 1 0 0 0 0
## 1461 1461 0 0 0 5 0 0 0 1 0 0 0 0
## 1462 1462 1 1 0 0 0 0 0 0 0 0 0 0
## 1463 1463 0 0 0 0 0 0 0 0 3 0 0 0
## 1464 1464 0 0 0 1 1 1 2 2 0 0 0 0
## 1465 1465 0 0 0 0 0 0 0 0 0 0 0 0
## 1466 1466 1 0 0 0 0 0 0 0 0 0 0 0
## 1467 1467 0 0 0 0 1 0 0 0 0 0 0 0
## 1468 1468 2 0 4 0 0 0 0 0 0 0 0 0
## 1469 1469 2 1 0 0 1 0 0 0 0 0 0 0
## 1470 1470 1 0 0 1 0 0 0 0 0 0 0 0
## 1471 1471 0 1 0 0 3 0 1 1 0 1 0 0
## 1472 1472 1 1 1 0 1 0 5 2 0 0 0 1
## 1473 1473 0 0 0 0 0 0 0 0 0 0 1 1
## 1474 1474 0 0 0 0 0 0 0 1 0 0 0 0
## 1475 1475 4 1 0 0 0 0 0 0 0 0 0 0
## 1476 1476 0 0 0 0 1 1 0 0 0 0 0 0
## 1477 1477 0 0 0 0 0 0 1 2 0 0 0 0
## 1478 1478 0 2 0 1 0 1 0 0 0 0 0 0
## 1479 1479 0 0 0 0 0 0 3 0 0 0 0 0
## 1480 1480 0 0 0 0 0 0 1 0 0 0 0 0
## 1481 1481 0 0 0 0 1 0 0 0 0 0 0 0
## 1482 1482 0 0 0 0 0 0 1 0 0 0 0 0
## 1483 1483 0 0 0 4 0 0 1 1 0 0 0 0
## 1484 1484 0 0 0 0 5 0 0 0 0 0 0 0
## 1485 1485 1 0 0 0 1 0 0 0 0 0 0 0
## 1486 1486 1 1 0 1 0 0 0 0 0 0 0 0
## 1487 1487 0 0 0 0 0 0 0 0 1 0 0 0
## 1488 1488 0 5 0 0 0 0 0 1 0 1 0 0

```

## 1489	1489	0	0	0	0	4	4	1	0	0	0	0
## 1490	1490	1	0	0	0	0	0	0	0	0	0	0
## 1491	1491	0	0	0	0	0	0	0	0	0	0	0
## 1492	1492	0	0	0	0	0	0	1	0	0	0	0
## 1493	1493	0	0	0	0	0	0	8	2	0	1	0
## 1494	1494	0	0	0	2	1	1	2	0	0	0	0
## 1495	1495	1	4	2	3	4	0	0	0	0	0	0
## 1496	1496	0	0	0	0	0	2	0	0	1	0	2
## 1497	1497	0	0	0	0	0	0	1	2	0	0	0
## 1498	1498	0	0	0	0	0	0	0	0	0	0	0
## 1499	1499	0	1	0	4	0	1	0	3	0	0	0
## 1500	1500	1	0	0	0	0	0	0	0	0	0	0
## 1501	1501	0	0	0	0	3	0	0	1	0	2	0
## 1502	1502	0	0	0	0	0	4	0	0	0	0	0
## 1503	1503	0	0	0	0	0	0	0	0	5	0	0
## 1504	1504	1	0	0	0	0	0	0	0	0	0	0
## 1505	1505	0	0	0	0	0	4	0	0	0	0	0
## 1506	1506	0	0	0	0	1	0	0	0	0	0	0
## 1507	1507	0	0	0	0	0	1	0	0	0	0	0
## 1508	1508	0	2	1	0	0	0	0	0	0	0	0
## 1509	1509	0	0	0	0	0	0	0	0	0	0	0
## 1510	1510	0	0	0	0	0	0	1	1	0	0	0
## 1511	1511	0	0	0	0	0	0	0	0	0	0	1
## 1512	1512	0	0	0	0	0	0	0	0	1	0	0
## 1513	1513	0	0	0	0	0	0	0	0	0	0	2
## 1514	1514	0	0	0	0	0	0	0	0	4	0	0
## 1515	1515	0	0	0	0	0	5	0	0	0	0	0
## 1516	1516	0	0	0	0	3	2	1	0	0	0	0
## 1517	1517	0	3	2	1	1	0	0	0	0	0	0
## 1518	1518	0	0	0	0	0	4	0	0	0	0	0
## 1519	1519	0	0	0	1	1	0	0	1	0	0	0
## 1520	1520	0	0	0	1	0	3	0	1	0	0	0
## 1521	1521	0	0	0	0	0	0	0	0	0	0	0
## 1522	1522	0	0	0	0	3	0	0	0	0	0	0
## 1523	1523	0	2	0	0	0	1	1	0	0	0	0
## 1524	1524	0	0	0	0	0	0	0	1	2	3	0
## 1525	1525	0	0	0	0	0	0	0	0	0	0	0
## 1526	1526	0	0	0	0	0	0	1	0	0	0	0
## 1527	1527	0	0	0	0	0	0	3	0	0	0	0
## 1528	1528	0	0	0	0	0	0	3	0	0	0	0
## 1529	1529	1	0	0	5	2	1	2	0	1	0	0
## 1530	1530	0	0	1	0	0	4	0	0	0	0	1
## 1531	1531	0	0	0	0	0	0	0	0	0	0	0
## 1532	1532	0	0	0	0	0	0	0	0	0	0	0
## 1533	1533	0	0	0	0	0	0	0	0	0	0	0
## 1534	1534	0	0	0	0	0	0	0	0	0	0	0
## 1535	1535	0	0	0	0	0	3	0	0	0	0	0
## 1536	1536	0	0	1	0	4	3	0	0	0	0	0
## 1537	1537	0	0	0	0	0	0	0	0	1	0	0
## 1538	1538	0	0	0	0	0	0	0	0	0	0	0
## 1539	1539	0	0	0	0	0	0	0	1	0	1	0
## 1540	1540	0	0	0	0	0	0	0	4	0	0	1
## 1541	1541	0	0	0	0	0	2	0	0	0	0	0
## 1542	1542	0	0	0	0	0	0	1	0	0	0	0

## 1543	1543	0	0	0	0	4	0	0	0	0	0	0
## 1544	1544	0	0	0	0	0	0	0	0	0	0	0
## 1545	1545	0	0	0	0	0	0	1	3	1	0	0
## 1546	1546	0	1	3	0	0	0	0	0	0	0	0
## 1547	1547	0	0	0	0	0	0	0	0	5	0	0
## 1548	1548	0	0	0	0	0	0	0	0	0	2	3
## 1549	1549	1	1	2	0	0	0	0	0	0	0	0
## 1550	1550	0	0	0	0	0	0	0	4	0	0	0
## 1551	1551	1	2	0	0	0	0	0	0	0	0	0
## 1552	1552	0	1	0	1	2	0	2	0	0	0	0
## 1553	1553	0	0	0	0	0	0	0	0	0	0	0
## 1554	1554	0	0	0	0	0	0	0	0	1	0	2
## 1555	1555	0	0	0	0	1	1	1	0	0	0	0
## 1556	1556	0	0	0	0	0	0	0	1	4	0	1
## 1557	1557	0	1	0	0	0	2	0	0	0	0	0
## 1558	1558	0	0	0	0	0	0	0	0	0	0	0
## 1559	1559	0	0	1	0	2	1	0	0	0	0	0
## 1560	1560	0	0	0	0	0	0	0	0	0	0	0
## 1561	1561	0	0	0	0	5	0	0	0	0	2	0
## 1562	1562	0	4	1	1	0	0	0	1	0	1	0
## 1563	1563	0	0	0	1	0	0	0	0	0	0	1
## 1564	1564	1	4	0	0	0	0	0	0	0	0	0
## 1565	1565	0	4	0	1	0	0	0	0	0	0	0
## 1566	1566	0	0	0	0	0	0	0	0	2	3	2
## 1567	1567	0	4	0	0	0	0	0	0	0	0	0
## 1568	1568	1	1	2	0	0	1	1	3	0	0	0
## 1569	1569	0	0	0	0	0	0	0	0	3	1	1
## 1570	1570	0	0	0	0	0	1	0	0	0	0	0
## 1571	1571	0	0	0	4	3	3	2	2	0	0	0
## 1572	1572	0	0	0	2	0	0	0	1	0	1	3
## 1573	1573	0	1	0	1	2	1	2	0	0	0	0
## 1574	1574	0	0	0	0	0	0	2	4	0	0	0
## 1575	1575	0	0	0	0	0	0	2	0	0	0	0
## 1576	1576	1	0	3	0	0	0	0	0	0	0	0
## 1577	1577	0	0	0	0	4	0	0	0	0	0	0
## 1578	1578	0	0	0	0	0	0	0	0	0	0	0
## 1579	1579	0	0	0	0	0	1	0	0	0	0	0
## 1580	1580	0	0	0	0	0	0	4	0	3	1	0
## 1581	1581	0	0	0	0	0	0	0	0	0	0	0
## 1582	1582	0	0	0	0	0	0	0	1	0	0	0
## 1583	1583	0	2	0	0	0	0	0	0	0	0	0
## 1584	1584	0	0	0	0	0	0	0	0	0	2	0
## 1585	1585	0	1	3	2	0	0	0	0	0	0	0
## 1586	1586	0	0	0	0	0	0	0	0	0	0	3
## 1587	1587	0	0	0	0	0	0	0	0	0	0	0
## 1588	1588	0	3	0	0	0	0	1	0	0	1	0
## 1589	1589	0	1	1	0	0	0	0	0	0	0	0
## 1590	1590	0	0	0	0	0	0	0	0	2	0	0
## 1591	1591	0	0	0	0	0	0	0	0	0	0	0
## 1592	1592	0	0	1	0	4	2	0	0	0	0	0
## 1593	1593	0	0	0	0	0	0	0	0	0	0	0
## 1594	1594	0	3	0	0	0	0	0	0	0	0	0
## 1595	1595	0	0	0	0	0	0	0	0	0	0	0
## 1596	1596	0	0	0	4	0	0	0	0	0	0	0

## 1597	1597	1	0	0	0	0	3	0	0	2	0	0
## 1598	1598	0	0	0	1	0	0	0	1	0	0	0
## 1599	1599	0	0	0	0	0	0	0	0	0	0	0
## 1600	1600	0	0	0	0	0	0	0	0	0	0	0
## 1601	1601	0	0	0	0	0	1	0	0	0	0	0
## 1602	1602	0	0	0	2	0	0	3	0	0	0	0
## 1603	1603	0	0	0	0	0	0	0	0	0	0	0
## 1604	1604	0	0	0	0	1	0	0	0	0	1	0
## 1605	1605	0	1	0	0	1	0	0	0	0	0	0
## 1606	1606	1	0	0	0	0	0	0	0	0	0	0
## 1607	1607	0	0	1	0	0	0	0	0	0	0	0
## 1608	1608	0	0	0	0	0	0	0	0	0	0	0
## 1609	1609	0	0	0	0	1	0	0	0	0	0	0
## 1610	1610	0	0	3	0	0	0	0	0	0	0	0
## 1611	1611	0	0	0	4	0	1	1	0	0	0	0
## 1612	1612	0	0	0	0	0	0	0	0	0	0	0
## 1613	1613	0	0	0	0	0	0	0	0	0	0	0
## 1614	1614	2	2	2	0	0	0	2	0	1	0	1
## 1615	1615	0	0	0	0	0	2	0	0	0	0	0
## 1616	1616	0	0	0	0	0	3	0	0	0	0	0
## 1617	1617	0	0	0	0	0	0	0	0	0	0	0
## 1618	1618	0	0	0	0	0	0	0	0	0	0	0
## 1619	1619	0	0	0	0	0	0	0	0	0	0	3
## 1620	1620	0	0	0	0	0	0	0	0	0	0	3
## 1621	1621	0	0	0	0	0	0	0	0	0	0	0
## 1622	1622	0	0	0	0	0	0	1	0	0	0	0
## 1623	1623	0	0	0	0	2	0	0	0	0	0	0
## 1624	1624	0	0	0	0	0	0	0	3	0	0	0
## 1625	1625	0	0	0	0	0	0	0	0	0	0	0
## 1626	1626	1	1	0	0	0	0	0	0	0	0	0
## 1627	1627	0	0	0	0	0	0	0	0	0	1	0
## 1628	1628	0	1	0	0	0	0	0	0	0	0	0
## 1629	1629	0	0	0	0	0	0	0	0	0	0	0
## 1630	1630	0	0	0	0	0	0	0	0	0	0	0
## 1631	1631	3	0	0	0	0	0	0	0	0	0	0
## 1632	1632	1	0	0	0	3	0	0	0	0	0	0
## 1633	1633	0	1	0	0	0	0	0	0	2	0	0
## 1634	1634	0	0	0	0	0	0	0	0	0	0	0
## 1635	1635	0	1	0	0	0	0	0	0	0	0	0
## 1636	1636	0	0	0	1	0	4	0	0	0	0	0
## 1637	1637	0	0	0	1	0	2	0	0	0	0	0
## 1638	1638	0	0	0	0	0	0	0	0	0	0	0
## 1639	1639	0	0	0	0	0	0	0	0	0	0	0
## 1640	1640	0	0	0	0	0	0	0	0	0	0	0
## 1641	1641	0	0	0	0	1	0	0	0	0	0	0
## 1642	1642	0	0	0	0	0	0	0	0	0	0	0
## 1643	1643	0	0	0	0	0	0	0	0	0	0	0
## 1644	1644	0	0	0	0	0	0	3	0	0	0	0
## 1645	1645	0	1	0	0	0	1	0	0	0	0	0
## 1646	1646	0	0	0	0	0	0	0	0	0	0	0
## 1647	1647	2	1	1	1	1	1	1	0	0	0	0
## 1648	1648	0	0	0	0	0	0	2	0	0	0	0
## 1649	1649	2	2	0	0	0	0	0	0	0	0	0
## 1650	1650	0	0	0	0	0	3	0	0	0	0	0

## 1651 1651	0	0	0	1	0	2	1	1	0	1	0
## 1652 1652	2	0	1	0	0	0	0	0	0	0	0
## 1653 1653	0	0	0	0	0	0	2	0	2	1	0
## 1654 1654	0	0	0	0	0	0	1	0	0	0	0
## 1655 1655	0	0	0	1	0	1	0	0	0	0	0
## 1656 1656	0	0	0	0	0	0	0	0	2	0	0
## 1657 1657	0	0	0	0	0	0	0	0	0	0	0
## 1658 1658	0	0	0	3	0	0	0	0	0	0	0
## 1659 1659	0	0	0	0	0	1	3	1	0	1	0
## 1660 1660	0	0	0	0	0	0	0	0	0	0	0
## 1661 1661	0	0	0	0	0	0	0	0	0	0	0
## 1662 1662	0	0	0	0	0	0	0	0	0	0	0
## 1663 1663	0	0	0	0	2	0	0	0	0	0	0
## 1664 1664	1	1	2	0	0	0	0	0	0	0	0
## 1665 1665	0	0	0	0	0	0	0	0	0	0	0
## 1666 1666	0	0	0	2	0	0	0	0	0	0	0
## 1667 1667	0	0	0	0	0	0	0	0	5	0	2
## 1668 1668	0	0	0	0	0	0	0	0	0	0	0
## 1669 1669	0	0	0	1	0	0	0	0	0	0	0
## 1670 1670	0	0	0	1	1	0	0	0	0	0	0
## 1671 1671	0	0	1	0	0	0	0	0	0	0	0
## 1672 1672	0	0	0	0	0	0	0	0	0	0	0
## 1673 1673	0	0	0	0	3	3	2	0	1	0	0
## 1674 1674	0	0	0	0	2	2	1	2	0	0	0
## 1675 1675	0	0	0	0	0	0	0	0	0	0	0
## 1676 1676	1	0	0	1	2	1	0	0	0	0	0
## 1677 1677	0	0	0	0	0	0	0	1	0	2	0
## 1678 1678	0	0	1	0	0	0	0	0	0	0	0
## 1679 1679	0	0	0	0	0	0	0	4	0	0	0
## 1680 1680	0	0	0	0	0	0	0	0	0	0	0
## 1681 1681	0	0	0	3	0	0	0	0	0	0	0
## 1682 1682	0	0	0	0	0	0	2	0	0	0	0
## 1683 1683	2	0	0	0	0	0	0	0	0	0	0
## 1684 1684	0	0	0	3	0	0	0	0	0	0	0
## 1685 1685	0	0	0	0	0	0	0	0	0	0	2
## 1686 1686	0	0	0	0	0	0	0	3	0	0	0
## 1687 1687	0	0	0	0	0	0	0	3	2	1	0
## 1688 1688	0	0	0	3	0	0	0	0	0	0	0
## 1689 1689	0	3	0	0	0	0	0	0	0	0	0
## 1690 1690	0	0	0	1	0	0	2	1	0	0	0
## 1691 1691	0	3	0	0	0	0	0	0	0	0	0
## 1692 1692	0	0	0	0	0	0	0	1	0	0	0
## 1693 1693	0	0	0	0	0	0	0	0	0	0	0
## 1694 1694	0	0	0	3	0	0	0	0	0	0	0
## 1695 1695	0	3	0	0	0	0	0	0	0	0	0
## 1696 1696	0	0	0	1	0	0	1	0	0	0	0
## 1697 1697	0	0	0	0	0	3	0	0	0	0	0
## 1698 1698	0	0	0	0	0	0	0	0	0	0	0
## 1699 1699	0	0	0	0	0	0	0	0	2	0	0
## 1700 1700	1	1	2	0	0	0	0	0	0	0	1
## 1701 1701	0	0	0	0	1	0	0	0	0	0	0
## 1702 1702	0	1	0	0	0	0	1	0	3	3	1
## 1703 1703	0	0	0	0	0	0	0	0	2	0	0
## 1704 1704	0	0	0	0	0	0	4	0	0	0	0

## 1705 1705	0	0	0	1	0	0	3	7	0	0	0
## 1706 1706	0	0	0	0	0	0	0	0	0	0	0
## 1707 1707	0	0	0	1	0	0	0	0	1	0	0
## 1708 1708	0	0	0	0	0	0	0	0	0	0	0
## 1709 1709	0	0	0	0	0	1	0	0	0	0	0
## 1710 1710	0	0	0	0	0	0	0	0	0	0	0
## 1711 1711	1	1	1	0	4	0	0	0	0	0	0
## 1712 1712	1	0	0	0	0	0	0	0	0	0	0
## 1713 1713	0	0	1	0	0	0	0	0	0	0	0
## 1714 1714	0	0	0	0	0	0	0	0	0	0	0
## 1715 1715	0	0	0	0	0	0	1	0	0	0	0
## 1716 1716	0	0	0	0	0	0	0	0	0	1	1
## 1717 1717	0	0	0	0	0	0	0	1	3	0	1
## 1718 1718	0	0	0	0	0	0	0	3	0	0	0
## 1719 1719	0	0	0	0	0	0	0	4	0	0	0
## 1720 1720	0	1	0	0	0	0	1	0	0	1	0
## 1721 1721	0	0	0	0	0	0	0	0	0	0	0
## 1722 1722	0	0	0	0	0	0	0	0	0	0	0
## 1723 1723	0	0	0	0	0	0	0	0	0	0	0
## 1724 1724	0	0	1	1	0	0	0	0	0	0	0
## 1725 1725	0	0	0	0	6	0	0	0	0	0	0
## 1726 1726	0	0	0	0	3	0	0	5	1	0	2
## 1727 1727	0	0	0	0	2	1	4	0	0	0	0
## 1728 1728	0	0	0	0	0	0	0	0	0	0	0
## 1729 1729	0	0	0	2	0	0	0	0	0	0	0
## 1730 1730	0	0	0	0	0	0	0	0	0	0	0
## 1731 1731	0	0	0	0	0	0	0	0	0	0	0
## 1732 1732	0	0	0	0	1	0	0	1	0	0	0
## 1733 1733	0	0	0	0	3	0	0	0	0	0	0
## 1734 1734	0	0	0	0	2	2	0	0	0	0	0
## 1735 1735	1	0	0	0	0	0	0	0	0	0	0
## 1736 1736	0	0	0	0	0	0	0	0	0	0	0
## 1737 1737	0	0	0	0	0	3	0	0	0	0	0
## 1738 1738	0	0	0	0	0	0	0	0	3	0	0
## 1739 1739	0	0	0	1	0	0	0	1	0	0	1
## 1740 1740	0	0	1	0	0	2	0	0	0	0	0
## 1741 1741	0	0	0	1	1	2	0	0	0	0	0
## 1742 1742	0	0	0	0	0	0	0	0	0	2	0
## 1743 1743	0	0	0	0	0	0	0	0	0	0	0
## 1744 1744	0	0	0	0	0	0	2	0	4	0	0
## 1745 1745	0	0	0	0	0	2	0	0	0	0	0
## 1746 1746	2	2	1	0	0	1	1	1	0	0	0
## 1747 1747	0	0	1	0	0	0	0	0	0	0	0
## 1748 1748	0	0	0	0	0	0	0	0	0	0	0
## 1749 1749	0	0	0	0	0	0	0	0	1	0	0
## 1750 1750	0	1	0	0	0	0	0	0	2	0	0
## 1751 1751	0	1	1	0	0	0	0	3	0	0	0
## 1752 1752	0	0	0	0	0	0	0	0	0	0	0
## 1753 1753	0	0	0	0	0	0	0	0	0	0	1
## 1754 1754	0	0	0	3	0	0	0	2	0	0	0
## 1755 1755	0	0	0	0	0	0	0	0	0	0	0
## 1756 1756	0	0	0	0	0	0	0	0	0	0	0
## 1757 1757	0	0	0	0	0	0	0	0	0	0	0
## 1758 1758	0	0	0	0	0	0	0	0	0	0	0

## 1759 1759	0	0	0	0	0	0	0	0	0	0	3
## 1760 1760	0	0	0	0	2	0	0	0	0	0	0
## 1761 1761	10	1	0	0	0	0	0	0	0	0	0
## 1762 1762	0	0	0	0	0	0	0	0	0	0	0
## 1763 1763	0	1	1	0	0	0	0	0	0	0	0
## 1764 1764	0	0	0	0	0	0	0	0	3	0	0
## 1765 1765	1	0	0	1	2	0	0	0	0	0	0
## 1766 1766	0	0	0	1	2	0	1	0	0	0	0
## 1767 1767	0	0	0	0	0	0	0	0	0	0	0
## 1768 1768	0	0	0	0	0	0	0	0	0	0	0
## 1769 1769	0	0	0	3	0	0	0	0	0	0	0
## 1770 1770	0	0	0	0	1	1	0	2	0	0	0
## 1771 1771	0	0	0	0	0	0	0	0	4	0	1
## 1772 1772	0	2	0	0	0	0	0	0	0	0	0
## 1773 1773	0	0	0	4	0	0	1	0	0	0	1
## 1774 1774	0	0	0	0	3	0	0	0	0	0	0
## 1775 1775	1	0	0	0	0	0	0	0	0	0	0
## 1776 1776	0	0	0	0	0	4	0	0	0	0	0
## 1777 1777	0	0	0	0	0	0	0	0	0	0	0
## 1778 1778	0	0	0	0	0	0	0	0	0	1	0
## 1779 1779	0	0	0	0	0	0	0	0	0	0	0
## 1780 1780	0	0	0	0	0	0	0	0	0	0	3
## 1781 1781	0	0	0	0	1	1	0	0	0	0	0
## 1782 1782	0	0	0	0	0	0	0	1	0	0	0
## 1783 1783	0	0	0	0	0	0	0	0	0	0	1
## 1784 1784	0	0	0	0	0	1	0	0	0	0	0
## 1785 1785	0	0	0	0	0	1	0	0	0	0	0
## 1786 1786	0	0	0	0	0	0	0	0	0	0	0
## 1787 1787	0	0	0	0	0	0	2	1	0	0	0
## 1788 1788	0	0	0	1	0	0	0	0	0	0	0
## 1789 1789	0	0	0	0	0	0	0	0	0	0	0
## 1790 1790	0	0	0	0	0	0	0	0	0	0	0
## 1791 1791	0	0	0	1	0	0	3	0	0	0	0
## 1792 1792	0	0	0	6	2	0	0	0	0	0	0
## 1793 1793	0	0	0	0	0	0	0	0	0	0	0
## 1794 1794	0	0	0	0	0	0	0	3	1	0	0
## 1795 1795	0	0	0	1	0	0	2	0	1	0	0
## 1796 1796	0	0	0	0	0	1	0	0	0	0	2
## 1797 1797	0	0	0	0	0	0	1	0	0	0	0
## 1798 1798	0	0	0	0	0	0	0	0	0	0	0
## 1799 1799	0	0	0	0	0	0	0	0	0	0	0
## 1800 1800	0	0	0	0	0	0	0	0	0	0	0
## 1801 1801	0	0	0	0	0	0	0	0	0	0	0
## 1802 1802	0	0	0	0	0	0	0	0	0	0	0
## 1803 1803	0	0	0	0	2	0	0	0	0	1	0
## 1804 1804	0	0	0	0	0	0	0	0	0	1	0
## 1805 1805	0	0	0	0	0	0	0	0	0	0	0
## 1806 1806	0	0	0	0	0	0	0	4	0	0	0
## 1807 1807	0	0	0	0	4	0	0	0	0	0	0
## 1808 1808	0	0	0	0	0	0	1	0	3	0	0
## 1809 1809	0	2	2	0	0	0	0	0	0	0	0
## 1810 1810	0	0	0	0	0	0	0	2	0	1	0
## 1811 1811	0	1	0	0	0	0	0	0	0	0	0
## 1812 1812	0	0	0	0	0	0	0	0	0	0	0

```

## 1813 1813 0 0 0 0 0 0 0 0 0 0 0 0
## 1814 1814 0 0 1 0 0 0 0 0 0 0 0 0
## 1815 1815 0 0 0 0 4 0 2 0 0 0 0 0
## 1816 1816 0 0 0 0 0 2 0 0 0 0 0 0
## 1817 1817 0 0 0 0 0 0 0 0 0 3 0 0
## 1818 1818 0 1 0 0 0 0 0 0 0 0 0 0
## 1819 1819 0 3 0 0 0 0 0 0 0 0 0 0
## 1820 1820 0 1 1 0 1 0 0 0 0 0 0 1 0
## 1821 1821 0 0 1 3 0 0 1 0 0 0 0 0 0
## 1822 1822 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1823 1823 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1824 1824 3 2 0 0 0 0 0 0 0 0 0 0 0
## 1825 1825 0 0 0 1 1 0 0 0 0 0 0 0 0
## 1826 1826 0 0 0 1 0 3 0 0 0 0 0 0 0
## 1827 1827 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1828 1828 0 2 0 0 0 0 0 0 0 0 0 0 0
## 1829 1829 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1830 1830 0 0 0 0 1 0 1 1 0 0 0 0 0
## 1831 1831 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1832 1832 0 0 0 1 0 0 0 0 0 0 0 0 0
## 1833 1833 0 0 0 0 0 3 0 0 0 0 0 0 0
## 1834 1834 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1835 1835 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1836 1836 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1837 1837 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1838 1838 0 0 0 3 0 0 0 0 0 0 0 0 0
## 1839 1839 0 3 0 0 0 0 0 0 0 0 0 0 0
## 1840 1840 0 0 0 0 0 5 0 0 0 0 0 0 0
## 1841 1841 0 0 0 0 0 3 0 0 0 0 0 0 0
## 1842 1842 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1843 1843 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1844 1844 0 0 0 0 1 2 1 1 0 0 0 0 0
## 1845 1845 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1846 1846 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1847 1847 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1848 1848 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1849 1849 0 0 0 0 0 0 0 0 1 0 0 0 0
## 1850 1850 0 0 0 0 0 2 0 0 0 0 0 0 0
## 1851 1851 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1852 1852 0 0 0 0 0 0 0 0 1 0 1 0 0
## 1853 1853 0 0 0 0 0 0 0 0 0 1 0 0 0
## 1854 1854 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1855 1855 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1856 1856 0 0 0 0 0 0 0 0 4 0 0 0 0
## 1857 1857 3 1 0 0 0 0 0 0 0 0 0 0 0
## 1858 1858 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1859 1859 0 0 0 0 0 0 0 1 3 0 0 0 0
## 1860 1860 0 0 0 0 0 0 0 0 0 0 0 0 0
## 1861 1861 1 0 0 0 0 0 0 0 0 0 0 0 0
## 1862 1862 0 0 0 0 0 3 0 0 0 0 0 0 1
## 1863 1863 0 1 0 0 2 0 1 0 0 0 0 0 0
## 1864 1864 0 0 0 0 3 0 0 0 0 0 0 0 0
## 1865 1865 0 0 0 0 2 0 1 0 0 0 0 0 0
## 1866 1866 0 0 0 0 0 0 0 0 0 3 0 0 0

```

## 1867 1867	0	0	0	0	0	0	0	0	0	0	0
## 1868 1868	0	0	0	0	0	0	4	3	0	1	0
## 1869 1869	0	0	0	3	0	0	0	0	0	0	0
## 1870 1870	0	0	0	0	0	1	0	0	0	0	0
## 1871 1871	0	0	0	0	1	1	1	0	0	0	0
## 1872 1872	0	0	0	0	0	0	0	0	0	0	0
## 1873 1873	0	0	0	0	0	0	0	0	0	0	0
## 1874 1874	0	0	3	0	0	0	0	0	0	0	0
## 1875 1875	0	0	0	0	0	0	0	0	1	0	5
## 1876 1876	0	0	1	0	0	0	0	0	0	0	0
## 1877 1877	0	0	0	0	0	0	0	0	0	0	0
## 1878 1878	1	0	0	0	0	0	0	0	0	0	0
## 1879 1879	0	0	0	0	2	0	0	0	0	0	0
## 1880 1880	0	0	0	0	0	0	0	2	0	0	0
## 1881 1881	2	0	3	0	0	2	2	0	0	0	0
## 1882 1882	0	0	0	8	0	0	1	0	0	0	0
## 1883 1883	1	0	1	0	0	0	0	0	0	0	0
## 1884 1884	0	0	0	0	0	0	0	0	0	0	0
## 1885 1885	0	0	0	1	1	0	0	1	0	0	1
## 1886 1886	0	0	0	0	0	0	0	0	3	0	0
## 1887 1887	0	0	0	0	0	0	0	0	0	0	0
## 1888 1888	0	0	0	1	2	0	0	0	0	0	0
## 1889 1889	0	0	0	3	0	0	0	0	0	0	0
## 1890 1890	0	0	0	0	0	0	0	2	0	0	0
## 1891 1891	0	0	0	0	2	1	0	0	0	0	0
## 1892 1892	0	0	0	0	0	0	0	0	0	0	0
## 1893 1893	0	0	0	0	0	0	1	0	0	0	0
## 1894 1894	0	0	0	0	0	0	0	0	0	0	0
## 1895 1895	0	0	0	2	0	0	0	0	0	0	1
## 1896 1896	0	0	0	0	0	0	0	0	0	0	0
## 1897 1897	0	0	0	0	0	0	0	0	0	0	0
## 1898 1898	0	1	0	0	0	0	0	0	0	0	0
## 1899 1899	0	3	1	0	0	0	0	0	0	0	0
## 1900 1900	0	0	0	0	3	0	0	0	0	0	0
## 1901 1901	0	0	0	0	0	0	0	0	4	0	0
## 1902 1902	0	1	0	0	0	0	0	0	0	0	0
## 1903 1903	2	0	2	0	0	0	0	0	0	0	0
## 1904 1904	0	0	0	0	3	0	0	0	0	0	0
## 1905 1905	0	0	0	0	0	0	0	0	0	0	0
## 1906 1906	0	0	0	0	0	0	0	0	0	0	0
## 1907 1907	0	0	0	1	0	3	0	0	0	0	0
## 1908 1908	0	0	0	0	0	0	0	0	0	0	0
## 1909 1909	0	0	0	0	0	3	0	0	0	0	0
## 1910 1910	0	0	0	0	0	0	0	0	0	0	0
## 1911 1911	0	0	0	0	0	0	1	0	0	0	0
## 1912 1912	0	0	0	0	0	4	0	0	0	0	0
## 1913 1913	0	0	0	0	0	0	0	0	0	0	0
## 1914 1914	1	1	1	1	1	1	0	1	2	0	0
## 1915 1915	0	0	0	0	0	2	0	0	0	0	0
## 1916 1916	0	0	0	0	1	0	0	0	0	0	0
## 1917 1917	0	0	0	0	0	0	0	0	0	0	0
## 1918 1918	3	0	0	0	0	0	0	0	0	0	0
## 1919 1919	0	0	1	0	0	0	0	0	0	0	0
## 1920 1920	0	0	0	0	0	0	0	0	3	0	0

## 1921	1921	0	0	0	0	0	0	0	0	0	0	0
## 1922	1922	1	0	0	0	0	0	2	0	0	0	0
## 1923	1923	0	0	0	2	0	2	0	0	0	0	0
## 1924	1924	0	0	0	0	0	0	2	0	0	0	0
## 1925	1925	0	0	0	0	1	0	0	0	0	0	0
## 1926	1926	0	0	0	0	0	1	0	3	0	0	0
## 1927	1927	0	0	0	0	0	0	0	0	0	0	0
## 1928	1928	0	2	1	0	1	1	0	1	0	0	0
## 1929	1929	0	0	0	0	0	0	0	0	0	0	0
## 1930	1930	0	0	1	1	0	1	0	0	0	0	0
## 1931	1931	0	0	0	2	0	1	0	0	0	0	0
## 1932	1932	0	0	0	0	0	0	1	0	0	0	0
## 1933	1933	0	0	0	0	0	0	0	0	0	0	1
## 1934	1934	0	0	0	0	0	0	0	0	0	0	0
## 1935	1935	0	0	0	0	0	1	0	0	0	0	0
## 1936	1936	0	0	0	0	0	0	0	0	0	0	0
## 1937	1937	0	0	0	0	0	0	0	0	0	0	0
## 1938	1938	0	0	0	0	0	0	0	0	0	0	0
## 1939	1939	2	1	1	0	0	0	0	0	0	0	0
## 1940	1940	0	0	0	0	0	2	0	0	0	0	0
## 1941	1941	1	0	0	0	0	0	0	0	0	1	0
## 1942	1942	1	0	0	0	0	0	0	0	0	0	0
## 1943	1943	0	0	0	0	0	0	0	0	0	1	0
## 1944	1944	0	0	0	0	3	2	0	0	0	0	0
## 1945	1945	0	0	0	0	0	0	3	0	0	1	0
## 1946	1946	0	0	0	2	2	4	2	4	0	0	0
## 1947	1947	0	0	0	0	2	3	0	0	0	1	0
## 1948	1948	0	0	0	0	0	0	1	3	0	1	2
## 1949	1949	0	0	0	0	0	0	0	0	0	0	0
## 1950	1950	0	0	0	0	2	4	0	0	0	2	0
## 1951	1951	0	0	0	0	0	0	0	0	0	0	0
## 1952	1952	0	0	0	0	0	0	0	0	0	0	0
## 1953	1953	0	0	0	0	0	0	0	0	0	0	0
## 1954	1954	0	0	0	0	0	0	0	0	0	0	0
## 1955	1955	0	0	0	0	0	0	1	0	1	0	0
## 1956	1956	0	0	0	0	2	0	0	0	0	0	0
## 1957	1957	0	0	0	0	3	0	0	0	0	0	0
## 1958	1958	1	1	0	1	0	0	0	1	0	0	0
## 1959	1959	0	0	0	0	2	0	0	0	0	0	0
## 1960	1960	0	0	0	0	0	0	0	0	0	0	0
## 1961	1961	0	0	0	0	0	0	0	3	0	0	0
## 1962	1962	0	1	1	0	0	0	0	0	0	0	0
## 1963	1963	0	0	1	0	0	0	0	0	0	0	0
## 1964	1964	0	0	0	0	0	0	0	0	0	0	0
## 1965	1965	0	1	0	0	0	0	0	0	0	0	0
## 1966	1966	2	1	1	1	0	0	0	0	0	0	0
## 1967	1967	0	2	0	1	0	0	0	0	0	0	0
## 1968	1968	0	0	0	2	0	0	0	0	0	0	0
## 1969	1969	0	0	0	0	0	0	0	0	0	0	0
## 1970	1970	0	0	0	0	0	0	0	0	0	0	0
## 1971	1971	0	0	0	0	0	3	0	0	0	0	0
## 1972	1972	0	0	0	0	0	0	3	0	0	0	0
## 1973	1973	0	0	0	0	3	0	0	0	0	0	0
## 1974	1974	0	0	0	1	3	0	1	0	0	0	0

## 1975 1975	0	0	0	0	0	0	0	0	0	0	0	0
## 1976 1976	0	0	0	0	0	0	0	0	0	0	0	0
## 1977 1977	0	0	0	0	0	0	0	0	0	0	0	0
## 1978 1978	0	0	0	0	0	4	0	0	0	0	0	0
## 1979 1979	0	0	0	1	0	2	0	0	0	0	0	0
## 1980 1980	0	0	0	0	0	0	0	0	0	0	0	1
## 1981 1981	0	0	0	0	0	0	0	3	0	0	0	0
## 1982 1982	0	0	0	0	0	6	0	0	0	0	0	0
## 1983 1983	0	0	0	0	0	0	2	1	0	1	0	0
## 1984 1984	0	0	0	0	0	0	0	0	0	0	0	0
## 1985 1985	0	0	0	0	0	3	0	0	0	0	0	0
## 1986 1986	2	0	0	0	0	0	0	0	0	2	1	0
## 1987 1987	0	0	0	0	0	3	0	0	0	0	0	0
## 1988 1988	0	0	0	0	0	0	0	0	0	0	0	1
## 1989 1989	0	0	0	0	0	0	0	0	1	0	0	1
## 1990 1990	0	0	0	0	0	0	0	0	0	0	0	0
## 1991 1991	0	0	0	0	0	0	0	0	0	5	0	0
## 1992 1992	0	0	0	0	0	2	0	0	0	0	0	0
## 1993 1993	0	0	0	0	0	0	0	0	0	0	0	0
## 1994 1994	0	0	0	0	0	0	0	0	0	0	0	0
## 1995 1995	0	0	0	0	0	2	1	0	0	0	0	0
## 1996 1996	0	0	0	0	0	0	0	0	1	0	0	0
## 1997 1997	3	0	1	0	0	0	0	0	0	0	0	0
## 1998 1998	0	1	0	0	0	0	0	0	0	0	0	0
## 1999 1999	0	0	0	0	0	0	0	0	0	0	0	0
## 2000 2000	0	0	0	0	0	0	0	0	0	0	0	0
## 2001 2001	0	0	0	0	0	0	0	0	0	0	0	0
## 2002 2002	0	0	0	0	0	0	0	0	0	0	0	0
## 2003 2003	0	3	0	0	0	0	0	0	0	0	0	0
## 2004 2004	1	0	0	0	0	0	0	0	0	0	0	0
## 2005 2005	1	0	0	0	0	0	0	0	0	0	0	0
## 2006 2006	0	0	0	0	2	0	0	0	0	0	0	0
## 2007 2007	0	0	0	0	0	0	3	0	1	0	0	0
## 2008 2008	0	1	0	0	2	3	0	0	0	0	0	0
## 2009 2009	0	0	0	0	0	4	0	0	0	0	0	0
## 2010 2010	0	0	0	0	0	0	0	0	0	0	2	0
## 2011 2011	0	0	0	0	0	0	0	0	0	3	0	0
## 2012 2012	0	0	0	0	0	0	0	0	0	0	3	0
## 2013 2013	0	0	0	1	1	0	2	1	1	0	0	1
## 2014 2014	0	0	0	0	0	0	0	0	0	0	0	0
## 2015 2015	4	1	1	0	0	1	0	0	0	0	0	0
## 2016 2016	0	0	0	0	0	0	3	3	0	0	0	0
## 2017 2017	0	0	0	0	0	0	0	0	0	0	0	0
## 2018 2018	0	0	0	2	0	1	2	1	0	0	0	0
## 2019 2019	0	0	0	0	0	1	0	0	0	0	0	0
## 2020 2020	0	0	0	0	3	0	0	0	0	0	0	0
## 2021 2021	0	0	0	0	0	0	0	0	0	0	0	0
## 2022 2022	0	3	0	0	0	0	0	0	0	0	0	0
## 2023 2023	0	0	0	0	2	0	0	0	0	0	0	0
## 2024 2024	0	0	0	0	0	0	0	0	0	0	0	0
## 2025 2025	0	0	0	0	0	3	0	0	0	0	0	0
## 2026 2026	0	0	0	0	0	0	0	0	0	0	0	0
## 2027 2027	0	0	0	0	3	0	0	0	0	0	0	0
## 2028 2028	0	0	0	0	1	1	0	0	0	0	0	0

## 2029 2029	0	0	0	0	0	0	0	0	0	0	0
## 2030 2030	0	0	0	0	0	0	2	0	2	0	0
## 2031 2031	2	1	3	0	0	0	0	0	0	0	0
## 2032 2032	0	0	0	0	0	0	0	0	0	0	0
## 2033 2033	0	0	0	0	1	0	0	0	0	0	0
## 2034 2034	0	0	1	0	1	0	1	0	0	3	0
## 2035 2035	0	0	0	0	0	0	0	0	0	2	0
## 2036 2036	0	0	0	0	1	0	0	0	0	0	0
## 2037 2037	0	0	0	0	1	0	1	2	0	0	0
## 2038 2038	0	0	0	0	0	0	0	0	0	0	0
## 2039 2039	0	0	0	0	0	0	0	0	0	0	0
## 2040 2040	0	0	0	0	0	0	2	0	0	0	0
## 2041 2041	0	0	0	0	0	0	0	0	0	0	0
## 2042 2042	2	1	0	0	0	0	0	0	0	0	0
## 2043 2043	0	0	0	0	0	0	0	0	0	0	0
## 2044 2044	2	1	1	0	0	0	0	0	0	0	0
## 2045 2045	0	0	0	0	0	0	0	0	0	0	0
## 2046 2046	0	0	0	0	3	0	0	0	0	0	0
## 2047 2047	0	0	0	0	0	0	0	0	0	0	0
## 2048 2048	0	0	0	0	0	0	0	0	0	0	3
## 2049 2049	1	0	0	0	0	0	0	0	0	0	0
## 2050 2050	0	0	0	0	0	0	0	0	0	0	0
## 2051 2051	0	0	0	0	1	0	0	0	0	0	0
## 2052 2052	0	0	0	0	0	0	2	0	0	0	0
## 2053 2053	0	0	0	0	1	0	0	0	0	0	0
## 2054 2054	0	0	0	0	0	0	0	0	0	4	0
## 2055 2055	0	0	0	0	1	0	0	0	0	1	0
## 2056 2056	0	0	0	0	0	2	0	0	0	0	0
## 2057 2057	0	0	0	0	1	0	0	0	0	0	0
## 2058 2058	0	0	0	0	0	0	0	0	0	0	0
## 2059 2059	1	0	0	0	0	0	0	0	0	0	0
## 2060 2060	1	0	1	0	1	0	0	0	0	0	0
## 2061 2061	0	0	0	3	0	0	0	0	0	0	0
## 2062 2062	0	0	0	1	0	0	0	0	0	0	0
## 2063 2063	0	0	0	0	0	0	3	0	0	0	0
## 2064 2064	0	0	0	2	1	0	0	0	0	0	0
## 2065 2065	0	0	0	0	0	3	0	0	0	0	0
## 2066 2066	0	0	0	0	0	0	0	0	0	0	0
## 2067 2067	0	0	0	0	0	0	0	0	3	0	0
## 2068 2068	1	0	2	0	0	0	0	0	0	0	0
## 2069 2069	0	0	0	0	0	0	0	0	0	0	0
## 2070 2070	0	0	0	0	0	0	0	0	3	0	0
## 2071 2071	0	0	1	0	0	0	0	0	0	0	0
## 2072 2072	0	0	0	0	0	2	0	0	0	0	0
## 2073 2073	1	0	0	0	0	2	0	0	0	1	0
## 2074 2074	0	0	0	1	0	0	0	0	0	0	0
## 2075 2075	0	0	0	0	0	0	0	0	0	0	0
## 2076 2076	0	0	0	0	0	0	0	0	0	0	0
## 2077 2077	0	0	0	0	0	0	1	0	0	0	0
## 2078 2078	0	0	0	0	0	0	0	0	0	0	0
## 2079 2079	0	0	0	0	0	0	0	0	3	0	0
## 2080 2080	0	0	0	0	1	0	0	0	0	3	0
## 2081 2081	0	0	2	0	0	0	0	0	0	0	0
## 2082 2082	0	0	0	0	0	0	0	0	0	0	0

## 2083	2083	0	0	3	0	0	0	0	0	0	0	0
## 2084	2084	1	0	4	0	0	0	0	0	0	0	0
## 2085	2085	0	0	0	0	6	0	0	1	0	0	0
## 2086	2086	1	1	0	0	0	0	0	0	0	0	0
## 2087	2087	0	0	0	3	0	0	2	0	0	1	1
## 2088	2088	0	0	0	0	0	0	0	0	0	0	0
## 2089	2089	0	0	0	1	0	0	0	0	0	0	0
## 2090	2090	0	0	2	0	0	0	0	0	0	0	0
## 2091	2091	0	0	0	0	0	0	0	0	0	0	0
## 2092	2092	0	0	0	0	0	0	0	0	1	0	1
## 2093	2093	0	0	0	3	1	0	0	0	0	0	0
## 2094	2094	0	0	0	0	0	0	0	0	0	0	0
## 2095	2095	0	2	0	0	2	0	0	0	0	1	1
## 2096	2096	0	0	0	0	0	0	0	0	0	0	0
## 2097	2097	0	0	0	0	0	0	0	0	0	0	0
## 2098	2098	0	0	0	0	0	0	0	0	0	0	0
## 2099	2099	0	0	0	1	2	0	0	0	0	0	0
## 2100	2100	0	0	0	0	0	0	0	0	0	0	0
## 2101	2101	0	0	0	0	3	0	0	0	0	0	0
## 2102	2102	0	0	0	0	0	0	0	0	0	0	0
## 2103	2103	0	1	1	0	1	0	0	0	0	1	0
## 2104	2104	0	0	0	0	3	0	0	0	0	0	0
## 2105	2105	0	0	0	0	0	0	0	4	0	0	0
## 2106	2106	0	0	0	0	0	0	0	0	3	0	0
## 2107	2107	1	0	1	0	0	0	0	0	0	0	0
## 2108	2108	0	0	0	0	0	0	0	0	0	0	1
## 2109	2109	0	1	0	0	0	0	0	0	0	0	0
## 2110	2110	0	0	0	0	0	0	0	3	0	0	0
## 2111	2111	0	0	0	0	0	0	0	0	0	3	0
## 2112	2112	0	0	0	0	1	0	1	0	0	0	0
## 2113	2113	0	0	0	0	0	0	0	0	0	0	0
## 2114	2114	0	0	0	0	0	0	0	0	1	0	0
## 2115	2115	0	0	0	0	0	0	3	0	0	0	0
## 2116	2116	0	0	0	0	1	0	0	4	0	0	0
## 2117	2117	0	0	0	0	0	0	1	1	0	0	1
## 2118	2118	0	1	0	0	0	0	0	0	0	0	0
## 2119	2119	3	0	0	0	0	0	0	3	0	0	0
## 2120	2120	0	0	0	0	0	0	0	0	0	0	0
## 2121	2121	0	5	0	0	0	0	0	0	0	0	0
## 2122	2122	0	0	0	0	0	0	0	0	0	0	0
## 2123	2123	0	0	0	0	1	0	0	0	0	0	0
## 2124	2124	1	0	1	0	0	0	0	0	0	0	0
## 2125	2125	0	0	0	0	0	0	0	0	0	0	0
## 2126	2126	0	0	0	0	0	0	0	0	0	0	0
## 2127	2127	0	0	0	0	0	0	0	0	0	0	0
## 2128	2128	0	0	0	3	0	0	0	0	0	0	0
## 2129	2129	0	0	0	0	0	0	0	0	0	0	0
## 2130	2130	0	0	0	0	1	0	0	0	0	0	0
## 2131	2131	0	0	0	0	0	0	0	0	6	0	3
## 2132	2132	0	0	0	0	0	0	0	0	0	0	0
## 2133	2133	0	0	0	1	0	0	0	0	0	0	0
## 2134	2134	0	0	0	0	0	0	0	0	0	0	3
## 2135	2135	2	1	0	0	0	0	0	0	0	0	0
## 2136	2136	0	0	0	0	0	0	0	0	0	0	0

## 2137	2137	0	0	0	0	3	0	0	0	0	0	0
## 2138	2138	0	0	0	0	0	0	0	2	0	0	0
## 2139	2139	0	0	0	0	0	0	0	0	0	0	0
## 2140	2140	0	0	0	0	0	0	0	0	2	1	0
## 2141	2141	1	5	1	0	0	1	3	0	0	0	0
## 2142	2142	0	0	0	0	0	0	0	0	0	0	0
## 2143	2143	0	0	0	0	0	0	0	0	0	0	1
## 2144	2144	0	1	1	0	0	0	0	0	0	0	0
## 2145	2145	0	0	0	0	0	0	0	0	0	0	0
## 2146	2146	0	0	0	0	0	0	1	1	0	0	0
## 2147	2147	0	0	0	0	0	0	0	0	0	0	0
## 2148	2148	1	0	1	0	3	0	0	0	0	0	0
## 2149	2149	0	0	0	0	0	0	0	0	0	0	0
## 2150	2150	0	0	0	0	0	0	0	0	0	0	0
## 2151	2151	0	0	0	0	0	0	0	3	0	1	0
## 2152	2152	5	0	0	0	0	0	0	0	0	0	0
## 2153	2153	0	0	0	2	0	0	0	1	0	0	0
## 2154	2154	0	0	0	4	0	0	0	0	0	0	0
## 2155	2155	0	0	0	0	0	0	0	0	0	0	0
## 2156	2156	0	0	0	1	0	0	1	0	0	0	0
## 2157	2157	0	0	0	0	0	0	1	0	0	0	3
## 2158	2158	0	0	0	0	0	0	1	0	0	0	0
## 2159	2159	0	0	0	0	0	2	0	0	0	0	0
## 2160	2160	0	0	0	0	0	0	0	0	0	0	0
## 2161	2161	0	0	1	0	0	0	0	0	0	0	2
## 2162	2162	0	0	0	0	0	0	0	1	0	0	0
## 2163	2163	0	0	3	0	0	0	0	0	0	0	0
## 2164	2164	0	0	0	0	1	0	0	0	0	0	0
## 2165	2165	0	0	0	0	0	0	1	0	3	0	0
## 2166	2166	0	0	0	0	0	0	0	0	2	0	0
## 2167	2167	1	0	3	0	0	0	0	0	0	0	0
## 2168	2168	0	0	0	0	0	0	0	0	0	0	0
## 2169	2169	0	0	1	0	2	0	0	0	0	0	0
## 2170	2170	0	0	0	0	0	0	0	0	0	0	2
## 2171	2171	0	0	0	0	0	0	0	0	0	0	0
## 2172	2172	0	0	0	0	0	0	0	0	0	0	0
## 2173	2173	0	0	0	0	0	0	0	0	0	0	0
## 2174	2174	2	0	0	0	0	0	0	0	2	0	1
## 2175	2175	0	0	0	0	0	0	0	0	3	0	0
## 2176	2176	0	0	0	0	0	0	0	0	0	0	0
## 2177	2177	0	1	0	4	0	0	0	0	0	0	0
## 2178	2178	0	0	0	0	0	0	0	1	0	0	0
## 2179	2179	0	1	0	1	0	0	1	0	0	2	0
## 2180	2180	0	0	1	0	0	0	0	0	0	0	0
## 2181	2181	0	1	0	0	0	0	0	0	0	0	0
## 2182	2182	0	2	0	1	0	0	0	0	0	0	0
## 2183	2183	0	0	0	2	0	0	0	2	0	0	0
## 2184	2184	0	0	0	1	0	0	1	0	0	0	1
## 2185	2185	0	1	0	0	0	0	0	0	0	0	0
## 2186	2186	0	0	0	0	0	0	0	1	0	0	0
## 2187	2187	0	0	0	2	0	0	0	0	0	0	0
## 2188	2188	0	0	0	0	0	0	0	0	0	0	0
## 2189	2189	0	0	0	0	0	0	2	1	0	0	0
## 2190	2190	0	0	0	1	0	0	0	0	0	0	0

## 2191	2191	0	0	0	5	0	0	0	0	0	0	0
## 2192	2192	0	0	0	0	0	0	0	0	0	0	0
## 2193	2193	0	1	0	1	0	1	0	0	0	0	0
## 2194	2194	0	0	0	0	0	0	0	3	0	0	0
## 2195	2195	0	0	0	1	0	0	0	0	0	0	0
## 2196	2196	0	0	0	1	2	2	0	0	0	0	0
## 2197	2197	0	0	0	0	0	0	0	0	1	0	1
## 2198	2198	0	0	0	0	0	0	0	0	0	0	0
## 2199	2199	0	0	0	0	0	0	2	0	0	1	0
## 2200	2200	0	0	0	3	0	0	0	0	2	1	0
## 2201	2201	0	2	0	0	2	0	0	0	0	0	0
## 2202	2202	0	0	0	0	0	1	0	0	0	0	0
## 2203	2203	0	0	0	0	0	0	0	0	0	1	1
## 2204	2204	0	0	0	0	0	0	0	1	0	3	1
## 2205	2205	0	0	0	0	2	0	0	0	0	0	0
## 2206	2206	0	0	0	0	0	0	0	0	0	0	0
## 2207	2207	0	0	0	0	0	2	0	0	0	0	0
## 2208	2208	0	0	0	0	0	0	3	0	0	0	0
## 2209	2209	0	0	0	0	0	0	0	2	0	0	0
## 2210	2210	0	0	0	0	0	3	0	0	0	0	0
## 2211	2211	0	0	0	0	0	0	0	0	0	0	0
## 2212	2212	0	0	0	0	0	0	0	0	0	0	0
## 2213	2213	0	0	0	0	0	0	0	0	0	0	0
## 2214	2214	0	0	0	0	0	0	1	0	0	1	0
## 2215	2215	0	0	0	3	0	0	0	0	0	0	0
## 2216	2216	0	0	2	0	1	0	0	0	0	0	0
## 2217	2217	0	2	0	0	0	0	0	0	0	0	0
## 2218	2218	0	0	0	0	0	0	0	0	0	2	1
## 2219	2219	0	2	0	1	0	0	1	1	0	1	0
## 2220	2220	0	0	0	1	0	1	0	0	0	0	2
## 2221	2221	0	0	0	0	0	0	0	0	0	0	0
## 2222	2222	0	0	0	0	2	1	0	0	0	0	0
## 2223	2223	0	0	0	0	0	0	0	0	0	0	0
## 2224	2224	0	0	0	0	1	2	0	0	0	0	0
## 2225	2225	0	0	0	0	0	0	0	0	1	0	0
## 2226	2226	0	0	0	0	0	0	0	0	0	0	0
## 2227	2227	0	0	0	0	0	0	0	0	0	1	0
## 2228	2228	0	0	0	1	0	3	0	0	0	0	0
## 2229	2229	0	0	0	0	0	2	0	0	0	0	0
## 2230	2230	0	0	0	0	0	0	3	0	0	0	0
## 2231	2231	0	0	0	0	0	0	0	0	0	0	0
## 2232	2232	0	0	1	2	0	1	0	1	0	0	0
## 2233	2233	3	0	0	0	0	0	0	0	0	0	0
## 2234	2234	0	0	0	0	0	1	0	0	0	0	0
## 2235	2235	0	0	0	0	0	0	1	2	0	0	0
## 2236	2236	0	0	0	0	0	3	0	0	1	1	1
## 2237	2237	1	3	0	0	0	0	0	0	0	0	0
## 2238	2238	0	1	0	0	0	0	0	0	0	0	0
## 2239	2239	0	0	2	1	0	1	1	2	0	0	0
## 2240	2240	0	0	0	0	0	0	0	0	0	0	0
## 2241	2241	0	0	0	0	0	0	2	0	0	1	0
## 2242	2242	0	0	0	0	0	0	2	0	0	0	0
## 2243	2243	0	0	0	0	0	0	0	0	0	0	0
## 2244	2244	0	1	0	0	0	0	0	0	0	0	0

## 2245 2245	1	0	0	0	1	0	0	0	0	0	0
## 2246 2246	0	0	0	0	0	3	0	0	0	0	0
## 2247 2247	1	0	0	0	0	0	0	0	0	0	0
## 2248 2248	0	0	0	0	0	0	1	2	0	0	0
## 2249 2249	0	0	0	0	0	0	0	0	0	0	0
## 2250 2250	0	0	0	1	0	2	0	1	0	0	0
## 2251 2251	0	0	0	0	0	0	0	0	0	0	0
## 2252 2252	0	0	0	0	0	0	0	0	0	0	0
## 2253 2253	0	0	0	1	1	0	0	0	0	0	0
## 2254 2254	0	0	2	4	0	1	2	0	0	0	0
## 2255 2255	0	0	0	0	0	1	1	0	0	0	0
## 2256 2256	0	0	0	0	0	0	1	0	0	0	0
## 2257 2257	0	0	0	0	0	3	0	0	0	0	0
## 2258 2258	0	0	0	0	0	0	0	1	0	0	0
## 2259 2259	0	0	0	0	0	0	0	0	0	0	0
## 2260 2260	0	0	1	0	0	0	0	0	0	0	0
## 2261 2261	0	0	0	0	0	0	0	0	0	0	0
## 2262 2262	0	0	0	0	0	0	1	0	0	0	0
## 2263 2263	0	0	0	0	0	0	0	0	3	0	0
## 2264 2264	0	0	0	0	0	0	0	0	0	0	0
## 2265 2265	0	2	1	0	0	0	0	0	0	0	0
## 2266 2266	0	0	0	0	1	0	0	0	0	0	0
## 2267 2267	0	0	0	0	0	0	0	0	0	0	0
## 2268 2268	0	0	0	0	0	0	0	0	0	0	0
## 2269 2269	0	0	0	0	0	0	0	0	3	0	0
## 2270 2270	0	0	0	0	0	0	0	0	0	0	0
## 2271 2271	0	2	0	0	1	0	1	0	0	0	0
## 2272 2272	0	0	0	0	0	0	0	0	0	0	0
## 2273 2273	0	0	0	0	0	0	0	0	0	0	0
## 2274 2274	0	0	0	0	0	2	0	0	0	0	0
## 2275 2275	0	0	0	0	0	0	0	0	0	3	0
## 2276 2276	0	0	0	0	0	0	0	0	2	0	0
## 2277 2277	0	0	0	0	0	0	0	0	0	0	0
## 2278 2278	2	1	0	0	0	0	0	0	0	0	0
## 2279 2279	0	0	0	0	0	0	3	0	0	0	0
## 2280 2280	0	0	0	0	0	0	0	0	0	0	0
## 2281 2281	0	0	0	0	0	0	0	0	0	0	0
## 2282 2282	0	0	0	1	0	0	0	0	0	0	0
## 2283 2283	0	0	0	2	0	1	0	0	1	0	2
## 2284 2284	0	0	0	0	0	0	0	0	0	0	3
## 2285 2285	0	0	0	0	0	0	0	0	0	0	3
## 2286 2286	1	0	0	1	0	0	1	2	0	0	0
## 2287 2287	0	0	0	0	0	0	0	0	0	1	0
## 2288 2288	0	0	0	0	0	0	0	0	0	0	0
## 2289 2289	0	0	0	1	0	3	0	0	0	0	0
## 2290 2290	0	0	0	0	0	0	3	2	0	0	0
## 2291 2291	0	0	1	2	0	0	0	0	0	0	0
## 2292 2292	0	0	0	0	0	0	0	0	1	0	0
## 2293 2293	0	0	0	0	0	0	0	0	0	0	0
## 2294 2294	1	0	0	0	0	0	0	0	0	0	0
## 2295 2295	0	0	0	0	0	0	0	0	0	0	0
## 2296 2296	0	0	0	0	0	0	0	2	0	0	0
## 2297 2297	0	0	0	0	0	0	0	0	0	0	0
## 2298 2298	0	0	0	0	0	0	0	0	0	0	0

## 2299 2299	0	0	0	1	0	1	0	0	0	0	0
## 2300 2300	0	0	0	0	0	0	0	3	0	0	0
## 2301 2301	0	0	0	1	0	0	0	0	0	0	0
## 2302 2302	0	0	0	0	3	0	1	0	0	0	0
## 2303 2303	0	0	0	0	0	0	0	0	0	0	0
## 2304 2304	0	0	0	0	0	0	0	0	0	0	0
## 2305 2305	0	1	0	1	0	0	0	0	0	0	0
## 2306 2306	0	0	0	0	0	0	1	6	0	0	0
## 2307 2307	0	0	0	0	0	0	0	0	4	0	0
## 2308 2308	3	0	0	0	0	0	0	0	0	0	0
## 2309 2309	0	0	0	2	1	0	0	0	0	0	0
## 2310 2310	0	0	0	0	0	3	0	0	0	0	0
## 2311 2311	0	0	0	0	0	0	0	3	0	0	0
## 2312 2312	0	0	0	0	0	0	0	0	0	0	0
## 2313 2313	0	0	0	0	0	0	0	0	0	0	1
## 2314 2314	0	0	0	0	0	0	0	0	0	3	0
## 2315 2315	0	0	0	0	0	0	0	3	0	0	0
## 2316 2316	4	5	0	0	0	0	0	0	0	0	0
## 2317 2317	0	0	0	0	0	0	0	0	0	1	0
## 2318 2318	0	0	0	0	0	0	3	0	0	0	0
## 2319 2319	0	0	0	3	0	0	4	0	0	0	0
## 2320 2320	0	0	0	0	0	0	0	1	0	0	0
## 2321 2321	0	0	0	0	0	0	1	1	0	1	0
## 2322 2322	0	0	0	0	0	0	0	2	0	0	0
## 2323 2323	0	0	0	0	0	2	1	0	0	0	0
## 2324 2324	0	0	0	0	0	0	0	0	0	0	0
## 2325 2325	0	0	0	0	0	0	0	0	0	0	0
## 2326 2326	0	1	0	0	0	0	5	5	0	0	0
## 2327 2327	0	0	0	0	0	0	2	0	0	0	0
## 2328 2328	0	0	0	0	0	0	0	0	0	0	1
## 2329 2329	0	0	0	0	0	0	0	0	0	0	0
## 2330 2330	0	0	0	0	0	0	0	0	0	0	1
## 2331 2331	0	0	0	0	0	0	0	0	0	0	0
## 2332 2332	0	0	0	2	0	0	0	0	0	0	0
## 2333 2333	0	0	0	0	0	0	0	0	4	0	0
## 2334 2334	0	0	0	0	0	0	0	0	3	0	0
## 2335 2335	0	0	0	1	0	0	0	0	0	0	0
## 2336 2336	3	1	1	0	0	0	0	0	0	0	0
## 2337 2337	0	0	0	0	0	1	0	0	0	1	0
## 2338 2338	0	0	0	1	0	0	0	0	0	0	0
## 2339 2339	0	0	0	0	0	0	0	0	0	2	1
## 2340 2340	0	0	0	0	0	0	0	0	0	0	0
## 2341 2341	0	0	0	2	0	0	0	0	0	0	0
## 2342 2342	0	0	0	1	1	0	0	1	0	0	0
## 2343 2343	0	0	0	0	0	0	0	0	0	0	0
## 2344 2344	0	0	0	0	0	0	0	0	0	0	0
## 2345 2345	0	3	0	0	0	0	0	0	0	0	0
## 2346 2346	3	0	0	0	0	0	0	0	0	0	0
## 2347 2347	0	0	0	0	0	0	0	0	2	0	1
## 2348 2348	0	0	0	0	0	0	0	0	0	0	0
## 2349 2349	2	1	0	0	0	0	0	0	0	0	0
## 2350 2350	0	0	0	0	0	0	0	0	0	0	0
## 2351 2351	0	0	0	0	0	0	0	0	2	3	0
## 2352 2352	0	0	0	0	0	0	0	0	0	0	0

## 2353	2353	0	0	0	0	0	0	0	0	0	0	0
## 2354	2354	0	0	0	0	3	0	0	0	0	0	0
## 2355	2355	0	1	0	0	0	0	0	0	0	0	0
## 2356	2356	0	0	0	0	0	0	0	0	0	0	0
## 2357	2357	2	0	3	0	0	0	0	0	0	0	0
## 2358	2358	0	1	0	0	0	0	0	0	0	0	0
## 2359	2359	0	0	0	0	0	0	0	1	0	0	0
## 2360	2360	0	0	1	0	3	1	0	5	0	0	0
## 2361	2361	3	0	0	0	0	0	0	0	0	0	0
## 2362	2362	0	0	0	0	0	0	0	0	0	0	1
## 2363	2363	0	2	0	2	0	1	0	0	0	0	0
## 2364	2364	0	0	0	0	0	0	1	4	0	0	0
## 2365	2365	0	0	0	0	0	2	0	0	0	0	0
## 2366	2366	0	0	0	0	0	0	0	0	0	0	0
## 2367	2367	0	0	0	3	0	0	0	0	0	0	0
## 2368	2368	0	0	2	0	1	0	0	0	0	0	0
## 2369	2369	1	0	0	1	0	0	0	0	0	0	0
## 2370	2370	0	0	0	0	0	0	0	0	0	0	0
## 2371	2371	0	0	0	0	0	0	0	0	0	0	0
## 2372	2372	0	0	0	1	0	0	0	0	0	0	0
## 2373	2373	0	0	0	2	0	0	2	1	0	0	0
## 2374	2374	0	0	0	0	0	0	0	0	0	0	0
## 2375	2375	0	0	0	0	0	0	0	0	0	0	0
## 2376	2376	0	0	0	0	0	0	0	0	0	0	0
## 2377	2377	0	0	0	0	3	0	0	0	0	0	0
## 2378	2378	0	0	0	0	0	0	0	0	3	0	0
## 2379	2379	0	0	0	1	0	1	0	0	0	0	0
## 2380	2380	0	0	0	0	0	0	0	0	0	0	3
## 2381	2381	0	0	0	0	0	0	0	0	0	0	0
## 2382	2382	0	0	0	0	0	0	4	0	0	0	0
## 2383	2383	0	0	0	0	0	0	0	2	0	0	0
## 2384	2384	0	0	0	1	1	2	0	1	0	0	0
## 2385	2385	0	0	0	0	0	0	0	0	0	0	0
## 2386	2386	0	0	0	0	1	0	0	0	0	1	0
## 2387	2387	0	0	0	0	0	0	0	0	0	0	0
## 2388	2388	0	0	0	0	0	3	0	0	0	0	0
## 2389	2389	1	0	0	0	0	1	0	0	0	0	0
## 2390	2390	0	0	0	0	0	0	0	0	0	0	0
## 2391	2391	0	0	0	0	0	0	0	0	0	0	0
## 2392	2392	0	0	0	0	0	0	0	3	0	0	0
## 2393	2393	0	0	0	3	0	0	0	0	0	1	0
## 2394	2394	0	0	0	0	0	0	0	1	0	1	0
## 2395	2395	0	0	0	0	0	0	0	0	0	0	0
## 2396	2396	0	0	0	0	0	0	0	0	0	0	0
## 2397	2397	0	0	0	1	3	0	0	0	0	0	0
## 2398	2398	0	0	1	0	0	0	0	0	0	0	0
## 2399	2399	0	0	0	0	0	2	0	1	0	0	0
## 2400	2400	0	0	0	2	0	0	0	0	0	0	0
## 2401	2401	0	0	0	0	0	0	0	0	0	0	0
## 2402	2402	0	0	0	0	0	0	0	0	2	0	0
## 2403	2403	2	1	0	0	0	0	0	0	0	0	1
## 2404	2404	1	2	0	0	0	0	0	0	0	0	0
## 2405	2405	0	0	0	0	0	0	0	1	3	0	0
## 2406	2406	0	0	0	0	0	0	1	0	0	0	0

## 2407	2407	0	0	0	0	0	0	0	2	0	0	0
## 2408	2408	0	0	2	0	0	0	0	0	0	0	0
## 2409	2409	0	0	0	3	0	0	0	0	0	0	0
## 2410	2410	0	0	0	0	0	0	0	0	1	1	0
## 2411	2411	0	0	2	0	0	0	0	0	0	0	0
## 2412	2412	0	0	0	0	0	0	0	0	0	1	0
## 2413	2413	1	0	0	2	0	0	0	0	0	0	0
## 2414	2414	0	0	0	0	0	0	0	0	0	0	0
## 2415	2415	0	0	0	0	0	0	0	0	0	0	0
## 2416	2416	0	0	0	0	0	0	0	4	0	0	0
## 2417	2417	0	0	0	0	0	0	0	0	0	0	0
## 2418	2418	0	0	0	0	0	0	0	2	0	0	0
## 2419	2419	1	0	1	0	0	0	0	0	0	0	0
## 2420	2420	0	0	0	0	0	0	0	0	0	0	0
## 2421	2421	0	0	0	0	1	0	0	0	0	0	0
## 2422	2422	0	0	0	0	0	0	0	4	1	0	0
## 2423	2423	0	0	1	2	0	0	0	0	0	0	0
## 2424	2424	0	0	0	0	0	2	0	0	0	0	0
## 2425	2425	0	0	1	0	0	0	0	0	0	0	0
## 2426	2426	0	0	0	0	0	0	0	2	0	0	0
## 2427	2427	0	0	0	0	0	0	0	0	2	0	0
## 2428	2428	0	0	0	0	0	0	0	0	0	0	0
## 2429	2429	0	0	0	0	0	0	0	0	0	0	0
## 2430	2430	0	0	0	0	0	0	0	0	2	0	0
## 2431	2431	1	0	1	1	0	0	0	0	0	0	0
## 2432	2432	0	0	0	0	0	0	2	0	0	0	0
## 2433	2433	0	3	0	0	0	0	0	0	0	0	0
## 2434	2434	0	1	0	1	0	0	0	0	0	0	0
## 2435	2435	0	0	0	0	0	2	0	0	0	0	0
## 2436	2436	0	0	0	2	0	0	1	1	1	0	0
## 2437	2437	0	0	0	2	0	0	0	0	0	0	0
## 2438	2438	0	0	0	0	0	0	1	0	0	0	0
## 2439	2439	0	0	0	0	0	0	0	0	0	0	0
## 2440	2440	0	0	0	0	0	2	0	0	0	0	0
## 2441	2441	0	0	0	0	0	0	0	3	0	0	0
## 2442	2442	0	0	1	0	0	0	0	0	0	0	0
## 2443	2443	0	0	0	0	0	0	0	0	0	0	0
## 2444	2444	0	0	0	0	0	0	0	0	2	0	0
## 2445	2445	0	0	0	0	0	0	1	1	0	0	0
## 2446	2446	0	0	0	0	1	0	0	0	0	0	0
## 2447	2447	0	0	0	1	0	0	0	3	0	0	0
## 2448	2448	0	2	0	0	0	0	0	0	0	0	0
## 2449	2449	0	0	0	0	0	0	0	0	0	0	0
## 2450	2450	0	0	0	0	0	0	0	0	0	0	0
## 2451	2451	0	0	2	0	0	0	0	0	0	0	0
## 2452	2452	0	0	0	0	0	0	0	0	0	0	0
## 2453	2453	0	0	0	0	0	0	0	0	0	0	0
## 2454	2454	1	0	0	0	0	0	0	0	0	0	0
## 2455	2455	0	0	0	0	2	0	0	0	0	0	0
## 2456	2456	0	0	0	0	0	2	0	0	0	0	0
## 2457	2457	0	0	0	0	0	0	0	0	0	0	0
## 2458	2458	0	0	0	0	0	0	0	0	0	0	3
## 2459	2459	0	2	1	0	0	0	0	0	0	0	0
## 2460	2460	0	0	0	0	0	0	0	0	0	0	0

## 2461	2461	0	2	0	0	0	0	0	0	0	0	0
## 2462	2462	0	0	0	0	1	1	0	0	0	0	0
## 2463	2463	0	0	0	0	0	0	0	0	0	0	0
## 2464	2464	2	0	0	0	0	0	0	0	0	0	0
## 2465	2465	0	0	0	0	0	0	1	0	0	1	0
## 2466	2466	0	0	0	0	0	0	0	0	0	0	0
## 2467	2467	0	0	0	0	2	0	0	0	0	2	0
## 2468	2468	0	0	0	0	0	0	0	0	0	0	2
## 2469	2469	0	0	0	0	0	0	0	0	0	0	0
## 2470	2470	0	0	0	0	0	0	0	0	0	0	0
## 2471	2471	1	2	0	0	1	0	6	2	0	1	0
## 2472	2472	0	0	0	0	0	0	0	0	1	0	2
## 2473	2473	0	0	0	0	0	0	0	0	0	0	0
## 2474	2474	0	0	2	0	0	0	0	0	0	0	0
## 2475	2475	0	0	0	0	0	0	0	0	2	0	0
## 2476	2476	0	0	0	1	0	0	0	0	0	0	0
## 2477	2477	0	0	0	0	0	0	3	0	0	1	0
## 2478	2478	0	0	0	0	2	0	1	0	0	0	0
## 2479	2479	0	0	0	0	2	0	0	0	0	0	0
## 2480	2480	0	0	0	0	0	0	0	2	0	0	0
## 2481	2481	0	0	0	0	0	0	0	0	0	0	0
## 2482	2482	0	0	2	0	0	0	0	0	0	0	0
## 2483	2483	0	0	0	0	0	0	0	0	0	0	0
## 2484	2484	0	0	0	0	0	2	0	0	0	0	0
## 2485	2485	0	0	0	0	0	2	0	0	0	0	0
## 2486	2486	0	0	0	0	0	0	0	0	1	0	0
## 2487	2487	0	0	0	0	0	0	0	3	0	0	0
## 2488	2488	0	1	1	0	0	0	0	0	2	0	0
## 2489	2489	0	0	0	0	0	4	0	0	0	0	0
## 2490	2490	0	1	2	1	0	1	0	0	0	0	0
## 2491	2491	0	0	0	0	0	0	0	0	0	0	0
## 2492	2492	1	0	0	0	0	0	0	0	0	0	0
## 2493	2493	0	0	0	0	0	0	0	0	0	0	0
## 2494	2494	0	0	0	0	0	1	0	3	0	0	0
## 2495	2495	0	2	0	0	0	0	0	0	0	0	0
## 2496	2496	0	0	0	0	0	0	2	0	0	0	0
## 2497	2497	0	0	0	0	0	0	0	0	0	0	0
## 2498	2498	0	0	0	0	0	0	0	0	0	0	0
## 2499	2499	0	1	1	0	1	0	0	0	0	0	0
## 2500	2500	0	0	0	0	0	0	2	0	0	0	0
## 2501	2501	0	0	0	0	2	0	0	0	0	0	0
## 2502	2502	0	0	0	0	0	0	0	0	0	0	0
## 2503	2503	0	0	0	0	0	0	0	2	0	0	0
## 2504	2504	0	0	0	0	2	0	0	0	0	0	0
## 2505	2505	0	0	0	0	0	0	1	0	0	1	0
## 2506	2506	0	0	0	0	0	0	0	0	0	0	0
## 2507	2507	0	0	0	2	0	0	0	0	0	0	0
## 2508	2508	1	0	0	0	0	0	0	0	0	0	0
## 2509	2509	0	0	0	0	0	0	0	0	0	0	0
## 2510	2510	0	0	0	0	0	0	0	0	0	0	0
## 2511	2511	0	1	0	0	0	1	0	2	0	0	0
## 2512	2512	0	0	0	0	0	0	0	0	0	0	0
## 2513	2513	0	0	0	0	0	0	1	0	0	0	0
## 2514	2514	0	0	0	0	0	0	0	0	0	0	0

## 2515	2515	0	0	0	0	0	0	0	0	0	0	0
## 2516	2516	0	0	0	0	0	0	0	0	0	0	0
## 2517	2517	0	0	2	0	0	0	0	0	0	0	0
## 2518	2518	0	0	0	0	0	1	1	3	0	0	0
## 2519	2519	0	0	0	0	0	0	0	0	0	0	0
## 2520	2520	0	0	0	0	0	0	0	0	0	0	0
## 2521	2521	0	0	0	0	0	0	0	0	0	0	0
## 2522	2522	0	0	0	0	0	0	0	0	0	0	0
## 2523	2523	0	0	0	0	1	0	0	0	0	0	0
## 2524	2524	0	0	0	0	0	0	0	0	0	0	0
## 2525	2525	0	1	1	0	0	0	0	0	0	0	0
## 2526	2526	0	0	0	0	0	0	0	0	0	0	0
## 2527	2527	0	0	0	0	0	0	0	0	0	0	0
## 2528	2528	0	0	0	0	0	0	0	0	0	0	0
## 2529	2529	0	0	0	0	0	0	0	0	0	2	0
## 2530	2530	0	0	0	0	0	0	0	2	2	0	0
## 2531	2531	1	0	0	0	0	0	0	0	0	0	0
## 2532	2532	0	0	1	0	0	1	0	0	0	0	0
## 2533	2533	0	0	0	0	0	0	0	0	0	0	0
## 2534	2534	0	0	0	0	0	0	0	0	0	1	0
## 2535	2535	1	0	0	0	0	0	0	0	0	0	0
## 2536	2536	2	0	0	0	0	0	0	0	0	0	0
## 2537	2537	0	0	0	0	1	0	0	0	0	0	0
## 2538	2538	0	0	0	1	0	0	0	0	0	0	0
## 2539	2539	0	0	0	0	0	0	0	2	0	0	0
## 2540	2540	0	0	0	0	0	0	0	0	0	0	0
## 2541	2541	0	0	0	0	1	0	0	0	0	0	0
## 2542	2542	0	1	0	0	0	0	0	0	0	0	0
## 2543	2543	0	0	0	0	0	0	0	0	0	0	0
## 2544	2544	0	0	0	0	2	0	0	0	0	0	0
## 2545	2545	0	0	0	0	0	0	0	0	0	0	1
## 2546	2546	0	0	0	1	1	0	2	0	0	0	0
## 2547	2547	0	0	0	0	0	0	0	0	0	0	0
## 2548	2548	0	0	0	0	0	0	0	0	0	0	0
## 2549	2549	0	1	1	0	0	0	0	0	0	0	0
## 2550	2550	0	0	0	0	2	0	0	0	0	0	0
## 2551	2551	0	0	0	0	0	0	0	0	3	0	0
## 2552	2552	0	0	0	0	0	0	0	0	0	0	0
## 2553	2553	0	0	0	0	0	0	0	0	0	0	0
## 2554	2554	0	0	0	0	0	0	0	3	0	0	0
## 2555	2555	0	0	0	0	0	0	0	0	0	0	0
## 2556	2556	0	0	0	0	0	0	0	0	0	0	0
## 2557	2557	0	0	0	0	0	0	0	0	0	0	0
## 2558	2558	0	1	0	0	0	0	0	0	1	0	0
## 2559	2559	0	0	0	0	0	0	2	0	0	0	0
## 2560	2560	2	0	0	0	0	0	0	0	0	0	0
## 2561	2561	0	0	0	2	0	0	0	0	0	0	0
## 2562	2562	0	0	0	0	0	0	0	0	0	0	0
## 2563	2563	0	0	0	0	0	0	0	0	0	0	0
## 2564	2564	0	0	0	0	0	0	0	0	0	0	2
## 2565	2565	0	0	0	0	0	0	0	0	0	0	0
## 2566	2566	0	0	0	0	0	0	0	2	0	0	0
## 2567	2567	0	0	0	0	0	2	0	0	0	0	0
## 2568	2568	0	0	0	0	0	0	0	2	0	0	0

## 2569	2569	0	0	0	0	2	0	0	0	0	0	0
## 2570	2570	0	0	0	0	0	0	0	0	0	0	0
## 2571	2571	0	0	0	1	0	0	0	0	0	0	0
## 2572	2572	0	0	0	0	0	0	0	0	0	0	0
## 2573	2573	0	0	0	0	0	0	0	1	0	0	0
## 2574	2574	0	1	0	0	0	0	0	0	0	0	0
## 2575	2575	0	0	0	0	0	0	0	2	0	0	0
## 2576	2576	0	0	0	0	0	0	0	0	0	0	0
## 2577	2577	0	1	0	1	0	0	0	0	0	0	0
## 2578	2578	0	0	0	0	0	0	0	0	0	0	0
## 2579	2579	0	0	0	0	0	0	0	0	0	1	1
## 2580	2580	0	2	0	0	0	0	0	0	0	0	1
## 2581	2581	0	0	0	0	0	0	0	0	0	0	0
## 2582	2582	0	0	0	0	0	2	0	0	0	0	0
## 2583	2583	5	1	0	0	0	0	0	0	0	0	0
## 2584	2584	0	0	0	0	0	0	0	0	0	0	0
## 2585	2585	1	0	0	0	0	0	0	0	0	0	0
## 2586	2586	0	0	0	0	0	0	2	0	0	0	0
## 2587	2587	0	0	0	0	0	0	0	2	0	0	0
## 2588	2588	0	0	0	0	2	0	0	0	0	0	0
## 2589	2589	0	0	0	0	0	0	0	0	0	0	0
## 2590	2590	0	0	0	0	2	0	0	0	0	0	0
## 2591	2591	0	0	0	0	0	0	0	0	0	0	0
## 2592	2592	0	0	0	0	0	0	0	0	0	0	0
## 2593	2593	0	1	0	0	0	0	0	0	0	2	0
## 2594	2594	1	1	1	2	0	3	0	0	0	0	0
## 2595	2595	0	0	0	0	0	0	0	0	0	0	2
## 2596	2596	0	0	0	0	0	0	0	0	0	2	0
## 2597	2597	0	0	0	0	0	0	0	0	0	0	1
## 2598	2598	0	0	1	2	0	0	1	0	0	0	0
## 2599	2599	0	0	0	0	0	0	0	0	0	0	0
## 2600	2600	0	2	0	0	0	0	0	0	0	0	0
## 2601	2601	0	0	0	0	0	0	0	0	0	0	0
## 2602	2602	2	0	0	0	0	0	0	0	0	0	0
## 2603	2603	0	0	0	0	0	0	0	0	0	0	0
## 2604	2604	0	0	0	0	0	0	0	0	0	0	0
## 2605	2605	0	0	0	2	0	1	0	0	0	0	0
## 2606	2606	0	0	0	2	0	0	0	0	0	0	0
## 2607	2607	0	0	0	0	0	0	1	0	0	0	0
## 2608	2608	0	0	0	0	0	0	0	2	0	0	0
## 2609	2609	0	0	0	1	1	1	0	0	1	0	0
## 2610	2610	0	0	0	0	0	0	0	0	0	0	0
## 2611	2611	0	0	0	0	0	0	0	0	0	0	0
## 2612	2612	0	0	0	0	0	0	0	0	0	0	0
## 2613	2613	0	0	0	0	0	0	0	0	0	0	0
## 2614	2614	0	0	0	0	0	0	0	0	0	0	0
## 2615	2615	2	1	0	0	0	0	0	0	0	0	0
## 2616	2616	0	0	0	2	0	1	0	0	0	0	0
## 2617	2617	0	0	0	2	0	0	0	0	0	0	0
## 2618	2618	0	0	0	0	0	0	0	0	0	0	0
## 2619	2619	0	0	0	2	0	0	0	0	0	0	0
## 2620	2620	0	0	0	1	1	0	0	0	0	0	0
## 2621	2621	0	0	0	0	0	0	0	0	0	0	0
## 2622	2622	0	0	0	0	0	0	1	0	0	0	0

```

## 2623 2623 0 0 0 0 0 0 1 0 0 0 0 0
## 2624 2624 0 0 0 0 0 0 0 0 0 0 0 0
## 2625 2625 0 0 0 0 1 1 0 0 0 0 0 0
## 2626 2626 0 0 0 2 0 0 0 0 0 0 0 0
## 2627 2627 0 0 0 0 0 0 0 0 1 0 0 0
## 2628 2628 0 0 0 0 0 0 0 0 0 0 0 0
## 2629 2629 0 0 0 0 0 0 1 0 0 0 0 1
## 2630 2630 0 0 0 0 1 0 0 0 1 0 2 0
## 2631 2631 0 3 1 0 0 0 0 0 0 0 0 0
## 2632 2632 0 0 0 0 0 1 0 0 0 0 0 0
## 2633 2633 0 0 0 2 0 0 0 0 0 0 0 0
## 2634 2634 2 1 0 0 0 0 0 0 0 0 0 0
## 2635 2635 0 0 0 1 2 0 0 0 0 0 0 0
## 2636 2636 0 0 0 0 0 1 0 0 0 0 0 0
## 2637 2637 0 0 0 1 0 0 0 0 0 0 0 0
## 2638 2638 0 0 0 2 0 2 0 0 0 0 0 0
## 2639 2639 0 0 0 0 0 0 0 0 0 0 0 2
## 2640 2640 0 2 0 0 0 0 0 0 0 0 0 0
## 2641 2641 2 1 0 0 0 0 0 0 0 0 0 0
## 2642 2642 0 0 0 0 0 0 0 0 0 3 0 0
## 2643 2643 0 0 0 0 2 0 0 0 0 0 0 0
## 2644 2644 0 0 0 0 0 0 0 0 0 0 0 0
## 2645 2645 0 0 0 0 0 0 0 0 0 0 0 0
## 2646 2646 0 0 0 0 0 0 2 0 0 0 0 0
## 2647 2647 0 0 0 0 0 0 1 0 0 0 0 0
## 2648 2648 1 0 1 0 0 0 0 0 0 0 0 0
## 2649 2649 0 0 0 0 0 0 0 0 0 0 0 0
## 2650 2650 0 0 0 0 0 0 0 0 0 0 0 0
## 2651 2651 0 0 0 0 0 0 0 0 0 0 0 0
## 2652 2652 0 0 0 0 0 0 0 0 0 0 0 1
## 2653 2653 0 0 0 0 2 0 0 0 0 0 0 0
## 2654 2654 0 0 0 0 0 0 1 1 0 0 0 0
## 2655 2655 0 2 0 0 0 0 0 0 0 0 0 0
## 2656 2656 0 0 0 0 0 0 0 0 0 0 0 2
## 2657 2657 0 0 3 1 0 0 0 0 0 0 0 0
## 2658 2658 0 0 0 0 0 0 0 0 0 0 0 0
## 2659 2659 0 0 0 0 0 0 0 0 0 1 0 0
## 2660 2660 1 0 1 0 0 0 0 0 0 0 0 0
## 2661 2661 0 0 0 1 0 0 0 0 0 0 0 0
## 2662 2662 0 0 0 0 0 0 0 0 0 0 0 0
## 2663 2663 0 0 0 0 0 0 0 0 0 0 0 0
## 2664 2664 0 0 1 0 2 0 0 0 0 0 0 0
## 2665 2665 0 0 0 0 0 0 0 0 0 0 0 0
## 2666 2666 0 0 0 0 0 0 0 0 0 0 0 0
## 2667 2667 0 0 0 0 0 0 2 0 0 0 0 0
## 2668 2668 0 0 0 0 0 0 0 0 0 0 0 0
## 2669 2669 0 0 0 0 0 0 0 0 0 0 0 0
## 2670 2670 0 0 0 0 0 0 2 0 0 0 0 0
## 2671 2671 0 0 2 0 0 0 0 0 0 0 0 0
## 2672 2672 0 0 0 0 0 2 0 0 0 0 0 0
## 2673 2673 0 0 0 0 0 0 0 0 0 0 0 0
## 2674 2674 0 0 0 0 2 0 0 0 0 0 0 0
## 2675 2675 0 0 0 0 0 1 0 0 0 0 0 0
## 2676 2676 0 0 0 0 0 0 0 1 0 0 0 0

```

## 2677	2677	0	0	0	0	0	0	0	0	0	0
## 2678	2678	0	0	0	0	0	0	0	0	0	0
## 2679	2679	0	0	0	0	0	0	0	0	0	0
## 2680	2680	0	0	0	0	0	0	0	0	0	0
## 2681	2681	0	0	0	0	0	0	0	0	0	0
## 2682	2682	0	0	0	0	1	0	3	0	0	0
## 2683	2683	0	0	0	0	0	0	0	0	0	0
## 2684	2684	2	0	0	0	0	0	0	0	0	0
## 2685	2685	0	0	0	2	0	0	0	0	0	0
## 2686	2686	0	0	0	0	0	0	2	0	0	1
## 2687	2687	0	0	0	0	0	0	0	0	0	0
## 2688	2688	0	0	0	0	0	0	0	0	0	0
## 2689	2689	0	0	0	0	0	2	0	0	0	0
## 2690	2690	0	0	0	0	0	0	0	0	0	0
## 2691	2691	0	0	0	1	2	1	1	0	0	0
## 2692	2692	0	0	0	0	0	0	0	2	0	0
## 2693	2693	0	0	0	0	0	0	0	0	0	0
## 2694	2694	0	0	0	0	0	0	0	0	0	0
## 2695	2695	0	0	0	0	0	0	0	0	0	0
## 2696	2696	2	0	0	0	0	0	0	0	0	0
## 2697	2697	0	2	0	0	0	0	0	0	0	0
## 2698	2698	0	0	0	2	1	0	0	0	0	0
## 2699	2699	0	0	0	0	0	0	0	0	0	0
## 2700	2700	0	0	0	0	0	0	1	0	0	0
## 2701	2701	0	0	0	0	0	0	2	0	0	0
## 2702	2702	0	0	0	0	2	0	0	0	0	0
## 2703	2703	0	0	0	0	0	0	0	0	0	0
## 2704	2704	0	0	0	0	0	0	0	1	0	0
## 2705	2705	0	0	0	0	0	0	0	0	2	0
## 2706	2706	0	0	0	0	0	0	0	0	0	0
## 2707	2707	1	0	0	0	0	0	0	0	0	0
## 2708	2708	0	0	0	0	0	0	0	0	0	0
## 2709	2709	0	0	0	0	0	0	2	0	0	1
## 2710	2710	0	0	0	0	0	0	0	2	0	0
## 2711	2711	0	0	0	0	0	0	0	0	0	3
## 2712	2712	0	0	2	0	0	0	0	0	0	0
## 2713	2713	0	0	0	1	0	0	1	0	3	0
## 2714	2714	0	0	0	0	0	0	0	1	0	0
## 2715	2715	0	1	1	0	0	0	0	0	0	0
## 2716	2716	0	2	0	0	0	0	0	0	0	0
## 2717	2717	0	0	0	0	0	0	0	0	2	0
## 2718	2718	0	0	0	0	0	0	0	0	0	0
## 2719	2719	0	0	0	0	0	0	0	0	2	0
## 2720	2720	0	0	0	0	0	0	0	0	0	0
## 2721	2721	0	0	0	0	0	0	0	0	0	0
## 2722	2722	0	2	0	0	0	0	0	0	0	0
## 2723	2723	0	0	0	1	0	0	1	0	0	0
## 2724	2724	0	1	0	0	0	0	0	0	0	0
## 2725	2725	0	0	0	0	0	0	0	0	0	0
## 2726	2726	0	0	0	0	0	0	0	0	0	0
## 2727	2727	0	1	0	0	0	0	0	0	0	0
## 2728	2728	0	0	0	0	0	2	0	0	0	0
## 2729	2729	0	1	0	0	0	0	0	0	0	0
## 2730	2730	0	1	2	0	0	0	0	0	0	0

## 2731	2731	1	0	3	1	1	0	0	0	0	0	0
## 2732	2732	0	1	0	0	0	0	0	0	0	0	0
## 2733	2733	0	0	0	0	0	0	0	0	0	0	0
## 2734	2734	0	0	0	0	0	0	0	0	0	0	0
## 2735	2735	0	0	0	0	0	0	2	0	0	0	0
## 2736	2736	0	0	0	0	0	0	0	0	0	0	0
## 2737	2737	0	0	0	0	0	1	0	0	0	0	0
## 2738	2738	0	0	0	0	0	0	0	0	4	0	0
## 2739	2739	0	0	0	0	1	0	0	1	1	0	0
## 2740	2740	0	0	0	0	0	0	0	0	0	0	2
## 2741	2741	0	0	0	1	0	1	0	1	1	0	0
## 2742	2742	0	0	0	0	0	0	1	1	0	0	0
## 2743	2743	0	0	0	0	0	0	0	0	0	0	0
## 2744	2744	0	0	2	0	0	0	0	0	0	0	0
## 2745	2745	0	0	0	0	0	0	2	0	0	0	0
## 2746	2746	0	0	0	0	0	0	2	0	0	0	0
## 2747	2747	0	0	3	0	0	0	0	0	0	0	0
## 2748	2748	1	0	0	0	0	0	0	0	0	0	0
## 2749	2749	0	0	0	0	0	0	2	0	0	0	0
## 2750	2750	0	0	3	0	0	0	0	0	0	0	0
## 2751	2751	0	0	0	0	0	0	0	0	0	0	0
## 2752	2752	0	0	0	0	0	2	0	0	0	0	0
## 2753	2753	0	2	0	0	0	0	0	0	0	0	0
## 2754	2754	0	0	0	0	0	2	0	0	0	0	0
## 2755	2755	0	0	0	0	0	0	0	0	0	0	0
## 2756	2756	0	0	0	0	0	0	0	0	0	0	0
## 2757	2757	2	0	0	0	0	0	0	0	0	0	0
## 2758	2758	0	0	0	0	0	1	0	0	0	0	0
## 2759	2759	0	0	0	0	0	0	0	2	0	0	0
## 2760	2760	0	0	0	0	1	0	0	0	0	1	0
## 2761	2761	0	0	0	0	0	0	0	0	0	0	0
## 2762	2762	0	0	0	0	0	0	0	0	0	0	0
## 2763	2763	0	2	0	0	0	0	0	0	0	0	0
## 2764	2764	0	0	0	0	0	0	0	0	0	0	0
## 2765	2765	1	0	0	0	0	0	0	1	1	0	0
## 2766	2766	0	0	0	0	0	0	0	2	1	0	0
## 2767	2767	0	0	0	0	2	0	0	0	0	0	0
## 2768	2768	0	0	0	0	0	0	0	0	0	0	0
## 2769	2769	0	0	0	0	0	2	0	0	0	0	0
## 2770	2770	0	1	0	0	0	0	0	0	1	0	0
## 2771	2771	0	0	0	0	0	0	2	0	0	0	1
## 2772	2772	0	0	0	0	0	2	0	0	0	0	0
## 2773	2773	0	0	0	0	0	0	0	2	0	0	0
## 2774	2774	0	0	0	0	0	0	0	0	0	2	1
## 2775	2775	0	0	0	0	0	0	0	0	0	0	0
## 2776	2776	0	1	0	1	0	0	0	0	0	0	0
## 2777	2777	0	0	0	0	0	0	0	0	0	0	0
## 2778	2778	0	0	0	0	0	0	0	0	0	0	0
## 2779	2779	0	0	0	0	2	0	0	0	0	0	0
## 2780	2780	0	0	0	0	0	0	0	0	0	0	0
## 2781	2781	1	2	0	0	0	0	0	0	0	0	0
## 2782	2782	0	0	0	0	0	1	0	0	0	0	0
## 2783	2783	0	0	0	0	0	0	0	0	0	0	0
## 2784	2784	0	0	0	0	2	0	0	0	0	0	0

## 2785	2785	0	0	0	0	2	1	0	0	0	0	0
## 2786	2786	0	0	0	0	0	2	0	0	0	0	0
## 2787	2787	0	0	0	1	1	0	0	0	0	0	0
## 2788	2788	0	0	0	0	0	1	1	0	0	0	0
## 2789	2789	0	0	0	0	0	0	0	0	0	0	2
## 2790	2790	0	0	0	0	0	0	2	0	0	0	0
## 2791	2791	0	0	3	0	0	0	0	0	0	0	0
## 2792	2792	0	0	0	0	0	0	0	0	0	0	0
## 2793	2793	0	0	0	0	0	0	1	0	0	0	0
## 2794	2794	0	0	0	0	0	0	0	0	2	0	0
## 2795	2795	1	0	0	0	0	0	0	0	0	0	0
## 2796	2796	0	0	0	0	2	0	0	0	0	0	0
## 2797	2797	0	0	0	1	0	0	0	0	0	0	0
## 2798	2798	0	1	0	0	1	0	0	0	0	0	0
## 2799	2799	0	0	0	0	0	0	0	1	0	0	0
## 2800	2800	0	1	0	0	0	0	0	0	0	2	0
## 2801	2801	0	0	0	0	0	0	1	0	0	0	0
## 2802	2802	0	0	0	0	0	0	0	0	0	0	0
## 2803	2803	0	0	2	0	0	0	0	0	0	0	0
## 2804	2804	0	0	0	0	0	0	0	0	0	0	0
## 2805	2805	0	0	1	1	0	0	0	1	1	0	0
## 2806	2806	0	0	0	0	0	0	0	0	0	0	0
## 2807	2807	0	0	0	0	0	0	0	0	0	2	0
## 2808	2808	0	0	2	0	0	0	0	0	0	0	0
## 2809	2809	0	0	0	0	1	0	0	0	0	0	0
## 2810	2810	0	0	0	0	0	0	0	0	0	0	0
## 2811	2811	0	0	0	0	0	0	0	0	0	0	0
## 2812	2812	0	0	0	0	1	0	0	0	0	0	0
## 2813	2813	0	0	0	0	0	0	0	0	0	0	0
## 2814	2814	0	0	0	2	0	0	0	0	0	0	0
## 2815	2815	0	0	0	3	0	0	0	0	0	0	2
## 2816	2816	0	0	0	0	0	0	0	0	0	0	0
## 2817	2817	1	0	0	0	0	0	0	0	0	0	0
## 2818	2818	2	0	0	0	0	0	0	0	0	0	0
## 2819	2819	0	0	0	0	0	0	2	0	0	0	0
## 2820	2820	1	0	1	5	0	0	0	0	0	0	0
## 2821	2821	0	0	0	0	0	0	0	0	0	0	0
## 2822	2822	1	0	0	0	1	0	0	0	0	0	1
## 2823	2823	0	0	0	0	1	0	0	0	0	0	0
## 2824	2824	0	0	0	0	0	0	0	0	1	1	0
## 2825	2825	0	0	0	0	0	0	0	0	0	0	1
## 2826	2826	0	0	0	0	0	0	2	0	0	0	0
## 2827	2827	0	0	0	0	0	0	0	0	0	0	0
## 2828	2828	0	0	0	0	0	0	0	0	0	0	0
## 2829	2829	2	0	0	1	0	0	1	0	1	0	0
## 2830	2830	0	0	0	0	0	0	0	0	2	0	1
## 2831	2831	2	0	0	0	0	0	0	0	0	0	0
## 2832	2832	0	0	0	0	0	0	1	0	0	0	0
## 2833	2833	0	0	0	0	0	0	0	0	3	0	0
## 2834	2834	0	0	0	2	0	0	0	0	0	0	0
## 2835	2835	0	0	0	0	0	0	0	0	0	0	0
## 2836	2836	0	0	0	0	0	0	0	0	0	1	0
## 2837	2837	0	0	0	0	0	0	1	0	0	0	1
## 2838	2838	0	0	0	0	0	0	0	0	0	0	0

## 2839	2839	0	0	0	0	0	0	1	0	0	0	0
## 2840	2840	0	0	0	0	0	0	0	0	0	0	0
## 2841	2841	0	0	0	0	0	0	0	0	1	0	0
## 2842	2842	0	0	0	0	0	0	2	0	0	0	0
## 2843	2843	0	0	2	0	0	0	0	0	0	0	0
## 2844	2844	0	0	0	0	0	0	0	0	0	0	0
## 2845	2845	0	0	0	0	0	0	0	0	0	0	0
## 2846	2846	2	0	0	0	0	0	0	0	0	0	0
## 2847	2847	0	0	0	0	0	0	0	0	0	0	0
## 2848	2848	0	0	0	0	0	0	0	0	0	0	0
## 2849	2849	0	0	0	0	0	0	0	0	0	0	0
## 2850	2850	0	0	0	1	0	1	0	0	0	0	0
## 2851	2851	0	0	0	0	0	0	0	0	0	0	0
## 2852	2852	0	1	0	0	0	0	0	0	0	0	0
## 2853	2853	0	0	0	0	0	0	0	0	0	0	0
## 2854	2854	0	0	0	0	0	0	0	0	0	2	0
## 2855	2855	0	0	0	0	2	0	0	0	0	0	0
## 2856	2856	0	0	0	0	0	2	0	0	0	0	0
## 2857	2857	0	0	2	0	0	0	0	0	0	0	0
## 2858	2858	1	0	0	0	1	0	0	0	0	0	0
## 2859	2859	0	0	0	0	0	2	0	0	0	0	0
## 2860	2860	0	0	0	0	0	0	0	0	0	0	0
## 2861	2861	0	0	0	0	0	1	0	1	0	0	2
## 2862	2862	0	0	0	0	0	0	0	0	0	0	0
## 2863	2863	0	2	0	0	0	0	0	0	0	0	0
## 2864	2864	0	0	0	0	0	0	0	0	0	0	3
## 2865	2865	0	0	0	0	0	0	0	0	0	0	0
## 2866	2866	0	0	0	0	0	0	0	0	0	0	0
## 2867	2867	0	0	0	0	0	0	0	0	0	0	0
## 2868	2868	0	0	0	0	0	0	0	0	0	0	0
## 2869	2869	0	0	0	0	0	0	0	0	0	0	0
## 2870	2870	0	0	2	0	0	0	0	0	0	0	0
## 2871	2871	0	0	0	0	0	0	0	0	0	0	2
## 2872	2872	0	0	0	0	0	0	0	0	2	0	0
## 2873	2873	0	0	0	0	0	0	0	0	0	0	0
## 2874	2874	0	0	0	0	0	0	0	0	0	0	0
## 2875	2875	0	0	0	0	0	0	0	0	3	0	0
## 2876	2876	0	0	0	0	0	0	0	1	0	0	0
## 2877	2877	0	0	0	0	0	0	0	0	4	0	0
## 2878	2878	0	0	0	0	0	0	0	0	1	0	0
## 2879	2879	0	0	0	0	2	0	0	0	0	0	0
## 2880	2880	0	0	0	0	0	0	0	0	0	0	1
## 2881	2881	0	0	2	0	0	0	0	0	0	0	0
## 2882	2882	0	0	0	0	0	1	0	2	0	0	0
## 2883	2883	0	0	0	0	0	0	0	0	0	0	0
## 2884	2884	0	0	0	0	0	0	0	0	0	0	2
## 2885	2885	0	0	0	0	0	0	0	0	0	0	0
## 2886	2886	0	0	0	0	0	0	1	0	0	0	0
## 2887	2887	0	0	0	0	0	0	1	1	0	0	0
## 2888	2888	0	0	0	0	0	0	2	0	0	0	0
## 2889	2889	0	0	0	0	0	0	0	0	1	0	0
## 2890	2890	0	0	0	0	0	0	0	0	3	0	0
## 2891	2891	0	0	2	0	0	0	0	0	0	0	0
## 2892	2892	0	0	0	0	0	0	0	0	0	1	2

## 2893	2893	0	0	0	0	0	0	0	0	0	0	0
## 2894	2894	1	0	1	0	0	0	0	0	0	0	0
## 2895	2895	0	0	0	0	0	0	0	0	1	0	2
## 2896	2896	0	0	0	0	0	0	0	0	2	0	0
## 2897	2897	0	0	0	3	2	0	0	0	0	0	0
## 2898	2898	0	0	0	0	0	0	2	0	0	0	0
## 2899	2899	0	1	1	1	1	0	0	0	0	0	0
## 2900	2900	0	0	0	0	1	1	0	0	0	0	0
## 2901	2901	0	0	0	0	0	0	0	1	0	0	0
## 2902	2902	0	0	0	0	0	0	0	0	0	0	0
## 2903	2903	0	0	0	0	0	0	0	0	0	0	0
## 2904	2904	0	0	0	0	0	0	1	0	0	0	0
## 2905	2905	0	0	0	0	0	0	0	0	0	0	0
## 2906	2906	0	0	0	0	0	2	0	0	0	0	0
## 2907	2907	0	1	0	0	0	0	0	0	0	0	0
## 2908	2908	0	1	0	1	0	0	0	0	0	0	0
## 2909	2909	0	0	0	0	0	1	0	0	0	0	0
## 2910	2910	0	0	0	0	0	0	0	0	0	0	0
## 2911	2911	0	1	0	0	0	0	0	0	0	0	0
## 2912	2912	0	0	1	0	0	1	0	0	0	0	0
## 2913	2913	0	0	0	0	0	0	0	0	0	0	0
## 2914	2914	0	0	0	1	0	0	0	4	0	0	0
## 2915	2915	0	0	0	0	0	0	0	0	2	0	0
## 2916	2916	0	0	0	0	0	0	0	0	0	0	0
## 2917	2917	0	0	0	0	0	0	0	0	0	0	0
## 2918	2918	0	0	0	2	0	0	0	0	0	0	0
## 2919	2919	0	0	0	0	0	0	0	0	1	0	0
## 2920	2920	0	1	0	0	0	0	0	0	0	0	0
## 2921	2921	0	0	0	0	1	1	0	0	0	0	0
## 2922	2922	0	0	0	0	0	0	0	0	0	0	0
## 2923	2923	0	0	0	0	0	0	0	0	0	0	0
## 2924	2924	0	0	0	0	0	0	0	2	0	0	0
## 2925	2925	0	0	0	4	0	0	0	0	0	0	0
## 2926	2926	0	0	0	0	0	0	0	0	0	0	0
## 2927	2927	0	0	0	0	0	0	0	0	0	0	0
## 2928	2928	0	0	0	0	0	0	2	0	0	0	0
## 2929	2929	0	0	0	1	0	0	0	2	0	0	0
## 2930	2930	0	0	0	2	0	0	0	0	0	0	0
## 2931	2931	0	0	2	0	0	0	0	0	0	2	0
## 2932	2932	0	1	0	0	0	0	0	0	0	0	0
## 2933	2933	0	0	1	0	0	0	0	0	0	0	0
## 2934	2934	0	0	0	0	0	0	0	0	0	0	0
## 2935	2935	0	0	0	1	0	2	0	0	0	0	0
## 2936	2936	0	0	0	0	0	0	0	0	0	0	0
## 2937	2937	0	0	0	0	0	0	0	0	0	0	0
## 2938	2938	0	0	0	0	0	0	0	0	1	0	1
## 2939	2939	0	0	0	0	0	0	0	0	0	0	0
## 2940	2940	0	0	0	0	0	0	0	0	0	0	0
## 2941	2941	0	0	0	0	0	0	0	0	2	0	0
## 2942	2942	0	0	0	0	0	0	0	0	0	0	0
## 2943	2943	0	0	0	0	0	0	0	0	1	0	1
## 2944	2944	0	0	0	0	0	0	0	0	0	0	0
## 2945	2945	0	0	0	0	0	0	0	2	0	0	0
## 2946	2946	0	1	0	0	0	0	2	1	0	0	0

## 2947	2947	0	0	0	0	2	0	0	0	0	0	0
## 2948	2948	0	0	0	0	0	0	0	0	0	0	0
## 2949	2949	0	0	0	1	0	0	0	0	0	0	0
## 2950	2950	1	0	0	0	2	0	0	0	0	0	0
## 2951	2951	0	0	0	0	0	0	0	0	0	0	2
## 2952	2952	0	0	0	0	0	0	0	0	0	0	0
## 2953	2953	0	0	0	0	0	0	0	0	0	0	2
## 2954	2954	0	0	0	0	0	0	0	0	1	0	0
## 2955	2955	0	0	0	0	0	0	0	0	0	0	0
## 2956	2956	2	0	0	0	0	0	0	0	0	0	0
## 2957	2957	0	0	0	0	0	0	0	0	0	0	0
## 2958	2958	0	2	0	0	0	0	0	0	0	0	0
## 2959	2959	0	0	0	0	0	0	0	0	0	0	0
## 2960	2960	0	0	0	0	0	0	0	0	0	0	0
## 2961	2961	0	0	0	0	0	0	2	1	0	0	0
## 2962	2962	0	0	2	0	0	0	0	0	0	0	0
## 2963	2963	0	0	0	0	1	0	1	0	0	0	0
## 2964	2964	0	0	0	0	0	0	0	0	0	0	0
## 2965	2965	1	0	0	0	0	0	0	0	0	0	0
## 2966	2966	0	0	0	0	2	0	0	0	0	0	0
## 2967	2967	0	0	0	0	0	0	0	0	0	0	2
## 2968	2968	0	0	0	0	0	0	0	0	0	0	1
## 2969	2969	0	0	0	0	0	0	0	0	0	0	0
## 2970	2970	0	1	0	0	0	0	0	0	0	0	0
## 2971	2971	0	0	0	0	0	0	0	0	0	0	0
## 2972	2972	0	0	0	0	0	0	0	0	0	0	0
## 2973	2973	0	0	0	0	0	0	0	0	0	0	0
## 2974	2974	0	0	0	2	0	0	0	0	0	0	0
## 2975	2975	0	0	0	2	0	2	0	0	0	0	0
## 2976	2976	0	2	0	0	0	0	0	0	0	0	0
## 2977	2977	0	0	2	0	0	0	0	0	0	0	0
## 2978	2978	0	0	0	0	0	0	0	2	0	0	0
## 2979	2979	0	0	0	0	0	0	0	0	0	0	0
## 2980	2980	0	0	0	0	0	0	0	1	0	1	0
## 2981	2981	0	0	2	0	0	0	0	0	0	0	0
## 2982	2982	0	0	1	1	0	1	0	0	0	0	0
## 2983	2983	0	0	0	0	0	0	1	0	0	0	0
## 2984	2984	0	1	1	0	0	0	0	0	0	0	0
## 2985	2985	0	0	0	0	2	0	0	0	0	0	0
## 2986	2986	0	0	0	0	3	1	1	0	0	0	0
## 2987	2987	1	1	0	0	0	0	1	0	0	0	0
## 2988	2988	0	0	0	0	0	0	0	0	0	0	2
## 2989	2989	0	0	0	0	0	0	0	0	3	0	0
## 2990	2990	0	0	0	0	0	0	2	0	0	0	0
## 2991	2991	0	0	0	0	0	0	0	0	0	0	0
## 2992	2992	1	1	0	0	0	0	0	0	0	0	0
## 2993	2993	0	0	0	0	0	0	0	0	0	0	0
## 2994	2994	0	0	0	0	0	0	0	0	0	0	2
## 2995	2995	0	0	0	1	0	1	0	0	0	0	0
## 2996	2996	0	0	0	0	0	0	0	0	0	2	0
## 2997	2997	0	0	1	0	0	0	0	0	0	0	0
## 2998	2998	0	0	0	0	0	0	0	0	0	0	0
## 2999	2999	0	0	1	1	0	0	0	0	0	0	0
## 3000	3000	0	1	1	0	0	0	0	0	0	0	0

```

## 3001 3001 0 0 0 0 2 0 0 0 0 0 0 0
## 3002 3002 0 0 0 2 0 0 1 0 0 0 0 0
## 3003 3003 1 0 0 2 0 0 0 0 0 0 0 0
## 3004 3004 0 0 0 0 0 0 0 0 0 0 0 0
## 3005 3005 0 0 0 0 0 0 0 0 0 0 0 0
## 3006 3006 0 0 0 0 0 0 0 2 0 0 0 0
## 3007 3007 0 1 2 0 0 0 0 0 0 0 0 0
## 3008 3008 0 0 0 0 0 0 0 0 0 2 0 0
## 3009 3009 0 0 0 0 0 0 0 0 0 0 0 0
## 3010 3010 0 0 0 0 0 0 0 0 0 0 0 0
## 3011 3011 0 0 0 0 0 0 0 0 0 1 1 0
## 3012 3012 0 0 0 0 0 0 0 0 0 2 0 0
## 3013 3013 0 0 0 0 0 0 0 0 2 0 0 0
## 3014 3014 0 0 0 0 0 0 0 2 0 0 0 1
## 3015 3015 0 0 0 0 0 0 2 0 0 0 0 0
## 3016 3016 0 0 0 0 0 0 0 0 3 0 1 1
## 3017 3017 0 0 0 0 0 0 2 0 0 0 0 0
## 3018 3018 0 0 0 0 0 0 0 2 2 0 0 0
## 3019 3019 0 0 0 0 0 0 0 0 0 0 0 0
## 3020 3020 1 0 2 1 2 0 0 0 0 0 0 0
## 3021 3021 0 0 0 0 0 0 0 0 0 0 0 0
## 3022 3022 0 0 0 0 0 0 0 0 0 0 0 0
## 3023 3023 0 0 0 0 0 0 0 0 0 1 0 0
## 3024 3024 0 0 0 0 0 0 2 0 0 0 0 0
## 3025 3025 0 0 0 0 0 0 0 0 0 0 0 0
## 3026 3026 0 0 0 0 0 0 0 0 0 1 1 0
## 3027 3027 0 2 0 0 0 0 0 0 0 0 0 0
## 3028 3028 0 0 0 0 0 0 0 2 0 0 0 0
## 3029 3029 0 0 0 0 0 0 0 0 0 0 0 0
## 3030 3030 0 0 0 0 0 0 0 0 3 0 0 0
## 3031 3031 0 0 0 1 0 0 0 0 0 2 0 0
## 3032 3032 0 0 0 0 0 0 0 0 0 0 0 0
## 3033 3033 0 0 2 0 0 0 0 0 0 0 0 0
## 3034 3034 0 0 0 0 0 0 0 0 0 0 0 0
## 3035 3035 2 0 0 0 0 0 0 0 0 0 0 0
## 3036 3036 0 0 0 0 0 0 0 0 0 0 0 0
## 3037 3037 0 0 0 0 0 0 0 0 0 0 0 0
## 3038 3038 0 0 0 0 1 0 0 0 0 0 0 0
## 3039 3039 0 0 0 0 0 0 0 1 0 0 0 0
## 3040 3040 0 0 0 0 0 0 0 0 2 0 0 0
## 3041 3041 0 0 0 0 0 0 0 0 0 3 0 0
## 3042 3042 0 0 0 0 0 0 0 0 0 0 0 0
## 3043 3043 0 0 0 0 0 0 0 0 0 0 0 0
## 3044 3044 0 0 0 2 0 0 0 0 0 0 0 0
## 3045 3045 0 0 0 0 1 0 0 0 0 0 0 0
## 3046 3046 0 0 2 0 0 0 0 0 0 0 0 0
## 3047 3047 0 0 0 0 0 1 0 0 0 0 0 0
## 3048 3048 0 0 0 0 0 0 0 4 0 0 0 0
## 3049 3049 0 0 0 0 3 0 0 0 0 0 0 0
## 3050 3050 0 0 0 0 0 0 0 0 0 0 1 0
## 3051 3051 0 0 0 0 0 1 0 0 0 0 0 0
## 3052 3052 0 0 0 0 0 0 0 0 0 0 0 0
## 3053 3053 0 0 0 2 0 3 0 0 0 0 0 0
## 3054 3054 1 0 0 1 1 0 0 0 0 0 0 0

```

## 3055 3055	0	0	0	0	0	2	0	0	0	0	0
## 3056 3056	0	0	0	0	0	0	0	0	0	0	0
## 3057 3057	0	0	0	0	0	0	0	0	0	0	0
## 3058 3058	0	0	0	2	0	0	0	0	0	0	0
## 3059 3059	0	2	0	0	0	0	0	0	0	0	0
## 3060 3060	1	0	2	0	0	0	0	0	0	0	0
## 3061 3061	0	2	0	0	0	0	0	0	0	0	0
## 3062 3062	0	0	0	0	0	0	0	0	1	0	0
## 3063 3063	0	0	0	0	0	0	0	0	0	0	1
## 3064 3064	0	0	0	1	0	1	3	0	0	1	0
## 3065 3065	0	0	0	0	0	0	0	0	1	0	0
## 3066 3066	0	0	0	1	0	1	0	0	0	0	0
## 3067 3067	1	0	3	0	0	0	0	0	0	0	0
## 3068 3068	0	0	0	0	0	0	2	0	0	0	0
## 3069 3069	0	2	0	0	0	0	0	0	0	0	0
## 3070 3070	1	1	0	0	0	0	0	0	0	0	0
## 3071 3071	0	0	4	0	0	0	0	0	0	0	0
## 3072 3072	0	0	0	0	0	0	0	0	0	0	0
## 3073 3073	0	0	0	0	0	0	0	0	0	0	0
## 3074 3074	0	0	0	4	0	0	0	0	0	1	0
## 3075 3075	0	0	1	0	0	0	0	0	0	0	0
## 3076 3076	0	0	0	0	0	0	0	0	0	0	0
## 3077 3077	0	0	0	0	1	1	1	0	0	0	0
## 3078 3078	0	0	0	0	0	0	0	0	0	2	0
## 3079 3079	0	0	0	0	0	0	0	0	0	0	0
## 3080 3080	0	0	0	0	0	0	0	0	0	0	2
## 3081 3081	0	0	0	0	0	3	0	0	0	0	0
## 3082 3082	0	0	0	0	0	0	0	0	0	1	0
## 3083 3083	0	0	1	0	0	0	0	0	0	0	0
## 3084 3084	2	0	0	0	0	0	0	0	0	0	0
## 3085 3085	0	0	3	0	0	0	0	0	0	0	0
## 3086 3086	1	1	0	0	0	0	0	0	0	0	0
## 3087 3087	0	0	0	0	2	1	2	0	1	0	0
## 3088 3088	0	0	0	0	0	0	0	0	2	0	0
## 3089 3089	0	0	0	0	0	0	0	0	0	0	0
## 3090 3090	0	0	0	0	0	0	0	0	0	0	0
## 3091 3091	0	0	0	0	0	0	0	0	0	0	0
## 3092 3092	0	0	0	0	1	0	0	0	1	0	2
## 3093 3093	0	0	0	0	2	0	0	0	0	0	0
## 3094 3094	0	0	0	0	0	0	0	0	0	0	0
## 3095 3095	0	0	0	0	0	0	0	0	0	0	0
## 3096 3096	0	2	1	0	1	0	0	0	0	0	0
## 3097 3097	0	0	0	0	1	0	0	0	0	0	0
## 3098 3098	0	0	0	0	0	0	0	0	0	0	0
## 3099 3099	0	0	0	0	0	0	0	0	0	0	0
## 3100 3100	0	0	0	0	0	0	0	0	0	0	0
## 3101 3101	0	0	0	2	0	0	0	0	0	0	0
## 3102 3102	0	0	0	0	0	0	0	3	0	0	0
## 3103 3103	0	0	0	0	0	0	0	0	2	0	0
## 3104 3104	0	0	0	0	0	0	0	0	2	0	0
## 3105 3105	0	0	0	1	0	2	0	0	0	0	0
## 3106 3106	0	0	0	0	0	0	0	0	0	0	2
## 3107 3107	1	0	0	0	0	0	0	0	0	0	0
## 3108 3108	0	0	0	0	0	0	0	1	0	1	0

```

## 3109 3109 0 0 0 0 0 0 0 0 0 0 0 0
## 3110 3110 0 0 0 0 0 0 0 0 4 0 0 0
## 3111 3111 1 2 0 0 0 0 0 0 0 0 0 0 0
## 3112 3112 0 0 0 2 0 0 0 0 0 0 0 0 0
## 3113 3113 0 0 0 0 0 0 0 2 0 0 0 0 0
## 3114 3114 0 0 0 0 0 0 0 1 0 0 0 0 0
## 3115 3115 0 0 0 0 0 0 0 0 0 0 0 1 0
## 3116 3116 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3117 3117 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3118 3118 0 0 0 0 0 0 2 0 0 0 0 0 0
## 3119 3119 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3120 3120 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3121 3121 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3122 3122 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3123 3123 0 0 0 3 0 0 0 0 0 0 0 0 0
## 3124 3124 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3125 3125 0 0 0 0 2 0 0 0 0 0 0 0 0
## 3126 3126 0 0 2 0 0 0 0 0 0 0 0 0 0
## 3127 3127 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3128 3128 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3129 3129 0 0 0 0 0 0 0 2 0 0 0 0 0
## 3130 3130 0 0 0 0 2 0 0 0 0 0 0 0 0
## 3131 3131 0 0 0 0 0 0 0 0 0 0 0 2 0
## 3132 3132 0 0 0 0 0 0 0 1 2 0 0 0 0
## 3133 3133 0 0 0 0 0 0 2 0 0 0 0 0 0
## 3134 3134 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3135 3135 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3136 3136 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3137 3137 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3138 3138 0 0 0 0 0 0 0 0 0 0 0 1 0
## 3139 3139 0 0 0 2 0 0 0 0 0 0 0 0 0
## 3140 3140 0 1 0 0 0 0 0 0 0 0 0 0 0
## 3141 3141 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3142 3142 0 0 0 2 0 0 0 0 0 0 0 0 0
## 3143 3143 0 0 0 0 0 0 0 0 0 2 0 0 0
## 3144 3144 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3145 3145 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3146 3146 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3147 3147 0 0 0 0 0 0 0 3 0 0 0 0 0
## 3148 3148 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3149 3149 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3150 3150 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3151 3151 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3152 3152 0 0 0 0 0 0 0 2 0 0 0 0 0
## 3153 3153 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3154 3154 0 0 0 0 0 2 0 0 0 0 0 0 0
## 3155 3155 0 2 0 0 0 0 0 0 0 0 0 0 0
## 3156 3156 0 2 0 0 0 0 0 0 0 0 0 0 0
## 3157 3157 0 0 0 0 0 0 0 2 2 2 2 0 0
## 3158 3158 0 1 0 0 0 1 0 0 0 0 0 2 0
## 3159 3159 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3160 3160 0 0 0 0 0 0 1 0 0 0 0 0 0
## 3161 3161 0 0 0 2 0 1 0 0 0 0 0 0 0
## 3162 3162 0 0 0 0 0 0 3 0 0 0 0 0 0

```

```

## 3163 3163 0 0 0 0 0 0 2 0 0 0 0 0
## 3164 3164 2 0 0 0 0 0 0 0 0 0 0 0
## 3165 3165 0 0 0 0 0 0 2 0 0 0 0 0
## 3166 3166 0 0 1 0 0 0 0 0 0 0 0 0
## 3167 3167 0 0 0 0 0 0 0 0 0 0 0 0
## 3168 3168 0 0 0 0 0 0 0 2 0 0 0 0
## 3169 3169 0 0 0 0 0 0 2 0 0 0 0 0
## 3170 3170 0 0 0 0 0 0 0 0 0 0 0 0
## 3171 3171 2 0 0 0 0 0 0 1 0 0 0 0
## 3172 3172 0 0 0 0 0 0 0 0 0 0 0 0
## 3173 3173 0 0 0 0 0 0 0 0 0 0 0 0
## 3174 3174 0 0 0 0 0 0 2 5 0 0 0 0
## 3175 3175 0 0 0 0 2 0 0 0 0 0 0 0
## 3176 3176 0 0 0 0 0 3 0 0 0 0 0 0
## 3177 3177 1 1 1 1 0 0 0 0 0 0 0 0
## 3178 3178 1 1 1 0 0 0 0 0 0 0 0 0
## 3179 3179 0 0 0 0 0 0 0 0 2 0 0 0
## 3180 3180 0 0 1 0 1 0 0 0 0 0 0 0
## 3181 3181 0 0 0 0 0 0 0 0 0 0 0 0
## 3182 3182 0 0 0 0 0 0 0 0 0 0 0 2
## 3183 3183 0 0 0 0 0 0 0 0 0 0 0 0
## 3184 3184 0 0 0 0 1 1 0 0 0 0 0 0
## 3185 3185 1 1 0 1 0 0 0 0 0 0 0 0
## 3186 3186 0 1 0 0 0 0 0 0 0 0 0 0
## 3187 3187 0 0 0 0 0 0 0 0 0 0 0 0
## 3188 3188 0 0 2 0 0 0 0 0 0 0 0 0
## 3189 3189 0 0 0 0 2 0 0 0 1 0 0 0
## 3190 3190 0 0 0 0 2 0 0 0 0 0 0 0
## 3191 3191 0 0 0 0 0 2 0 0 0 0 0 0
## 3192 3192 0 0 0 0 2 0 0 0 0 0 0 0
## 3193 3193 0 1 0 1 3 2 0 0 0 1 0 0
## 3194 3194 0 0 0 0 0 0 0 0 0 0 1 2
## 3195 3195 0 0 0 0 0 2 0 0 0 0 0 1
## 3196 3196 0 0 0 0 0 0 0 0 0 0 0 0
## 3197 3197 0 0 0 0 0 0 0 0 2 0 0 0
## 3198 3198 0 0 0 0 0 0 0 0 0 0 0 0
## 3199 3199 0 0 0 0 0 0 0 0 0 0 0 1
## 3200 3200 0 0 0 0 0 0 0 0 0 0 0 0
## 3201 3201 0 0 0 0 0 0 0 0 0 0 0 0
## 3202 3202 0 0 0 0 0 0 0 0 0 0 0 0
## 3203 3203 0 0 0 0 0 0 1 0 0 0 0 0
## 3204 3204 0 0 0 0 2 1 0 0 0 0 1 0
## 3205 3205 0 0 0 0 0 0 0 0 0 0 0 1
## 3206 3206 0 0 0 0 2 0 0 0 0 0 0 0
## 3207 3207 0 0 0 0 3 0 0 0 0 0 0 0
## 3208 3208 0 1 0 0 0 1 0 0 0 0 0 0
## 3209 3209 0 0 0 0 0 0 2 0 1 0 0 0
## 3210 3210 1 1 0 0 0 0 0 0 0 0 0 0
## 3211 3211 0 0 0 0 2 0 0 0 0 0 0 0
## 3212 3212 0 0 0 0 0 0 0 0 0 0 0 0
## 3213 3213 0 0 0 0 0 0 0 0 0 0 0 0
## 3214 3214 0 0 0 0 0 0 0 0 0 0 0 0
## 3215 3215 0 0 0 0 0 0 0 0 0 0 0 0
## 3216 3216 0 0 0 0 2 0 0 0 0 0 0 0

```

```

## 3217 3217 0 0 0 0 0 0 0 0 0 0 0 0
## 3218 3218 0 0 0 0 0 0 0 0 0 0 0 0
## 3219 3219 0 0 0 0 0 0 0 2 0 0 0 0
## 3220 3220 0 0 0 0 0 0 0 0 0 0 0 0
## 3221 3221 0 0 0 0 0 0 0 1 0 2 0 0
## 3222 3222 0 0 0 0 0 0 0 0 0 0 0 0
## 3223 3223 1 0 2 0 0 0 0 0 0 0 0 0
## 3224 3224 0 0 0 0 2 0 0 0 0 0 0 0
## 3225 3225 0 0 0 0 0 0 0 0 0 0 0 0
## 3226 3226 0 0 0 0 0 0 0 0 0 2 0 0
## 3227 3227 0 0 0 0 0 0 0 0 0 0 2 0
## 3228 3228 0 0 0 2 1 0 0 0 0 0 0 0
## 3229 3229 0 0 1 0 0 0 0 0 0 0 0 0
## 3230 3230 0 0 0 0 0 0 0 1 0 0 0 0
## 3231 3231 0 0 0 0 0 0 0 0 0 0 0 2
## 3232 3232 3 0 2 0 0 0 0 0 0 0 0 0
## 3233 3233 0 0 0 0 0 0 0 0 0 0 0 0
## 3234 3234 0 0 0 0 0 0 0 0 0 0 0 0
## 3235 3235 1 0 0 0 0 0 4 1 0 1 2 0
## 3236 3236 0 0 0 0 0 0 0 0 2 0 0 0
## 3237 3237 0 0 0 0 0 0 0 0 2 0 0 0
## 3238 3238 0 0 0 0 0 0 0 0 0 0 0 0
## 3239 3239 0 0 0 0 0 0 0 0 0 0 0 0
## 3240 3240 0 1 0 0 0 0 0 0 1 0 0 0
## 3241 3241 0 0 0 0 0 0 0 0 0 0 0 0
## 3242 3242 0 0 0 0 0 0 0 0 3 0 0 0
## 3243 3243 0 0 0 0 0 0 0 1 0 0 0 0
## 3244 3244 0 0 0 0 0 0 0 0 0 0 0 0
## 3245 3245 0 0 0 0 0 0 0 0 0 0 0 0
## 3246 3246 0 1 2 0 0 0 0 0 0 0 0 0
## 3247 3247 0 0 0 0 2 0 0 0 0 0 0 0
## 3248 3248 0 0 0 0 0 0 0 0 0 0 2 0
## 3249 3249 0 0 0 0 2 0 0 0 0 0 0 0
## 3250 3250 0 0 0 0 0 0 0 0 0 0 0 0
## 3251 3251 2 0 0 0 0 0 0 0 0 0 0 0
## 3252 3252 0 0 0 0 0 0 0 0 2 0 0 0
## 3253 3253 0 0 0 0 0 0 0 0 0 0 0 0
## 3254 3254 0 0 0 0 0 0 0 0 0 0 0 0
## 3255 3255 0 0 0 0 0 0 0 0 0 0 0 0
## 3256 3256 0 0 0 1 0 0 0 0 0 0 0 0
## 3257 3257 0 0 0 0 0 0 0 0 0 2 0 0
## 3258 3258 0 0 0 0 0 0 0 0 0 0 0 0
## 3259 3259 0 0 0 0 0 0 0 1 0 0 1 0
## 3260 3260 1 2 1 0 0 0 0 0 0 0 0 0
## 3261 3261 0 0 0 0 0 0 0 0 0 0 0 0
## 3262 3262 0 0 0 0 0 0 0 0 0 0 0 0
## 3263 3263 1 0 0 0 0 0 0 0 0 0 0 0
## 3264 3264 2 0 0 0 0 0 0 0 0 0 0 0
## 3265 3265 0 0 0 0 0 0 0 0 0 0 0 0
## 3266 3266 0 0 0 0 0 0 0 0 0 0 0 0
## 3267 3267 0 0 0 0 0 0 0 0 0 0 0 0
## 3268 3268 0 0 0 0 0 0 0 0 0 0 0 0
## 3269 3269 0 0 0 0 0 0 0 0 0 0 0 0
## 3270 3270 0 0 0 2 0 0 0 0 0 0 0 0

```

## 3271	3271	0	0	0	0	0	0	0	0	0	0	0
## 3272	3272	0	2	0	0	0	0	0	0	0	0	0
## 3273	3273	0	0	0	0	0	0	0	0	0	0	0
## 3274	3274	0	0	0	0	0	0	0	0	0	0	0
## 3275	3275	0	0	0	0	0	0	0	0	0	0	2
## 3276	3276	0	0	0	0	1	1	0	1	0	0	0
## 3277	3277	0	0	0	3	0	0	1	0	0	0	0
## 3278	3278	0	0	0	0	0	0	2	0	0	0	0
## 3279	3279	0	0	0	0	2	0	0	0	0	0	0
## 3280	3280	0	2	0	1	0	2	0	0	0	0	0
## 3281	3281	0	0	0	0	2	0	0	0	0	0	0
## 3282	3282	0	0	0	0	0	0	0	0	0	0	0
## 3283	3283	0	0	1	2	0	0	0	0	0	0	0
## 3284	3284	0	0	0	0	0	0	1	0	0	0	0
## 3285	3285	0	0	0	0	1	0	0	0	0	0	0
## 3286	3286	0	0	0	0	0	0	0	0	0	0	0
## 3287	3287	0	2	0	0	0	0	0	0	0	0	0
## 3288	3288	0	0	0	0	0	0	0	0	0	0	0
## 3289	3289	0	0	0	0	1	0	0	0	0	0	0
## 3290	3290	0	1	0	0	0	0	0	0	0	0	0
## 3291	3291	0	0	3	0	0	0	0	0	0	0	0
## 3292	3292	0	0	0	0	0	0	0	0	0	0	0
## 3293	3293	0	0	0	0	0	0	0	0	0	0	0
## 3294	3294	0	0	0	0	0	0	2	0	0	0	0
## 3295	3295	0	0	0	1	0	0	0	0	0	0	0
## 3296	3296	0	0	0	0	0	0	0	0	0	2	0
## 3297	3297	0	0	0	0	0	0	0	0	0	0	0
## 3298	3298	0	0	0	0	0	2	0	0	0	0	0
## 3299	3299	0	0	0	0	0	0	0	0	0	0	0
## 3300	3300	0	0	0	0	0	0	0	0	0	0	0
## 3301	3301	0	0	0	1	0	0	0	0	0	0	0
## 3302	3302	0	0	1	0	0	0	0	0	0	0	0
## 3303	3303	0	0	0	0	0	1	0	1	0	0	0
## 3304	3304	0	0	1	0	0	0	0	0	0	0	0
## 3305	3305	0	0	0	0	0	2	0	0	0	0	0
## 3306	3306	0	0	0	0	0	0	0	0	1	1	1
## 3307	3307	0	2	0	0	0	0	0	0	0	0	0
## 3308	3308	0	0	0	0	0	0	0	0	0	0	0
## 3309	3309	0	0	0	0	0	3	0	0	0	0	0
## 3310	3310	0	0	0	0	0	0	0	0	0	0	0
## 3311	3311	0	0	0	0	0	0	0	0	0	0	0
## 3312	3312	0	0	0	0	0	0	0	1	0	0	0
## 3313	3313	0	0	0	0	0	0	0	0	2	0	0
## 3314	3314	0	0	0	0	0	0	0	0	0	0	0
## 3315	3315	0	0	0	0	0	0	0	0	0	0	0
## 3316	3316	0	0	0	0	0	0	0	0	0	0	0
## 3317	3317	0	0	0	0	0	0	0	0	0	0	0
## 3318	3318	0	0	0	0	0	0	0	0	2	0	0
## 3319	3319	0	0	0	0	4	1	0	0	0	0	0
## 3320	3320	0	0	0	0	0	0	0	0	0	1	1
## 3321	3321	0	0	0	0	0	0	0	0	0	0	0
## 3322	3322	0	0	0	0	0	0	0	0	2	0	1
## 3323	3323	0	0	0	0	0	0	0	3	0	0	0
## 3324	3324	0	0	0	0	1	0	0	0	0	0	0

```

## 3325 3325 0 0 0 0 0 0 0 0 0 0 0 0
## 3326 3326 0 0 0 0 2 0 0 0 0 0 0 0
## 3327 3327 0 0 0 0 0 0 0 0 2 0 0 0
## 3328 3328 0 0 0 0 0 0 0 0 0 0 0 1
## 3329 3329 0 0 0 0 0 0 0 0 0 0 0 0
## 3330 3330 0 0 0 0 0 0 0 0 0 0 2 0
## 3331 3331 0 0 0 0 2 0 0 0 1 0 0 0
## 3332 3332 0 0 0 0 0 0 0 0 0 0 3 0
## 3333 3333 0 0 0 0 0 0 0 0 0 0 0 0
## 3334 3334 0 0 0 0 0 0 0 1 0 0 0 0
## 3335 3335 0 0 0 0 0 0 2 0 0 0 0 0
## 3336 3336 0 0 0 0 0 0 0 0 0 0 0 0
## 3337 3337 0 0 0 0 0 0 0 0 0 0 0 0
## 3338 3338 0 0 0 0 0 0 0 0 0 0 0 0
## 3339 3339 0 0 0 0 0 0 0 1 2 0 0 0
## 3340 3340 0 0 2 0 0 0 0 0 0 0 0 0
## 3341 3341 0 0 0 0 0 0 2 0 0 0 0 0
## 3342 3342 0 0 0 2 3 0 0 2 0 0 0 0
## 3343 3343 0 0 0 0 0 0 0 3 0 0 0 1
## 3344 3344 0 0 0 0 0 0 0 0 0 0 2 0
## 3345 3345 0 0 0 0 0 0 2 0 0 0 0 0
## 3346 3346 0 0 0 0 0 0 0 0 0 0 0 0
## 3347 3347 0 0 0 0 3 0 0 0 0 0 0 0
## 3348 3348 0 0 0 0 0 1 0 0 0 0 0 0
## 3349 3349 0 0 0 0 0 0 0 0 0 0 0 2
## 3350 3350 0 0 0 0 0 0 0 2 0 0 0 0
## 3351 3351 0 0 2 0 1 0 0 0 0 0 0 2
## 3352 3352 0 0 0 0 0 0 0 0 0 0 0 0
## 3353 3353 0 1 1 0 0 0 0 0 0 0 0 0
## 3354 3354 0 0 0 0 0 0 0 0 0 0 0 2
## 3355 3355 0 0 0 0 0 1 0 0 0 0 0 0
## 3356 3356 0 0 0 0 1 0 0 0 0 0 0 0
## 3357 3357 0 0 0 0 0 0 0 0 0 0 0 0
## 3358 3358 0 0 0 0 0 0 0 0 0 0 0 0
## 3359 3359 0 0 0 0 0 0 0 0 0 0 0 0
## 3360 3360 0 0 0 0 3 0 0 0 0 0 0 0
## 3361 3361 0 0 0 0 0 0 0 0 0 0 0 0
## 3362 3362 0 0 0 2 0 0 0 0 0 0 2 0
## 3363 3363 0 0 0 2 0 0 0 0 0 0 0 0
## 3364 3364 0 0 0 0 0 0 0 2 0 0 0 0
## 3365 3365 0 0 0 1 0 0 0 0 0 0 0 0
## 3366 3366 0 0 0 0 0 3 0 0 0 0 0 0
## 3367 3367 0 0 0 0 0 0 0 0 0 0 0 0
## 3368 3368 0 0 0 0 0 0 0 1 0 0 0 0
## 3369 3369 0 0 0 0 0 0 0 0 0 0 0 0
## 3370 3370 0 0 0 0 0 0 0 0 0 0 0 0
## 3371 3371 0 0 0 0 0 0 0 1 0 0 0 1
## 3372 3372 1 0 0 0 1 2 0 0 0 0 0 0
## 3373 3373 0 2 0 0 0 0 0 0 0 0 0 0
## 3374 3374 0 0 0 0 0 0 0 0 0 3 0 0
## 3375 3375 0 1 0 0 0 0 0 0 0 0 0 0
## 3376 3376 0 0 0 0 0 4 0 0 0 0 0 0
## 3377 3377 0 0 1 0 0 0 0 0 0 0 0 0
## 3378 3378 0 0 0 0 0 0 0 0 0 0 0 0

```

## 3379	3379	0	0	0	0	0	0	2	0	0	0	1
## 3380	3380	0	0	2	0	1	0	0	0	0	0	0
## 3381	3381	0	0	0	1	0	0	0	0	0	0	0
## 3382	3382	0	0	0	0	0	0	0	0	0	0	0
## 3383	3383	0	0	0	0	0	0	2	0	0	0	0
## 3384	3384	0	0	0	0	0	0	0	2	0	0	0
## 3385	3385	0	0	0	0	0	1	0	0	0	0	0
## 3386	3386	0	0	0	0	0	0	0	0	0	0	0
## 3387	3387	0	0	0	0	0	0	0	0	0	0	0
## 3388	3388	0	0	0	2	0	0	0	0	0	0	0
## 3389	3389	0	0	0	0	0	0	0	1	0	0	0
## 3390	3390	0	0	0	0	0	0	0	0	1	0	2
## 3391	3391	0	2	0	0	0	0	0	0	0	0	0
## 3392	3392	0	0	0	0	0	0	1	0	0	0	0
## 3393	3393	0	0	0	0	0	0	2	2	0	0	0
## 3394	3394	0	0	0	0	0	0	0	0	0	1	0
## 3395	3395	0	0	0	0	0	0	0	2	0	0	0
## 3396	3396	0	0	0	0	0	0	0	0	0	0	0
## 3397	3397	0	0	0	0	0	0	0	0	0	0	0
## 3398	3398	1	2	0	1	0	0	0	0	0	0	0
## 3399	3399	0	0	0	0	0	0	0	0	0	0	0
## 3400	3400	0	0	0	0	0	0	0	0	0	0	0
## 3401	3401	0	0	0	0	0	0	0	0	0	0	0
## 3402	3402	0	0	0	2	0	0	0	0	0	0	0
## 3403	3403	0	0	0	1	0	0	0	0	0	0	0
## 3404	3404	0	2	0	0	0	0	0	0	0	0	0
## 3405	3405	0	2	0	0	0	0	0	0	0	0	0
## 3406	3406	0	0	0	0	0	0	2	0	0	0	0
## 3407	3407	0	0	0	0	0	0	0	3	0	0	0
## 3408	3408	0	0	2	0	0	0	0	0	0	0	0
## 3409	3409	0	0	0	1	1	0	0	0	0	0	0
## 3410	3410	0	0	0	2	1	0	0	1	0	0	0
## 3411	3411	0	0	0	1	0	0	0	0	0	0	0
## 3412	3412	0	0	0	0	0	0	0	1	2	0	0
## 3413	3413	0	0	0	0	0	0	0	0	0	0	0
## 3414	3414	2	0	0	0	0	1	0	0	0	0	0
## 3415	3415	0	0	0	0	0	0	0	0	0	2	0
## 3416	3416	0	1	0	0	0	0	0	1	0	0	0
## 3417	3417	0	0	0	0	0	0	0	0	0	0	0
## 3418	3418	0	0	0	0	0	3	1	0	0	0	0
## 3419	3419	0	2	0	0	0	0	0	0	0	0	0
## 3420	3420	0	0	0	0	0	0	0	0	0	0	0
## 3421	3421	1	0	0	0	0	0	0	0	0	0	0
## 3422	3422	0	0	0	0	0	0	0	0	0	0	0
## 3423	3423	0	0	0	0	0	0	0	0	0	0	0
## 3424	3424	0	0	0	0	0	0	0	0	0	0	0
## 3425	3425	0	0	0	0	0	0	0	1	0	1	0
## 3426	3426	0	0	0	0	0	0	0	0	0	0	0
## 3427	3427	0	0	0	0	0	0	1	0	0	0	0
## 3428	3428	0	0	2	0	0	0	0	0	0	0	0
## 3429	3429	0	0	0	0	0	0	0	0	0	0	0
## 3430	3430	0	0	0	0	0	2	0	0	0	0	0
## 3431	3431	0	0	0	0	0	0	0	0	0	0	0
## 3432	3432	0	0	0	0	0	0	0	0	0	0	0

## 3433 3433	0	0	0	1	0	0	0	0	0	0	0
## 3434 3434	0	0	0	0	0	0	0	0	0	0	0
## 3435 3435	0	0	0	0	0	0	0	0	0	0	1
## 3436 3436	0	0	0	0	0	0	0	0	0	0	0
## 3437 3437	0	0	0	0	0	0	0	0	0	0	0
## 3438 3438	0	0	0	0	0	0	0	0	0	2	0
## 3439 3439	0	0	0	0	0	0	0	0	0	0	0
## 3440 3440	0	0	0	0	0	0	0	0	2	0	0
## 3441 3441	0	0	0	2	0	0	0	0	0	0	0
## 3442 3442	0	0	0	0	0	2	0	0	0	0	0
## 3443 3443	0	0	0	0	2	0	0	0	0	0	0
## 3444 3444	0	0	0	0	0	0	0	0	0	0	0
## 3445 3445	0	0	0	2	0	0	0	0	0	0	0
## 3446 3446	0	0	0	0	0	0	0	0	2	1	0
## 3447 3447	2	0	0	0	0	0	0	0	0	0	0
## 3448 3448	0	0	1	0	0	0	0	0	0	0	0
## 3449 3449	0	0	0	0	0	0	0	0	0	0	0
## 3450 3450	0	0	0	2	0	0	0	0	1	0	0
## 3451 3451	0	0	2	0	0	0	0	0	0	0	0
## 3452 3452	0	0	0	0	2	0	0	0	0	0	0
## 3453 3453	0	0	0	0	0	0	0	0	0	0	0
## 3454 3454	0	0	0	0	0	0	0	0	2	0	1
## 3455 3455	0	0	0	0	0	0	0	0	0	0	0
## 3456 3456	0	1	0	0	0	0	0	0	0	0	0
## 3457 3457	0	0	0	0	0	0	0	0	0	0	0
## 3458 3458	0	0	0	0	0	0	0	0	0	0	0
## 3459 3459	0	0	0	0	0	0	2	0	0	0	0
## 3460 3460	1	3	0	0	0	0	0	0	0	0	0
## 3461 3461	0	0	0	0	0	0	0	0	0	0	0
## 3462 3462	0	0	0	0	0	0	0	0	0	1	0
## 3463 3463	0	0	1	0	0	0	0	0	0	0	0
## 3464 3464	0	0	0	0	0	0	0	0	0	0	2
## 3465 3465	0	2	0	0	0	0	0	0	0	0	0
## 3466 3466	1	0	0	0	0	0	0	0	0	0	0
## 3467 3467	0	1	3	0	0	0	0	0	0	0	0
## 3468 3468	0	0	0	0	0	2	0	0	0	0	0
## 3469 3469	0	0	0	0	0	0	1	0	0	0	0
## 3470 3470	0	1	0	0	0	0	0	0	0	0	0
## 3471 3471	0	0	0	0	0	0	0	0	1	0	0
## 3472 3472	0	0	0	1	0	1	0	0	0	0	0
## 3473 3473	0	0	0	0	0	0	0	0	0	0	0
## 3474 3474	0	1	0	0	0	0	1	0	0	0	0
## 3475 3475	0	0	0	0	0	0	0	0	3	0	0
## 3476 3476	0	0	0	0	0	0	0	0	0	0	0
## 3477 3477	0	0	0	1	0	0	0	0	0	0	0
## 3478 3478	0	0	0	0	0	0	0	0	0	0	0
## 3479 3479	0	1	1	0	0	0	1	0	0	0	0
## 3480 3480	0	0	0	0	3	0	0	0	0	0	0
## 3481 3481	1	0	0	0	0	0	0	0	0	0	0
## 3482 3482	0	0	0	0	0	0	0	0	0	0	0
## 3483 3483	0	0	0	0	0	0	0	0	0	0	0
## 3484 3484	0	0	0	0	0	0	0	0	0	0	0
## 3485 3485	0	0	0	3	0	0	0	0	0	0	0
## 3486 3486	0	2	0	0	0	0	0	0	0	0	0

## 3487 3487	1	0	0	0	0	0	0	0	0	0	0
## 3488 3488	0	0	0	0	0	0	0	0	0	0	0
## 3489 3489	0	1	0	1	0	0	0	0	0	0	0
## 3490 3490	0	0	0	0	0	0	0	0	0	0	0
## 3491 3491	0	0	0	0	0	0	0	0	0	0	0
## 3492 3492	0	0	0	0	0	0	1	0	0	0	0
## 3493 3493	0	0	0	0	0	0	0	2	0	0	0
## 3494 3494	0	0	0	0	0	1	0	0	0	0	0
## 3495 3495	0	0	0	0	0	0	0	0	0	0	0
## 3496 3496	0	0	0	0	0	0	0	0	3	0	2
## 3497 3497	0	0	0	1	0	0	0	0	0	1	0
## 3498 3498	1	1	0	0	0	0	0	0	0	0	0
## 3499 3499	0	0	0	0	0	0	0	0	0	0	0
## 3500 3500	0	0	0	0	0	0	0	0	0	0	0
## 3501 3501	0	0	0	0	2	0	0	0	0	0	0
## 3502 3502	0	0	0	0	0	0	0	0	0	1	1
## 3503 3503	0	0	0	2	0	0	0	0	0	0	0
## 3504 3504	0	0	0	0	0	0	1	0	1	0	0
## 3505 3505	0	0	0	0	0	3	0	0	0	0	0
## 3506 3506	0	0	0	0	0	0	1	0	0	0	0
## 3507 3507	0	0	0	0	0	0	0	0	0	0	0
## 3508 3508	0	0	1	0	2	0	0	0	0	0	0
## 3509 3509	0	0	0	0	0	0	0	0	0	0	0
## 3510 3510	0	0	0	0	0	0	0	0	0	0	0
## 3511 3511	0	1	0	0	0	0	0	0	0	0	0
## 3512 3512	0	0	0	0	0	0	0	0	0	0	0
## 3513 3513	0	0	0	0	0	2	0	0	0	0	0
## 3514 3514	1	0	0	0	0	0	1	0	0	0	0
## 3515 3515	0	0	0	0	0	0	0	0	0	0	0
## 3516 3516	0	0	0	0	0	0	0	0	0	0	0
## 3517 3517	0	0	0	0	0	3	0	0	0	0	0
## 3518 3518	0	0	0	0	0	2	0	0	0	0	0
## 3519 3519	0	0	0	0	0	0	0	0	0	0	2
## 3520 3520	0	0	0	0	0	0	0	0	0	0	0
## 3521 3521	0	0	0	0	0	0	0	0	0	0	0
## 3522 3522	0	0	0	1	0	0	0	0	0	0	0
## 3523 3523	0	0	0	0	0	0	0	0	0	0	0
## 3524 3524	0	0	0	2	0	0	0	0	0	0	0
## 3525 3525	0	0	0	0	0	0	0	0	0	0	0
## 3526 3526	0	0	0	0	0	0	0	0	0	0	3
## 3527 3527	0	0	0	0	0	1	0	0	0	0	0
## 3528 3528	0	0	0	0	0	0	0	0	0	4	0
## 3529 3529	0	0	0	0	0	0	0	0	0	0	1
## 3530 3530	0	0	0	0	0	0	0	0	0	0	0
## 3531 3531	0	0	0	0	0	0	0	0	0	0	1
## 3532 3532	0	0	2	0	0	0	0	0	0	0	0
## 3533 3533	0	0	0	0	2	0	0	0	0	0	0
## 3534 3534	0	2	0	0	0	0	0	0	0	0	0
## 3535 3535	0	0	0	0	0	0	0	0	0	0	0
## 3536 3536	2	0	0	0	0	0	0	0	0	0	0
## 3537 3537	0	0	0	0	0	0	2	0	0	0	0
## 3538 3538	0	0	0	0	0	0	0	0	0	0	0
## 3539 3539	0	0	0	0	0	0	0	0	0	1	0
## 3540 3540	0	0	0	0	1	0	0	0	0	0	0

## 3541	3541	0	0	0	0	0	0	0	0	0	0	0
## 3542	3542	0	0	0	0	0	0	0	0	1	1	
## 3543	3543	0	0	0	0	0	0	0	0	0	2	
## 3544	3544	0	0	2	0	0	0	0	0	0	0	0
## 3545	3545	0	0	0	0	0	0	0	0	1	0	
## 3546	3546	0	0	2	0	0	0	0	0	0	0	
## 3547	3547	0	0	0	0	0	0	0	0	0	0	
## 3548	3548	0	0	0	0	0	0	0	0	0	0	
## 3549	3549	0	0	0	0	0	0	0	2	0	0	
## 3550	3550	0	0	0	0	0	0	0	0	0	0	
## 3551	3551	0	0	0	0	0	0	2	0	0	0	
## 3552	3552	0	0	0	0	0	0	0	0	0	0	
## 3553	3553	0	0	0	0	0	0	2	0	0	0	
## 3554	3554	0	0	0	0	0	0	0	0	0	0	
## 3555	3555	0	0	2	0	0	0	0	0	0	0	
## 3556	3556	0	0	0	0	1	0	2	0	0	0	
## 3557	3557	0	0	0	0	0	0	1	0	0	0	
## 3558	3558	0	0	0	0	0	0	0	0	0	0	
## 3559	3559	0	0	0	0	0	6	0	0	0	0	
## 3560	3560	0	0	0	0	0	0	0	0	0	0	
## 3561	3561	0	0	0	0	0	0	0	0	0	0	
## 3562	3562	0	0	0	0	0	0	0	0	0	0	
## 3563	3563	0	0	0	0	0	0	0	0	0	0	
## 3564	3564	0	0	0	0	0	0	0	0	0	0	
## 3565	3565	0	1	0	0	0	0	0	0	0	0	
## 3566	3566	0	1	0	0	0	0	0	0	0	0	
## 3567	3567	0	0	0	1	0	0	0	0	0	0	1
## 3568	3568	0	0	0	1	0	0	0	0	0	0	0
## 3569	3569	0	0	0	0	2	2	0	0	0	0	
## 3570	3570	0	0	0	0	0	0	2	0	0	0	
## 3571	3571	0	0	0	0	0	0	0	0	0	0	
## 3572	3572	0	0	0	0	0	1	0	0	0	0	
## 3573	3573	0	0	0	0	0	0	0	0	0	0	2
## 3574	3574	0	0	0	0	0	0	0	0	0	0	0
## 3575	3575	0	0	0	1	0	0	1	1	0	1	0
## 3576	3576	0	0	0	0	0	0	0	0	0	0	1
## 3577	3577	0	0	0	0	0	0	2	0	0	0	0
## 3578	3578	0	0	0	0	0	0	0	0	0	0	0
## 3579	3579	0	0	0	0	0	0	0	0	0	0	0
## 3580	3580	0	0	2	0	0	0	0	0	0	0	0
## 3581	3581	0	1	0	0	1	0	0	1	0	0	0
## 3582	3582	0	0	0	0	0	0	0	0	0	0	0
## 3583	3583	0	0	0	0	0	0	0	0	0	0	0
## 3584	3584	0	2	0	0	0	0	0	0	0	0	0
## 3585	3585	0	0	0	0	0	0	0	0	0	2	0
## 3586	3586	0	0	0	0	0	0	0	0	0	0	0
## 3587	3587	0	0	0	0	0	0	0	0	0	2	0
## 3588	3588	0	0	0	0	0	0	0	0	2	1	0
## 3589	3589	0	0	0	0	0	0	0	0	0	0	0
## 3590	3590	0	0	0	0	0	0	0	2	0	0	0
## 3591	3591	0	0	0	0	0	0	2	0	0	0	0
## 3592	3592	0	0	0	0	0	0	0	0	0	0	0
## 3593	3593	0	2	0	0	0	0	0	0	0	0	0
## 3594	3594	0	0	0	0	0	0	0	0	0	0	0

## 3595 3595	1	0	1	0	0	0	0	0	0	0	0
## 3596 3596	0	0	0	2	0	0	0	0	0	0	0
## 3597 3597	0	0	0	0	0	0	0	1	0	0	1
## 3598 3598	0	0	0	0	0	0	0	0	0	0	0
## 3599 3599	0	0	0	0	0	0	0	0	0	0	0
## 3600 3600	0	0	0	1	0	0	0	0	0	0	0
## 3601 3601	0	0	0	0	0	0	0	2	0	0	0
## 3602 3602	0	0	0	0	0	0	0	2	0	0	0
## 3603 3603	0	0	0	0	0	0	0	2	0	0	0
## 3604 3604	0	0	0	0	0	0	0	0	2	0	0
## 3605 3605	0	0	0	0	0	0	0	0	3	0	0
## 3606 3606	0	0	0	0	1	0	1	0	1	0	1
## 3607 3607	0	0	0	0	0	0	1	2	0	0	0
## 3608 3608	0	0	0	0	0	0	2	0	0	0	0
## 3609 3609	0	0	0	0	0	0	0	0	0	0	0
## 3610 3610	0	0	0	0	0	0	0	0	0	0	0
## 3611 3611	0	0	2	0	0	0	0	0	0	0	0
## 3612 3612	1	1	0	2	0	0	0	2	0	0	0
## 3613 3613	0	0	0	0	0	0	0	0	0	0	0
## 3614 3614	0	0	0	0	0	0	0	0	0	0	0
## 3615 3615	0	0	0	0	0	2	0	0	0	0	0
## 3616 3616	0	0	0	0	0	0	0	0	0	0	0
## 3617 3617	0	0	0	0	0	0	2	0	0	0	0
## 3618 3618	1	0	0	1	0	0	3	0	0	0	0
## 3619 3619	0	0	0	0	0	0	0	0	2	0	0
## 3620 3620	0	0	0	0	0	0	0	0	0	0	0
## 3621 3621	0	0	1	0	0	0	0	0	0	0	0
## 3622 3622	0	0	0	0	1	0	0	0	0	0	0
## 3623 3623	0	0	0	0	0	0	0	0	0	0	0
## 3624 3624	0	0	0	0	0	0	0	0	0	0	0
## 3625 3625	1	0	0	0	0	0	0	0	0	0	0
## 3626 3626	0	0	0	0	0	0	0	0	2	0	0
## 3627 3627	0	0	0	0	0	0	0	2	0	0	0
## 3628 3628	0	0	0	0	0	0	0	0	0	0	0
## 3629 3629	2	0	0	0	0	0	0	0	0	0	0
## 3630 3630	0	0	0	0	0	0	0	0	0	0	0
## 3631 3631	0	0	0	0	0	0	0	0	0	0	0
## 3632 3632	0	1	0	0	0	3	0	0	0	0	0
## 3633 3633	0	0	0	0	0	0	0	0	0	0	0
## 3634 3634	0	0	0	0	0	0	0	0	0	0	0
## 3635 3635	0	0	0	2	0	0	0	0	0	0	0
## 3636 3636	0	1	0	0	0	0	0	0	0	0	0
## 3637 3637	0	0	0	0	0	0	0	0	0	0	0
## 3638 3638	0	0	0	0	0	0	0	0	0	0	0
## 3639 3639	0	0	0	0	0	0	0	0	0	0	0
## 3640 3640	0	0	0	1	0	2	0	0	0	0	0
## 3641 3641	0	0	0	0	0	0	0	0	0	0	0
## 3642 3642	0	0	0	0	2	0	0	0	0	0	0
## 3643 3643	0	0	0	0	2	0	0	0	0	0	0
## 3644 3644	0	2	0	0	0	0	0	0	0	0	0
## 3645 3645	0	0	0	0	2	0	0	0	0	0	0
## 3646 3646	0	0	0	0	0	0	0	0	0	0	0
## 3647 3647	0	2	0	0	0	0	0	0	0	0	0
## 3648 3648	0	0	0	0	0	0	0	0	0	0	0

```

## 3649 3649 0 0 2 0 0 0 0 0 0 0 0 0
## 3650 3650 0 0 0 0 0 0 0 0 0 0 0 0
## 3651 3651 0 2 0 0 0 0 0 0 0 0 0 0
## 3652 3652 0 0 0 1 0 0 0 0 0 0 0 0
## 3653 3653 0 0 3 0 0 0 0 0 0 0 0 0
## 3654 3654 0 0 0 0 0 0 0 2 0 0 0 0
## 3655 3655 2 0 0 0 0 0 0 0 0 0 0 0
## 3656 3656 0 0 0 0 0 0 0 0 2 0 0 0
## 3657 3657 0 0 0 0 0 0 0 0 2 0 0 0
## 3658 3658 0 0 0 0 0 0 0 0 0 0 0 0
## 3659 3659 0 0 0 0 0 0 0 0 0 0 0 0
## 3660 3660 0 0 0 0 0 0 0 0 0 3 0 0
## 3661 3661 0 2 0 0 0 0 0 0 0 0 0 0
## 3662 3662 0 0 0 0 0 0 0 0 0 0 0 0
## 3663 3663 1 0 0 0 0 0 0 0 0 0 0 0
## 3664 3664 0 0 0 1 0 0 0 0 0 0 0 0
## 3665 3665 1 1 1 0 0 0 0 0 0 0 0 0
## 3666 3666 0 0 2 0 0 0 0 0 0 0 0 0
## 3667 3667 0 0 0 2 0 0 0 0 0 0 0 0
## 3668 3668 0 0 2 0 0 0 0 0 0 0 0 0
## 3669 3669 0 2 1 0 0 0 0 1 0 1 0 0
## 3670 3670 0 0 0 0 0 0 0 0 0 0 0 0
## 3671 3671 0 0 2 0 0 0 0 0 0 0 0 0
## 3672 3672 0 0 0 0 0 0 1 0 0 0 0 0
## 3673 3673 0 0 1 0 0 0 0 0 0 0 0 0
## 3674 3674 0 0 0 0 0 0 0 0 0 0 0 0
## 3675 3675 0 0 0 0 0 0 0 0 0 0 0 0
## 3676 3676 1 0 0 0 0 0 0 0 0 0 0 0
## 3677 3677 0 2 0 0 0 0 0 0 0 0 0 0
## 3678 3678 3 0 0 0 0 0 0 0 0 0 0 0
## 3679 3679 0 0 0 0 0 0 0 0 0 0 0 0
## 3680 3680 0 0 0 0 0 0 0 0 0 0 0 0
## 3681 3681 0 0 0 0 0 0 0 0 0 1 0 0
## 3682 3682 0 0 0 0 0 0 0 0 0 0 0 0
## 3683 3683 2 0 1 0 0 0 0 0 0 0 0 0
## 3684 3684 0 0 0 0 0 0 0 0 0 2 0 0
## 3685 3685 0 0 0 0 2 0 0 0 0 0 0 0
## 3686 3686 0 0 0 0 0 0 0 2 0 0 0 0
## 3687 3687 0 0 0 0 0 0 0 2 0 0 0 0
## 3688 3688 0 1 1 0 0 0 0 0 0 0 0 0
## 3689 3689 0 0 0 0 0 0 0 0 0 0 0 0
## 3690 3690 0 0 0 0 0 0 0 0 0 0 0 0
## 3691 3691 0 2 0 0 0 0 0 0 0 0 0 0
## 3692 3692 0 0 0 0 0 0 0 0 0 0 0 0
## 3693 3693 0 0 0 0 0 0 0 1 0 0 0 0
## 3694 3694 0 3 0 0 0 0 0 0 0 0 0 0
## 3695 3695 0 0 0 0 0 0 0 0 0 0 0 0
## 3696 3696 0 0 0 0 0 0 2 0 0 0 0 0
## 3697 3697 0 0 0 0 0 0 0 0 3 0 0 2
## 3698 3698 0 0 0 1 0 0 0 0 0 0 0 0
## 3699 3699 0 0 0 0 0 0 0 0 0 2 0 0
## 3700 3700 0 0 0 0 0 0 0 0 0 2 0 0
## 3701 3701 2 0 0 0 0 0 0 0 0 0 0 0
## 3702 3702 0 0 0 0 0 0 0 0 2 0 0 0

```

```

## 3703 3703 0 0 0 0 0 0 0 0 0 0 0 0
## 3704 3704 0 0 0 0 2 0 0 0 0 0 0 0
## 3705 3705 0 0 0 0 0 0 0 0 0 2 0 0
## 3706 3706 0 0 0 1 0 0 0 0 0 0 0 0
## 3707 3707 0 0 0 0 0 0 0 0 0 0 0 0
## 3708 3708 0 0 0 0 0 0 0 0 0 0 0 0
## 3709 3709 0 0 0 0 0 0 0 1 2 0 0 0
## 3710 3710 0 0 0 0 0 0 0 2 0 0 0 0
## 3711 3711 0 0 0 0 0 0 0 0 0 0 0 0
## 3712 3712 0 0 0 0 0 0 0 2 0 0 0 0
## 3713 3713 0 0 0 0 0 0 0 0 0 0 0 0
## 3714 3714 0 0 0 0 0 0 0 0 2 0 0 0
## 3715 3715 0 0 0 0 0 0 0 0 0 0 0 0
## 3716 3716 0 0 0 0 0 0 0 0 0 0 0 0
## 3717 3717 0 0 0 0 0 0 1 0 0 0 0 2
## 3718 3718 0 0 0 0 0 0 0 0 0 3 0 0
## 3719 3719 0 0 0 0 0 0 0 0 0 0 0 0
## 3720 3720 0 0 0 0 0 0 0 0 0 0 0 0
## 3721 3721 0 0 0 0 0 1 0 0 0 0 0 0
## 3722 3722 0 0 0 0 0 0 0 0 0 0 0 0
## 3723 3723 0 0 0 0 0 0 0 0 0 0 0 0
## 3724 3724 0 1 0 0 0 0 0 0 0 0 0 0
## 3725 3725 0 0 0 0 0 0 0 0 0 0 0 0
## 3726 3726 0 0 0 0 0 2 0 0 0 0 0 0
## 3727 3727 0 0 0 0 0 0 0 0 0 0 0 0
## 3728 3728 0 2 0 0 0 0 0 0 0 0 0 0
## 3729 3729 0 0 0 0 0 0 0 0 0 0 0 0
## 3730 3730 0 0 0 0 0 0 0 0 0 0 0 0
## 3731 3731 0 0 0 0 0 0 0 0 0 0 0 0
## 3732 3732 0 0 0 0 0 0 0 0 0 0 0 0
## 3733 3733 0 2 0 0 0 0 0 0 0 0 0 0
## 3734 3734 0 1 1 0 0 0 0 0 0 0 0 0
## 3735 3735 0 0 0 0 0 0 0 0 0 0 0 0
## 3736 3736 0 0 0 0 0 0 0 0 0 0 0 0
## 3737 3737 0 0 0 0 0 2 0 0 0 0 0 0
## 3738 3738 0 0 0 0 0 0 0 2 0 0 0 0
## 3739 3739 0 0 0 0 1 0 1 0 0 0 0 0
## 3740 3740 0 0 0 0 0 0 0 0 0 0 0 0
## 3741 3741 0 0 0 2 0 0 0 0 0 0 0 0
## 3742 3742 0 0 0 0 0 1 0 0 0 0 0 0
## 3743 3743 0 0 0 2 0 0 0 0 0 0 0 0
## 3744 3744 0 0 0 0 0 0 0 0 0 0 0 0
## 3745 3745 1 0 1 2 0 0 0 0 0 0 0 0
## 3746 3746 0 2 0 0 0 0 0 0 0 0 0 0
## 3747 3747 0 1 1 0 0 0 0 0 0 0 0 0
## 3748 3748 0 0 0 0 0 0 1 0 0 0 0 0
## 3749 3749 0 0 0 0 0 0 0 0 0 0 0 0
## 3750 3750 0 0 0 0 0 2 0 0 0 0 0 0
## 3751 3751 0 0 0 0 0 0 0 0 0 0 0 0
## 3752 3752 0 0 0 0 0 0 0 0 0 0 0 1
## 3753 3753 1 0 0 0 0 2 0 0 0 0 0 0
## 3754 3754 0 0 0 0 0 0 0 0 0 2 0 0
## 3755 3755 0 0 0 0 0 0 0 0 0 0 0 0
## 3756 3756 0 0 1 0 0 0 0 0 0 0 0 0

```

## 3757 3757	0	0	0	0	0	0	0	0	0	0	0
## 3758 3758	0	0	0	1	0	0	0	0	0	0	0
## 3759 3759	0	0	0	0	0	2	0	0	0	0	0
## 3760 3760	0	0	0	0	0	0	0	2	0	0	0
## 3761 3761	0	2	0	0	0	0	0	0	0	0	0
## 3762 3762	0	0	0	0	3	0	0	0	0	1	0
## 3763 3763	2	0	0	0	0	1	0	0	0	0	0
## 3764 3764	0	1	0	2	0	0	0	0	0	0	1
## 3765 3765	0	0	0	0	1	0	0	2	0	0	0
## 3766 3766	0	0	0	0	1	1	0	0	0	0	0
## 3767 3767	0	0	0	0	0	0	2	0	0	0	0
## 3768 3768	0	0	0	0	0	0	2	0	0	0	0
## 3769 3769	0	0	0	0	0	0	0	0	0	0	0
## 3770 3770	0	0	0	1	0	0	0	0	0	0	0
## 3771 3771	0	0	0	0	0	0	0	0	0	1	0
## 3772 3772	0	0	0	0	0	0	0	0	0	0	0
## 3773 3773	0	0	0	0	0	0	0	0	0	0	0
## 3774 3774	1	0	2	0	0	0	1	0	0	0	0
## 3775 3775	0	0	0	2	0	0	0	0	0	0	0
## 3776 3776	0	2	0	0	0	0	0	0	0	0	0
## 3777 3777	0	0	0	0	1	0	0	0	0	0	0
## 3778 3778	0	0	0	0	0	0	0	0	0	0	0
## 3779 3779	0	0	0	0	0	0	0	1	0	0	1
## 3780 3780	0	0	0	2	0	0	0	0	0	0	0
## 3781 3781	2	0	0	0	0	0	0	0	0	0	0
## 3782 3782	1	0	0	0	0	0	0	0	0	0	0
## 3783 3783	0	0	0	0	0	0	0	0	0	0	0
## 3784 3784	0	0	0	0	0	0	2	0	0	0	0
## 3785 3785	0	0	0	0	0	0	0	0	1	0	0
## 3786 3786	0	0	0	0	0	1	0	0	0	0	0
## 3787 3787	0	0	0	2	0	0	0	0	0	0	0
## 3788 3788	0	0	0	0	1	0	0	0	0	0	0
## 3789 3789	0	0	0	0	0	0	0	0	0	0	0
## 3790 3790	0	0	0	0	0	0	0	0	0	0	0
## 3791 3791	0	0	0	0	1	1	0	0	0	0	0
## 3792 3792	0	0	0	0	0	2	0	0	0	0	0
## 3793 3793	0	0	0	0	0	0	0	0	0	1	7
## 3794 3794	0	0	0	0	0	0	0	0	0	0	0
## 3795 3795	0	0	0	0	0	0	1	0	0	0	1
## 3796 3796	0	0	0	0	0	2	0	0	0	0	0
## 3797 3797	0	0	0	0	0	0	0	0	0	0	0
## 3798 3798	0	0	0	0	0	0	0	0	0	0	0
## 3799 3799	0	0	0	0	0	0	0	0	0	0	0
## 3800 3800	0	1	0	0	0	0	0	0	0	0	0
## 3801 3801	0	1	0	0	0	0	0	1	0	0	0
## 3802 3802	0	0	0	0	0	0	0	0	0	0	0
## 3803 3803	2	0	0	0	0	0	0	0	0	0	0
## 3804 3804	0	0	0	0	0	0	0	0	0	0	1
## 3805 3805	0	0	0	0	0	0	0	0	0	1	0
## 3806 3806	0	0	0	0	0	0	0	0	0	0	0
## 3807 3807	0	0	0	0	0	0	0	0	0	0	0
## 3808 3808	0	0	0	0	0	0	0	0	0	0	2
## 3809 3809	0	0	0	0	0	0	0	0	0	0	0
## 3810 3810	0	0	1	0	3	0	0	0	0	0	0

```

## 3811 3811 0 0 0 0 2 4 0 0 0 1 0
## 3812 3812 0 0 0 0 0 0 0 0 0 0 0
## 3813 3813 0 0 0 0 0 1 1 0 0 0 0
## 3814 3814 0 0 0 0 0 0 0 0 0 0 0
## 3815 3815 0 0 0 0 0 0 0 0 0 0 0
## 3816 3816 0 0 0 0 0 0 0 0 0 3 0
## 3817 3817 0 1 1 0 0 0 0 0 0 0 0
## 3818 3818 0 0 0 1 0 0 0 0 0 0 0
## 3819 3819 0 0 0 0 0 2 0 0 0 0 0
## 3820 3820 1 0 0 0 0 1 0 0 0 0 0
## 3821 3821 0 0 0 0 1 0 1 0 0 0 0
## 3822 3822 0 0 0 0 0 0 0 0 0 0 0
## 3823 3823 0 0 0 0 0 0 0 0 0 0 0
## 3824 3824 0 0 0 0 0 0 1 2 0 0 0
## 3825 3825 0 0 0 0 0 0 0 0 0 0 1
## 3826 3826 0 0 0 0 0 0 0 2 0 0 0
## 3827 3827 0 0 0 1 0 1 1 0 0 0 0
## 3828 3828 0 0 0 0 0 0 0 0 0 0 1
## 3829 3829 0 0 0 0 0 0 0 0 0 0 0
## 3830 3830 0 0 0 0 0 0 0 0 0 0 0
## 3831 3831 0 0 0 0 0 0 0 0 0 0 0
## 3832 3832 0 0 0 0 0 0 2 0 0 0 0
## 3833 3833 0 0 0 0 0 0 0 0 2 0 0
## 3834 3834 0 0 0 0 0 0 0 0 0 0 0
## 3835 3835 0 0 0 0 0 0 0 0 0 0 0
## 3836 3836 0 0 0 0 0 0 1 0 0 0 0
## 3837 3837 0 0 0 0 0 0 0 0 0 0 0
## 3838 3838 0 0 0 0 0 2 0 0 0 0 0
## 3839 3839 0 0 0 0 0 2 0 0 0 0 0
## 3840 3840 0 0 0 0 0 0 0 0 0 0 0
## 3841 3841 0 1 0 0 0 0 0 0 0 0 0
## 3842 3842 0 0 0 0 0 0 0 0 0 0 0
## 3843 3843 0 0 0 0 0 0 0 0 2 0 0
## 3844 3844 0 0 0 0 0 0 0 0 0 0 2
## 3845 3845 0 0 0 0 1 0 0 0 0 0 0
## 3846 3846 0 2 0 0 0 0 0 0 0 0 0
## 3847 3847 0 0 0 0 0 0 0 0 0 0 0
## 3848 3848 0 0 0 0 0 0 0 0 0 0 0
## 3849 3849 0 0 0 0 2 0 0 0 0 0 0
## 3850 3850 0 0 0 0 0 0 0 0 0 0 0
## 3851 3851 0 0 0 0 0 0 0 2 0 0 0
## 3852 3852 1 1 0 2 0 0 0 0 0 0 0
## 3853 3853 0 0 0 0 0 0 0 0 0 0 0
## 3854 3854 0 0 0 2 0 0 0 0 0 0 0
## 3855 3855 0 0 0 1 0 1 2 0 0 0 0
## 3856 3856 0 0 0 0 0 0 1 0 0 0 0
## 3857 3857 0 0 0 0 0 0 0 0 0 0 0
## 3858 3858 0 2 0 0 0 0 0 0 0 0 0
## 3859 3859 0 0 0 0 0 0 0 0 0 0 0
## 3860 3860 0 0 0 0 0 0 0 0 0 0 0
## 3861 3861 0 0 0 0 0 0 1 0 0 0 0
## 3862 3862 1 1 0 0 0 0 0 0 0 0 0
## 3863 3863 0 0 2 0 0 0 0 0 0 0 0
## 3864 3864 0 0 0 0 2 0 0 0 0 0 0

```

## 3865	3865	0	0	0	0	0	0	0	2	0	0	0
## 3866	3866	0	0	2	0	0	0	0	0	0	0	0
## 3867	3867	0	0	1	0	0	0	0	0	0	0	0
## 3868	3868	0	0	2	0	0	0	0	0	0	0	0
## 3869	3869	0	0	0	0	0	2	0	0	0	0	0
## 3870	3870	0	0	0	1	0	0	1	0	0	0	0
## 3871	3871	0	0	0	0	0	0	2	0	0	0	0
## 3872	3872	0	0	0	2	0	0	0	0	0	0	0
## 3873	3873	0	1	0	0	0	0	0	1	0	0	0
## 3874	3874	0	0	0	0	3	0	0	0	0	0	0
## 3875	3875	0	0	0	0	0	0	0	0	0	0	0
## 3876	3876	0	0	0	0	1	0	1	4	0	0	0
## 3877	3877	0	0	0	0	0	0	2	0	0	0	0
## 3878	3878	0	0	0	0	0	0	0	0	0	0	0
## 3879	3879	0	0	0	2	0	0	0	0	0	0	0
## 3880	3880	4	0	0	1	2	0	0	0	0	0	0
## 3881	3881	0	0	0	0	0	0	0	0	1	0	0
## 3882	3882	0	0	0	1	1	0	0	1	0	1	0
## 3883	3883	0	0	0	0	0	0	0	0	0	0	0
## 3884	3884	0	0	0	0	0	0	0	0	0	0	2
## 3885	3885	0	1	0	1	0	0	0	0	0	0	0
## 3886	3886	0	0	0	0	0	0	0	0	1	1	0
## 3887	3887	0	0	0	0	0	1	0	0	0	0	0
## 3888	3888	0	0	0	2	0	0	0	0	0	0	0
## 3889	3889	0	4	0	0	0	0	0	0	0	0	0
## 3890	3890	1	1	0	0	0	0	0	0	0	0	0
## 3891	3891	0	0	0	1	0	2	0	0	0	0	0
## 3892	3892	0	0	0	0	0	0	0	0	0	0	0
## 3893	3893	0	0	0	0	0	0	0	0	0	0	0
## 3894	3894	0	0	0	0	0	0	0	0	0	0	0
## 3895	3895	0	0	0	0	0	0	0	0	0	0	0
## 3896	3896	0	0	0	0	0	0	0	0	0	0	0
## 3897	3897	0	0	0	0	0	0	0	0	0	0	0
## 3898	3898	0	0	0	0	0	0	0	0	0	0	2
## 3899	3899	0	0	0	0	0	0	0	0	0	0	0
## 3900	3900	0	0	0	0	0	2	0	0	0	0	0
## 3901	3901	0	0	0	0	0	0	0	0	0	0	0
## 3902	3902	1	0	2	1	0	0	0	0	0	0	0
## 3903	3903	0	0	0	0	0	0	0	0	0	0	0
## 3904	3904	0	0	0	0	0	0	0	0	0	0	0
## 3905	3905	0	0	0	0	0	0	0	0	0	0	0
## 3906	3906	0	0	0	0	0	0	0	0	0	0	0
## 3907	3907	0	0	0	4	0	0	0	1	0	0	0
## 3908	3908	0	0	0	0	0	0	0	0	0	0	0
## 3909	3909	0	0	0	1	0	0	0	0	0	0	0
## 3910	3910	0	0	0	0	0	0	0	0	0	0	0
## 3911	3911	0	0	0	0	0	0	0	0	0	0	0
## 3912	3912	0	0	0	0	0	0	0	0	0	0	1
## 3913	3913	0	0	0	0	0	0	0	0	0	0	0
## 3914	3914	0	0	0	0	0	0	0	0	0	0	0
## 3915	3915	1	0	0	0	0	0	0	0	0	0	0
## 3916	3916	0	0	0	0	0	0	0	0	0	2	1
## 3917	3917	0	0	0	0	0	0	0	0	0	0	0
## 3918	3918	0	0	0	2	0	0	1	1	0	0	0

## 3919 3919	0	0	0	0	1	0	0	0	0	0	0
## 3920 3920	0	0	0	0	0	0	1	0	0	0	0
## 3921 3921	0	0	2	0	0	0	0	0	0	0	0
## 3922 3922	0	0	0	0	0	0	0	0	0	0	2
## 3923 3923	0	0	0	0	2	0	0	0	0	0	0
## 3924 3924	0	0	0	0	0	0	0	1	0	0	0
## 3925 3925	0	0	0	0	2	0	0	0	1	0	0
## 3926 3926	0	0	0	2	0	0	0	0	0	0	0
## 3927 3927	0	0	0	0	0	0	0	0	2	0	0
## 3928 3928	2	1	0	0	0	0	0	0	0	0	0
## 3929 3929	0	0	0	2	0	0	0	0	0	0	0
## 3930 3930	0	2	0	0	0	0	0	0	0	0	0
## 3931 3931	0	0	0	2	0	0	0	0	0	0	0
## 3932 3932	0	0	0	0	0	0	0	0	0	0	0
## 3933 3933	0	0	0	0	0	1	0	0	0	0	0
## 3934 3934	0	0	0	0	0	0	0	0	2	0	0
## 3935 3935	0	0	0	0	0	0	0	0	0	0	0
## 3936 3936	0	0	0	0	0	0	0	0	0	0	0
## 3937 3937	0	0	0	0	0	0	0	0	0	2	0
## 3938 3938	0	0	0	0	0	0	0	0	0	0	0
## 3939 3939	0	0	0	0	0	2	0	0	0	0	0
## 3940 3940	1	2	2	0	0	0	0	0	0	0	0
## 3941 3941	0	0	0	0	0	0	0	0	0	0	0
## 3942 3942	0	0	0	0	0	0	0	2	0	0	0
## 3943 3943	0	0	0	0	0	0	0	0	0	0	0
## 3944 3944	0	0	0	0	0	0	0	0	0	1	0
## 3945 3945	0	0	0	0	0	0	0	0	0	0	0
## 3946 3946	0	0	0	0	0	0	0	0	0	0	0
## 3947 3947	0	0	0	1	0	0	0	0	0	0	0
## 3948 3948	0	0	0	0	0	0	0	0	0	0	0
## 3949 3949	0	0	2	0	0	0	0	0	0	0	0
## 3950 3950	0	0	0	1	0	1	0	0	0	0	0
## 3951 3951	0	0	0	0	0	0	0	0	0	0	0
## 3952 3952	0	0	0	0	1	1	0	0	0	0	0
## 3953 3953	0	0	0	0	0	0	0	0	0	0	0
## 3954 3954	0	0	0	0	0	0	0	0	0	0	0
## 3955 3955	0	0	0	0	0	0	0	0	0	0	0
## 3956 3956	0	0	0	0	0	0	0	0	0	0	0
## 3957 3957	0	0	0	0	2	0	0	0	0	0	0
## 3958 3958	0	0	0	0	0	0	0	0	2	0	0
## 3959 3959	0	0	0	0	0	0	2	0	0	0	0
## 3960 3960	0	0	0	0	0	0	0	2	0	0	0
## 3961 3961	0	0	0	0	0	0	1	0	0	0	0
## 3962 3962	0	0	0	0	0	0	0	0	0	0	0
## 3963 3963	0	0	0	0	0	0	0	1	0	0	0
## 3964 3964	0	0	0	0	0	0	0	0	0	0	0
## 3965 3965	0	1	0	2	0	0	0	0	0	0	0
## 3966 3966	0	0	0	2	0	0	0	0	0	0	0
## 3967 3967	0	2	0	0	0	0	0	0	0	0	0
## 3968 3968	1	0	0	0	0	0	0	0	0	0	1
## 3969 3969	0	0	0	0	1	0	0	0	0	0	0
## 3970 3970	0	0	0	0	1	0	0	0	1	0	0
## 3971 3971	0	0	0	0	0	0	2	0	0	0	0
## 3972 3972	0	0	0	0	0	0	3	1	0	0	0

```

## 3973 3973 0 0 0 0 2 0 0 0 0 0 0 0
## 3974 3974 0 0 0 0 0 0 0 0 4 0 0 0
## 3975 3975 0 1 2 0 0 0 0 0 0 0 0 0
## 3976 3976 0 0 0 0 0 0 0 0 0 0 0 0
## 3977 3977 0 0 0 0 0 0 0 0 0 0 0 0
## 3978 3978 0 0 0 0 0 0 0 0 3 0 0 0
## 3979 3979 0 0 0 0 0 0 0 2 0 0 0 0
## 3980 3980 0 0 0 0 0 0 0 0 0 3 0 0
## 3981 3981 0 0 0 0 0 0 0 0 1 0 0 0
## 3982 3982 0 0 0 0 0 0 2 0 0 0 0 0
## 3983 3983 0 0 0 0 1 0 2 0 0 0 0 0
## 3984 3984 0 0 0 0 0 0 0 0 0 0 0 0
## 3985 3985 0 0 0 0 0 0 0 1 0 0 0 0
## 3986 3986 1 0 0 0 0 0 0 1 0 0 0 0
## 3987 3987 0 0 0 1 1 0 0 0 0 0 0 0
## 3988 3988 1 0 0 0 0 0 0 0 0 0 0 0
## 3989 3989 0 0 0 0 0 0 0 0 0 0 0 0
## 3990 3990 0 0 0 3 0 0 0 0 0 0 0 0
## 3991 3991 0 0 0 0 0 0 0 0 0 1 2 1
## 3992 3992 1 1 0 0 0 0 0 0 0 0 0 0
## 3993 3993 0 0 0 0 0 0 0 1 0 0 0 0
## 3994 3994 0 0 0 1 0 0 0 1 1 0 0 0
## 3995 3995 0 0 0 0 0 0 0 0 2 0 0 0
## 3996 3996 0 0 0 0 0 0 0 0 0 0 0 0
## 3997 3997 1 1 0 0 0 0 0 0 0 0 0 0
## 3998 3998 0 0 0 0 0 0 0 0 0 0 0 0
## 3999 3999 0 0 0 1 1 1 0 1 0 0 0 0
## 4000 4000 0 0 0 0 0 0 0 0 2 0 0 0
## 4001 4001 0 0 0 1 1 1 0 1 0 0 0 0
## 4002 4002 1 0 0 0 0 0 0 0 0 0 0 0
## 4003 4003 0 2 0 0 0 0 0 0 0 0 0 0
## 4004 4004 0 0 0 0 0 0 0 2 0 0 0 0
## 4005 4005 0 0 1 0 0 0 0 0 0 0 0 0
## 4006 4006 0 0 0 0 0 0 0 0 0 0 0 0
## 4007 4007 0 0 0 0 0 0 0 0 0 0 0 0
## 4008 4008 0 0 0 0 0 0 0 0 0 0 0 0
## 4009 4009 0 0 0 0 0 0 0 0 0 0 0 0
## 4010 4010 0 0 0 0 0 0 0 0 0 0 0 2
## 4011 4011 0 0 0 0 0 0 0 0 0 0 0 0
## 4012 4012 0 0 0 0 0 0 0 0 0 2 0 0
## 4013 4013 0 0 0 0 0 0 0 0 0 0 0 0
## 4014 4014 0 0 0 0 0 0 0 0 0 0 0 0
## 4015 4015 0 2 0 0 0 0 0 0 0 0 0 0
## 4016 4016 0 0 0 0 0 0 0 0 0 0 2 0
## 4017 4017 0 0 0 0 0 0 2 0 0 0 0 0
## 4018 4018 0 0 0 0 0 0 0 0 0 0 0 0
## 4019 4019 0 0 0 0 0 0 0 0 3 0 0 0
## 4020 4020 0 0 0 0 0 0 0 0 0 0 0 0
## 4021 4021 0 0 0 0 1 0 2 0 0 0 0 0
## 4022 4022 0 0 1 1 0 0 0 0 0 0 0 0
## 4023 4023 0 0 0 0 0 0 0 0 0 0 0 0
## 4024 4024 0 0 0 0 0 0 0 0 0 0 0 0
## 4025 4025 0 0 0 0 0 0 2 0 0 0 0 0
## 4026 4026 0 0 0 0 0 0 0 0 1 0 0 0

```

## 4027	4027	0	0	0	0	0	0	0	0	0	0	0
## 4028	4028	0	0	0	0	2	0	0	0	0	2	0
## 4029	4029	0	0	1	0	1	2	0	0	0	0	0
## 4030	4030	0	0	0	0	0	0	0	0	0	0	0
## 4031	4031	0	0	0	0	0	0	0	0	0	0	0
## 4032	4032	0	0	0	0	0	0	0	0	0	0	0
## 4033	4033	0	1	0	0	0	0	0	0	0	0	0
## 4034	4034	0	0	0	0	0	0	0	0	0	0	0
## 4035	4035	0	0	0	0	0	0	1	0	0	0	0
## 4036	4036	0	0	0	0	0	0	0	0	0	0	0
## 4037	4037	0	0	0	0	0	0	0	0	0	0	0
## 4038	4038	0	0	0	0	0	0	0	0	3	2	0
## 4039	4039	0	0	0	0	0	3	0	0	0	0	0
## 4040	4040	0	0	1	0	0	0	0	0	0	0	0
## 4041	4041	0	0	2	0	0	0	0	0	0	0	0
## 4042	4042	0	0	0	1	0	1	0	0	0	0	0
## 4043	4043	0	0	0	0	0	0	0	1	0	0	1
## 4044	4044	0	0	0	0	0	0	0	0	0	0	0
## 4045	4045	2	0	0	0	0	0	0	0	0	0	0
## 4046	4046	0	0	0	0	1	0	0	0	0	0	0
## 4047	4047	0	0	0	1	0	0	0	0	0	0	0
## 4048	4048	0	0	0	0	0	0	1	0	0	1	0
## 4049	4049	0	0	0	0	0	0	0	0	0	0	0
## 4050	4050	0	0	0	1	0	0	0	0	0	0	0
## 4051	4051	1	0	0	0	0	0	0	0	0	0	0
## 4052	4052	0	1	0	0	0	0	0	0	0	0	0
## 4053	4053	0	0	0	0	0	0	0	0	1	1	2
## 4054	4054	0	0	0	0	0	0	0	0	0	0	0
## 4055	4055	0	0	0	2	0	0	0	0	0	0	0
## 4056	4056	0	0	0	0	0	0	0	0	2	0	0
## 4057	4057	0	1	1	0	0	0	0	0	1	0	0
## 4058	4058	0	0	0	1	0	0	0	0	0	0	0
## 4059	4059	0	2	0	1	1	0	0	0	0	0	0
## 4060	4060	0	0	0	0	0	0	0	0	0	0	1
## 4061	4061	0	0	0	0	0	0	0	0	0	0	0
## 4062	4062	0	0	0	0	0	0	0	0	0	0	0
## 4063	4063	0	0	0	0	0	0	0	0	0	0	0
## 4064	4064	0	0	0	2	0	0	0	1	0	0	0
## 4065	4065	0	0	0	0	2	0	0	0	1	0	0
## 4066	4066	0	0	0	2	0	0	0	0	0	0	0
## 4067	4067	0	0	0	0	0	1	0	0	0	0	0
## 4068	4068	0	0	0	0	0	0	0	0	0	0	0
## 4069	4069	1	0	0	1	0	0	0	0	0	0	0
## 4070	4070	0	0	0	0	0	0	0	0	2	0	0
## 4071	4071	0	0	0	0	0	0	0	0	3	0	0
## 4072	4072	0	0	0	0	0	0	0	4	0	0	0
## 4073	4073	0	0	0	1	0	2	0	0	0	0	0
## 4074	4074	0	0	0	0	0	0	1	0	0	0	1
## 4075	4075	0	0	0	0	0	1	0	0	0	0	0
## 4076	4076	0	0	0	0	0	0	0	2	0	0	1
## 4077	4077	0	0	0	0	2	0	0	0	0	0	0
## 4078	4078	0	0	0	0	0	0	0	0	0	2	0
## 4079	4079	0	0	0	0	0	0	0	0	3	0	0
## 4080	4080	0	0	0	0	0	0	0	0	0	0	0

## 4081 4081	0	1	0	0	0	0	1	0	0	0	0
## 4082 4082	0	0	0	0	0	0	0	1	0	0	0
## 4083 4083	0	0	0	0	0	0	0	0	0	0	0
## 4084 4084	0	0	0	1	0	0	0	2	0	0	0
## 4085 4085	0	0	2	0	0	0	0	0	0	0	0
## 4086 4086	0	0	0	0	0	0	0	0	0	0	0
## 4087 4087	0	0	0	0	0	0	0	0	0	0	0
## 4088 4088	0	0	0	0	0	0	0	0	0	0	0
## 4089 4089	0	0	0	0	0	0	0	0	0	0	0
## 4090 4090	0	0	1	0	0	0	0	0	0	0	0
## 4091 4091	0	1	0	0	0	0	1	0	0	3	2
## 4092 4092	0	0	0	0	0	0	2	1	0	0	0
## 4093 4093	0	1	0	0	0	0	0	0	0	0	0
## 4094 4094	2	0	0	0	0	0	0	0	0	0	0
## 4095 4095	0	0	0	0	0	0	0	0	0	0	0
## 4096 4096	0	0	0	0	0	0	0	0	0	0	0
## 4097 4097	0	0	0	0	1	0	0	0	0	0	0
## 4098 4098	0	0	0	2	0	0	0	0	0	0	0
## 4099 4099	0	0	0	0	0	0	0	0	0	0	0
## 4100 4100	0	0	1	0	0	0	0	0	0	0	0
## 4101 4101	0	0	0	0	0	0	0	1	0	0	0
## 4102 4102	0	0	0	0	0	0	0	0	0	0	1
## 4103 4103	0	0	0	0	0	0	0	0	0	0	2
## 4104 4104	0	0	0	0	0	0	0	0	0	0	0
## 4105 4105	0	0	0	0	0	0	0	0	0	0	2
## 4106 4106	0	0	2	0	0	0	0	0	0	0	0
## 4107 4107	2	0	0	0	0	1	0	0	0	0	0
## 4108 4108	0	1	0	0	0	0	0	0	0	0	0
## 4109 4109	1	1	0	0	0	0	0	0	0	0	0
## 4110 4110	0	0	0	0	0	0	0	0	0	1	0
## 4111 4111	0	0	0	0	0	0	2	0	0	0	0
## 4112 4112	0	0	0	2	0	0	0	0	0	0	0
## 4113 4113	0	0	0	0	0	0	0	0	0	0	1
## 4114 4114	0	0	0	0	0	0	0	0	0	0	0
## 4115 4115	0	0	0	0	2	0	0	0	0	0	0
## 4116 4116	2	0	0	0	0	2	1	0	0	0	0
## 4117 4117	0	0	0	0	0	0	0	0	0	0	0
## 4118 4118	0	0	0	0	0	0	0	0	0	0	0
## 4119 4119	0	0	0	0	0	0	0	0	0	0	0
## 4120 4120	0	0	0	0	0	0	0	0	0	0	2
## 4121 4121	0	0	0	0	0	0	0	0	0	0	0
## 4122 4122	0	0	0	0	0	0	0	0	0	0	1
## 4123 4123	0	0	0	0	0	0	0	0	0	0	0
## 4124 4124	0	0	0	0	2	0	0	0	0	0	0
## 4125 4125	0	0	0	0	0	0	3	0	0	0	0
## 4126 4126	0	0	0	0	0	0	0	0	0	1	0
## 4127 4127	0	0	0	0	0	0	0	0	0	0	0
## 4128 4128	0	0	0	0	0	0	0	0	0	0	0
## 4129 4129	0	0	0	0	0	0	0	0	0	0	0
## 4130 4130	0	0	0	1	0	0	1	0	0	0	0
## 4131 4131	0	0	0	0	1	1	0	0	0	0	0
## 4132 4132	0	0	0	0	0	0	2	0	0	0	0
## 4133 4133	0	0	0	0	0	0	0	0	0	0	2
## 4134 4134	0	0	0	2	0	0	0	0	0	0	0

## 4135 4135	0	2	0	2	0	0	0	0	0	0	0
## 4136 4136	0	0	0	0	2	0	0	0	0	0	0
## 4137 4137	0	0	0	0	0	0	0	0	0	0	0
## 4138 4138	0	0	0	0	0	0	0	2	0	0	0
## 4139 4139	0	0	0	0	1	0	1	1	0	0	1
## 4140 4140	0	0	0	1	5	1	0	0	0	2	0
## 4141 4141	0	0	0	1	1	0	0	0	0	1	1
## 4142 4142	0	0	0	0	0	0	0	0	0	0	0
## 4143 4143	0	0	0	0	0	0	0	0	0	0	0
## 4144 4144	0	0	0	2	0	0	0	0	0	0	0
## 4145 4145	0	0	2	0	0	0	0	0	0	0	0
## 4146 4146	0	0	0	1	0	2	0	0	0	1	0
## 4147 4147	0	0	0	0	0	0	1	0	0	0	0
## 4148 4148	0	2	0	0	0	0	0	0	0	0	0
## 4149 4149	0	0	0	0	0	0	0	0	0	0	0
## 4150 4150	0	0	0	0	0	0	0	0	0	0	2
## 4151 4151	0	0	0	0	0	0	0	0	0	0	0
## 4152 4152	0	0	0	0	0	0	0	0	0	0	0
## 4153 4153	0	0	0	0	0	0	0	0	0	1	0
## 4154 4154	1	0	0	0	0	0	0	0	0	0	0
## 4155 4155	0	0	0	0	0	0	0	0	0	1	0
## 4156 4156	0	0	0	2	0	0	0	0	0	0	0
## 4157 4157	0	0	0	0	0	0	0	1	0	0	0
## 4158 4158	0	0	0	0	2	0	0	0	0	0	0
## 4159 4159	0	0	0	0	0	0	0	0	0	0	0
## 4160 4160	0	0	0	0	0	0	0	0	0	0	0
## 4161 4161	0	2	0	0	0	0	0	0	0	0	0
## 4162 4162	0	0	0	0	0	0	0	0	1	0	0
## 4163 4163	0	0	0	1	0	0	0	0	0	0	0
## 4164 4164	0	0	0	0	0	0	0	0	1	1	0
## 4165 4165	0	0	0	0	0	0	0	2	0	1	0
## 4166 4166	0	0	0	0	0	0	0	0	0	0	0
## 4167 4167	0	0	0	0	0	0	0	0	4	0	0
## 4168 4168	1	0	0	0	1	1	0	0	0	0	0
## 4169 4169	2	0	0	0	0	0	0	0	0	0	0
## 4170 4170	0	0	2	0	0	0	0	0	0	0	0
## 4171 4171	0	0	0	0	0	0	0	0	0	0	0
## 4172 4172	0	0	1	0	0	0	0	0	0	0	0
## 4173 4173	0	0	0	0	0	0	0	0	2	0	0
## 4174 4174	0	0	0	0	0	0	1	0	0	0	0
## 4175 4175	0	0	0	0	0	0	0	0	0	0	0
## 4176 4176	0	0	0	0	2	2	1	2	0	1	0
## 4177 4177	0	0	0	0	0	0	0	0	0	2	0
## 4178 4178	0	0	0	0	0	0	0	0	0	0	0
## 4179 4179	0	0	0	0	0	0	2	0	0	0	0
## 4180 4180	0	0	0	0	1	0	0	0	0	0	0
## 4181 4181	0	0	0	1	0	0	0	0	0	0	0
## 4182 4182	0	0	0	0	0	0	0	0	0	0	0
## 4183 4183	0	0	0	0	0	0	0	0	2	0	0
## 4184 4184	0	0	0	0	0	2	0	0	0	1	0
## 4185 4185	0	1	2	0	0	0	0	0	0	0	0
## 4186 4186	0	0	0	0	0	0	2	0	0	0	0
## 4187 4187	0	0	0	0	0	0	0	0	0	0	0
## 4188 4188	0	0	0	0	0	0	0	0	0	0	0

## 4189	4189	0	1	0	0	0	0	0	0	0	0	0
## 4190	4190	0	0	0	1	0	0	0	0	0	0	0
## 4191	4191	0	0	0	0	0	0	0	3	0	0	0
## 4192	4192	0	0	0	0	0	0	2	0	0	0	0
## 4193	4193	0	0	0	0	0	0	1	0	1	0	0
## 4194	4194	0	1	0	0	0	0	0	0	0	2	0
## 4195	4195	0	0	0	0	0	0	0	0	1	0	2
## 4196	4196	0	0	0	0	0	0	0	1	0	0	1
## 4197	4197	0	0	0	0	0	0	0	0	0	0	0
## 4198	4198	0	0	0	0	0	0	0	0	0	1	1
## 4199	4199	0	0	0	0	0	0	0	1	2	0	0
## 4200	4200	0	0	0	0	0	0	0	0	0	0	0
## 4201	4201	0	0	0	0	0	0	0	0	0	0	0
## 4202	4202	0	0	0	0	0	0	0	0	0	0	0
## 4203	4203	0	0	0	0	0	0	0	0	0	0	0
## 4204	4204	0	0	0	0	0	0	0	0	0	0	0
## 4205	4205	0	0	0	0	0	2	0	0	0	0	0
## 4206	4206	0	0	0	0	0	0	0	0	0	0	0
## 4207	4207	0	0	0	0	0	0	0	0	0	0	0
## 4208	4208	0	0	0	0	0	3	0	0	0	0	0
## 4209	4209	0	2	0	0	1	0	0	0	0	0	0
## 4210	4210	0	0	0	0	0	0	0	0	0	0	0
## 4211	4211	0	0	0	0	0	0	2	0	0	0	0
## 4212	4212	0	0	0	0	0	0	2	0	0	0	0
## 4213	4213	0	0	0	0	0	0	0	0	0	0	0
## 4214	4214	0	0	0	0	0	0	0	0	0	0	0
## 4215	4215	0	0	0	0	0	2	0	0	0	0	0
## 4216	4216	0	2	0	0	0	0	0	0	0	0	0
## 4217	4217	0	0	0	0	0	0	0	0	0	0	0
## 4218	4218	0	0	1	0	2	0	0	0	0	0	0
## 4219	4219	0	0	0	0	0	0	0	0	1	0	2
## 4220	4220	0	0	0	0	0	0	0	0	0	0	0
## 4221	4221	0	0	0	0	0	0	0	0	0	0	0
## 4222	4222	0	0	0	0	0	0	0	0	0	0	0
## 4223	4223	0	0	0	0	1	0	0	0	0	0	0
## 4224	4224	0	0	0	0	0	0	0	0	0	0	0
## 4225	4225	1	1	0	0	0	0	0	0	0	0	0
## 4226	4226	1	0	0	0	0	0	0	0	0	0	0
## 4227	4227	0	0	0	0	2	0	0	1	0	0	0
## 4228	4228	0	0	0	0	0	0	0	0	0	0	2
## 4229	4229	0	0	0	0	0	0	0	0	0	2	0
## 4230	4230	0	0	0	1	0	0	0	0	0	0	0
## 4231	4231	0	0	0	0	0	0	0	0	0	0	0
## 4232	4232	0	0	0	0	0	0	1	0	0	0	0
## 4233	4233	0	0	0	0	0	0	0	0	0	0	0
## 4234	4234	1	0	0	0	0	0	0	0	0	0	0
## 4235	4235	0	0	0	0	0	0	0	0	0	0	0
## 4236	4236	0	0	0	0	0	0	4	0	0	0	0
## 4237	4237	0	0	0	0	0	0	0	0	0	0	0
## 4238	4238	0	0	0	2	0	0	0	0	0	0	0
## 4239	4239	0	1	0	1	0	0	0	0	0	0	0
## 4240	4240	0	2	0	0	0	0	0	0	0	0	0
## 4241	4241	0	0	0	1	0	2	0	0	0	0	0
## 4242	4242	0	0	0	0	0	0	0	0	0	0	0

## 4243 4243	2	0	0	0	0	0	0	0	0	0	0
## 4244 4244	0	0	0	0	0	0	2	0	1	0	0
## 4245 4245	0	0	0	0	0	0	0	0	0	0	0
## 4246 4246	0	0	0	0	0	0	0	0	0	0	0
## 4247 4247	0	0	0	0	0	0	0	0	0	2	0
## 4248 4248	0	0	0	0	2	0	0	0	0	0	0
## 4249 4249	0	0	0	0	0	0	0	0	0	3	0
## 4250 4250	0	0	0	0	0	0	0	0	0	0	1
## 4251 4251	0	0	0	0	0	0	0	0	0	0	0
## 4252 4252	0	0	0	0	0	0	0	0	0	0	0
## 4253 4253	0	2	0	1	0	0	0	0	0	0	0
## 4254 4254	0	0	0	1	0	1	0	0	0	0	0
## 4255 4255	3	0	0	2	0	0	0	0	0	0	0
## 4256 4256	0	0	0	0	0	0	0	0	0	0	0
## 4257 4257	0	0	0	0	1	0	1	0	0	0	0
## 4258 4258	0	0	0	1	0	0	0	0	0	0	0
## 4259 4259	0	0	0	0	0	0	2	0	0	0	0
## 4260 4260	0	0	0	0	1	0	0	1	0	1	0
## 4261 4261	0	0	0	0	0	0	0	4	0	0	0
## 4262 4262	0	0	0	0	0	0	0	0	0	0	0
## 4263 4263	0	0	0	0	0	0	0	0	0	0	0
## 4264 4264	4	0	0	0	0	0	0	0	0	0	0
## 4265 4265	0	0	0	0	2	0	0	0	0	0	0
## 4266 4266	0	0	0	2	0	0	0	0	0	0	0
## 4267 4267	0	1	0	0	0	0	1	0	0	0	0
## 4268 4268	0	0	0	0	0	2	0	0	0	0	0
## 4269 4269	1	0	0	0	0	0	0	0	0	0	0
## 4270 4270	0	0	0	0	0	0	5	0	0	0	0
## 4271 4271	0	0	0	0	0	0	0	0	0	0	0
## 4272 4272	0	2	0	0	0	0	0	0	0	0	0
## 4273 4273	0	0	0	0	0	0	0	0	0	0	0
## 4274 4274	0	0	2	0	0	0	0	0	0	0	0
## 4275 4275	0	0	0	0	1	0	3	0	0	0	0
## 4276 4276	0	0	0	0	0	0	0	0	0	0	0
## 4277 4277	0	0	1	0	0	0	0	0	0	0	0
## 4278 4278	0	0	0	0	0	0	2	0	0	0	1
## 4279 4279	0	0	0	0	0	0	0	0	0	0	0
## 4280 4280	0	0	0	0	0	0	0	0	2	1	0
## 4281 4281	0	0	0	0	0	0	2	2	0	0	0
## 4282 4282	2	0	0	0	0	0	0	0	0	0	0
## 4283 4283	0	2	0	0	0	0	0	0	0	0	0
## 4284 4284	0	0	0	0	0	0	0	0	2	1	0
## 4285 4285	0	0	1	0	0	1	0	0	0	0	0
## 4286 4286	0	0	0	0	0	0	0	0	0	0	0
## 4287 4287	2	1	0	0	1	0	0	0	0	0	0
## 4288 4288	0	0	0	0	0	3	0	0	0	0	0
## 4289 4289	0	2	0	0	0	0	0	0	0	0	1
## 4290 4290	0	0	0	0	0	0	0	0	0	2	0
## 4291 4291	0	0	0	2	0	0	0	0	0	0	0
## 4292 4292	0	0	0	0	0	0	0	0	2	0	0
## 4293 4293	0	0	0	0	0	0	0	6	0	0	0
## 4294 4294	0	0	0	0	0	0	0	0	0	0	0
## 4295 4295	0	0	0	0	0	0	0	2	0	0	0
## 4296 4296	1	0	1	0	0	0	0	0	0	0	0

## 4297	4297	0	0	0	0	0	0	0	2	0	0	0
## 4298	4298	0	0	0	0	0	0	0	0	0	0	0
## 4299	4299	0	0	0	0	0	0	0	0	0	0	0
## 4300	4300	0	0	0	0	0	0	0	0	2	0	0
## 4301	4301	0	0	0	0	0	0	0	0	0	0	0
## 4302	4302	0	0	0	0	0	0	0	0	0	0	0
## 4303	4303	0	0	0	0	0	3	0	0	0	0	0
## 4304	4304	0	0	0	0	0	0	0	0	0	0	0
## 4305	4305	0	0	0	0	2	0	0	0	0	0	0
## 4306	4306	0	0	0	0	0	0	0	0	0	0	0
## 4307	4307	0	0	0	0	1	0	1	0	0	0	0
## 4308	4308	0	0	0	0	0	0	1	0	0	0	0
## 4309	4309	0	0	2	0	0	0	0	0	0	0	0
## 4310	4310	0	0	0	0	0	0	0	0	0	0	0
## 4311	4311	1	1	0	0	0	0	1	0	0	0	0
## 4312	4312	0	0	0	0	0	0	0	0	0	0	0
## 4313	4313	0	0	0	1	0	0	0	0	0	0	0
## 4314	4314	0	2	0	1	0	0	0	0	0	0	0
## 4315	4315	0	0	0	0	0	0	0	0	1	0	0
## 4316	4316	0	0	0	0	0	0	0	2	0	0	0
## 4317	4317	2	0	0	0	0	2	0	0	0	0	0
## 4318	4318	0	0	0	0	0	0	0	0	0	0	0
## 4319	4319	0	0	0	1	1	0	0	0	0	0	0
## 4320	4320	0	0	0	0	0	0	2	0	0	0	0
## 4321	4321	0	0	0	0	0	0	0	0	0	0	0
## 4322	4322	0	0	0	0	0	0	0	0	0	0	0
## 4323	4323	0	0	0	0	0	0	0	0	0	0	0
## 4324	4324	0	0	0	0	0	0	0	0	0	0	0
## 4325	4325	0	0	0	0	0	0	0	0	0	0	0
## 4326	4326	0	0	0	0	0	1	0	0	0	0	0
## 4327	4327	0	0	0	0	0	0	0	0	0	0	0
## 4328	4328	0	0	0	0	0	0	2	1	0	0	0
## 4329	4329	0	0	0	0	0	0	0	1	2	0	0
## 4330	4330	0	0	1	0	0	0	0	0	0	0	0
## 4331	4331	0	0	0	0	0	0	0	0	0	0	0
## 4332	4332	0	0	0	0	0	0	0	0	0	0	0
## 4333	4333	0	0	0	0	0	0	0	0	2	0	0
## 4334	4334	0	2	0	0	0	0	0	0	0	0	0
## 4335	4335	0	0	0	0	0	0	0	0	0	0	0
## 4336	4336	2	0	0	0	0	0	0	0	0	0	0
## 4337	4337	0	0	0	0	0	0	0	0	0	0	0
## 4338	4338	0	0	0	0	0	0	0	0	0	0	0
## 4339	4339	0	0	0	0	0	0	0	0	0	0	0
## 4340	4340	0	0	0	1	0	0	0	0	0	0	0
## 4341	4341	0	0	0	0	0	0	0	0	0	0	0
## 4342	4342	0	0	0	0	0	0	0	0	0	0	0
## 4343	4343	0	0	0	0	0	0	0	0	0	0	0
## 4344	4344	0	0	0	0	0	0	0	0	0	0	0
## 4345	4345	0	0	0	0	1	0	0	0	0	2	0
## 4346	4346	0	0	2	0	0	0	0	0	0	0	0
## 4347	4347	0	0	0	0	0	0	0	0	0	0	0
## 4348	4348	0	0	0	0	0	0	0	0	0	0	0
## 4349	4349	0	0	0	0	0	0	1	1	0	0	0
## 4350	4350	0	0	0	2	0	0	0	0	0	0	0

```

## 4351 4351 2 0 0 0 0 0 0 0 0 0 0 0 0
## 4352 4352 0 0 0 0 0 0 0 0 0 1 0 0 0
## 4353 4353 0 0 0 0 0 0 0 0 0 0 0 0 0
## 4354 4354 0 0 0 0 0 0 0 1 1 0 0 0 0
## 4355 4355 0 0 0 0 0 3 0 0 0 0 0 0 0
## 4356 4356 0 0 0 2 0 2 1 2 0 0 0 0 0
## 4357 4357 0 0 0 1 0 0 0 0 0 0 0 0 0
## 4358 4358 0 0 0 0 0 0 1 0 0 0 0 0 0
## 4359 4359 0 0 0 0 0 0 0 0 0 0 0 0 0
## 4360 4360 0 0 0 0 0 0 0 0 0 0 0 0 0
## 4361 4361 0 0 0 0 0 0 0 0 0 0 0 0 0
## 4362 4362 0 0 0 0 0 0 0 0 0 0 0 0 0
## 4363 4363 0 0 0 1 0 2 0 0 0 0 0 0 0
## 4364 4364 0 0 0 0 0 0 0 0 0 0 0 0 0
## 4365 4365 0 0 0 0 0 0 2 0 0 0 0 0 0
## 4366 4366 0 0 0 0 0 2 0 0 0 0 0 0 0
## 4367 4367 0 0 0 0 0 0 0 0 0 0 0 0 0
## 4368 4368 0 0 0 0 3 0 0 0 0 0 0 0 0
## 4369 4369 0 0 0 0 0 1 0 0 0 1 0 0 0
## 4370 4370 2 0 0 0 0 0 0 0 0 0 0 0 0
## 4371 4371 0 0 0 0 0 0 0 0 0 0 0 0 0
## 4372 4372 0 0 0 0 0 0 0 0 0 0 0 0 2
## 4373 4373 0 0 0 0 0 0 0 0 0 0 0 0 0
## 4374 4374 0 2 0 0 0 0 0 0 0 0 0 0 0
## 4375 4375 0 0 0 0 0 0 0 0 0 0 0 0 0
## 4376 4376 0 0 0 0 0 0 0 0 0 3 0 0 0
## 4377 4377 0 0 0 0 0 0 0 0 0 0 0 0 0
## 4378 4378 0 0 0 0 0 0 0 0 0 0 0 0 0
## 4379 4379 2 0 0 0 0 0 0 0 0 0 0 0 0
## 4380 4380 0 2 0 0 0 0 0 0 0 0 0 0 0
## 4381 4381 0 0 0 0 0 3 0 0 0 0 0 0 0
## 4382 4382 0 0 0 0 0 0 0 0 0 0 0 0 0
## 4383 4383 0 0 0 0 0 0 0 0 0 0 0 0 2
## 4384 4384 0 0 0 0 2 0 0 0 0 0 0 0 0
## 4385 4385 0 0 0 0 0 2 0 0 0 0 0 0 0
## 4386 4386 0 0 0 0 0 0 1 0 0 0 0 0 0
## 4387 4387 0 0 0 0 0 0 0 0 0 0 0 0 0
## 4388 4388 0 0 0 0 0 0 0 0 0 0 0 0 0
## 4389 4389 0 0 0 0 0 0 1 1 1 0 0 0 0
## 4390 4390 0 0 0 0 0 1 0 0 0 0 0 0 0
## 4391 4391 0 1 1 0 0 0 0 0 0 0 0 0 0
## 4392 4392 1 0 3 0 0 0 0 0 0 0 0 0 0
## 4393 4393 0 0 0 2 0 0 0 0 0 0 0 0 0
## 4394 4394 0 0 0 0 0 0 0 0 0 0 0 0 0
## 4395 4395 0 0 0 0 0 0 2 0 0 0 0 0 0
## 4396 4396 0 0 0 1 0 2 0 0 0 0 0 0 0
## 4397 4397 0 0 0 0 0 0 0 0 2 0 0 0 0
## 4398 4398 0 0 0 0 0 0 0 0 0 0 0 0 0
## 4399 4399 0 0 0 0 0 0 0 0 0 0 0 0 0
## 4400 4400 1 1 0 0 0 0 0 0 0 0 0 0 0
## 4401 4401 0 0 0 0 0 0 1 0 0 0 0 0 0
## 4402 4402 0 0 0 0 0 0 0 0 0 0 0 0 0
## 4403 4403 3 0 0 0 0 0 0 0 0 0 0 0 0
## 4404 4404 0 0 0 0 0 0 0 0 0 0 0 0 0

```

## 4405 4405	0	0	0	0	0	0	2	0	0	0	0
## 4406 4406	0	0	0	0	0	0	0	0	0	0	0
## 4407 4407	0	0	0	0	0	0	0	0	0	0	0
## 4408 4408	0	0	0	0	0	0	2	0	0	0	0
## 4409 4409	0	0	0	0	0	0	1	0	0	2	2
## 4410 4410	0	1	1	0	0	0	0	0	0	0	0
## 4411 4411	0	0	0	2	0	0	0	0	0	0	0
## 4412 4412	0	0	0	0	0	0	0	0	0	0	0
## 4413 4413	0	0	0	0	0	0	0	0	0	0	0
## 4414 4414	0	0	2	0	0	0	0	0	0	0	0
## 4415 4415	0	0	0	0	0	0	0	0	0	0	0
## 4416 4416	0	2	1	0	0	0	0	0	0	0	0
## 4417 4417	0	0	0	0	0	0	0	0	0	0	0
## 4418 4418	0	0	0	0	0	0	0	1	0	0	3
## 4419 4419	0	0	0	0	0	0	2	0	0	0	0
## 4420 4420	0	0	1	4	0	0	0	0	0	0	0
## 4421 4421	0	0	0	0	0	0	0	0	0	0	0
## 4422 4422	0	0	0	0	0	0	0	1	0	0	0
## 4423 4423	0	1	0	0	0	0	0	0	0	0	0
## 4424 4424	0	0	0	0	0	0	0	0	1	1	0
## 4425 4425	0	0	2	0	0	0	0	0	0	0	0
## 4426 4426	0	0	0	2	2	0	0	0	0	0	0
## 4427 4427	0	0	0	0	0	0	0	0	0	1	0
## 4428 4428	0	0	0	0	0	0	0	0	0	0	0
## 4429 4429	2	0	0	0	0	0	0	0	0	0	0
## 4430 4430	0	0	0	0	0	0	2	0	0	0	0
## 4431 4431	0	0	0	0	0	0	0	0	2	0	0
## 4432 4432	0	0	0	1	0	0	0	0	0	0	0
## 4433 4433	0	0	0	0	0	0	0	0	0	0	0
## 4434 4434	0	0	0	0	0	0	0	0	0	0	0
## 4435 4435	0	0	0	0	0	0	0	0	0	0	0
## 4436 4436	0	0	0	0	0	0	0	0	0	0	0
## 4437 4437	0	0	0	0	0	0	0	0	0	0	0
## 4438 4438	0	0	0	0	0	0	0	0	0	0	0
## 4439 4439	0	0	0	0	0	0	0	0	0	2	0
## 4440 4440	0	0	0	0	0	2	0	0	0	0	0
## 4441 4441	0	0	0	0	0	0	0	0	2	0	0
## 4442 4442	0	0	0	0	0	0	0	0	0	0	0
## 4443 4443	0	0	0	0	0	0	0	0	0	0	0
## 4444 4444	0	0	0	0	0	0	0	0	0	0	1
## 4445 4445	0	0	0	0	0	3	0	0	0	0	0
## 4446 4446	0	0	0	0	0	0	0	0	0	0	0
## 4447 4447	0	0	0	0	0	0	0	0	0	0	0
## 4448 4448	0	1	0	0	0	0	0	0	0	0	0
## 4449 4449	0	0	0	0	1	0	0	0	0	0	0
## 4450 4450	0	0	0	1	1	0	0	0	0	0	0
## 4451 4451	2	0	0	0	0	1	0	0	0	0	0
## 4452 4452	0	0	0	0	0	0	0	0	0	0	0
## 4453 4453	2	0	0	0	0	0	0	0	0	0	0
## 4454 4454	0	0	0	0	0	2	1	0	0	0	0
## 4455 4455	0	0	1	2	0	0	0	0	0	0	0
## 4456 4456	0	0	0	2	0	0	0	0	0	0	0
## 4457 4457	2	0	1	0	0	0	0	0	0	0	0
## 4458 4458	0	0	0	0	0	0	0	0	0	0	0

## 4459 4459	0	0	0	0	0	0	0	0	0	1	0
## 4460 4460	0	0	0	0	0	0	0	2	0	0	0
## 4461 4461	0	0	0	1	0	0	0	0	2	0	0
## 4462 4462	0	0	0	0	1	0	0	0	0	0	0
## 4463 4463	0	0	0	0	0	0	2	0	0	0	0
## 4464 4464	0	0	0	0	0	0	0	0	0	0	0
## 4465 4465	1	2	0	0	0	0	0	0	0	0	0
## 4466 4466	0	0	0	0	0	0	2	0	0	0	0
## 4467 4467	0	0	0	0	3	0	1	2	3	1	0
## 4468 4468	0	0	0	0	0	0	0	0	0	0	0
## 4469 4469	0	0	0	0	0	0	0	0	2	0	0
## 4470 4470	0	0	0	0	0	0	1	0	0	0	1
## 4471 4471	0	1	0	0	0	0	0	0	0	0	0
## 4472 4472	0	0	0	0	0	0	0	0	0	0	0
## 4473 4473	0	0	0	0	0	0	0	0	0	0	0
## 4474 4474	0	0	2	0	0	0	0	0	0	0	0
## 4475 4475	0	1	0	0	0	0	0	0	0	0	0
## 4476 4476	0	0	0	0	0	2	0	0	0	0	0
## 4477 4477	0	0	0	1	0	0	0	0	0	0	0
## 4478 4478	0	0	0	0	1	0	0	0	0	0	0
## 4479 4479	0	0	0	0	0	0	0	0	0	0	0
## 4480 4480	0	0	0	0	0	0	0	0	0	0	0
## 4481 4481	0	0	0	0	0	0	0	0	0	1	3
## 4482 4482	0	0	0	0	0	2	0	0	0	0	0
## 4483 4483	0	0	0	0	0	0	0	0	0	0	0
## 4484 4484	0	0	0	3	0	0	0	0	0	0	0
## 4485 4485	0	0	0	0	0	0	0	0	0	0	0
## 4486 4486	0	0	0	0	0	0	0	0	0	0	0
## 4487 4487	0	0	0	0	0	0	0	0	0	2	0
## 4488 4488	0	3	0	0	0	0	0	0	0	0	0
## 4489 4489	0	0	1	0	1	0	0	0	0	0	0
## 4490 4490	0	0	0	1	0	0	0	0	0	0	0
## 4491 4491	0	0	0	0	0	0	0	0	0	0	0
## 4492 4492	0	0	0	0	0	0	0	0	0	0	0
## 4493 4493	0	0	0	0	0	0	0	0	0	0	0
## 4494 4494	0	0	0	0	0	0	2	0	0	0	0
## 4495 4495	0	2	2	0	0	0	0	1	0	0	0
## 4496 4496	0	0	0	0	0	0	0	0	0	0	0
## 4497 4497	0	0	0	0	0	0	1	0	0	0	0
## 4498 4498	0	0	0	0	0	0	0	0	2	0	0
## 4499 4499	1	1	0	0	0	0	0	0	0	0	0
## 4500 4500	0	0	0	0	0	0	2	0	0	0	0
## 4501 4501	0	0	1	0	0	0	1	0	0	0	0
## 4502 4502	0	0	0	0	0	0	0	0	0	0	0
## 4503 4503	0	0	0	0	0	0	0	0	0	0	0
## 4504 4504	1	0	1	0	0	0	0	0	0	0	0
## 4505 4505	0	0	0	0	0	0	0	0	0	0	0
## 4506 4506	0	0	0	0	0	0	0	0	0	0	0
## 4507 4507	0	0	0	0	0	0	1	0	0	0	0
## 4508 4508	0	0	0	0	0	0	1	0	0	0	0
## 4509 4509	0	0	0	0	1	0	0	0	0	0	0
## 4510 4510	0	0	0	0	0	0	0	0	0	0	0
## 4511 4511	0	0	0	0	0	0	0	0	0	0	0
## 4512 4512	0	0	0	0	0	0	0	2	0	0	0

## 4513	4513	1	0	0	0	0	0	0	0	0	0
## 4514	4514	0	0	0	0	0	0	0	0	0	0
## 4515	4515	0	0	0	0	0	0	0	0	0	0
## 4516	4516	0	0	0	0	0	1	0	0	0	0
## 4517	4517	0	0	0	0	0	0	0	0	0	0
## 4518	4518	0	0	0	0	0	0	0	0	0	0
## 4519	4519	0	0	0	1	0	0	0	0	0	0
## 4520	4520	0	0	0	1	0	0	0	0	0	0
## 4521	4521	0	0	0	1	0	0	0	0	0	0
## 4522	4522	0	0	0	0	0	0	0	0	0	0
## 4523	4523	0	0	0	0	0	0	1	0	0	0
## 4524	4524	0	0	0	0	0	0	0	0	0	0
## 4525	4525	0	0	0	0	0	0	0	0	0	1
## 4526	4526	0	0	0	0	0	0	1	0	0	0
## 4527	4527	0	0	0	0	0	0	0	0	0	1
## 4528	4528	0	0	0	0	0	0	0	0	0	0
## 4529	4529	0	0	0	0	0	0	0	0	0	0
## 4530	4530	0	0	0	2	0	0	0	0	0	0
## 4531	4531	0	0	0	1	0	0	0	0	0	0
## 4532	4532	0	0	0	0	0	0	0	1	0	0
## 4533	4533	0	1	0	0	0	0	1	0	1	0
## 4534	4534	0	0	0	0	0	0	2	0	0	0
## 4535	4535	0	0	0	0	0	0	0	0	0	0
## 4536	4536	0	0	0	0	0	0	0	0	0	0
## 4537	4537	0	0	0	0	0	0	1	0	0	0
## 4538	4538	0	0	0	0	0	0	0	0	0	2
## 4539	4539	0	0	0	0	0	0	0	0	0	0
## 4540	4540	0	1	0	2	0	0	0	0	0	0
## 4541	4541	0	0	0	0	0	0	0	0	0	1
## 4542	4542	0	0	0	0	0	0	0	3	0	0
## 4543	4543	0	0	0	0	0	0	0	0	0	0
## 4544	4544	0	0	0	0	0	0	0	0	0	0
## 4545	4545	0	0	0	0	0	1	0	0	0	0
## 4546	4546	0	0	0	0	0	0	0	0	0	0
## 4547	4547	0	0	0	0	0	0	0	0	0	0
## 4548	4548	0	0	0	1	0	0	0	0	0	0
## 4549	4549	0	0	0	0	0	0	0	0	0	0
## 4550	4550	0	0	1	0	0	0	0	0	0	0
## 4551	4551	0	0	0	1	0	0	0	0	0	0
## 4552	4552	0	0	0	0	0	0	0	0	0	0
## 4553	4553	0	0	0	0	0	0	0	0	0	0
## 4554	4554	0	0	0	0	0	1	0	0	0	0
## 4555	4555	0	0	0	0	0	0	0	0	0	1
## 4556	4556	0	0	0	0	0	0	0	0	0	1
## 4557	4557	0	1	0	0	0	0	0	0	0	0
## 4558	4558	0	0	0	0	0	0	0	1	0	0
## 4559	4559	0	0	0	0	0	0	0	0	0	0
## 4560	4560	0	0	0	0	0	0	0	0	0	0
## 4561	4561	0	1	0	0	0	0	0	0	0	0
## 4562	4562	0	0	0	0	0	0	0	0	0	1
## 4563	4563	0	0	0	0	0	0	0	0	0	0
## 4564	4564	0	0	0	0	0	0	1	0	0	0
## 4565	4565	0	0	0	0	0	1	0	0	0	0
## 4566	4566	1	0	0	0	0	0	0	0	0	0

## 4567 4567	0	0	0	0	0	1	0	0	0	0	0
## 4568 4568	0	0	0	0	0	0	1	0	0	0	0
## 4569 4569	0	0	0	0	1	0	0	0	0	0	0
## 4570 4570	0	0	0	1	0	0	0	0	0	1	0
## 4571 4571	0	0	0	0	0	0	0	2	0	0	0
## 4572 4572	0	0	0	0	0	0	0	0	0	0	0
## 4573 4573	0	0	0	1	0	0	0	0	0	0	0
## 4574 4574	0	0	0	1	0	0	0	0	0	0	0
## 4575 4575	0	0	0	0	0	0	0	0	0	0	0
## 4576 4576	0	0	0	0	0	0	0	0	1	0	0
## 4577 4577	0	0	0	0	0	0	1	0	0	0	0
## 4578 4578	0	0	0	0	0	0	0	0	0	0	0
## 4579 4579	0	0	0	0	0	0	0	0	1	0	0
## 4580 4580	0	0	0	0	0	0	0	0	0	0	0
## 4581 4581	0	0	0	0	0	0	1	0	0	0	0
## 4582 4582	0	0	0	1	0	0	0	0	0	0	0
## 4583 4583	0	1	0	0	0	0	1	0	0	0	0
## 4584 4584	0	0	0	0	0	0	0	0	0	1	0
## 4585 4585	0	0	0	0	0	0	0	0	0	0	0
## 4586 4586	0	0	0	0	0	0	1	0	0	0	0
## 4587 4587	0	0	0	0	0	0	1	0	0	0	0
## 4588 4588	0	0	0	0	0	0	2	0	0	0	0
## 4589 4589	0	0	0	0	0	0	0	0	0	0	0
## 4590 4590	0	0	1	1	0	0	0	0	0	0	0
## 4591 4591	0	0	0	1	0	0	0	0	0	0	0
## 4592 4592	0	0	0	0	0	0	0	0	0	0	0
## 4593 4593	0	0	0	0	0	0	0	0	0	0	0
## 4594 4594	0	0	0	0	0	0	0	0	0	0	0
## 4595 4595	0	0	0	0	0	0	0	0	0	0	0
## 4596 4596	0	0	0	0	0	0	0	0	0	0	0
## 4597 4597	0	0	0	0	0	0	0	0	0	1	0
## 4598 4598	0	0	0	0	0	0	0	0	0	0	0
## 4599 4599	0	0	0	0	0	0	0	0	0	0	0
## 4600 4600	0	0	0	0	0	0	0	0	2	2	1
## 4601 4601	0	0	0	0	0	0	0	0	0	0	0
## 4602 4602	0	0	0	0	0	0	0	0	0	0	0
## 4603 4603	0	0	0	0	0	0	0	0	0	0	0
## 4604 4604	0	0	0	0	0	1	0	0	0	0	0
## 4605 4605	0	0	0	0	0	0	0	1	0	0	0
## 4606 4606	0	0	0	0	0	0	0	0	0	0	0
## 4607 4607	0	0	0	0	0	0	0	0	0	0	0
## 4608 4608	0	0	0	0	0	0	0	0	0	0	0
## 4609 4609	0	0	0	0	0	0	0	0	0	0	0
## 4610 4610	0	0	0	2	0	0	0	0	0	1	1
## 4611 4611	0	0	0	0	1	0	0	0	0	0	0
## 4612 4612	0	0	0	0	0	0	0	0	0	0	0
## 4613 4613	0	0	0	0	0	0	1	0	0	0	0
## 4614 4614	0	0	0	0	0	0	0	0	0	0	1
## 4615 4615	0	0	0	1	0	0	0	0	0	0	0
## 4616 4616	0	0	0	0	0	0	0	0	0	0	0
## 4617 4617	0	0	0	0	0	0	0	0	0	0	0
## 4618 4618	0	0	0	0	0	1	0	0	0	0	0
## 4619 4619	0	0	0	0	0	0	0	0	0	0	0
## 4620 4620	0	0	0	0	0	0	0	0	0	0	0

## 4621	4621	0	0	0	0	1	0	0	0	0	0	0
## 4622	4622	0	0	0	0	0	0	1	0	0	0	0
## 4623	4623	0	0	0	0	0	0	0	1	0	0	0
## 4624	4624	0	0	0	0	0	0	0	0	0	0	0
## 4625	4625	0	0	0	0	0	1	0	0	0	0	0
## 4626	4626	0	0	0	0	0	0	0	0	0	0	0
## 4627	4627	0	0	0	0	0	0	0	0	0	0	0
## 4628	4628	0	0	1	0	0	0	0	0	0	0	0
## 4629	4629	0	0	0	0	0	0	1	0	0	0	0
## 4630	4630	0	0	0	0	0	0	0	0	0	0	0
## 4631	4631	0	0	0	0	1	0	0	0	0	0	0
## 4632	4632	0	0	0	0	0	0	0	0	0	0	0
## 4633	4633	0	0	0	0	0	0	0	0	0	0	0
## 4634	4634	1	0	0	0	0	0	0	0	0	0	0
## 4635	4635	1	0	0	0	0	0	0	0	0	0	0
## 4636	4636	0	0	0	0	0	0	1	0	0	0	0
## 4637	4637	0	0	0	0	1	0	0	0	0	0	0
## 4638	4638	0	0	0	1	0	0	0	0	0	0	0
## 4639	4639	0	0	0	0	0	0	0	0	0	0	0
## 4640	4640	0	0	0	0	0	0	0	0	0	0	0
## 4641	4641	0	0	0	0	1	0	0	0	0	0	0
## 4642	4642	0	0	0	0	0	0	0	0	0	0	0
## 4643	4643	0	0	0	0	0	0	1	0	0	0	0
## 4644	4644	0	0	0	0	0	0	0	0	0	1	0
## 4645	4645	0	0	0	0	0	0	0	1	0	0	0
## 4646	4646	0	0	0	1	0	0	0	0	0	0	0
## 4647	4647	0	0	1	0	0	0	0	0	0	0	0
## 4648	4648	0	0	0	0	0	0	0	0	0	0	0
## 4649	4649	0	1	0	0	0	0	0	0	0	0	0
## 4650	4650	0	0	0	0	0	0	0	0	0	0	1
## 4651	4651	0	0	0	0	0	1	0	0	0	0	0
## 4652	4652	0	0	0	0	0	0	0	0	0	0	0
## 4653	4653	0	0	0	1	0	0	0	0	0	0	0
## 4654	4654	0	0	0	0	0	0	0	0	0	0	0
## 4655	4655	0	0	0	0	0	0	0	0	0	0	0
## 4656	4656	0	0	0	0	0	0	0	0	0	0	0
## 4657	4657	0	0	0	0	0	0	0	1	0	0	0
## 4658	4658	0	0	0	0	1	0	0	0	0	0	0
## 4659	4659	0	0	0	0	0	0	1	0	0	0	0
## 4660	4660	0	0	0	0	0	0	1	0	1	0	0
## 4661	4661	0	0	0	0	0	0	0	0	0	0	1
## 4662	4662	0	0	0	0	0	0	1	0	0	0	0
## 4663	4663	0	0	0	0	0	0	0	1	0	0	0
## 4664	4664	0	0	0	0	0	0	0	0	0	0	0
## 4665	4665	0	0	1	0	0	0	0	0	0	0	0
## 4666	4666	0	0	0	0	0	0	0	0	0	0	0
## 4667	4667	0	0	1	0	0	0	0	0	0	0	0
## 4668	4668	0	0	0	1	0	0	0	0	0	1	2
## 4669	4669	0	0	0	0	0	0	0	0	0	0	0
## 4670	4670	0	0	0	0	0	0	0	0	0	0	0
## 4671	4671	0	0	0	0	0	0	0	0	0	0	1
## 4672	4672	1	0	0	0	0	0	0	0	0	0	0
## 4673	4673	0	0	0	0	0	0	0	0	0	0	0
## 4674	4674	0	0	0	0	0	0	0	0	0	0	0

## 4675 4675	0	0	0	2	0	1	0	0	0	0	0
## 4676 4676	0	0	0	0	0	0	0	0	0	1	0
## 4677 4677	0	0	0	0	0	0	0	0	0	0	0
## 4678 4678	0	1	0	0	0	0	0	0	0	0	0
## 4679 4679	0	0	0	0	0	0	0	0	0	0	0
## 4680 4680	0	0	0	0	0	0	0	1	0	0	0
## 4681 4681	0	1	0	0	0	0	0	0	0	0	0
## 4682 4682	0	0	0	0	0	0	0	0	1	0	0
## 4683 4683	0	0	0	0	0	0	0	0	0	0	0
## 4684 4684	0	0	0	0	0	0	0	0	0	0	0
## 4685 4685	1	0	0	1	0	0	0	0	0	0	0
## 4686 4686	0	1	0	0	0	0	0	0	0	0	0
## 4687 4687	0	0	0	0	0	0	0	0	0	0	0
## 4688 4688	0	0	0	1	0	0	0	0	0	0	0
## 4689 4689	0	0	0	0	0	0	0	0	0	0	0
## 4690 4690	0	0	0	0	0	0	0	0	0	0	0
## 4691 4691	0	0	0	0	0	0	0	0	0	0	0
## 4692 4692	0	0	0	0	0	0	0	0	0	0	0
## 4693 4693	0	0	0	0	0	0	0	0	0	0	0
## 4694 4694	0	0	0	0	0	0	0	0	0	0	0
## 4695 4695	0	0	0	0	0	0	0	0	0	0	0
## 4696 4696	1	0	0	0	0	0	0	0	0	0	0
## 4697 4697	0	1	1	0	0	0	0	0	0	0	0
## 4698 4698	0	0	0	0	0	0	0	2	0	0	0
## 4699 4699	0	0	0	0	0	0	1	0	0	0	0
## 4700 4700	2	0	0	0	0	0	0	0	0	0	0
## 4701 4701	0	0	0	0	0	0	0	0	0	1	0
## 4702 4702	0	0	0	0	0	0	0	0	0	0	0
## 4703 4703	0	0	0	0	0	0	0	1	0	0	0
## 4704 4704	0	0	0	0	0	0	0	0	0	0	0
## 4705 4705	0	0	0	0	0	0	1	0	0	0	0
## 4706 4706	0	0	0	0	0	0	0	0	0	0	0
## 4707 4707	0	0	0	0	0	0	0	0	0	0	0
## 4708 4708	0	0	0	0	0	0	0	0	0	0	0
## 4709 4709	0	0	0	0	0	1	0	0	0	0	0
## 4710 4710	0	2	0	0	0	0	0	0	0	0	0
## 4711 4711	0	0	0	0	0	0	0	0	0	0	0
## 4712 4712	0	0	0	0	0	0	0	0	0	0	0
## 4713 4713	0	1	0	0	0	0	1	0	0	0	0
## 4714 4714	1	0	0	0	0	0	0	0	0	0	0
## 4715 4715	0	0	0	0	0	0	0	0	0	0	0
## 4716 4716	0	0	0	0	1	0	0	0	0	0	0
## 4717 4717	0	0	0	0	0	0	0	0	1	0	0
## 4718 4718	0	0	0	0	0	0	0	2	0	2	0
## 4719 4719	0	0	0	0	0	0	0	0	0	0	0
## 4720 4720	0	0	0	0	0	0	0	0	0	0	0
## 4721 4721	0	0	0	0	0	0	0	0	0	1	0
## 4722 4722	0	0	0	0	0	0	0	0	0	0	0
## 4723 4723	0	0	0	0	0	0	1	0	0	0	0
## 4724 4724	0	0	1	0	0	0	0	0	0	0	0
## 4725 4725	0	0	0	0	1	0	0	0	0	1	0
## 4726 4726	0	0	0	0	0	0	0	0	0	0	1
## 4727 4727	0	0	0	0	0	0	0	0	0	0	0
## 4728 4728	0	0	0	0	1	0	0	0	0	0	0

## 4729	4729	0	0	0	0	0	0	0	0	0	0	0
## 4730	4730	0	0	0	0	0	0	0	0	0	0	0
## 4731	4731	0	0	0	0	2	0	0	0	0	0	0
## 4732	4732	0	0	0	1	0	0	0	0	0	0	0
## 4733	4733	0	0	0	0	0	0	0	0	0	1	0
## 4734	4734	1	0	0	1	0	0	0	0	0	0	0
## 4735	4735	0	0	0	0	1	0	0	0	0	0	0
## 4736	4736	0	0	0	0	0	0	1	0	0	0	0
## 4737	4737	0	0	0	0	0	0	1	0	0	0	0
## 4738	4738	0	0	0	0	0	0	0	0	0	0	0
## 4739	4739	0	1	1	0	0	0	0	0	0	0	0
## 4740	4740	0	0	0	0	0	0	1	0	0	0	0
## 4741	4741	0	0	0	0	0	0	0	1	0	0	0
## 4742	4742	0	0	0	0	1	0	0	0	0	0	0
## 4743	4743	0	0	0	0	0	0	1	0	0	0	0
## 4744	4744	0	0	0	1	0	0	0	0	0	0	0
## 4745	4745	1	0	0	0	0	0	0	0	0	0	0
## 4746	4746	0	0	0	0	0	0	0	0	0	0	0
## 4747	4747	0	0	0	0	0	0	0	0	0	0	0
## 4748	4748	0	0	0	0	0	0	0	0	0	0	0
## 4749	4749	0	0	0	0	0	0	1	0	0	0	0
## 4750	4750	0	0	0	0	0	0	0	0	0	0	1
## 4751	4751	0	0	0	0	1	0	2	1	0	0	0
## 4752	4752	0	0	0	0	0	0	1	0	0	0	0
## 4753	4753	0	0	0	0	0	0	0	0	0	1	0
## 4754	4754	0	0	0	0	0	0	0	0	0	0	0
## 4755	4755	0	0	0	0	0	0	0	0	1	0	0
## 4756	4756	0	0	0	0	0	0	0	0	0	0	0
## 4757	4757	0	0	0	0	0	0	0	0	0	0	0
## 4758	4758	0	0	0	0	0	0	0	0	0	0	0
## 4759	4759	0	0	0	0	0	0	0	0	0	0	0
## 4760	4760	0	0	0	0	0	0	0	0	0	0	0
## 4761	4761	0	0	0	0	0	0	0	0	0	0	0
## 4762	4762	1	0	0	0	0	0	0	0	0	0	0
## 4763	4763	1	0	0	0	0	0	0	0	0	0	0
## 4764	4764	1	0	0	0	0	0	0	0	0	0	0
## 4765	4765	0	0	0	0	0	0	0	0	0	0	0
## 4766	4766	0	0	1	0	0	0	0	0	0	0	0
## 4767	4767	0	0	0	0	0	0	0	0	0	0	0
## 4768	4768	0	0	0	0	0	0	1	0	0	0	0
## 4769	4769	0	0	0	0	0	0	0	0	2	0	0
## 4770	4770	0	0	0	0	0	0	0	0	0	0	0
## 4771	4771	0	0	0	0	0	1	0	0	0	0	0
## 4772	4772	0	0	0	0	0	0	0	0	0	0	0
## 4773	4773	0	0	0	0	0	0	0	0	0	0	0
## 4774	4774	0	1	0	0	0	0	0	0	0	0	0
## 4775	4775	0	0	0	0	0	0	0	0	0	0	0
## 4776	4776	0	0	0	0	0	1	0	0	0	0	0
## 4777	4777	0	0	0	0	0	0	1	0	0	0	0
## 4778	4778	0	0	0	0	0	0	1	0	0	0	0
## 4779	4779	0	0	0	0	0	0	0	0	0	1	0
## 4780	4780	0	0	0	0	0	0	0	0	0	0	0
## 4781	4781	0	0	0	0	0	0	0	0	0	0	0
## 4782	4782	0	0	0	0	0	0	0	0	0	1	0

## 4783	4783	1	0	0	0	0	0	0	0	0	0	0
## 4784	4784	0	0	0	0	0	0	1	0	0	0	0
## 4785	4785	0	0	0	0	0	0	0	0	0	0	0
## 4786	4786	0	0	0	1	0	0	0	0	0	0	0
## 4787	4787	0	0	0	0	0	0	0	1	0	0	0
## 4788	4788	0	0	0	0	0	0	0	0	0	0	0
## 4789	4789	0	0	0	0	0	0	0	0	1	0	0
## 4790	4790	0	0	0	0	0	0	0	0	0	0	0
## 4791	4791	0	0	0	0	0	0	0	0	0	1	0
## 4792	4792	0	0	0	0	0	0	0	0	0	0	0
## 4793	4793	0	0	0	0	0	0	0	0	0	0	0
## 4794	4794	0	1	0	0	0	0	0	0	0	0	0
## 4795	4795	0	0	0	0	0	0	2	0	0	0	0
## 4796	4796	0	0	0	0	0	1	0	0	0	0	0
## 4797	4797	0	0	0	0	0	0	0	0	0	0	1
## 4798	4798	0	0	0	0	0	0	0	0	0	0	0
## 4799	4799	0	0	0	1	0	0	0	0	0	0	0
## 4800	4800	0	0	0	0	0	0	0	0	0	0	0
## 4801	4801	0	0	0	0	0	1	0	0	0	0	0
## 4802	4802	0	0	0	0	0	0	0	0	0	0	0
## 4803	4803	0	0	0	1	0	0	0	0	0	0	0
## 4804	4804	0	0	0	1	0	0	0	0	0	0	0
## 4805	4805	0	0	0	0	0	0	0	1	0	0	0
## 4806	4806	0	0	0	0	0	2	0	0	0	0	0
## 4807	4807	0	0	0	0	0	0	0	0	0	0	0
## 4808	4808	0	0	0	0	0	0	0	0	0	0	1
## 4809	4809	0	0	0	0	0	0	0	0	0	1	1
## 4810	4810	0	0	0	0	0	0	0	0	0	0	0
## 4811	4811	0	0	0	0	1	0	0	0	0	0	0
## 4812	4812	0	0	0	0	0	0	0	0	0	0	0
## 4813	4813	0	0	0	1	0	0	0	0	0	0	0
## 4814	4814	0	0	0	1	0	0	0	0	0	0	0
## 4815	4815	0	0	0	0	0	0	0	1	0	0	0
## 4816	4816	0	0	0	0	0	0	0	0	0	0	0
## 4817	4817	0	0	0	0	0	0	0	0	0	0	0
## 4818	4818	0	0	0	0	0	0	0	0	0	0	0
## 4819	4819	0	0	0	0	0	0	0	0	0	0	0
## 4820	4820	0	0	0	0	0	0	0	0	0	0	0
## 4821	4821	1	0	0	0	0	0	0	0	0	0	0
## 4822	4822	0	0	0	1	0	0	0	0	0	0	0
## 4823	4823	0	0	0	1	0	0	0	0	0	0	0
## 4824	4824	0	0	0	0	0	0	0	1	0	0	0
## 4825	4825	0	1	0	0	0	0	0	0	0	0	0
## 4826	4826	0	0	0	0	0	0	0	0	0	0	0
## 4827	4827	0	0	0	0	0	0	0	0	0	0	1
## 4828	4828	0	0	1	0	0	0	0	0	0	0	0
## 4829	4829	0	0	0	1	0	0	0	0	0	0	0
## 4830	4830	0	1	0	0	0	0	0	0	0	0	0
## 4831	4831	0	0	0	0	0	0	0	0	0	0	0
## 4832	4832	0	0	0	0	0	0	1	0	0	0	0
## 4833	4833	0	0	0	0	0	1	0	0	0	0	0
## 4834	4834	0	0	1	0	0	0	0	0	0	0	0
## 4835	4835	0	0	0	0	0	0	1	0	0	0	0
## 4836	4836	0	0	0	0	0	1	0	0	0	0	0

## 4837 4837	0	0	1	0	0	0	0	0	0	0	0
## 4838 4838	0	0	0	1	0	0	0	0	0	0	0
## 4839 4839	0	2	0	0	0	0	0	0	0	0	0
## 4840 4840	0	0	0	0	0	0	0	0	0	1	0
## 4841 4841	0	0	0	0	0	0	0	0	0	1	0
## 4842 4842	0	0	0	0	0	0	1	0	0	0	0
## 4843 4843	0	0	0	0	0	0	0	0	1	0	0
## 4844 4844	0	0	0	0	0	0	0	0	0	0	0
## 4845 4845	0	0	0	0	0	0	0	0	0	0	0
## 4846 4846	0	0	0	0	0	1	0	0	0	0	0
## 4847 4847	0	0	0	0	0	0	1	0	0	0	0
## 4848 4848	0	0	0	0	0	0	0	0	0	0	1
## 4849 4849	0	0	0	0	0	0	0	0	0	0	0
## 4850 4850	0	0	0	0	0	0	0	1	0	0	0
## 4851 4851	0	0	0	0	0	0	0	0	0	1	0
## 4852 4852	0	0	1	0	0	0	0	0	0	0	0
## 4853 4853	0	0	0	0	0	0	0	0	0	0	0
## 4854 4854	0	0	0	0	0	0	0	0	0	0	0
## 4855 4855	0	0	0	0	0	0	0	1	0	0	0
## 4856 4856	0	0	0	0	0	0	0	0	0	0	0
## 4857 4857	0	0	0	0	0	0	0	0	0	0	0
## 4858 4858	0	0	0	1	0	0	0	0	0	0	0
## 4859 4859	0	0	0	0	0	0	0	0	0	0	0
## 4860 4860	0	0	0	0	0	0	0	0	0	0	0
## 4861 4861	0	0	0	0	0	0	0	0	0	0	0
## 4862 4862	0	1	0	0	0	0	0	0	0	0	0
## 4863 4863	0	0	0	0	0	0	1	0	0	0	0
## 4864 4864	0	0	0	0	1	0	0	0	0	0	0
## 4865 4865	0	0	0	0	0	0	0	0	0	0	0
## 4866 4866	0	0	0	0	1	0	0	0	0	0	0
## 4867 4867	0	0	0	0	0	0	1	0	0	0	0
## 4868 4868	0	0	0	0	0	0	0	0	0	0	0
## 4869 4869	0	0	0	0	1	0	0	0	0	0	0
## 4870 4870	0	0	0	0	0	0	1	0	0	0	0
## 4871 4871	0	0	0	0	0	0	0	0	0	0	0
## 4872 4872	0	0	0	0	0	0	0	0	0	0	0
## 4873 4873	0	0	0	0	0	0	0	0	0	0	0
## 4874 4874	0	0	0	0	0	0	0	0	0	0	0
## 4875 4875	0	0	0	0	0	1	0	0	0	0	0
## 4876 4876	0	0	0	0	0	1	0	0	0	0	0
## 4877 4877	0	0	0	0	0	0	0	0	0	0	0
## 4878 4878	0	0	0	0	0	0	0	0	0	0	0
## 4879 4879	0	0	0	0	0	0	1	0	0	0	0
## 4880 4880	0	0	0	0	0	0	0	0	0	0	0
## 4881 4881	0	0	1	0	0	0	0	0	0	0	0
## 4882 4882	0	0	0	0	0	0	0	0	0	1	0
## 4883 4883	0	0	0	0	1	0	0	0	0	0	0
## 4884 4884	0	0	0	0	0	0	1	0	0	0	0
## 4885 4885	0	0	0	0	0	0	0	0	0	0	0
## 4886 4886	0	0	1	0	0	0	0	0	0	0	0
## 4887 4887	0	0	0	0	0	0	0	0	0	0	0
## 4888 4888	0	0	0	0	0	0	0	0	0	0	0
## 4889 4889	0	0	0	0	0	0	0	0	0	0	1
## 4890 4890	0	0	0	0	0	0	0	0	0	0	0

## 4891 4891	2	2	1	0	1	0	0	0	0	0	0
## 4892 4892	0	0	0	0	2	0	0	0	0	0	0
## 4893 4893	0	0	1	0	0	0	0	0	0	0	0
## 4894 4894	0	1	0	0	0	0	0	0	0	0	0
## 4895 4895	0	0	0	0	0	0	0	0	0	0	0
## 4896 4896	0	0	0	0	1	0	0	0	0	0	0
## 4897 4897	0	0	0	0	0	0	0	0	0	0	0
## 4898 4898	0	0	0	0	1	0	0	0	0	0	0
## 4899 4899	1	0	0	0	0	0	0	0	0	0	0
## 4900 4900	0	0	0	0	0	0	1	0	0	0	0
## 4901 4901	0	0	0	0	0	0	0	0	0	0	0
## 4902 4902	0	0	0	0	0	0	0	0	0	1	0
## 4903 4903	0	0	0	1	0	1	0	0	0	0	0
## 4904 4904	0	0	1	0	0	0	0	0	0	0	0
## 4905 4905	0	0	0	1	0	0	0	0	0	0	0
## 4906 4906	0	0	0	0	0	0	1	0	0	0	0
## 4907 4907	0	0	0	0	0	0	0	0	0	0	0
## 4908 4908	0	0	0	0	0	0	0	0	0	0	1
## 4909 4909	0	0	0	0	0	0	0	0	0	0	0
## 4910 4910	0	0	0	0	0	0	2	0	0	0	0
## 4911 4911	0	0	0	0	0	0	0	0	0	1	0
## 4912 4912	0	0	0	1	0	0	0	0	0	0	0
## 4913 4913	0	0	0	0	0	0	0	0	0	0	0
## 4914 4914	0	0	0	1	0	0	0	0	0	0	0
## 4915 4915	0	0	0	0	0	0	1	1	0	0	0
## 4916 4916	0	0	0	0	0	0	0	0	0	0	0
## 4917 4917	0	0	0	2	0	0	0	0	0	0	0
## 4918 4918	0	0	0	0	0	0	0	0	0	0	1
## 4919 4919	0	0	0	0	0	1	0	0	0	0	0
## 4920 4920	0	0	0	0	0	0	0	0	1	0	0
## 4921 4921	0	1	0	0	0	0	0	0	0	0	0
## 4922 4922	0	0	0	0	0	0	0	0	0	0	0
## 4923 4923	0	0	0	1	1	0	0	0	0	0	0
## 4924 4924	0	0	0	0	0	0	0	0	0	0	0
## 4925 4925	0	0	0	0	0	0	0	0	0	0	0
## 4926 4926	0	0	0	0	0	0	0	1	0	0	0
## 4927 4927	0	1	0	0	0	0	0	0	0	0	0
## 4928 4928	1	0	0	0	0	0	0	0	0	0	0
## 4929 4929	0	0	0	0	0	0	0	0	0	0	0
## 4930 4930	2	0	0	0	0	0	0	0	0	0	0
## 4931 4931	0	0	0	0	0	0	0	0	0	0	0
## 4932 4932	0	0	0	0	0	0	0	0	0	0	0
## 4933 4933	0	0	0	0	0	0	0	0	0	0	0
## 4934 4934	0	0	0	0	0	0	0	0	0	0	0
## 4935 4935	0	1	0	0	0	0	0	0	0	0	0
## 4936 4936	0	0	0	0	0	0	0	0	0	0	0
## 4937 4937	0	0	0	0	0	0	0	2	0	0	0
## 4938 4938	0	0	0	0	0	0	0	0	0	0	1
## 4939 4939	0	0	0	0	0	0	0	1	0	0	0
## 4940 4940	0	0	0	0	0	0	0	1	0	0	0
## 4941 4941	0	0	0	0	0	0	1	0	0	0	0
## 4942 4942	0	0	0	0	0	0	0	0	0	0	0
## 4943 4943	0	0	1	0	0	0	0	0	0	0	0
## 4944 4944	0	0	0	0	0	0	0	0	1	0	0

## 4945	4945	0	0	0	0	0	0	0	1	0	0	0
## 4946	4946	0	0	0	0	1	0	0	0	0	0	0
## 4947	4947	0	0	0	0	0	0	0	0	0	0	0
## 4948	4948	0	0	0	1	0	0	0	1	0	0	0
## 4949	4949	0	1	0	0	0	0	0	0	0	0	0
## 4950	4950	0	0	0	0	0	0	1	0	0	0	0
## 4951	4951	0	0	0	0	0	0	0	0	0	0	0
## 4952	4952	0	0	0	0	0	0	0	1	0	0	0
## 4953	4953	0	0	0	0	0	0	0	0	1	0	0
## 4954	4954	0	0	1	0	0	0	0	0	0	0	0
## 4955	4955	0	0	0	0	0	0	0	0	0	0	0
## 4956	4956	0	0	0	0	0	1	0	0	0	0	0
## 4957	4957	0	0	1	0	0	0	0	0	0	0	0
## 4958	4958	0	0	0	0	0	0	0	0	0	0	0
## 4959	4959	0	0	0	0	0	0	0	0	0	0	0
## 4960	4960	0	0	0	0	0	1	0	0	0	0	0
## 4961	4961	0	0	0	0	0	0	0	0	0	0	0
## 4962	4962	0	0	0	0	0	0	0	0	0	0	0
## 4963	4963	0	0	0	0	0	0	0	0	0	0	0
## 4964	4964	0	0	0	0	0	0	0	1	0	0	0
## 4965	4965	0	0	0	0	0	0	0	0	0	0	0
## 4966	4966	0	0	0	0	0	0	0	0	0	0	0
## 4967	4967	0	0	0	0	0	0	1	1	0	0	0
## 4968	4968	0	0	0	0	1	0	0	0	0	0	0
## 4969	4969	0	0	0	0	0	0	1	0	0	0	0
## 4970	4970	0	0	0	0	0	0	0	1	0	0	0
## 4971	4971	0	1	0	0	0	0	1	0	0	0	0
## 4972	4972	0	0	0	0	0	0	0	0	0	0	1
## 4973	4973	0	0	0	0	0	0	0	0	0	0	0
## 4974	4974	0	0	0	0	0	0	1	0	0	0	0
## 4975	4975	0	0	0	0	0	0	0	0	0	0	1
## 4976	4976	0	0	0	0	0	0	0	0	0	0	0
## 4977	4977	0	0	0	0	0	0	0	0	0	0	0
## 4978	4978	0	0	2	0	0	0	0	0	0	0	0
## 4979	4979	0	0	0	0	0	0	0	0	0	0	0
## 4980	4980	0	0	0	0	0	0	0	0	0	0	1
## 4981	4981	0	0	0	0	0	0	0	0	0	0	1
## 4982	4982	0	0	0	0	0	0	0	0	0	0	0
## 4983	4983	0	0	0	1	0	0	0	0	0	0	0
## 4984	4984	0	0	0	0	0	0	1	0	0	0	0
## 4985	4985	0	0	0	0	0	0	0	0	0	0	0
## 4986	4986	0	0	0	0	0	0	0	0	0	0	0
## 4987	4987	0	0	0	0	0	0	0	0	0	0	0
## 4988	4988	0	0	0	0	0	0	0	0	0	0	0
## 4989	4989	0	0	0	0	0	0	0	0	0	0	0
## 4990	4990	0	0	0	0	0	0	0	0	0	0	0
## 4991	4991	0	0	0	0	0	0	0	0	0	0	0
## 4992	4992	0	0	0	0	0	0	0	0	0	0	0
## 4993	4993	0	0	0	0	0	0	0	0	0	1	0
## 4994	4994	0	0	1	0	0	0	0	0	0	0	0
## 4995	4995	0	0	0	0	0	0	0	0	0	0	0
## 4996	4996	0	0	0	0	0	0	1	0	0	0	0
## 4997	4997	0	1	0	0	0	0	0	0	0	0	0
## 4998	4998	0	0	0	0	0	0	0	0	0	0	0

## 4999 4999	2	0	4	0	1	1	0	0	0	0	0
## 5000 5000	0	0	0	0	0	0	0	1	0	0	0
## 5001 5001	0	0	0	0	0	0	0	0	0	0	0
## 5002 5002	0	0	0	0	0	0	0	0	1	0	0
## 5003 5003	0	0	0	0	0	0	0	0	0	0	0
## 5004 5004	0	0	0	0	0	0	0	0	0	0	0
## 5005 5005	0	0	0	0	0	0	1	0	0	0	0
## 5006 5006	0	0	0	1	0	0	1	0	0	0	0
## 5007 5007	0	0	0	0	0	1	0	0	0	0	0
## 5008 5008	0	0	0	0	0	0	0	0	0	0	0
## 5009 5009	0	0	0	0	0	0	0	0	0	0	0
## 5010 5010	0	0	0	0	0	0	0	0	0	0	0
## 5011 5011	0	1	0	0	0	0	0	0	0	0	0
## 5012 5012	0	1	0	0	0	0	0	0	0	0	0
## 5013 5013	0	0	0	0	0	0	0	0	0	0	0
## 5014 5014	0	0	0	0	0	0	0	0	1	0	0
## 5015 5015	0	0	0	0	0	0	0	0	0	0	0
## 5016 5016	0	0	0	1	0	0	0	0	0	0	0
## 5017 5017	0	0	0	0	0	0	0	0	0	0	0
## 5018 5018	0	0	0	1	0	0	0	0	0	0	0
## 5019 5019	0	0	0	0	0	0	0	0	0	0	0
## 5020 5020	0	0	0	0	0	0	0	0	0	0	1
## 5021 5021	0	0	0	0	0	0	0	0	0	0	0
## 5022 5022	0	0	0	0	0	0	0	0	0	0	0
## 5023 5023	0	0	0	0	0	0	0	0	0	0	0
## 5024 5024	1	0	0	0	0	0	0	0	0	0	0
## 5025 5025	0	0	0	0	0	0	0	1	0	0	0
## 5026 5026	0	0	0	1	0	0	0	0	0	0	0
## 5027 5027	0	0	0	0	1	0	0	0	0	0	0
## 5028 5028	0	1	0	0	0	0	0	0	0	0	0
## 5029 5029	0	0	0	0	0	0	0	0	0	0	0
## 5030 5030	1	0	0	0	0	0	0	0	0	0	0
## 5031 5031	0	0	0	0	0	0	0	0	0	0	0
## 5032 5032	0	0	0	1	0	0	0	0	0	0	0
## 5033 5033	0	0	0	0	1	0	0	0	0	0	0
## 5034 5034	0	0	0	0	1	0	0	0	0	0	0
## 5035 5035	1	0	0	0	0	0	0	0	0	0	0
## 5036 5036	0	0	0	0	0	0	0	0	0	0	0
## 5037 5037	1	0	0	0	0	0	0	0	0	0	0
## 5038 5038	0	0	0	0	0	0	0	0	0	1	0
## 5039 5039	0	0	0	1	0	0	0	0	0	0	0
## 5040 5040	0	0	0	0	0	0	0	0	0	0	1
## 5041 5041	0	0	0	0	0	0	0	0	0	0	0
## 5042 5042	0	0	0	0	0	0	0	0	0	0	0
## 5043 5043	0	0	0	0	0	0	0	0	0	0	0
## 5044 5044	0	0	0	0	0	0	0	0	0	0	0
## 5045 5045	0	0	0	0	0	0	0	0	0	0	2
## 5046 5046	0	0	0	0	0	0	0	0	0	0	0
## 5047 5047	0	0	0	0	1	0	1	0	0	0	0
## 5048 5048	0	0	0	0	0	0	0	0	0	0	0
## 5049 5049	0	0	0	0	0	0	0	0	1	0	0
## 5050 5050	0	0	0	1	0	0	0	0	0	0	0
## 5051 5051	0	0	0	0	1	0	0	0	0	0	0
## 5052 5052	1	0	0	0	0	0	0	0	0	0	0

## 5053 5053	0	0	0	0	0	0	0	0	0	0	1
## 5054 5054	1	0	0	0	0	0	0	0	0	0	0
## 5055 5055	0	0	0	0	0	0	0	0	0	0	0
## 5056 5056	0	0	0	0	0	0	0	0	0	0	0
## 5057 5057	0	0	0	0	0	0	0	0	0	0	1
## 5058 5058	0	0	0	0	0	0	0	0	0	0	0
## 5059 5059	0	0	0	0	0	0	0	0	0	0	0
## 5060 5060	0	0	0	0	0	0	0	1	0	0	0
## 5061 5061	0	0	0	0	0	0	0	0	0	0	0
## 5062 5062	0	0	0	0	0	0	0	0	0	0	0
## 5063 5063	0	1	0	1	0	0	0	0	0	0	0
## 5064 5064	0	0	0	0	0	0	0	0	0	0	0
## 5065 5065	0	0	0	0	0	0	0	0	1	0	0
## 5066 5066	0	0	0	0	0	0	0	0	0	0	0
## 5067 5067	0	0	1	0	0	0	0	0	0	0	0
## 5068 5068	0	0	0	0	0	0	0	0	0	1	0
## 5069 5069	0	0	1	0	0	0	0	0	0	0	0
## 5070 5070	0	0	0	0	0	0	0	0	0	0	0
## 5071 5071	0	0	0	0	0	0	1	0	0	0	0
## 5072 5072	0	0	0	1	0	0	0	0	0	0	0
## 5073 5073	0	0	0	0	1	0	0	0	0	0	0
## 5074 5074	0	0	0	0	0	0	1	0	0	0	0
## 5075 5075	0	0	0	0	0	0	1	0	0	0	0
## 5076 5076	0	0	0	0	0	0	0	1	0	0	0
## 5077 5077	0	0	0	0	0	0	0	0	0	0	0
## 5078 5078	0	0	0	0	0	0	0	0	0	0	1
## 5079 5079	0	0	0	0	0	0	1	0	0	0	0
## 5080 5080	0	0	0	1	0	0	0	0	0	0	0
## 5081 5081	1	0	0	1	0	0	0	0	0	0	0
## 5082 5082	0	0	0	0	0	0	0	0	0	0	1
## 5083 5083	0	0	0	0	0	0	0	0	0	0	1
## 5084 5084	0	0	0	0	0	0	1	0	0	0	0
## 5085 5085	0	0	0	0	1	0	0	0	0	0	0
## 5086 5086	0	0	0	0	0	0	0	0	0	0	0
## 5087 5087	0	2	0	0	0	0	0	0	0	0	0
## 5088 5088	0	0	0	0	0	0	0	0	0	0	0
## 5089 5089	0	0	0	1	0	0	0	0	0	0	0
## 5090 5090	0	0	0	1	0	0	0	0	0	0	0
## 5091 5091	0	0	0	0	0	1	0	0	0	0	0
## 5092 5092	0	0	0	0	0	0	0	0	0	0	0
## 5093 5093	0	0	0	0	0	0	0	0	0	0	0
## 5094 5094	0	0	0	0	0	0	0	0	0	0	0
## 5095 5095	0	0	0	0	0	1	0	0	0	0	0
## 5096 5096	0	1	0	0	0	0	0	0	0	0	0
## 5097 5097	0	0	0	0	0	0	0	0	0	0	0
## 5098 5098	0	0	0	0	0	0	0	0	0	0	0
## 5099 5099	0	1	0	0	0	0	0	0	0	0	0
## 5100 5100	0	0	0	0	0	0	1	0	0	0	0
## 5101 5101	0	0	0	0	0	0	0	0	0	0	0
## 5102 5102	0	0	0	0	0	0	0	0	0	0	1
## 5103 5103	0	0	1	0	0	0	0	0	0	0	0
## 5104 5104	0	0	0	0	0	0	0	0	0	0	0
## 5105 5105	0	0	0	0	0	0	0	0	0	0	0
## 5106 5106	0	0	0	0	0	0	0	0	0	0	0

## 5107 5107	0	0	0	0	0	0	0	0	0	0	0
## 5108 5108	0	0	0	0	0	0	0	0	0	1	0
## 5109 5109	0	0	0	0	1	0	0	0	0	0	0
## 5110 5110	0	0	0	0	0	0	0	0	0	1	0
## 5111 5111	0	0	0	0	0	0	0	0	0	0	0
## 5112 5112	0	0	0	0	0	0	0	0	0	0	0
## 5113 5113	0	1	0	0	0	0	0	0	0	0	0
## 5114 5114	0	0	0	0	0	0	1	0	0	0	0
## 5115 5115	0	1	0	0	0	0	0	0	0	0	0
## 5116 5116	0	0	0	0	0	0	0	1	0	0	0
## 5117 5117	0	0	0	0	0	0	0	0	0	0	2
## 5118 5118	0	0	0	0	0	0	0	0	0	1	0
## 5119 5119	0	0	0	0	0	0	0	0	0	0	0
## 5120 5120	0	0	0	0	0	0	0	0	0	0	0
## 5121 5121	0	0	1	0	0	0	0	0	0	0	0
## 5122 5122	0	0	0	0	0	0	0	0	0	0	0
## 5123 5123	0	0	0	0	0	0	0	0	0	0	0
## 5124 5124	0	0	0	0	0	0	0	0	0	0	1
## 5125 5125	0	0	0	0	0	0	0	0	0	0	0
## 5126 5126	0	0	0	0	0	0	0	0	0	0	0
## 5127 5127	0	0	0	0	0	0	0	0	0	0	0
## 5128 5128	0	0	0	0	2	0	0	0	0	0	0
## 5129 5129	0	0	0	0	0	0	0	0	0	0	0
## 5130 5130	0	0	0	0	0	0	0	0	0	0	1
## 5131 5131	0	0	0	0	0	0	0	0	0	1	0
## 5132 5132	0	0	0	0	0	0	0	0	0	0	0
## 5133 5133	0	0	0	0	0	0	0	0	0	0	0
## 5134 5134	0	0	0	0	0	0	0	1	0	0	0
## 5135 5135	0	0	0	0	0	0	0	0	0	0	0
## 5136 5136	0	0	0	0	0	0	0	0	0	0	0
## 5137 5137	0	0	0	0	0	0	0	0	0	0	0
## 5138 5138	1	0	0	0	0	0	0	0	0	0	0
## 5139 5139	0	0	0	0	0	0	0	0	0	0	0
## 5140 5140	0	0	0	0	0	0	0	0	0	0	0
## 5141 5141	1	0	0	2	0	0	0	0	0	0	0
## 5142 5142	0	0	0	0	0	0	0	0	0	0	0
## 5143 5143	0	0	0	0	0	0	0	0	0	0	0
## 5144 5144	0	0	0	0	0	0	0	0	0	0	0
## 5145 5145	1	0	0	1	0	0	0	0	0	0	0
## 5146 5146	0	0	0	1	0	0	0	0	0	0	0
## 5147 5147	0	0	0	1	0	0	0	0	0	0	0
## 5148 5148	0	0	0	0	0	0	1	0	0	0	0
## 5149 5149	0	0	0	0	0	0	0	0	0	0	0
## 5150 5150	0	0	0	0	0	0	0	0	0	0	0
## 5151 5151	0	0	0	0	0	0	0	0	0	0	0
## 5152 5152	0	0	0	0	0	0	0	0	0	0	0
## 5153 5153	0	0	0	0	0	0	0	0	0	0	0
## 5154 5154	0	0	0	0	0	0	0	0	0	0	0
## 5155 5155	0	0	0	0	1	0	0	0	0	0	0
## 5156 5156	0	0	0	0	0	0	1	0	0	0	0
## 5157 5157	0	0	0	0	0	0	0	0	0	1	0
## 5158 5158	0	0	0	1	0	0	0	1	0	0	0
## 5159 5159	0	0	0	0	0	0	0	0	0	1	0
## 5160 5160	0	0	0	0	0	0	0	0	0	1	0

## 5161	5161	0	0	0	0	0	0	0	0	0	0
## 5162	5162	0	0	0	0	0	0	0	0	1	0
## 5163	5163	0	0	0	0	0	0	0	0	0	0
## 5164	5164	0	0	0	0	0	0	0	0	1	0
## 5165	5165	0	0	0	0	0	0	1	0	0	0
## 5166	5166	0	1	0	0	0	0	0	0	0	0
## 5167	5167	0	0	0	0	0	0	0	0	0	0
## 5168	5168	0	0	0	1	0	0	0	0	0	0
## 5169	5169	0	0	1	0	0	0	0	0	0	0
## 5170	5170	0	0	0	0	0	0	1	0	0	0
## 5171	5171	0	0	0	0	0	0	0	0	0	0
## 5172	5172	0	0	0	0	0	0	0	0	0	0
## 5173	5173	0	0	0	0	0	0	0	0	0	0
## 5174	5174	0	0	0	0	1	0	0	0	0	0
## 5175	5175	0	0	0	0	0	0	0	0	0	0
## 5176	5176	0	0	0	0	0	0	0	0	0	0
## 5177	5177	0	0	0	0	0	0	0	0	1	0
## 5178	5178	0	0	0	0	0	0	1	1	0	0
## 5179	5179	0	0	0	0	0	0	1	0	0	0
## 5180	5180	0	0	0	1	0	0	0	0	0	0
## 5181	5181	0	0	0	0	0	0	0	0	1	0
## 5182	5182	0	0	0	0	0	0	0	0	0	1
## 5183	5183	0	0	0	0	0	0	0	0	0	0
## 5184	5184	0	0	0	0	0	0	0	0	0	0
## 5185	5185	0	0	0	0	0	0	1	0	0	0
## 5186	5186	0	0	0	0	0	0	1	0	0	0
## 5187	5187	0	0	0	0	0	0	0	0	0	1
## 5188	5188	0	0	0	1	0	0	0	0	0	0
## 5189	5189	0	0	0	0	0	0	1	0	0	0
## 5190	5190	0	0	0	0	0	0	0	1	0	0
## 5191	5191	0	0	0	0	0	0	0	0	0	1
## 5192	5192	0	0	0	0	0	0	1	0	1	0
## 5193	5193	0	0	1	0	0	0	0	0	0	0
## 5194	5194	0	0	0	0	0	0	0	0	0	0
## 5195	5195	0	0	0	0	0	0	0	0	0	0
## 5196	5196	1	0	0	0	0	0	0	0	0	0
## 5197	5197	0	0	0	0	0	0	0	0	0	0
## 5198	5198	0	0	0	0	0	0	0	0	0	0
## 5199	5199	0	0	0	0	0	0	0	0	1	0
## 5200	5200	0	0	0	0	0	0	0	0	2	0
## 5201	5201	1	0	0	0	0	0	0	0	0	0
## 5202	5202	0	0	1	0	0	0	0	0	0	0
## 5203	5203	0	0	0	0	0	0	0	0	0	0
## 5204	5204	0	0	0	0	0	0	0	0	0	0
## 5205	5205	0	0	0	1	0	0	0	0	0	0
## 5206	5206	0	0	0	0	0	0	1	0	0	0
## 5207	5207	0	0	0	0	0	0	1	0	0	0
## 5208	5208	0	0	0	1	0	0	0	0	0	0
## 5209	5209	0	0	0	0	0	0	0	1	0	0
## 5210	5210	0	0	0	0	0	0	0	0	0	0
## 5211	5211	0	0	0	0	0	0	0	0	0	0
## 5212	5212	0	0	0	0	0	0	0	0	0	0
## 5213	5213	0	0	0	0	0	0	0	0	0	1
## 5214	5214	0	0	0	0	0	0	0	0	0	0

## 5215	5215	0	0	0	0	0	0	0	0	0	0	0
## 5216	5216	0	0	0	0	0	0	0	0	0	0	0
## 5217	5217	0	0	0	0	0	0	0	0	0	0	0
## 5218	5218	0	0	0	0	0	0	0	0	0	0	0
## 5219	5219	0	1	0	0	0	0	0	0	0	0	0
## 5220	5220	0	0	0	0	0	0	1	0	0	0	0
## 5221	5221	0	0	0	0	0	0	0	0	0	0	0
## 5222	5222	0	0	0	0	0	0	1	0	0	0	0
## 5223	5223	0	0	0	0	0	0	0	0	0	0	0
## 5224	5224	0	0	0	0	0	0	1	0	0	0	0
## 5225	5225	0	0	0	0	0	0	0	0	0	0	0
## 5226	5226	0	0	0	0	0	0	0	0	0	0	1
## 5227	5227	0	0	0	0	0	0	0	0	0	0	1
## 5228	5228	0	0	0	0	1	0	1	0	0	0	0
## 5229	5229	0	0	0	0	0	0	0	0	0	0	1
## 5230	5230	0	0	0	0	0	0	0	0	0	0	0
## 5231	5231	0	0	0	0	1	0	0	0	0	0	0
## 5232	5232	0	0	0	0	0	0	0	0	0	0	0
## 5233	5233	0	0	0	1	0	0	0	0	0	0	0
## 5234	5234	0	1	0	0	0	0	0	0	0	0	0
## 5235	5235	0	0	0	0	0	0	0	1	0	0	0
## 5236	5236	0	0	0	0	0	0	0	1	0	0	0
## 5237	5237	0	0	0	0	0	0	0	0	0	0	0
## 5238	5238	0	0	0	0	0	0	0	0	0	0	0
## 5239	5239	0	0	0	0	0	0	0	0	0	0	0
## 5240	5240	0	0	0	0	0	0	0	0	0	0	0
## 5241	5241	0	0	0	0	0	0	0	0	1	0	0
## 5242	5242	0	0	0	0	0	0	1	0	0	0	0
## 5243	5243	0	0	0	0	1	0	0	0	0	0	0
## 5244	5244	0	0	0	0	1	0	0	0	0	0	0
## 5245	5245	0	0	0	0	0	0	0	0	0	0	1
## 5246	5246	1	1	0	0	0	0	0	0	0	0	0
## 5247	5247	0	0	0	0	0	0	0	0	0	0	0
## 5248	5248	0	0	0	0	0	0	1	1	0	0	0
## 5249	5249	0	0	0	0	0	0	0	0	0	0	1
## 5250	5250	0	0	0	0	0	0	0	0	1	0	0
## 5251	5251	0	0	0	0	0	0	0	0	0	1	1
## 5252	5252	0	0	0	0	0	0	0	0	0	0	0
## 5253	5253	0	0	0	0	0	0	0	0	0	0	0
## 5254	5254	1	0	0	0	0	0	0	0	0	0	0
## 5255	5255	0	0	0	1	0	0	0	0	0	0	0
## 5256	5256	0	0	0	0	0	0	0	0	0	1	0
## 5257	5257	0	0	1	0	0	0	0	0	0	0	0
## 5258	5258	0	0	1	0	0	0	0	0	0	0	0
## 5259	5259	0	0	0	0	0	0	0	0	0	0	0
## 5260	5260	0	0	0	0	0	0	0	0	3	0	0
## 5261	5261	0	0	0	0	0	0	0	0	0	0	1
## 5262	5262	0	0	0	0	0	0	0	0	0	0	0
## 5263	5263	0	0	0	0	0	0	0	0	1	0	0
## 5264	5264	0	0	0	1	0	0	0	0	0	0	0
## 5265	5265	0	0	0	0	1	0	0	0	0	0	1
## 5266	5266	0	0	0	0	1	0	0	0	0	0	0
## 5267	5267	0	0	0	0	0	0	0	0	0	0	0
## 5268	5268	0	0	0	0	0	0	0	0	0	0	1

## 5269	5269	0	0	0	0	1	0	0	0	0	0	0
## 5270	5270	0	0	0	1	0	0	0	0	0	0	0
## 5271	5271	0	0	0	0	0	0	0	0	0	0	0
## 5272	5272	1	0	0	0	0	0	0	0	0	0	0
## 5273	5273	0	0	0	0	0	1	0	0	0	0	0
## 5274	5274	0	0	0	0	1	0	0	0	0	0	0
## 5275	5275	0	1	0	0	0	0	0	0	0	0	0
## 5276	5276	0	0	1	0	0	0	0	0	0	0	0
## 5277	5277	0	0	0	1	0	0	0	0	0	0	0
## 5278	5278	0	0	0	0	0	0	0	0	0	0	0
## 5279	5279	0	0	0	1	0	0	0	0	0	0	0
## 5280	5280	0	0	0	1	0	0	0	0	0	0	0
## 5281	5281	0	0	0	0	0	0	0	0	0	0	0
## 5282	5282	0	0	0	0	0	1	0	0	0	0	0
## 5283	5283	0	0	0	0	0	0	1	0	0	0	0
## 5284	5284	0	0	1	0	0	0	0	0	0	0	0
## 5285	5285	0	0	0	0	0	0	0	0	0	0	0
## 5286	5286	0	0	1	0	0	0	0	0	0	0	0
## 5287	5287	0	0	0	0	0	0	0	0	0	0	0
## 5288	5288	0	0	1	0	0	0	0	0	0	0	0
## 5289	5289	0	0	0	0	0	0	0	0	0	0	0
## 5290	5290	0	0	0	0	0	0	0	0	0	0	0
## 5291	5291	0	0	0	0	0	0	0	0	0	0	1
## 5292	5292	0	0	0	0	0	0	0	0	1	0	0
## 5293	5293	0	0	0	2	0	0	0	0	0	0	0
## 5294	5294	0	0	0	0	0	0	0	0	0	0	0
## 5295	5295	0	0	0	0	0	0	1	0	0	0	0
## 5296	5296	0	0	0	0	0	1	0	0	0	0	0
## 5297	5297	0	0	0	0	1	0	0	0	0	0	0
## 5298	5298	0	0	0	1	0	0	0	0	0	0	0
## 5299	5299	0	0	1	0	0	0	0	0	0	0	0
## 5300	5300	0	0	0	0	0	0	0	0	0	0	0
## 5301	5301	2	0	0	0	0	0	0	0	0	0	0
## 5302	5302	0	0	0	0	0	0	0	0	0	0	0
## 5303	5303	0	0	0	0	1	0	0	0	0	0	0
## 5304	5304	0	0	0	0	0	0	0	0	0	0	0
## 5305	5305	0	0	1	0	0	0	0	0	0	0	0
## 5306	5306	0	0	0	0	0	0	0	0	0	0	0
## 5307	5307	0	0	0	0	0	0	0	0	0	0	0
## 5308	5308	0	0	0	0	0	0	0	0	0	0	0
## 5309	5309	0	0	0	0	0	0	0	0	0	0	0
## 5310	5310	0	0	0	0	0	0	0	0	0	0	0
## 5311	5311	0	0	0	0	0	0	0	2	0	0	0
## 5312	5312	0	0	0	0	0	0	0	0	0	0	0
## 5313	5313	0	0	0	0	0	0	0	0	0	1	0
## 5314	5314	0	0	0	0	0	0	0	0	0	0	0
## 5315	5315	0	0	0	1	0	0	0	0	0	0	0
## 5316	5316	0	0	0	0	0	0	0	0	0	0	0
## 5317	5317	0	0	0	1	0	0	0	0	0	0	0
## 5318	5318	0	0	0	0	0	0	0	0	0	1	0
## 5319	5319	0	0	0	0	0	0	0	0	0	1	0
## 5320	5320	1	0	0	0	0	0	0	0	0	0	0
## 5321	5321	0	0	0	1	0	0	0	0	0	0	0
## 5322	5322	0	0	0	0	1	0	0	0	0	0	0

```

## 5323 5323 0 0 0 0 0 0 0 0 0 0 0 0
## 5324 5324 0 0 0 0 0 0 0 0 0 0 0 0
## 5325 5325 0 0 0 0 0 0 0 0 0 0 0 0
## 5326 5326 0 0 0 0 0 0 0 0 0 0 0 0
## 5327 5327 0 0 0 0 0 0 0 0 0 0 0 0
## 5328 5328 0 0 0 0 0 0 0 1 0 0 0 0
## 5329 5329 0 0 0 0 0 0 0 0 0 0 0 0
## 5330 5330 0 0 0 0 0 0 1 0 0 0 0 0
## 5331 5331 0 0 0 0 0 0 0 1 0 0 0 0
## 5332 5332 0 0 1 0 0 0 0 0 0 0 0 0
## 5333 5333 0 0 0 0 0 0 0 0 0 0 0 0
## 5334 5334 0 0 0 0 0 0 0 0 0 0 0 0
## 5335 5335 0 0 0 0 0 0 0 0 0 0 0 0
## 5336 5336 0 0 0 0 0 0 0 0 0 0 0 0
## 5337 5337 0 0 0 0 0 0 0 0 0 0 0 1
## 5338 5338 0 0 0 0 0 0 0 0 0 0 0 0
## 5339 5339 0 0 0 0 0 0 0 0 0 0 0 0
## 5340 5340 0 0 0 0 0 0 0 0 1 0 0 0
## 5341 5341 0 0 1 0 0 0 0 0 0 0 0 0
## 5342 5342 1 0 0 0 0 0 0 0 0 0 0 0
## 5343 5343 0 0 0 0 0 0 0 0 0 0 0 0
## 5344 5344 0 0 0 0 0 0 0 1 0 0 0 0
## 5345 5345 0 0 0 0 0 0 0 0 0 0 0 1
## 5346 5346 0 0 0 0 0 0 0 1 0 0 0 0
## 5347 5347 0 0 0 0 0 0 0 0 0 0 1 0
## 5348 5348 0 0 0 0 0 0 1 0 0 0 0 0
## 5349 5349 0 0 0 0 0 0 0 0 0 0 0 1
## 5350 5350 0 1 0 0 0 0 0 0 0 0 0 0
## 5351 5351 0 0 0 0 0 0 0 0 0 0 0 0
## 5352 5352 0 0 0 0 0 0 0 0 0 0 0 0
## 5353 5353 1 0 0 0 0 0 0 0 0 0 0 0
## 5354 5354 0 0 0 0 0 0 0 0 0 0 0 0
## 5355 5355 0 0 0 0 0 0 0 0 0 0 0 0
## 5356 5356 0 0 0 0 0 0 0 0 0 0 0 0
## 5357 5357 0 0 0 0 0 0 0 0 0 0 0 0
## 5358 5358 0 0 0 0 0 0 0 0 0 0 0 0
## 5359 5359 0 0 0 0 0 0 0 0 0 0 0 1
## 5360 5360 0 0 0 0 0 0 0 0 0 0 0 0
## 5361 5361 0 0 0 0 0 0 0 1 0 0 0 0
## 5362 5362 0 0 0 0 0 0 0 0 0 0 0 0
## 5363 5363 0 0 0 0 0 0 0 0 0 0 0 0
## 5364 5364 0 0 0 0 0 0 0 0 0 0 0 0
## 5365 5365 0 1 0 0 0 0 0 0 0 0 0 0
## 5366 5366 0 0 0 0 0 0 0 0 0 0 0 0
## 5367 5367 1 0 0 1 0 0 0 0 0 0 0 0
## 5368 5368 0 0 0 0 0 0 0 0 0 0 0 0
## 5369 5369 0 0 0 0 0 0 0 0 0 0 0 0
## 5370 5370 0 0 0 0 0 0 0 0 0 0 0 0
## 5371 5371 0 0 0 0 0 0 0 0 0 0 0 0
## 5372 5372 0 0 0 0 0 0 0 0 0 0 0 0
## 5373 5373 0 0 0 0 1 0 0 0 0 0 0 0
## 5374 5374 0 1 0 0 0 0 0 0 0 0 0 0
## 5375 5375 0 0 0 1 0 1 0 0 0 0 0 0
## 5376 5376 0 0 0 0 0 0 0 0 0 0 0 0

```

## 5377 5377	0	0	0	0	0	0	1	0	0	0	0
## 5378 5378	0	0	0	0	0	0	0	0	0	0	0
## 5379 5379	0	0	0	0	0	0	0	0	0	0	0
## 5380 5380	0	0	0	0	0	0	0	0	0	1	0
## 5381 5381	0	0	1	0	0	0	0	0	0	0	0
## 5382 5382	0	0	1	0	0	0	0	0	0	0	0
## 5383 5383	0	0	0	0	0	0	0	1	0	0	0
## 5384 5384	0	0	0	0	0	0	0	0	0	0	0
## 5385 5385	0	0	0	1	0	0	0	0	0	0	0
## 5386 5386	0	0	0	0	0	0	0	0	0	0	1
## 5387 5387	0	0	0	0	0	0	1	0	0	0	0
## 5388 5388	0	0	0	0	0	0	0	0	0	0	0
## 5389 5389	0	0	0	0	0	0	0	0	0	0	0
## 5390 5390	0	1	0	0	0	0	0	0	0	0	0
## 5391 5391	0	0	0	0	0	0	0	0	0	0	0
## 5392 5392	0	0	0	0	0	0	0	1	0	0	0
## 5393 5393	0	0	0	0	0	0	0	0	0	0	0
## 5394 5394	0	0	0	0	0	0	0	0	0	0	0
## 5395 5395	0	0	0	0	0	0	0	0	0	0	0
## 5396 5396	1	0	0	0	0	0	0	0	0	0	0
## 5397 5397	1	0	0	0	0	0	0	0	0	0	0
## 5398 5398	0	0	0	0	0	0	1	0	0	0	0
## 5399 5399	0	0	0	0	0	0	0	0	0	0	0
## 5400 5400	0	0	0	0	0	0	0	0	0	0	0
## 5401 5401	0	0	0	0	0	0	0	1	0	0	0
## 5402 5402	0	0	0	0	0	0	0	0	0	0	0
## 5403 5403	0	0	0	0	1	0	0	0	0	0	0
## 5404 5404	0	0	0	0	0	0	0	0	1	0	0
## 5405 5405	0	0	0	0	0	0	1	0	0	0	0
## 5406 5406	0	0	0	0	0	0	0	0	1	0	0
## 5407 5407	1	0	0	0	0	0	0	0	0	0	0
## 5408 5408	0	0	0	0	0	0	0	0	0	0	0
## 5409 5409	0	0	0	0	0	0	0	0	1	0	0
## 5410 5410	0	0	0	0	0	0	0	0	0	0	0
## 5411 5411	0	0	0	0	0	1	0	0	0	0	0
## 5412 5412	1	0	0	0	0	0	0	0	0	0	0
## 5413 5413	0	0	0	0	1	0	0	0	0	0	0
## 5414 5414	0	0	0	0	0	0	0	0	0	0	0
## 5415 5415	0	0	0	0	0	0	0	0	0	0	0
## 5416 5416	0	0	0	1	0	0	0	0	0	0	0
## 5417 5417	0	0	0	0	0	0	0	0	0	0	0
## 5418 5418	0	0	1	0	0	0	0	0	0	0	0
## 5419 5419	0	0	0	0	0	0	0	0	0	1	0
## 5420 5420	0	0	0	1	0	0	0	0	0	0	0
## 5421 5421	0	0	0	1	0	0	1	0	0	0	0
## 5422 5422	0	0	0	0	0	0	0	0	0	0	1
## 5423 5423	0	0	0	0	0	0	0	0	0	0	1
## 5424 5424	0	1	0	0	0	0	0	0	0	0	0
## 5425 5425	0	0	0	0	0	0	0	0	0	0	0
## 5426 5426	0	0	0	1	0	0	0	0	0	0	0
## 5427 5427	0	0	0	0	0	0	0	0	0	0	0
## 5428 5428	0	0	0	0	0	0	0	0	0	0	1
## 5429 5429	0	0	0	0	0	0	0	0	0	1	0
## 5430 5430	0	1	0	0	0	0	0	0	0	0	0

```

## 5431 5431 0 0 1 0 0 0 0 0 0 0 0 0
## 5432 5432 0 0 0 0 0 0 0 0 0 0 0 0
## 5433 5433 1 0 0 0 0 0 0 0 0 0 0 0
## 5434 5434 1 0 0 0 0 0 0 0 0 0 0 0
## 5435 5435 0 0 0 0 0 0 0 0 0 0 1 0
## 5436 5436 0 0 0 0 0 0 0 0 0 0 0 1
## 5437 5437 0 0 0 0 0 0 0 0 0 0 0 0
## 5438 5438 0 0 0 0 0 0 0 0 0 1 0 0
## 5439 5439 0 0 0 0 0 0 0 0 0 0 0 0
## 5440 5440 0 0 0 0 0 0 0 0 0 0 0 0
## 5441 5441 0 0 0 0 0 0 0 0 0 0 0 0
## 5442 5442 0 0 0 0 0 0 0 0 0 0 1 0
## 5443 5443 0 0 0 0 0 0 0 0 0 0 0 0
## 5444 5444 0 1 0 0 0 0 0 0 0 0 0 0
## 5445 5445 0 0 0 0 0 0 0 0 0 0 0 0
## 5446 5446 0 0 0 0 0 0 0 0 0 0 0 0
## 5447 5447 0 0 0 0 0 0 0 0 0 0 0 0
## 5448 5448 1 0 0 0 0 0 0 0 0 0 0 0
## 5449 5449 0 0 0 0 0 0 0 0 0 0 0 0
## 5450 5450 0 0 0 0 0 0 0 0 1 0 0 0
## 5451 5451 0 0 0 1 0 0 0 0 0 0 0 0
## 5452 5452 0 0 0 0 0 0 0 0 0 0 0 0
## 5453 5453 0 0 0 0 0 0 0 0 0 0 0 0
## 5454 5454 0 0 0 1 0 0 0 0 0 0 0 0
## 5455 5455 0 0 0 0 0 0 0 0 0 0 0 0
## 5456 5456 0 0 1 0 0 0 0 0 0 0 0 0
## 5457 5457 0 0 0 0 0 0 0 0 0 0 0 0
## 5458 5458 0 0 0 0 0 0 0 0 1 0 0 0
## 5459 5459 1 0 0 0 0 0 0 0 0 0 0 0
## 5460 5460 0 0 0 0 0 0 0 0 0 0 0 0
## 5461 5461 1 0 0 0 0 0 0 0 0 0 0 0
## 5462 5462 0 0 0 1 0 0 0 0 0 0 0 0
## 5463 5463 0 0 0 0 0 0 0 0 0 0 0 0
## 5464 5464 0 0 0 0 0 0 0 0 0 0 0 0
## 5465 5465 0 0 0 0 0 0 0 0 0 0 0 0
## 5466 5466 0 0 0 0 0 0 0 0 0 0 0 0
## 5467 5467 0 0 0 0 1 0 0 0 0 0 0 0
## 5468 5468 0 0 0 0 0 0 0 0 0 0 0 0
## 5469 5469 0 0 0 0 0 0 0 0 1 0 0 0
## 5470 5470 0 0 0 0 0 0 0 0 0 0 0 0
## 5471 5471 0 0 0 0 0 0 0 0 0 0 0 0
## 5472 5472 0 0 1 0 0 0 0 0 0 0 0 0
## 5473 5473 0 0 0 1 0 0 0 0 0 0 0 0
## 5474 5474 0 0 0 0 0 0 0 0 0 0 0 1
## 5475 5475 0 0 0 0 0 0 0 0 0 0 0 0
## 5476 5476 0 0 0 0 0 1 0 0 0 0 0 0
## 5477 5477 0 0 0 0 0 0 0 0 0 0 1 0
## 5478 5478 0 0 0 0 0 0 0 0 0 0 0 0
## 5479 5479 0 0 0 1 0 0 0 0 0 0 0 0
## 5480 5480 0 0 0 1 0 0 0 0 0 0 0 0
## 5481 5481 0 0 0 0 0 0 0 0 0 0 0 0
## 5482 5482 0 0 0 0 0 0 0 0 0 0 0 1
## 5483 5483 0 0 0 0 0 0 0 0 0 0 0 0
## 5484 5484 0 0 0 0 0 0 0 0 0 0 1 0

```

## 5485 5485	0	0	0	0	0	0	0	0	0	0	0	0
## 5486 5486	0	1	0	0	0	0	0	0	0	0	0	0
## 5487 5487	0	0	0	0	0	0	1	0	0	0	0	0
## 5488 5488	0	0	0	0	0	0	0	0	0	0	0	0
## 5489 5489	0	0	0	0	0	0	1	0	0	0	0	0
## 5490 5490	0	0	0	0	0	0	0	1	0	0	0	0
## 5491 5491	0	0	0	0	0	0	0	0	0	0	0	0
## 5492 5492	0	0	0	0	0	0	0	0	0	0	0	0
## 5493 5493	0	0	0	0	0	1	0	0	0	0	0	0
## 5494 5494	0	0	0	0	0	0	0	0	0	0	0	1
## 5495 5495	0	1	0	0	0	0	0	0	0	0	0	0
## 5496 5496	0	0	0	0	0	0	0	0	0	0	0	0
## 5497 5497	0	0	0	1	0	0	0	0	0	0	0	0
## 5498 5498	0	0	1	0	0	0	0	0	0	0	0	0
## 5499 5499	0	0	0	0	0	0	1	0	0	0	0	0
## 5500 5500	0	0	0	0	0	0	0	0	0	0	0	0
## 5501 5501	0	0	0	0	0	0	0	0	1	0	0	0
## 5502 5502	0	0	1	0	0	0	0	0	0	0	0	0
## 5503 5503	0	1	0	0	0	0	0	0	0	0	0	0
## 5504 5504	0	0	0	0	0	1	0	0	0	0	0	0
## 5505 5505	0	0	0	0	0	0	0	0	0	0	0	0
## 5506 5506	0	0	0	0	0	1	0	0	0	0	0	0
## 5507 5507	0	0	0	0	0	0	0	0	0	0	1	0
## 5508 5508	0	0	0	1	0	0	0	0	0	0	0	0
## 5509 5509	1	0	0	0	1	0	0	0	0	0	0	0
## 5510 5510	0	0	0	0	0	1	0	0	0	0	0	0
## 5511 5511	0	0	0	1	0	0	0	0	0	0	0	0
## 5512 5512	0	0	0	0	0	0	0	0	0	0	0	0
## 5513 5513	0	0	0	0	1	0	0	1	0	0	0	1
## 5514 5514	0	0	0	0	0	0	1	0	0	0	0	0
## 5515 5515	0	0	0	0	0	0	0	0	0	0	0	0
## 5516 5516	0	0	0	0	0	0	0	0	1	0	0	0
## 5517 5517	1	0	0	0	0	0	0	0	0	0	0	0
## 5518 5518	0	0	0	0	0	0	0	0	0	0	0	0
## 5519 5519	0	0	0	0	0	0	0	0	0	0	0	0
## 5520 5520	0	0	0	0	0	0	0	1	0	0	0	0
## 5521 5521	0	1	0	0	0	0	0	0	0	0	0	0
## 5522 5522	0	0	0	0	0	0	0	0	0	0	0	1
## 5523 5523	0	0	0	0	0	0	0	0	1	0	0	0
## 5524 5524	0	0	0	0	0	0	0	0	0	1	0	0
## 5525 5525	0	0	0	0	0	0	0	0	0	0	0	0
## 5526 5526	0	0	0	0	0	0	0	0	0	1	0	0
## 5527 5527	0	0	0	0	0	0	0	0	0	0	0	0
## 5528 5528	0	0	0	0	0	0	0	0	0	0	0	0
## 5529 5529	0	0	1	0	0	0	0	0	0	0	0	0
## 5530 5530	0	1	0	0	0	0	0	0	0	0	0	0
## 5531 5531	0	1	0	0	0	0	0	0	0	0	0	0
## 5532 5532	0	0	0	0	0	0	0	0	0	0	1	0
## 5533 5533	1	0	0	0	0	0	1	0	0	0	0	0
## 5534 5534	0	0	0	0	0	0	0	0	0	0	0	0
## 5535 5535	0	0	0	0	0	0	0	0	0	0	0	1
## 5536 5536	0	0	0	0	0	0	0	0	0	0	0	0
## 5537 5537	0	0	0	0	0	0	0	0	0	0	1	0
## 5538 5538	0	0	0	0	1	0	0	0	0	0	0	0

## 5539 5539	0	0	0	0	0	0	0	0	0	0	0
## 5540 5540	0	0	0	0	0	0	0	0	0	0	0
## 5541 5541	0	0	0	0	0	0	0	0	0	0	0
## 5542 5542	0	0	0	0	0	0	0	0	0	0	0
## 5543 5543	0	0	0	0	1	0	0	0	0	0	0
## 5544 5544	0	0	0	1	0	0	0	0	0	0	0
## 5545 5545	0	0	0	0	0	0	0	0	0	0	1
## 5546 5546	0	0	0	0	0	0	0	1	0	0	0
## 5547 5547	0	0	0	0	0	0	1	0	0	0	0
## 5548 5548	0	0	1	0	0	0	0	0	0	0	0
## 5549 5549	1	0	0	0	0	0	0	0	0	0	0
## 5550 5550	0	0	0	1	0	0	0	0	0	0	0
## 5551 5551	0	0	0	0	0	0	0	0	0	0	1
## 5552 5552	0	0	0	0	0	0	0	0	0	1	0
## 5553 5553	0	0	0	0	0	0	1	0	0	0	0
## 5554 5554	0	0	0	0	0	0	0	0	0	0	0
## 5555 5555	0	1	0	0	0	0	0	0	0	0	0
## 5556 5556	0	0	0	1	0	0	0	0	0	0	0
## 5557 5557	0	0	0	0	1	0	0	0	0	0	0
## 5558 5558	0	0	0	0	0	0	1	0	0	0	0
## 5559 5559	0	0	1	0	0	0	0	0	0	0	0
## 5560 5560	1	0	0	0	0	0	0	0	0	0	0
## 5561 5561	0	1	0	0	0	0	0	0	0	0	0
## 5562 5562	0	0	0	0	0	0	0	2	0	0	0
## 5563 5563	0	0	0	0	0	0	0	0	0	0	1
## 5564 5564	0	0	0	1	0	0	0	0	0	0	0
## 5565 5565	0	0	0	1	0	0	0	0	0	0	0
## 5566 5566	0	0	0	0	1	0	0	0	0	0	0
## 5567 5567	0	1	0	0	0	0	0	0	0	0	0
## 5568 5568	0	0	0	0	0	0	0	0	0	0	0
## 5569 5569	0	0	0	0	0	2	0	0	0	0	0
## 5570 5570	0	0	0	0	0	0	0	0	0	0	0
## 5571 5571	0	0	0	0	0	0	0	1	0	0	0
## 5572 5572	0	0	0	0	0	0	0	0	0	0	0
## 5573 5573	0	0	0	0	0	0	0	0	1	0	0
## 5574 5574	0	0	0	0	0	0	0	0	0	0	0
## 5575 5575	0	0	0	0	0	0	0	0	0	0	1
## 5576 5576	0	0	0	0	0	0	0	0	0	1	0
## 5577 5577	0	0	0	0	0	0	0	0	0	0	0
## 5578 5578	0	0	0	0	0	0	0	0	0	0	0
## 5579 5579	0	0	0	0	0	0	1	0	0	0	0
## 5580 5580	0	0	0	0	0	0	1	0	0	0	0
## 5581 5581	0	0	0	0	0	0	0	0	0	1	0
## 5582 5582	0	0	0	0	0	0	0	0	0	0	0
## 5583 5583	0	0	0	0	0	0	0	0	0	0	1
## 5584 5584	0	0	0	0	0	0	0	0	0	0	0
## 5585 5585	0	0	0	0	0	0	0	0	0	0	0
## 5586 5586	0	0	0	0	0	0	0	0	0	0	0
## 5587 5587	0	0	0	0	0	0	0	0	0	0	0
## 5588 5588	0	0	0	0	0	1	0	0	0	0	0
## 5589 5589	0	0	0	1	0	0	0	0	0	0	0
## 5590 5590	0	0	0	0	0	0	0	0	0	1	0
## 5591 5591	0	0	0	0	0	0	0	0	0	0	0
## 5592 5592	0	0	0	1	0	0	0	0	0	0	0

## 5593 5593	0	0	0	0	0	1	0	0	0	0	0
## 5594 5594	0	0	0	0	1	0	0	0	0	0	0
## 5595 5595	0	0	0	1	0	0	0	0	0	0	0
## 5596 5596	0	0	0	0	0	0	0	0	0	0	0
## 5597 5597	0	0	0	0	0	0	0	0	0	0	0
## 5598 5598	0	1	0	0	0	0	0	0	0	0	0
## 5599 5599	0	1	0	0	0	0	0	0	0	0	0
## 5600 5600	0	0	0	0	0	0	0	0	0	0	0
## 5601 5601	0	0	0	0	1	0	0	0	0	0	0
## 5602 5602	0	0	0	0	0	0	0	0	0	0	0
## 5603 5603	0	0	0	1	0	0	0	0	0	0	0
## 5604 5604	0	0	0	0	0	1	0	0	0	0	0
## 5605 5605	0	0	0	0	0	0	0	0	0	0	0
## 5606 5606	1	0	0	0	0	0	0	0	0	0	0
## 5607 5607	0	0	0	0	0	0	1	0	0	0	0
## 5608 5608	0	0	0	1	0	0	0	0	0	0	0
## 5609 5609	0	0	1	1	0	0	0	0	0	0	0
## 5610 5610	0	0	0	0	1	0	0	0	0	0	0
## 5611 5611	0	0	0	0	0	0	0	0	0	0	0
## 5612 5612	0	0	0	0	0	0	0	0	1	0	0
## 5613 5613	0	0	0	0	0	0	0	0	0	0	0
## 5614 5614	0	0	0	0	0	0	0	0	0	0	0
## 5615 5615	0	0	0	0	0	0	0	0	0	0	0
## 5616 5616	1	0	0	0	0	0	0	0	0	0	0
## 5617 5617	0	0	0	0	1	0	1	0	0	0	0
## 5618 5618	0	0	0	0	0	0	0	0	0	0	0
## 5619 5619	0	0	0	0	0	0	0	0	0	0	0
## 5620 5620	0	0	0	1	0	0	0	0	0	0	0
## 5621 5621	0	0	0	0	0	0	0	0	0	0	0
## 5622 5622	0	0	0	1	0	0	0	0	0	0	0
## 5623 5623	0	0	1	1	0	0	0	0	0	0	0
## 5624 5624	0	0	0	0	0	0	0	0	0	0	0
## 5625 5625	0	0	0	0	1	0	0	0	0	0	0
## 5626 5626	0	0	0	0	0	0	0	0	0	0	0
## 5627 5627	0	0	0	0	1	0	0	0	0	0	0
## 5628 5628	0	0	0	0	0	0	0	0	0	0	0
## 5629 5629	0	0	1	0	0	0	0	0	0	0	0
## 5630 5630	0	0	0	0	0	0	0	0	0	0	0
## 5631 5631	0	0	0	1	0	0	0	0	0	0	0
## 5632 5632	0	1	0	0	0	0	0	0	0	0	0
## 5633 5633	0	0	0	0	0	0	0	0	0	0	0
## 5634 5634	0	0	0	0	0	0	0	0	0	0	0
## 5635 5635	0	0	0	0	0	0	0	0	0	0	0
## 5636 5636	0	0	0	1	0	0	0	0	0	0	0
## 5637 5637	0	0	0	0	0	0	1	0	0	0	0
## 5638 5638	0	0	0	0	0	0	0	0	0	0	0
## 5639 5639	0	0	0	0	0	0	0	0	0	0	1
## 5640 5640	0	0	0	1	0	0	0	0	0	0	0
## 5641 5641	0	0	1	0	0	0	0	0	0	0	0
## 5642 5642	0	0	0	1	0	0	0	0	0	0	0
## 5643 5643	0	0	0	0	0	0	0	0	0	0	0
## 5644 5644	0	0	0	0	1	0	0	0	0	0	0
## 5645 5645	0	0	0	0	0	0	1	0	0	0	0
## 5646 5646	0	0	0	0	0	0	0	0	0	0	1

## 5647 5647	0	0	0	0	0	0	0	0	0	0	0
## 5648 5648	0	0	0	0	0	0	0	0	0	0	0
## 5649 5649	0	0	0	0	0	0	0	0	0	0	0
## 5650 5650	0	0	0	0	0	0	0	0	0	0	0
## 5651 5651	0	0	0	0	0	0	0	0	0	0	0
## 5652 5652	0	0	0	0	0	0	0	1	0	0	0
## 5653 5653	0	0	0	0	0	1	0	0	0	0	0
## 5654 5654	0	0	0	0	0	0	0	0	0	0	0
## 5655 5655	0	0	0	0	0	0	0	0	0	0	0
## 5656 5656	0	0	0	0	0	0	1	0	0	0	0
## 5657 5657	1	0	0	0	0	1	0	0	0	0	0
## 5658 5658	0	0	0	0	0	0	0	0	0	0	0
## 5659 5659	0	0	0	0	0	0	1	0	0	0	0
## 5660 5660	0	0	0	0	0	0	0	0	0	0	0
## 5661 5661	0	0	0	0	0	0	0	0	0	0	0
## 5662 5662	0	0	0	0	0	0	0	0	0	0	0
## 5663 5663	1	0	0	0	0	0	0	0	0	0	0
## 5664 5664	1	0	0	0	0	0	0	0	0	0	0
## 5665 5665	0	0	0	0	0	0	0	0	0	0	0
## 5666 5666	0	0	0	0	0	0	0	0	0	0	0
## 5667 5667	0	1	0	0	0	0	0	0	0	0	0
## 5668 5668	0	0	0	0	0	0	0	0	0	0	1
## 5669 5669	0	0	0	0	0	0	0	0	0	0	0
## 5670 5670	0	0	0	0	0	0	1	0	0	0	0
## 5671 5671	0	0	0	0	0	0	0	0	0	0	0
## 5672 5672	0	0	0	0	0	0	0	0	0	0	0
## 5673 5673	0	0	0	0	0	0	1	0	0	0	0
## 5674 5674	0	0	0	0	0	0	0	0	0	0	0
## 5675 5675	0	0	0	0	0	0	0	0	0	0	0
## 5676 5676	0	0	1	0	0	0	0	0	0	0	0
## 5677 5677	0	1	0	0	0	0	0	0	0	0	0
## 5678 5678	0	0	0	0	0	0	0	0	0	0	0
## 5679 5679	0	0	0	0	0	0	0	0	0	0	0
## 5680 5680	0	0	0	0	0	2	0	0	0	0	0
## 5681 5681	0	0	0	0	0	0	0	0	0	0	0
## 5682 5682	0	0	0	0	0	0	0	0	0	0	0
## 5683 5683	0	0	0	0	0	0	0	0	1	0	0
## 5684 5684	0	0	0	0	0	0	0	0	0	0	0
## 5685 5685	0	0	0	0	0	0	0	0	0	0	0
## 5686 5686	0	0	0	0	0	0	1	0	0	0	0
## 5687 5687	0	0	0	0	0	0	0	0	0	0	0
## 5688 5688	0	0	0	0	0	0	0	0	0	0	0
## 5689 5689	0	0	0	1	0	0	0	0	0	0	0
## 5690 5690	0	0	0	0	0	0	0	0	0	0	0
## 5691 5691	0	0	0	0	0	0	0	0	0	1	0
## 5692 5692	0	0	1	0	0	0	0	0	0	0	0
## 5693 5693	0	0	1	0	0	0	0	0	0	0	0
## 5694 5694	0	0	0	0	0	0	0	1	0	0	0
## 5695 5695	0	0	1	0	0	0	0	0	0	0	0
## 5696 5696	0	0	0	0	0	0	0	0	0	1	0
## 5697 5697	1	0	0	0	0	0	0	0	0	0	0
## 5698 5698	0	0	0	0	0	0	0	0	0	0	0
## 5699 5699	0	0	0	0	0	0	0	0	0	0	0
## 5700 5700	0	0	0	0	0	0	0	0	0	0	0

## 5701	5701	0	0	0	0	1	0	0	0	0	0	0
## 5702	5702	0	0	0	0	0	0	0	0	0	1	0
## 5703	5703	0	0	0	0	0	0	1	0	0	0	0
## 5704	5704	0	0	0	0	0	0	0	0	0	0	0
## 5705	5705	0	0	0	0	0	0	0	0	0	0	0
## 5706	5706	0	0	0	0	0	0	0	0	0	0	0
## 5707	5707	0	0	1	0	0	0	0	0	0	0	0
## 5708	5708	0	0	0	0	0	0	0	0	0	0	0
## 5709	5709	0	0	0	0	0	0	1	0	0	0	0
## 5710	5710	0	0	0	0	0	0	0	0	0	0	0
## 5711	5711	0	0	0	0	0	0	0	0	0	0	0
## 5712	5712	0	0	0	0	0	0	1	0	0	0	0
## 5713	5713	0	0	0	0	0	0	0	0	0	0	0
## 5714	5714	0	0	0	0	0	0	0	0	0	0	0
## 5715	5715	0	0	0	0	0	0	2	0	0	0	0
## 5716	5716	0	0	0	0	0	0	1	0	0	0	0
## 5717	5717	0	0	0	0	1	0	0	0	0	0	0
## 5718	5718	0	0	0	0	1	0	0	0	0	0	0
## 5719	5719	0	0	0	0	0	0	0	0	0	0	0
## 5720	5720	0	0	0	0	0	1	0	0	0	0	0
## 5721	5721	0	0	0	0	0	0	0	0	0	0	0
## 5722	5722	0	0	0	0	0	0	1	0	0	0	0
## 5723	5723	0	1	0	0	0	0	0	0	0	0	0
## 5724	5724	0	0	0	0	0	0	1	0	0	0	0
## 5725	5725	0	0	0	0	0	0	0	1	0	0	0
## 5726	5726	0	0	0	0	0	0	0	0	0	0	0
## 5727	5727	0	0	0	0	0	0	0	0	0	0	0
## 5728	5728	0	1	0	0	0	0	0	0	0	0	0
## 5729	5729	0	0	0	0	0	0	1	0	0	0	0
## 5730	5730	0	0	0	0	1	0	0	0	0	1	0
## 5731	5731	0	0	0	0	0	0	0	0	0	0	0
## 5732	5732	0	0	0	0	0	0	0	0	0	0	0
## 5733	5733	0	0	0	0	0	0	1	0	0	1	0
## 5734	5734	0	0	0	0	0	0	0	0	0	0	0
## 5735	5735	0	0	1	0	0	0	1	0	0	0	0
## 5736	5736	0	0	0	0	0	0	0	0	0	0	0
## 5737	5737	0	0	0	0	0	0	0	1	0	0	0
## 5738	5738	0	0	0	0	0	0	0	0	0	0	0
## 5739	5739	0	0	0	0	0	0	0	0	0	0	0
## 5740	5740	0	0	0	0	0	0	0	0	0	0	0
## 5741	5741	0	0	0	0	1	0	0	0	0	0	0
## 5742	5742	1	0	0	0	0	0	0	0	0	0	0
## 5743	5743	0	0	0	0	0	0	1	0	0	0	0
## 5744	5744	0	0	0	0	0	0	0	0	0	0	0
## 5745	5745	0	0	0	1	0	0	0	0	0	0	0
## 5746	5746	0	0	0	0	0	0	0	0	0	0	0
## 5747	5747	0	0	0	0	1	0	0	0	0	0	0
## 5748	5748	0	0	0	0	0	1	0	0	0	0	0
## 5749	5749	0	0	0	0	0	0	0	0	0	0	0
## 5750	5750	0	0	0	0	0	0	0	0	0	0	1
## 5751	5751	0	0	0	0	0	0	1	0	0	0	0
## 5752	5752	0	0	0	0	0	0	0	0	0	0	1
## 5753	5753	0	0	0	0	0	0	0	0	0	0	0
## 5754	5754	0	0	0	0	1	0	1	0	0	0	0

```

## 5755 5755 0 0 0 0 0 0 1 0 0 0 0 0
## 5756 5756 0 0 0 0 0 0 0 0 0 0 1 0
## 5757 5757 0 0 1 0 0 0 0 0 0 0 0 0
## 5758 5758 0 0 0 1 0 0 0 0 0 0 0 0
## 5759 5759 0 0 0 0 1 0 0 0 0 0 0 0
## 5760 5760 1 0 0 0 0 0 0 0 0 0 0 0
## 5761 5761 0 0 1 0 0 0 0 0 0 0 0 0
## 5762 5762 0 0 0 0 0 0 0 0 0 0 1 0
## 5763 5763 0 1 0 0 0 0 0 0 0 0 0 0
## 5764 5764 0 0 0 0 0 0 0 0 0 0 0 0
## 5765 5765 0 0 0 0 0 0 0 0 0 0 0 0
## 5766 5766 0 0 0 0 0 0 0 0 0 0 0 0
## 5767 5767 0 0 0 0 0 0 0 0 0 0 0 0
## 5768 5768 0 0 0 0 0 0 0 0 0 0 0 0
## 5769 5769 0 0 0 1 0 0 0 0 0 0 0 0
## 5770 5770 0 0 0 0 0 0 0 0 0 0 0 0
## 5771 5771 0 0 0 0 0 0 0 0 0 0 0 0
## 5772 5772 0 0 0 0 0 0 0 2 0 0 0 0
## 5773 5773 0 0 0 0 0 0 0 0 0 0 0 0
## 5774 5774 0 0 0 0 0 0 0 0 0 0 0 0
## 5775 5775 0 0 0 0 0 0 0 1 0 0 0 0
## 5776 5776 0 0 0 0 0 0 0 0 1 0 0 0
## 5777 5777 0 1 0 0 0 0 0 0 0 0 0 0
## 5778 5778 0 1 0 0 0 0 0 0 0 0 0 0
## 5779 5779 0 0 0 0 0 0 0 0 0 0 0 0
## 5780 5780 0 0 0 1 0 0 0 0 0 0 0 0
## 5781 5781 0 0 0 0 0 0 0 1 2 0 0 0
## 5782 5782 0 0 0 0 0 0 0 0 0 0 0 0
## 5783 5783 0 0 0 0 0 0 0 0 0 0 0 0
## 5784 5784 0 0 0 0 0 0 0 0 1 0 0 0
## 5785 5785 0 0 1 0 0 0 0 0 0 0 0 0
## 5786 5786 0 0 0 0 0 0 0 0 0 0 0 0
## 5787 5787 0 0 0 0 0 0 0 0 0 0 0 0
## 5788 5788 1 0 0 0 0 0 0 1 0 0 0 0
## 5789 5789 0 0 0 0 0 0 0 0 0 0 0 0
## 5790 5790 0 0 0 0 0 0 0 1 0 0 0 0
## 5791 5791 0 0 0 1 0 0 0 0 0 0 0 0
## 5792 5792 0 0 0 0 0 0 0 0 0 0 0 0
## 5793 5793 0 0 0 0 0 0 0 0 0 0 0 1
## 5794 5794 0 0 0 1 0 0 0 0 0 0 0 0
## 5795 5795 0 0 0 0 0 1 0 0 0 0 0 0
## 5796 5796 0 0 0 1 0 0 0 0 0 0 0 0
## 5797 5797 0 0 0 0 0 0 0 1 0 0 0 0
## 5798 5798 0 0 0 0 0 1 0 0 0 0 0 0
## 5799 5799 0 0 0 0 0 0 0 1 0 0 0 0
## 5800 5800 0 0 0 0 0 0 0 0 0 0 1 0
## 5801 5801 0 0 0 1 0 0 0 0 0 0 0 0
## 5802 5802 0 0 0 0 0 1 0 0 0 0 0 0
## 5803 5803 0 0 0 0 0 0 0 0 0 0 0 0
## 5804 5804 0 0 0 0 0 0 0 0 1 0 0 0
## 5805 5805 0 0 0 1 0 0 0 0 0 0 0 0
## 5806 5806 0 0 0 0 0 0 0 0 0 0 0 0
## 5807 5807 0 0 0 0 0 0 0 1 0 0 0 0
## 5808 5808 0 0 0 0 0 0 0 0 0 0 0 0

```

```

## 5809 5809 1 2 0 0 0 0 0 0 0 0 0 0
## 5810 5810 0 0 1 0 0 0 0 0 0 0 0 0
## 5811 5811 0 0 0 0 0 0 0 0 0 1 0 0
## 5812 5812 0 0 0 0 0 0 0 0 0 0 0 0
## 5813 5813 0 0 0 0 0 0 0 0 0 0 0 0
## 5814 5814 0 0 0 0 0 0 0 1 0 0 0 0
## 5815 5815 0 0 0 0 0 0 0 0 0 0 0 0
## 5816 5816 0 0 0 0 0 0 0 0 0 0 0 0
## 5817 5817 0 0 0 0 0 0 0 0 0 0 0 0
## 5818 5818 0 0 0 1 0 0 0 0 1 0 0 0
## 5819 5819 1 0 0 0 0 0 0 0 0 0 0 0
## 5820 5820 0 0 0 0 0 0 0 0 0 0 0 0
## 5821 5821 0 0 0 0 0 0 0 1 0 0 0 0
## 5822 5822 0 0 0 0 0 0 0 1 0 0 0 0
## 5823 5823 0 0 0 2 0 1 0 0 0 0 0 0
## 5824 5824 0 0 0 0 0 0 0 0 0 0 0 0
## 5825 5825 0 0 0 0 0 0 0 0 1 0 0 0
## 5826 5826 0 0 0 0 0 0 0 0 0 0 0 0
## 5827 5827 0 1 0 0 0 0 0 0 0 0 0 0
## 5828 5828 0 0 0 1 0 0 0 0 0 0 0 0
## 5829 5829 0 0 0 0 0 0 0 1 0 0 0 0
## 5830 5830 0 1 0 0 0 0 0 0 0 0 0 0
## 5831 5831 0 0 0 0 0 0 0 0 0 0 0 0
## 5832 5832 0 0 0 0 0 0 0 0 0 0 0 0
## 5833 5833 0 0 0 0 0 0 0 0 0 0 0 0
## 5834 5834 0 0 0 0 0 0 0 0 1 0 1 0
## 5835 5835 0 0 0 0 0 0 0 0 0 0 0 0
## 5836 5836 0 0 0 2 0 0 0 0 0 0 0 0
## 5837 5837 0 0 0 0 0 0 0 0 0 0 0 0
## 5838 5838 0 0 0 0 0 0 0 0 1 0 0 0
## 5839 5839 0 0 0 0 0 0 0 0 0 0 0 0
## 5840 5840 0 0 0 0 0 1 0 0 0 0 0 0
## 5841 5841 0 0 0 0 1 0 0 0 0 0 0 0
## 5842 5842 0 0 0 0 0 0 0 1 0 0 0 0
## 5843 5843 0 0 0 0 0 0 1 0 0 0 0 0
## 5844 5844 0 0 0 0 0 0 0 0 0 0 0 0
## 5845 5845 0 0 0 0 1 0 0 0 0 0 0 0
## 5846 5846 0 0 0 0 0 0 0 0 0 0 0 0
## 5847 5847 0 0 0 0 0 1 0 0 0 0 0 0
## 5848 5848 0 0 0 0 0 0 0 0 0 0 0 0
## 5849 5849 1 0 0 0 0 0 0 0 0 0 0 0
## 5850 5850 0 0 0 0 0 0 0 1 0 0 0 0
## 5851 5851 0 0 0 0 0 0 0 0 0 0 0 0
## 5852 5852 0 0 0 0 0 0 0 0 0 0 0 0
## 5853 5853 0 0 0 0 0 0 0 0 0 0 0 0
## 5854 5854 0 0 0 0 0 0 0 0 0 0 0 0
## 5855 5855 0 0 0 0 0 0 0 0 0 0 0 0
## 5856 5856 0 0 0 0 0 0 0 0 0 0 0 0
## 5857 5857 0 0 0 0 0 0 0 0 1 0 0 0
## 5858 5858 0 0 0 0 0 0 0 0 1 0 0 0
## 5859 5859 0 0 0 0 0 0 1 1 0 0 0 0
## 5860 5860 0 0 0 0 0 0 0 0 0 0 1 0
## 5861 5861 0 0 0 0 0 0 1 0 0 0 0 0
## 5862 5862 0 0 0 0 0 0 0 0 0 0 0 0

```

```

## 5863 5863 0 0 0 1 0 0 0 0 0 0 0 0
## 5864 5864 0 0 0 0 0 0 0 0 0 0 0 0
## 5865 5865 0 0 0 0 0 0 0 0 0 0 0 0
## 5866 5866 0 0 0 0 0 0 0 0 0 0 0 1
## 5867 5867 0 0 0 1 0 0 0 0 0 0 0 0
## 5868 5868 0 0 0 0 0 0 0 0 0 1 0 0
## 5869 5869 0 0 0 0 0 0 0 0 0 0 0 0
## 5870 5870 0 0 0 0 0 0 0 0 0 0 0 0
## 5871 5871 0 0 0 0 1 0 0 0 0 0 1 0
## 5872 5872 0 0 0 0 0 0 0 0 0 0 0 0
## 5873 5873 0 0 0 0 0 0 0 0 0 0 0 0
## 5874 5874 0 0 0 0 0 0 0 0 1 0 0 0
## 5875 5875 0 0 0 0 0 0 0 0 0 1 0 0
## 5876 5876 0 0 0 0 0 0 0 0 0 0 0 0
## 5877 5877 0 0 0 0 0 0 0 0 0 0 1 0
## 5878 5878 0 0 0 0 0 0 0 1 0 0 0 0
## 5879 5879 0 0 0 0 0 0 0 0 0 0 0 0
## 5880 5880 0 1 0 0 0 0 0 0 0 0 0 0
## 5881 5881 0 0 0 0 1 0 0 0 0 0 0 0
## 5882 5882 0 0 0 0 0 0 0 0 1 0 0 0
## 5883 5883 0 0 0 0 0 0 0 0 0 0 0 0
## 5884 5884 0 0 0 0 0 0 0 0 0 0 1 0
## 5885 5885 0 0 0 0 0 0 0 0 0 0 0 0
## 5886 5886 0 0 0 0 0 0 0 1 0 0 0 0
## 5887 5887 0 0 0 0 0 0 0 0 0 0 0 0
## 5888 5888 0 0 0 0 0 0 0 0 0 0 0 0
## 5889 5889 0 1 0 0 0 0 0 0 0 0 0 0
## 5890 5890 1 0 0 0 0 0 0 0 0 0 0 0
## 5891 5891 0 0 0 0 1 0 0 0 0 0 0 0
## 5892 5892 0 0 0 0 0 0 0 0 0 0 0 0
## 5893 5893 0 0 0 0 0 1 0 0 0 0 0 0
## 5894 5894 0 1 0 0 0 0 0 0 0 0 0 0
## 5895 5895 0 1 0 0 0 0 0 0 0 0 0 0
## 5896 5896 0 0 0 0 0 0 0 0 0 0 0 0
## 5897 5897 0 0 2 0 0 0 0 0 0 0 0 0
## 5898 5898 0 0 0 0 1 0 0 0 0 0 0 0
## 5899 5899 0 1 0 0 0 0 0 0 0 0 0 0
## 5900 5900 0 0 0 0 0 0 0 0 0 0 0 0
## 5901 5901 0 0 0 0 0 0 0 0 0 0 1 0
## 5902 5902 0 1 0 0 0 0 0 0 0 0 0 0
## 5903 5903 0 0 0 0 3 0 0 0 0 0 0 0
## 5904 5904 0 0 0 0 0 0 0 0 0 0 0 0
## 5905 5905 0 0 0 0 1 0 0 0 0 0 0 0
## 5906 5906 0 0 0 1 0 0 0 0 0 0 0 0
## 5907 5907 0 0 0 0 0 0 0 0 0 0 0 0
## 5908 5908 1 0 0 0 0 0 0 0 0 0 0 0
## 5909 5909 0 0 0 0 0 1 0 0 0 0 0 0
## 5910 5910 0 0 0 0 1 0 0 0 0 0 0 0
## 5911 5911 0 0 0 0 0 0 0 0 0 0 0 0
## 5912 5912 1 0 0 0 0 0 0 0 0 0 0 0
## 5913 5913 0 0 1 0 0 0 0 0 0 0 0 0
## 5914 5914 0 0 1 0 0 0 0 0 0 0 0 0
## 5915 5915 0 0 0 0 0 0 0 0 0 0 0 0
## 5916 5916 0 1 0 0 1 0 0 0 0 0 0 0

```

```

## 5917 5917 0 0 0 0 0 0 0 0 0 0 0 0
## 5918 5918 0 0 0 0 1 0 0 0 0 0 0 0
## 5919 5919 0 0 0 0 0 0 0 0 0 0 0 0
## 5920 5920 0 0 0 1 0 0 0 1 0 0 0 1
## 5921 5921 0 0 0 0 0 0 0 1 0 0 0 0
## 5922 5922 0 0 0 0 0 0 0 1 0 0 0 0
## 5923 5923 0 0 0 0 0 0 0 1 1 0 0 0
## 5924 5924 0 0 0 0 0 0 0 1 0 0 0 0
## 5925 5925 0 0 0 0 0 0 0 0 0 0 0 1
## 5926 5926 0 0 0 0 0 0 0 2 0 0 0 0
## 5927 5927 0 0 0 0 0 0 0 0 0 0 0 1
## 5928 5928 0 1 0 0 0 0 0 0 0 0 0 0
## 5929 5929 0 0 0 0 0 0 0 1 0 0 0 0
## 5930 5930 0 0 0 1 0 0 0 0 0 0 0 0
## 5931 5931 1 0 0 0 0 0 0 0 0 0 0 0
## 5932 5932 0 0 0 0 0 0 0 0 0 0 0 0
## 5933 5933 0 0 0 0 1 0 0 0 0 0 0 0
## 5934 5934 0 0 0 0 0 0 0 0 0 0 1 0
## 5935 5935 0 0 0 0 0 0 0 0 0 0 0 0
## 5936 5936 0 0 1 0 0 0 0 0 0 0 0 0
## 5937 5937 0 0 0 0 0 0 0 0 0 0 0 0
## 5938 5938 0 0 1 0 0 0 0 0 0 0 0 0
## 5939 5939 0 1 0 0 0 0 0 0 0 0 0 0
## 5940 5940 0 0 0 0 0 1 0 0 0 0 0 0
## 5941 5941 0 0 0 0 0 0 0 0 1 0 0 0
## 5942 5942 0 0 1 0 0 0 0 0 0 0 0 0
## 5943 5943 0 0 1 0 0 0 0 0 0 0 0 0
## 5944 5944 0 0 0 0 0 0 0 0 0 0 0 0
## 5945 5945 0 0 0 0 0 0 0 0 0 0 0 0
## 5946 5946 0 1 0 0 0 1 0 0 0 0 0 0
## 5947 5947 1 0 0 0 0 0 0 0 0 0 0 0
## 5948 5948 0 0 0 1 0 0 0 0 0 0 0 0
## 5949 5949 0 0 0 0 0 0 0 0 0 0 0 0
## 5950 5950 0 0 0 1 0 0 0 0 0 0 0 0
## 5951 5951 0 0 2 0 0 0 0 0 0 0 0 0
## 5952 5952 0 0 0 0 0 0 0 1 0 0 0 0
## 5953 5953 0 0 0 0 1 0 0 0 0 0 0 0
## 5954 5954 0 0 0 1 0 0 0 0 0 0 0 0
## 5955 5955 0 0 0 0 0 0 1 0 0 0 0 0
## 5956 5956 0 0 0 0 1 0 0 0 0 0 0 0
## 5957 5957 0 0 1 0 0 1 0 0 0 0 0 0
## 5958 5958 0 0 1 1 0 0 0 0 0 0 0 0
## 5959 5959 0 0 0 0 1 0 0 0 0 0 0 0
## 5960 5960 0 0 1 0 0 0 0 0 0 0 0 0
## 5961 5961 0 1 0 0 0 0 0 0 0 0 0 0
## 5962 5962 0 0 0 0 0 0 0 0 0 0 0 0
## 5963 5963 0 0 0 0 0 0 0 0 0 0 0 0
## 5964 5964 0 0 0 0 0 0 0 0 0 0 0 0
## 5965 5965 0 0 0 0 0 0 0 0 0 0 0 0
## 5966 5966 0 0 0 0 0 0 0 0 0 0 0 0
## 5967 5967 0 0 0 0 0 0 0 0 0 0 0 0
## 5968 5968 0 0 0 1 0 0 0 0 0 0 0 0
## 5969 5969 1 0 0 0 0 0 1 0 0 0 0 0
## 5970 5970 1 0 0 0 0 0 0 0 0 0 0 0

```

## 5971	5971	0	0	0	1	0	0	0	0	0	0	0
## 5972	5972	0	0	0	0	0	0	0	0	0	0	0
## 5973	5973	0	0	2	0	0	0	0	0	0	0	0
## 5974	5974	1	0	0	0	0	0	0	0	0	0	0
## 5975	5975	0	0	0	0	1	0	0	1	0	0	0
## 5976	5976	0	0	0	0	0	0	0	0	0	0	0
## 5977	5977	0	0	0	0	0	1	0	0	0	0	0
## 5978	5978	0	0	0	0	0	0	1	0	0	0	0
## 5979	5979	1	0	0	0	0	0	0	0	0	0	0
## 5980	5980	0	0	0	0	0	0	0	0	0	0	0
## 5981	5981	0	0	0	0	0	0	0	0	0	0	0
## 5982	5982	0	0	0	0	0	3	0	0	0	0	0
## 5983	5983	0	0	0	0	0	0	0	0	0	0	0
## 5984	5984	0	0	0	0	0	0	0	0	0	0	0
## 5985	5985	0	0	0	0	0	0	1	0	0	0	0
## 5986	5986	0	0	0	0	0	0	0	0	0	0	0
## 5987	5987	0	0	0	1	0	0	0	0	0	0	0
## 5988	5988	0	0	0	0	0	0	0	0	0	0	0
## 5989	5989	0	0	0	0	0	0	0	1	0	0	0
## 5990	5990	0	0	0	0	0	0	0	0	0	0	0
## 5991	5991	0	0	0	0	0	0	0	0	0	0	0
## 5992	5992	0	0	0	0	0	0	0	0	0	0	0
## 5993	5993	0	0	0	0	0	0	0	0	0	0	0
## 5994	5994	0	0	0	1	0	0	0	0	0	0	0
## 5995	5995	0	0	0	0	0	0	0	0	0	0	0
## 5996	5996	0	0	0	0	0	0	0	1	0	0	0
## 5997	5997	0	0	0	1	0	0	0	0	0	0	0
## 5998	5998	0	0	0	0	0	1	0	0	0	0	0
## 5999	5999	0	0	0	0	0	0	0	0	0	0	0
## 6000	6000	0	0	0	0	0	0	0	0	0	0	0
## 6001	6001	0	0	1	0	0	0	0	0	0	0	0
## 6002	6002	0	0	0	0	0	0	0	0	0	0	0
## 6003	6003	0	0	0	1	0	0	0	0	0	0	0
## 6004	6004	0	0	0	1	0	0	0	0	0	0	0
## 6005	6005	0	0	0	0	0	0	0	0	0	0	0
## 6006	6006	0	0	0	0	0	0	0	0	0	0	0
## 6007	6007	0	0	0	0	0	0	0	0	0	0	0
## 6008	6008	0	0	0	0	0	0	0	0	0	0	0
## 6009	6009	0	0	0	0	0	0	0	0	0	0	0
## 6010	6010	0	0	0	0	0	0	0	0	0	0	0
## 6011	6011	0	0	0	0	0	0	1	1	0	0	0
## 6012	6012	0	0	0	0	0	0	0	0	0	0	0
## 6013	6013	0	1	0	0	0	0	0	0	0	0	0
## 6014	6014	0	0	0	1	0	0	0	0	0	0	0
## 6015	6015	0	0	0	0	0	0	0	0	0	1	0
## 6016	6016	0	0	0	0	0	0	0	0	0	0	0
## 6017	6017	0	0	0	0	0	0	0	0	0	0	0
## 6018	6018	0	0	0	0	0	0	0	0	0	0	0
## 6019	6019	0	0	0	0	0	0	0	0	0	0	0
## 6020	6020	0	0	0	0	0	0	0	1	0	0	0
## 6021	6021	0	0	0	0	0	0	0	1	0	0	0
## 6022	6022	0	0	1	0	0	0	0	0	0	0	0
## 6023	6023	0	0	0	0	0	0	0	0	0	0	1
## 6024	6024	1	0	0	0	0	0	0	0	0	0	0

```

## 6025 6025 0 0 0 0 0 0 0 0 0 0 0 0
## 6026 6026 0 0 1 0 0 0 0 0 0 0 0 0
## 6027 6027 0 0 0 0 0 0 0 0 0 1 0 0
## 6028 6028 0 0 0 0 0 0 0 0 0 0 1 0
## 6029 6029 0 1 0 0 0 0 0 0 0 0 0 0
## 6030 6030 0 0 0 0 0 0 0 1 0 0 0 0
## 6031 6031 0 0 0 0 0 0 0 0 0 0 0 0
## 6032 6032 0 0 0 0 0 0 0 0 0 0 0 0
## 6033 6033 0 0 0 0 0 0 0 0 0 0 0 0
## 6034 6034 0 0 0 0 0 0 0 0 0 0 0 0
## 6035 6035 0 0 0 0 0 0 0 0 0 0 1 0
## 6036 6036 0 0 0 0 0 0 0 0 0 0 0 0
## 6037 6037 0 0 0 0 1 0 0 0 0 0 0 0
## 6038 6038 0 0 0 0 0 0 0 1 0 0 0 0
## 6039 6039 0 0 0 0 0 0 0 0 0 0 0 0
## 6040 6040 0 0 0 0 0 0 0 0 0 0 0 0
## 6041 6041 0 0 0 0 0 0 0 0 0 0 0 0
## 6042 6042 0 0 0 0 0 0 0 0 0 0 0 0
## 6043 6043 0 0 0 0 1 0 0 0 0 0 0 0
## 6044 6044 0 0 0 1 0 0 0 0 0 1 0 0
## 6045 6045 0 0 0 0 0 0 0 0 0 0 0 0
## 6046 6046 0 0 0 0 0 0 0 0 0 0 0 0
## 6047 6047 0 0 0 0 0 0 0 0 0 0 0 1
## 6048 6048 0 0 0 0 0 0 0 0 0 1 0 0
## 6049 6049 0 0 0 0 1 0 0 0 1 0 0 0
## 6050 6050 0 0 0 0 0 0 0 0 1 0 0 0
## 6051 6051 0 0 0 0 0 0 0 0 0 0 0 0
## 6052 6052 0 0 0 0 0 0 0 0 0 0 1 0
## 6053 6053 0 0 0 0 0 0 0 0 0 0 0 1
## 6054 6054 0 0 0 0 0 0 0 0 0 0 1 0
## 6055 6055 0 0 0 0 0 0 0 0 0 0 1 0
## 6056 6056 0 0 0 0 0 0 0 0 0 0 0 0
## 6057 6057 0 0 1 0 0 0 0 0 0 0 0 0
## 6058 6058 1 0 0 1 0 0 0 1 0 0 0 0
## 6059 6059 0 0 0 1 0 0 0 0 0 0 0 0
## 6060 6060 0 0 0 0 0 0 0 0 0 0 1 0
## 6061 6061 0 0 0 0 0 0 0 0 0 0 0 0
## 6062 6062 0 0 0 0 0 0 0 0 0 0 0 0
## 6063 6063 0 0 0 0 0 0 0 0 0 0 0 0
## 6064 6064 0 0 0 0 0 0 0 0 0 0 0 1
## 6065 6065 0 0 0 0 0 0 0 0 0 0 0 0
## 6066 6066 0 0 0 0 0 0 0 0 0 0 0 0
## 6067 6067 0 0 0 0 0 0 0 0 0 0 0 0
## 6068 6068 0 0 0 0 0 0 0 0 0 0 0 0
## 6069 6069 0 0 0 0 0 0 1 0 0 0 0 0
## 6070 6070 0 0 0 0 0 0 0 1 0 0 0 0
## 6071 6071 0 0 0 0 0 0 0 0 1 0 0 0
## 6072 6072 0 0 0 0 0 0 1 0 0 0 0 0
## 6073 6073 0 0 0 0 0 0 0 0 1 0 0 0
## 6074 6074 0 0 0 0 0 0 1 0 0 0 0 0
## 6075 6075 0 0 0 0 0 0 0 0 0 0 0 0
## 6076 6076 0 1 0 0 0 0 0 0 0 0 0 0
## 6077 6077 0 0 0 1 0 1 0 0 0 0 0 0
## 6078 6078 0 0 0 0 0 0 1 0 0 0 0 0

```

```

## 6079 6079 0 0 0 0 0 0 1 0 0 0 0 0
## 6080 6080 0 0 0 0 0 0 0 0 0 0 0 0
## 6081 6081 0 1 0 0 0 0 0 0 0 0 0 0
## 6082 6082 1 0 0 0 0 0 0 0 0 0 0 0
## 6083 6083 0 0 0 0 0 0 1 0 0 0 0 0
## 6084 6084 0 0 0 0 0 0 0 0 0 1 0 0
## 6085 6085 0 0 0 0 1 0 0 0 0 0 0 0
## 6086 6086 0 0 0 1 0 0 0 0 0 0 0 0
## 6087 6087 0 0 0 0 0 0 0 0 0 0 0 0
## 6088 6088 0 0 0 0 0 0 0 0 0 0 0 0
## 6089 6089 0 0 0 0 0 0 0 0 0 0 0 0
## 6090 6090 0 0 0 0 0 0 0 0 0 0 0 0
## 6091 6091 0 0 0 0 0 0 1 0 0 0 0 0
## 6092 6092 0 0 0 0 0 0 0 1 0 0 0 0
## 6093 6093 0 0 0 0 0 0 0 0 0 0 0 0
## 6094 6094 0 0 0 0 0 0 0 0 0 0 0 0
## 6095 6095 0 0 0 0 0 0 0 0 0 0 0 0
## 6096 6096 0 0 0 0 0 0 0 0 0 1 0 0
## 6097 6097 0 0 0 0 0 0 0 0 0 0 0 0
## 6098 6098 0 0 0 0 0 1 0 0 0 0 0 0
## 6099 6099 0 0 0 0 1 0 0 0 0 0 0 0
## 6100 6100 0 0 0 0 0 0 0 0 0 0 0 0
## 6101 6101 0 0 0 0 0 0 1 1 0 0 0 0
## 6102 6102 0 0 0 0 0 0 0 0 0 0 0 0
## 6103 6103 0 0 0 0 1 0 0 0 0 0 0 0
## 6104 6104 0 0 0 0 0 0 0 0 0 0 0 0
## 6105 6105 1 0 0 0 0 0 0 0 0 0 0 0
## 6106 6106 0 0 0 0 0 0 0 0 0 0 0 1
## 6107 6107 0 0 0 0 1 0 0 0 0 0 0 0
## 6108 6108 0 0 0 0 0 0 0 0 0 0 0 0
## 6109 6109 0 0 0 0 0 0 0 0 0 0 0 0
## 6110 6110 0 0 0 0 0 0 0 0 0 0 0 0
## 6111 6111 0 0 0 0 0 0 0 1 0 0 0 0
## 6112 6112 0 0 0 0 0 0 0 0 0 0 0 0
## 6113 6113 0 0 0 0 0 0 0 0 0 0 0 0
## 6114 6114 0 0 0 0 0 0 0 0 0 0 0 0
## 6115 6115 0 0 0 0 0 0 0 1 0 0 0 0
## 6116 6116 0 0 0 0 0 0 0 0 0 0 0 0
## 6117 6117 0 0 0 1 0 0 0 0 0 0 0 0
## 6118 6118 0 0 0 0 0 0 0 0 0 0 0 1
## 6119 6119 0 0 0 0 0 0 0 0 0 0 0 0
## 6120 6120 0 0 0 0 0 0 1 0 0 0 0 0
## 6121 6121 1 0 0 0 0 0 0 0 0 0 0 0
## 6122 6122 0 1 1 0 0 0 0 0 0 0 0 0
## 6123 6123 0 0 1 0 0 0 0 0 0 0 0 0
## 6124 6124 0 0 0 0 0 0 0 0 0 0 1 0
## 6125 6125 0 0 1 0 0 0 0 0 0 0 0 0
## 6126 6126 0 0 0 1 0 0 0 0 0 0 0 0
## 6127 6127 0 0 0 0 0 0 0 0 0 0 0 0
## 6128 6128 0 0 0 0 0 0 0 0 0 0 0 0
## 6129 6129 0 0 0 0 0 0 0 0 0 0 0 0
## 6130 6130 0 0 0 0 0 0 1 0 0 0 0 0
## 6131 6131 0 0 0 0 0 0 0 0 0 0 0 0
## 6132 6132 0 0 0 0 0 0 0 1 0 0 0 0

```

## 6133	6133	0	0	0	0	0	0	0	0	0	0	0
## 6134	6134	0	0	0	0	0	0	0	0	0	0	0
## 6135	6135	0	0	0	0	0	0	0	0	0	0	0
## 6136	6136	0	0	0	0	0	0	0	0	0	0	0
## 6137	6137	0	0	0	0	0	0	0	0	0	0	0
## 6138	6138	0	0	0	0	0	0	0	1	0	0	0
## 6139	6139	0	0	0	0	0	0	0	2	0	0	0
## 6140	6140	0	0	0	0	0	0	1	0	0	0	0
## 6141	6141	0	0	1	0	0	0	0	0	0	0	0
## 6142	6142	0	1	0	0	0	0	0	0	0	0	0
## 6143	6143	0	0	0	0	1	0	0	0	0	0	0
## 6144	6144	0	0	0	0	0	0	0	0	0	0	0
## 6145	6145	0	0	1	0	0	0	0	0	0	0	0
## 6146	6146	0	0	0	1	0	0	0	0	0	0	0
## 6147	6147	0	1	0	0	0	0	0	0	0	0	0
## 6148	6148	0	0	0	0	1	0	0	0	0	0	0
## 6149	6149	0	0	0	0	0	0	1	0	0	0	0
## 6150	6150	0	0	0	0	0	0	0	1	0	0	0
## 6151	6151	0	0	0	0	1	0	0	0	0	0	0
## 6152	6152	0	0	0	0	1	0	0	0	0	0	0
## 6153	6153	0	0	0	0	0	0	0	0	0	0	0
## 6154	6154	0	0	0	0	1	0	0	0	0	0	0
## 6155	6155	0	0	0	0	0	0	0	0	0	0	0
## 6156	6156	0	0	0	0	0	0	1	0	0	0	0
## 6157	6157	0	0	0	0	0	0	0	0	0	0	0
## 6158	6158	0	0	0	0	0	0	0	0	0	0	0
## 6159	6159	0	0	0	0	0	0	0	0	0	0	0
## 6160	6160	0	0	0	0	0	0	0	0	0	2	0
## 6161	6161	0	0	0	0	0	0	0	1	0	0	0
## 6162	6162	0	0	0	0	0	0	0	0	0	0	0
## 6163	6163	0	0	0	0	0	0	1	0	0	0	0
## 6164	6164	0	0	0	0	0	0	0	1	0	0	0
## 6165	6165	0	0	0	0	0	1	0	1	0	0	0
## 6166	6166	0	1	1	0	0	0	0	0	0	0	0
## 6167	6167	0	0	0	0	0	0	0	0	0	0	0
## 6168	6168	0	0	0	0	0	1	0	0	0	0	0
## 6169	6169	1	0	0	0	0	0	0	0	0	0	0
## 6170	6170	0	1	0	0	0	0	0	0	0	0	0
## 6171	6171	0	0	1	0	0	0	0	0	0	0	0
## 6172	6172	0	1	0	0	0	0	0	0	0	0	0
## 6173	6173	0	1	0	0	0	0	0	0	0	0	0
## 6174	6174	0	1	0	0	0	0	0	0	0	0	0
## 6175	6175	0	0	1	0	0	0	0	0	0	0	0
## 6176	6176	0	0	1	0	0	0	0	0	0	0	0
## 6177	6177	0	0	0	0	0	0	0	0	0	0	0
## 6178	6178	0	0	0	0	0	0	0	0	0	0	0
## 6179	6179	0	0	0	0	0	0	0	0	0	0	0
## 6180	6180	0	0	0	0	0	0	0	0	0	2	0
## 6181	6181	0	0	0	0	0	0	1	0	0	0	0
## 6182	6182	0	0	0	1	0	0	0	0	0	0	0
## 6183	6183	2	1	0	0	0	1	0	1	0	0	0
## 6184	6184	0	0	1	0	0	0	0	0	0	0	0
## 6185	6185	0	0	0	0	0	0	0	0	0	0	1
## 6186	6186	0	0	0	0	0	0	2	0	0	0	0

## 6187	6187	0	0	0	0	0	0	1	0	0	0	0
## 6188	6188	0	0	0	0	0	0	0	0	1	0	0
## 6189	6189	0	0	0	0	0	0	0	0	0	0	0
## 6190	6190	0	1	0	0	0	0	0	0	0	0	0
## 6191	6191	0	0	0	0	0	0	0	0	0	0	0
## 6192	6192	0	1	0	0	0	0	0	0	0	0	0
## 6193	6193	0	0	0	0	0	0	0	0	0	0	0
## 6194	6194	0	1	0	0	0	0	0	0	0	0	0
## 6195	6195	0	1	1	0	0	0	0	0	0	0	0
## 6196	6196	0	0	0	1	0	0	1	0	0	0	0
## 6197	6197	0	0	0	0	0	0	0	0	0	1	0
## 6198	6198	0	0	0	0	0	0	0	0	0	0	0
## 6199	6199	0	0	0	0	0	1	0	0	0	0	0
## 6200	6200	0	0	0	0	1	0	0	0	0	0	0
## 6201	6201	0	0	0	1	0	0	0	0	0	0	0
## 6202	6202	0	0	0	1	0	0	0	0	0	0	0
## 6203	6203	0	0	0	0	0	0	0	1	0	0	0
## 6204	6204	0	0	1	0	0	0	0	0	0	0	0
## 6205	6205	0	0	0	0	0	0	1	0	0	0	0
## 6206	6206	0	0	1	0	0	0	0	0	0	0	0
## 6207	6207	0	0	0	0	0	0	0	0	0	0	1
## 6208	6208	0	0	0	0	0	0	0	0	0	0	1
## 6209	6209	0	0	0	0	0	0	0	0	0	0	0
## 6210	6210	1	0	0	0	0	0	0	0	0	0	0
## 6211	6211	0	0	3	0	0	0	0	0	0	0	0
## 6212	6212	0	0	0	1	0	0	0	0	0	0	0
## 6213	6213	0	0	0	0	0	1	0	0	0	0	0
## 6214	6214	0	0	0	0	1	0	0	0	0	0	0
## 6215	6215	0	1	0	0	0	0	0	0	0	0	0
## 6216	6216	0	0	0	0	1	0	0	0	0	0	0
## 6217	6217	1	0	0	0	0	0	0	0	0	0	0
## 6218	6218	1	0	0	0	0	0	0	0	0	0	0
## 6219	6219	0	1	0	0	0	0	0	0	0	0	0
## 6220	6220	1	0	0	0	0	0	0	0	0	0	0
## 6221	6221	1	0	0	0	0	0	0	0	0	0	0
## 6222	6222	0	1	0	0	0	0	0	0	0	0	0
## 6223	6223	0	0	0	0	0	0	0	0	0	0	0
## 6224	6224	0	0	0	0	0	0	0	1	0	0	0
## 6225	6225	0	0	0	0	0	1	0	0	0	0	0
## 6226	6226	0	0	0	0	0	0	0	0	0	0	0
## 6227	6227	0	0	0	0	0	0	0	0	0	0	0
## 6228	6228	1	0	0	0	0	0	0	0	0	0	0
## 6229	6229	0	0	0	0	0	1	0	0	0	0	0
## 6230	6230	0	0	0	0	0	0	0	0	0	0	0
## 6231	6231	0	1	0	0	0	0	0	0	0	0	0
## 6232	6232	1	0	0	0	0	0	0	0	0	0	0
## 6233	6233	0	0	0	0	0	1	0	0	0	0	0
## 6234	6234	0	0	0	0	0	0	0	0	0	0	0
## 6235	6235	0	0	0	0	0	0	0	0	0	0	0
## 6236	6236	0	0	0	0	0	0	0	0	0	0	0
## 6237	6237	0	1	0	0	0	0	0	0	0	0	0
## 6238	6238	0	0	0	0	0	0	0	0	0	0	0
## 6239	6239	0	0	0	1	0	0	0	0	0	0	0
## 6240	6240	0	0	0	0	0	0	0	0	0	0	0

```

## 6241 6241 0 0 0 1 0 0 0 0 0 0 0 0
## 6242 6242 0 1 0 0 0 0 0 0 0 0 0 0
## 6243 6243 0 0 1 0 0 0 0 0 0 0 0 0
## 6244 6244 1 0 0 0 0 0 0 0 0 0 0 0
## 6245 6245 0 0 0 1 0 0 0 0 0 0 0 0
## 6246 6246 0 0 0 1 0 0 0 0 0 0 0 0
## 6247 6247 0 0 0 0 0 0 0 1 0 0 0 0
## 6248 6248 0 0 0 0 0 0 0 0 0 0 0 0
## 6249 6249 0 0 0 0 0 0 0 0 0 0 0 0
## 6250 6250 0 0 0 0 0 0 0 0 0 0 0 0
## 6251 6251 0 0 0 0 0 0 0 0 0 0 0 0
## 6252 6252 0 0 0 0 0 0 0 0 1 0 0 0
## 6253 6253 0 0 0 0 1 0 0 0 0 0 0 0
## 6254 6254 0 1 0 0 0 0 0 0 0 0 0 0
## 6255 6255 0 0 1 0 0 0 0 0 0 0 0 0
## 6256 6256 0 0 0 0 0 0 0 0 0 0 0 0
## 6257 6257 0 0 0 0 0 0 0 0 0 0 0 1
## 6258 6258 0 0 0 0 0 0 1 0 0 0 0 0
## 6259 6259 0 0 0 0 0 0 0 0 0 0 0 0
## 6260 6260 0 0 0 0 0 0 0 0 0 0 0 0
## 6261 6261 0 0 0 0 0 0 0 1 0 0 0 0
## 6262 6262 0 0 0 0 0 0 0 0 0 0 0 0
## 6263 6263 0 0 0 0 0 0 0 0 0 0 0 0
## 6264 6264 0 0 0 0 0 1 0 0 0 0 0 0
## 6265 6265 0 0 0 0 0 0 0 0 0 0 0 0
## 6266 6266 0 0 0 0 0 1 0 0 0 0 0 0
## 6267 6267 0 0 1 0 0 0 0 0 0 0 0 0
## 6268 6268 0 0 0 0 0 0 0 0 0 0 0 0
## 6269 6269 0 0 0 0 0 0 0 0 0 0 0 1
## 6270 6270 0 0 0 0 0 0 0 0 0 0 0 0
## 6271 6271 1 0 0 0 0 0 0 0 0 0 0 0
## 6272 6272 0 0 0 0 1 0 0 0 0 0 0 0
## 6273 6273 0 0 0 0 0 0 0 0 1 0 0 0
## 6274 6274 0 0 0 1 0 0 0 0 0 0 0 0
## 6275 6275 0 0 0 0 0 0 0 0 0 0 0 0
## 6276 6276 0 0 0 0 1 0 0 0 0 0 0 0
## 6277 6277 0 0 0 0 0 0 0 0 0 0 0 0
## 6278 6278 0 0 0 0 0 0 0 1 0 0 0 0
## 6279 6279 0 0 0 0 0 0 0 1 0 0 0 0
## 6280 6280 0 0 0 1 0 0 0 0 0 0 0 0
## 6281 6281 0 0 0 0 0 0 0 0 0 0 0 0
## 6282 6282 0 0 0 0 0 0 0 0 0 0 0 0
## 6283 6283 0 0 0 0 0 0 0 0 0 0 0 0
## 6284 6284 0 0 0 0 0 0 0 0 0 0 0 0
## 6285 6285 0 1 0 0 0 0 0 0 0 0 0 0
## 6286 6286 0 0 0 0 0 0 0 0 0 0 0 0
## 6287 6287 0 0 0 0 0 0 0 0 0 0 0 0
## 6288 6288 0 0 0 0 0 0 0 0 0 0 0 0
## 6289 6289 0 0 0 0 0 0 0 0 0 0 0 0
## 6290 6290 0 0 0 0 0 0 0 0 0 0 0 0
## 6291 6291 0 0 0 0 0 1 0 0 0 0 0 0
## 6292 6292 0 0 0 0 0 0 0 0 0 0 0 0
## 6293 6293 0 0 0 0 0 0 0 0 0 0 0 0
## 6294 6294 0 0 0 0 0 0 0 0 0 0 0 0

```

```

## 6295 6295 0 0 1 0 0 0 0 0 0 0 0 0
## 6296 6296 0 0 0 0 0 0 0 0 0 0 1 0
## 6297 6297 0 0 0 0 0 0 0 0 0 0 0 0
## 6298 6298 0 0 0 0 0 0 0 0 0 1 0 0
## 6299 6299 0 0 0 0 0 0 0 0 0 0 1 0
## 6300 6300 1 0 0 0 0 0 0 0 0 0 0 0
## 6301 6301 0 0 0 0 0 0 0 0 0 0 0 1
## 6302 6302 0 0 0 0 0 0 0 0 0 0 0 0
## 6303 6303 0 0 1 0 0 0 0 0 0 0 0 0
## 6304 6304 0 0 0 0 0 0 0 0 0 0 1 0
## 6305 6305 0 0 0 0 0 0 0 0 0 0 0 0
## 6306 6306 0 0 0 0 0 0 0 1 0 0 0 0
## 6307 6307 0 0 0 0 0 0 0 1 0 0 0 0
## 6308 6308 0 2 0 0 0 0 0 0 0 0 0 1
## 6309 6309 0 0 0 1 0 0 0 0 0 0 0 0
## 6310 6310 0 0 0 0 0 0 0 0 0 0 0 0
## 6311 6311 0 0 0 0 0 0 0 0 0 0 0 0
## 6312 6312 0 0 0 0 0 0 0 0 1 0 0 0
## 6313 6313 0 0 0 0 0 0 0 0 0 0 0 0
## 6314 6314 0 0 0 0 0 0 0 0 0 0 0 0
## 6315 6315 0 0 0 0 0 1 0 0 0 0 0 0
## 6316 6316 0 0 0 0 0 0 0 1 0 0 0 0
## 6317 6317 0 0 0 1 0 0 0 0 0 0 0 0
## 6318 6318 0 0 0 0 0 0 0 0 0 0 0 0
## 6319 6319 0 0 0 0 0 0 0 0 0 0 0 1
## 6320 6320 0 0 0 0 0 0 0 0 0 0 0 0
## 6321 6321 0 0 0 0 0 0 0 1 0 0 0 0
## 6322 6322 0 0 0 0 0 0 0 0 0 0 0 0
## 6323 6323 1 0 0 0 0 0 0 0 0 0 0 0
## 6324 6324 0 0 0 0 0 0 0 0 0 0 0 0
## 6325 6325 0 0 0 0 0 0 0 0 0 0 0 0
## 6326 6326 0 0 0 0 0 0 0 0 0 0 0 0
## 6327 6327 0 0 0 0 0 1 0 0 0 0 0 0
## 6328 6328 0 0 0 0 0 0 0 0 0 0 0 0
## 6329 6329 0 0 0 0 0 0 0 0 0 0 0 0
## 6330 6330 0 0 0 0 0 0 0 0 0 0 0 0
## 6331 6331 0 0 0 0 0 0 0 0 0 0 0 0
## 6332 6332 0 0 0 0 0 0 0 0 0 0 0 0
## 6333 6333 0 0 0 0 0 0 0 0 0 0 0 0
## 6334 6334 0 0 0 0 0 0 0 0 0 0 0 0
## 6335 6335 0 0 0 0 0 0 0 0 0 0 0 0
## 6336 6336 0 0 0 0 0 0 0 0 0 0 0 0
## 6337 6337 0 0 0 0 0 0 0 0 0 0 0 0
## 6338 6338 0 0 0 0 0 0 0 0 0 0 0 0
## 6339 6339 0 0 0 0 0 0 0 0 0 0 0 0
## 6340 6340 1 0 0 0 0 0 0 0 0 0 0 0
## 6341 6341 1 0 0 0 0 0 0 0 0 0 0 0
## 6342 6342 0 0 0 0 0 0 0 0 0 0 0 0
## 6343 6343 0 0 0 0 0 0 0 0 0 2 0 0
## 6344 6344 0 0 0 0 0 0 0 0 0 0 0 0
## 6345 6345 0 0 0 0 0 0 0 0 0 1 0 0
## 6346 6346 0 1 0 0 0 0 0 0 0 0 0 0
## 6347 6347 0 0 0 0 0 0 0 0 0 2 0 0
## 6348 6348 0 0 0 0 0 0 1 0 0 0 0 0

```

```

## 6349 6349 0 0 0 0 0 0 0 0 0 0 0 0
## 6350 6350 0 0 0 0 0 0 0 0 0 0 0 0
## 6351 6351 0 0 0 0 0 0 0 0 0 0 0 0
## 6352 6352 0 0 0 0 0 0 0 0 0 0 0 0
## 6353 6353 0 0 0 0 0 0 0 0 0 0 0 0
## 6354 6354 0 0 0 1 0 0 0 0 0 0 0 0
## 6355 6355 0 0 0 0 0 0 0 0 0 0 0 1
## 6356 6356 0 0 0 0 0 0 0 0 0 0 0 0
## 6357 6357 0 0 0 0 0 0 0 0 0 0 0 0
## 6358 6358 0 0 0 0 0 0 0 0 1 0 0 0
## 6359 6359 0 0 0 0 0 0 0 0 0 0 0 0
## 6360 6360 0 0 0 0 0 0 0 0 0 0 0 0
## 6361 6361 0 0 0 1 0 0 0 0 0 0 0 0
## 6362 6362 0 0 0 1 0 0 0 0 0 0 0 0
## 6363 6363 0 0 0 0 0 0 0 1 0 0 0 0
## 6364 6364 0 0 0 1 0 0 0 0 0 0 0 0
## 6365 6365 0 0 0 0 0 0 0 0 1 0 0 0
## 6366 6366 0 0 0 0 2 0 0 0 0 0 0 0
## 6367 6367 1 0 0 0 0 0 0 0 0 0 0 0
## 6368 6368 0 0 0 0 0 0 0 0 0 0 0 0
## 6369 6369 0 0 0 0 0 0 0 0 0 0 0 1
## 6370 6370 0 0 0 0 0 0 0 1 0 0 0 0
## 6371 6371 0 0 0 0 0 0 0 0 0 0 0 0
## 6372 6372 0 0 0 0 0 0 0 0 0 0 0 0
## 6373 6373 0 0 0 0 0 0 0 0 0 0 0 0
## 6374 6374 0 0 0 0 0 0 0 0 0 0 0 0
## 6375 6375 0 0 0 0 0 0 0 0 0 0 0 0
## 6376 6376 0 0 1 0 0 0 0 0 0 0 0 0
## 6377 6377 0 0 0 0 0 0 0 0 0 0 0 0
## 6378 6378 0 0 0 1 0 0 0 0 0 0 0 0
## 6379 6379 0 0 0 0 0 0 0 0 0 0 0 0
## 6380 6380 0 0 0 0 0 0 0 0 0 0 0 0
## 6381 6381 0 0 0 0 0 0 0 0 0 0 0 0
## 6382 6382 0 0 0 0 0 0 0 0 0 0 0 1
## 6383 6383 1 0 0 0 0 0 0 0 0 0 0 0
## 6384 6384 0 0 0 0 0 0 0 0 0 0 0 0
## 6385 6385 0 0 0 0 0 1 0 0 1 0 0 0
## 6386 6386 0 1 0 0 0 0 0 0 0 0 0 0
## 6387 6387 0 1 0 0 0 0 0 0 0 0 0 0
## 6388 6388 0 0 0 0 0 1 0 0 0 0 0 0
## 6389 6389 0 1 0 0 0 0 0 0 0 0 0 0
## 6390 6390 0 0 0 0 0 0 0 0 0 0 0 0
## 6391 6391 0 0 0 0 0 0 0 0 0 0 0 0
## 6392 6392 0 0 0 0 1 0 0 0 0 0 0 0
## 6393 6393 0 0 0 0 0 0 0 0 1 0 0 0
## 6394 6394 0 0 0 0 0 0 0 1 0 0 0 0
## 6395 6395 0 0 0 0 0 0 0 0 0 0 0 1
## 6396 6396 0 0 0 0 0 0 1 0 0 0 0 0
## 6397 6397 0 1 0 1 0 0 0 0 0 0 0 0
## 6398 6398 0 0 1 0 0 0 0 0 0 0 0 0
## 6399 6399 0 0 0 0 0 0 0 0 0 0 0 0
## 6400 6400 0 0 0 0 0 0 1 0 0 0 0 0
## 6401 6401 0 0 0 1 0 0 0 0 0 0 0 0
## 6402 6402 0 0 0 0 0 0 0 0 0 0 0 0

```

```

## 6403 6403 0 0 0 0 0 0 0 0 0 0 0 0
## 6404 6404 0 0 0 0 1 0 0 0 0 0 1 0
## 6405 6405 0 0 0 0 0 0 0 0 0 0 1 0
## 6406 6406 0 0 0 1 0 0 0 0 0 0 0 0
## 6407 6407 0 0 0 0 0 0 0 0 0 0 1 0
## 6408 6408 0 0 0 0 0 0 0 0 0 0 0 0
## 6409 6409 0 0 0 0 0 0 0 0 0 0 0 0
## 6410 6410 0 0 0 0 0 2 0 0 0 0 0 0
## 6411 6411 0 0 0 0 1 0 0 0 0 0 0 0
## 6412 6412 0 0 0 0 0 1 0 0 0 0 0 0
## 6413 6413 0 0 0 0 0 0 0 0 0 0 0 0
## 6414 6414 0 0 1 0 0 0 0 0 0 0 0 0
## 6415 6415 0 0 0 0 0 0 0 0 0 0 0 0
## 6416 6416 0 0 1 0 0 0 0 0 0 0 0 0
## 6417 6417 0 0 0 0 1 0 0 0 0 0 0 0
## 6418 6418 0 0 0 0 0 0 0 0 0 0 0 0
## 6419 6419 0 0 0 0 0 0 0 0 0 0 0 0
## 6420 6420 0 0 0 0 0 0 0 0 0 0 0 0
## 6421 6421 0 0 0 0 0 0 0 0 1 0 0 0
## 6422 6422 0 0 0 0 0 0 0 0 0 0 0 0
## 6423 6423 0 0 0 0 0 0 0 0 0 0 0 0
## 6424 6424 0 0 0 0 0 0 0 0 0 0 0 0
## 6425 6425 0 0 0 0 0 0 0 0 0 0 0 0
## 6426 6426 0 0 0 0 0 0 0 0 1 0 0 0
## 6427 6427 0 0 0 0 0 1 0 0 0 0 0 0
## 6428 6428 0 0 0 0 0 0 0 0 0 0 0 0
## 6429 6429 0 0 0 0 0 0 1 0 0 0 0 0
## 6430 6430 1 0 0 0 0 0 0 0 0 0 0 0
## 6431 6431 1 0 0 0 0 0 0 0 0 0 0 0
## 6432 6432 0 0 0 0 0 0 0 0 1 0 0 0
## 6433 6433 0 0 0 1 0 0 0 0 0 0 0 0
## 6434 6434 0 0 0 0 0 0 0 0 1 0 0 0
## 6435 6435 0 0 0 1 0 0 0 0 0 0 0 0
## 6436 6436 0 0 0 0 0 0 0 0 0 0 1 0
## 6437 6437 0 0 0 0 0 0 0 0 0 0 0 0
## 6438 6438 0 0 0 0 0 0 0 0 0 0 0 0
## 6439 6439 0 0 0 0 0 0 0 0 0 0 0 0
## 6440 6440 0 0 0 0 0 0 0 0 1 0 0 0
## 6441 6441 0 0 0 0 0 0 1 0 0 0 0 0
## 6442 6442 0 0 0 0 0 0 1 0 0 0 0 0
## 6443 6443 0 0 0 0 0 0 0 0 0 1 0 0
## 6444 6444 1 0 0 0 0 0 0 0 0 0 0 0
## 6445 6445 1 0 0 0 0 0 0 0 0 0 0 0
## 6446 6446 0 0 0 1 0 0 0 0 0 0 0 0
## 6447 6447 0 0 0 0 0 0 0 0 0 0 0 0
## 6448 6448 1 0 0 0 0 0 0 0 0 0 0 0
## 6449 6449 0 0 0 0 0 0 0 0 0 0 0 0
## 6450 6450 0 0 0 0 0 0 0 0 0 0 0 0
## 6451 6451 0 0 0 0 0 0 0 0 0 0 0 0
## 6452 6452 0 0 0 0 0 0 0 0 0 0 0 0
## 6453 6453 0 0 0 0 0 0 0 0 0 0 0 0
## 6454 6454 0 0 0 0 0 0 0 0 0 0 0 0
## 6455 6455 0 0 0 0 0 0 0 0 0 0 1 0
## 6456 6456 0 0 0 0 0 0 0 0 0 0 1 0

```

## 6457 6457	0	0	0	0	0	0	2	0	0	0	0
## 6458 6458	0	0	0	0	0	0	0	0	0	0	0
## 6459 6459	0	0	0	0	0	0	0	0	0	0	0
## 6460 6460	0	0	0	0	1	0	0	0	0	1	0
## 6461 6461	0	0	0	0	0	0	1	0	0	0	0
## 6462 6462	0	0	0	0	0	0	0	0	0	0	0
## 6463 6463	0	0	0	0	0	0	0	0	0	0	0
## 6464 6464	0	0	0	0	1	0	0	0	0	0	0
## 6465 6465	0	0	0	0	0	0	0	0	0	0	0
## 6466 6466	0	0	0	0	1	0	0	0	0	0	0
## 6467 6467	0	0	0	0	0	0	0	0	2	0	0
## 6468 6468	0	0	1	0	0	0	0	0	0	0	0
## 6469 6469	0	0	0	0	0	0	0	0	0	0	0
## 6470 6470	0	0	0	0	0	0	0	0	0	0	0
## 6471 6471	0	0	0	0	0	0	1	0	0	0	0
## 6472 6472	0	0	0	0	0	0	0	0	1	0	0
## 6473 6473	0	0	0	0	0	0	1	0	0	0	0
## 6474 6474	0	0	0	0	0	0	0	0	0	0	1
## 6475 6475	0	0	0	0	0	0	1	0	0	0	0
## 6476 6476	0	0	0	0	0	1	0	0	0	0	0
## 6477 6477	0	0	0	0	0	1	0	0	0	0	0
## 6478 6478	0	0	0	0	0	0	0	1	0	0	0
## 6479 6479	0	0	0	0	1	0	0	0	0	0	0
## 6480 6480	0	0	0	0	0	0	0	0	0	0	1
## 6481 6481	0	0	0	0	0	0	0	0	0	0	0
## 6482 6482	0	0	0	0	0	0	0	0	0	0	0
## 6483 6483	0	0	0	0	1	0	0	0	0	0	0
## 6484 6484	0	0	0	0	0	0	0	0	0	0	0
## 6485 6485	0	0	0	0	0	0	0	0	0	0	0
## 6486 6486	0	0	0	0	0	0	0	0	1	0	0
## 6487 6487	0	0	0	0	0	0	0	0	0	0	0
## 6488 6488	0	0	0	0	0	0	0	0	0	0	0
## 6489 6489	0	0	0	0	1	0	0	0	0	0	0
## 6490 6490	0	0	0	1	0	0	0	0	0	0	0
## 6491 6491	0	0	0	0	0	0	0	0	0	0	0
## 6492 6492	0	1	0	0	0	0	0	0	0	0	0
## 6493 6493	0	0	0	0	0	0	0	0	0	0	0
## 6494 6494	0	0	0	0	0	0	0	0	0	0	0
## 6495 6495	0	0	0	1	0	0	0	0	0	0	0
## 6496 6496	0	0	0	0	0	0	0	0	0	0	0
## 6497 6497	0	0	0	0	0	0	0	0	0	0	0
## 6498 6498	0	0	0	0	1	0	0	0	0	0	0
## 6499 6499	0	0	0	0	0	1	1	0	0	0	0
## 6500 6500	0	0	0	0	0	0	0	0	0	0	0
## 6501 6501	0	0	0	0	0	1	0	0	0	0	0
## 6502 6502	0	0	0	0	0	0	0	0	0	0	0
## 6503 6503	0	0	0	0	0	0	1	1	0	0	0
## 6504 6504	0	0	0	0	0	0	0	0	0	0	0
## 6505 6505	0	0	0	0	0	0	0	0	1	0	0
## 6506 6506	0	1	0	0	0	0	0	0	0	0	0
## 6507 6507	0	1	0	0	0	0	0	0	0	0	0
## 6508 6508	0	0	0	0	0	0	0	0	0	0	0
## 6509 6509	1	0	0	0	0	0	0	0	0	0	0
## 6510 6510	0	1	0	0	0	0	0	0	0	0	0

## 6511	6511	0	0	0	0	0	0	0	1	0	0
## 6512	6512	0	1	1	0	0	0	0	0	0	0
## 6513	6513	0	1	0	0	0	0	0	0	0	0
## 6514	6514	0	0	1	0	1	0	0	0	0	0
## 6515	6515	0	1	0	0	0	0	0	0	0	0
## 6516	6516	0	1	0	0	0	0	0	0	0	0
## 6517	6517	0	0	1	0	0	0	0	0	0	0
## 6518	6518	0	0	1	0	0	0	0	0	0	0
## 6519	6519	1	0	0	0	0	0	0	0	0	0
## 6520	6520	0	0	0	0	0	0	1	0	0	0
## 6521	6521	0	0	1	0	0	0	0	0	0	0
## 6522	6522	0	0	0	0	0	0	1	0	0	0
## 6523	6523	1	0	0	0	0	0	0	0	0	0
## 6524	6524	0	0	0	0	0	0	0	0	1	0
## 6525	6525	0	0	1	0	0	0	0	0	0	0
## 6526	6526	0	0	0	0	0	0	0	0	0	1
## 6527	6527	0	0	0	0	0	0	0	0	0	1
## 6528	6528	0	0	0	1	0	0	0	0	0	0
## 6529	6529	0	0	0	0	0	0	0	0	1	0
## 6530	6530	0	0	0	0	0	0	0	0	1	0
## 6531	6531	0	0	1	0	0	0	0	0	0	0
## 6532	6532	0	1	0	0	0	0	0	0	0	0
## 6533	6533	0	0	0	0	0	0	0	0	0	0
## 6534	6534	0	0	0	0	0	0	0	0	0	0
## 6535	6535	0	0	0	0	1	0	0	0	0	0
## 6536	6536	0	0	0	0	1	0	0	0	0	0
## 6537	6537	0	0	1	0	0	0	0	0	0	0
## 6538	6538	0	0	0	0	0	0	0	1	0	0
## 6539	6539	0	1	0	0	1	0	0	0	0	0
## 6540	6540	0	1	0	0	0	0	0	0	0	0
## 6541	6541	0	0	0	0	0	0	1	0	0	0
## 6542	6542	0	0	0	0	0	0	0	0	0	0
## 6543	6543	0	0	1	0	0	0	0	0	0	0
## 6544	6544	0	0	0	0	0	0	0	0	0	0
## 6545	6545	0	0	0	0	0	0	0	0	0	0
## 6546	6546	0	0	0	0	0	0	0	0	0	0
## 6547	6547	0	0	0	0	0	0	1	0	0	0
## 6548	6548	0	0	0	0	0	0	1	0	0	0
## 6549	6549	0	0	1	0	0	0	0	0	0	0
## 6550	6550	0	0	1	0	0	0	0	0	0	0
## 6551	6551	0	0	0	0	0	0	0	0	0	0
## 6552	6552	0	0	0	0	1	0	0	0	0	0
## 6553	6553	0	0	0	0	0	0	0	0	0	0
## 6554	6554	0	0	1	0	0	0	0	0	0	0
## 6555	6555	0	0	0	0	0	0	0	0	0	0
## 6556	6556	0	0	0	0	0	0	0	0	0	0
## 6557	6557	0	1	0	0	0	0	0	0	0	0
## 6558	6558	0	0	0	2	0	0	0	0	0	0
## 6559	6559	0	1	0	0	0	0	1	0	0	0
## 6560	6560	0	0	0	1	0	0	0	0	0	1
## 6561	6561	0	0	0	0	0	0	0	0	0	1
## 6562	6562	0	0	0	0	0	0	0	0	0	0
## 6563	6563	0	0	0	0	0	0	0	0	0	0
## 6564	6564	0	0	0	0	0	0	1	0	0	0

```

## 6565 6565 0 0 0 0 0 0 0 0 0 0 0 0
## 6566 6566 0 0 0 0 0 0 0 0 0 0 0 0
## 6567 6567 0 0 0 1 0 0 0 0 0 0 0 0
## 6568 6568 0 0 0 0 0 0 0 0 0 0 0 0
## 6569 6569 0 0 0 1 0 0 0 0 0 0 0 0
## 6570 6570 0 0 0 1 0 0 0 1 0 0 0 0
## 6571 6571 0 0 0 0 0 0 0 0 0 0 0 0
## 6572 6572 0 0 0 0 0 0 0 0 0 0 0 0
## 6573 6573 0 0 0 0 1 0 0 0 0 0 0 0
## 6574 6574 0 0 0 0 0 1 0 0 0 0 0 0
## 6575 6575 2 0 0 0 0 0 0 0 0 0 0 0
## 6576 6576 0 1 0 0 0 0 0 0 0 0 0 0
## 6577 6577 0 0 0 0 0 0 0 0 0 0 0 0
## 6578 6578 0 0 0 0 0 0 0 0 0 0 0 0
## 6579 6579 0 0 0 0 0 0 0 0 0 0 0 0
## 6580 6580 0 0 0 0 0 0 1 0 0 0 0 0
## 6581 6581 0 0 0 0 0 0 0 0 0 0 0 0
## 6582 6582 0 0 0 0 0 0 0 0 0 0 0 0
## 6583 6583 0 0 0 0 1 0 0 0 0 0 0 0
## 6584 6584 0 0 0 0 0 0 0 0 0 0 0 0
## 6585 6585 0 0 0 0 0 0 0 0 0 0 0 1
## 6586 6586 0 0 0 0 0 0 0 0 0 0 0 0
## 6587 6587 0 0 0 0 0 0 1 0 0 0 0 0
## 6588 6588 0 0 0 0 0 1 0 0 0 0 0 0
## 6589 6589 0 0 0 0 0 0 0 0 1 0 0 0
## 6590 6590 0 0 0 0 0 0 0 0 0 0 0 0
## 6591 6591 0 0 2 0 0 0 0 0 0 0 0 0
## 6592 6592 0 0 0 0 0 0 0 0 0 0 0 0
## 6593 6593 0 0 0 0 0 0 0 0 0 1 0 0
## 6594 6594 0 0 0 0 1 0 0 0 0 0 0 0
## 6595 6595 0 0 0 0 0 0 0 0 0 0 0 0
## 6596 6596 0 0 0 0 0 0 0 0 0 0 1 0
## 6597 6597 0 0 0 0 0 1 0 0 0 0 0 0
## 6598 6598 0 0 0 0 0 0 0 0 2 0 0 0
## 6599 6599 0 0 0 0 0 0 0 0 1 0 0 0
## 6600 6600 0 0 0 0 1 0 0 0 0 0 0 0
## 6601 6601 0 0 0 0 0 0 0 0 0 0 0 0
## 6602 6602 0 0 0 0 0 0 0 0 0 0 0 0
## 6603 6603 0 0 1 0 0 0 0 0 0 0 0 0
## 6604 6604 0 0 0 0 1 0 0 0 0 0 0 0
## 6605 6605 0 0 0 0 0 0 0 0 0 0 0 0
## 6606 6606 0 0 0 0 0 0 0 0 0 0 1 0
## 6607 6607 0 0 0 1 1 0 0 0 0 0 0 0
## 6608 6608 0 0 0 0 0 0 0 1 0 0 0 0
## 6609 6609 0 0 0 0 0 1 0 0 0 0 0 0
## 6610 6610 0 1 0 0 0 0 0 0 0 0 0 0
## 6611 6611 0 0 0 0 0 1 0 0 0 0 0 0
## 6612 6612 0 0 0 0 0 0 0 0 0 0 0 0
## 6613 6613 0 0 0 0 0 1 0 0 0 0 0 0
## 6614 6614 0 0 0 2 0 0 0 0 0 0 0 0
## 6615 6615 0 0 0 0 1 0 0 0 0 0 0 0
## 6616 6616 0 0 0 1 0 0 0 1 0 0 0 0
## 6617 6617 0 0 0 0 1 0 0 0 0 0 0 0
## 6618 6618 0 0 0 0 0 0 0 0 0 0 0 0

```

## 6619 6619	0	2	0	0	0	0	0	0	0	0	0
## 6620 6620	0	0	0	0	0	0	1	0	0	0	0
## 6621 6621	0	0	0	0	0	0	1	0	0	0	0
## 6622 6622	0	2	0	0	0	0	0	0	0	0	1
## 6623 6623	0	0	0	0	0	0	1	0	0	0	0
## 6624 6624	0	0	0	1	0	0	0	0	0	0	0
## 6625 6625	0	0	0	0	0	1	0	0	0	0	0
## 6626 6626	0	0	0	1	0	0	0	0	0	0	0
## 6627 6627	0	0	0	0	0	0	1	0	0	0	0
## 6628 6628	0	0	0	1	0	0	0	0	0	0	0
## 6629 6629	0	0	0	0	1	0	0	0	0	0	0
## 6630 6630	0	0	0	0	0	0	0	0	1	0	0
## 6631 6631	0	0	0	0	0	0	0	0	1	0	0
## 6632 6632	0	0	0	0	0	0	0	0	0	0	0
## 6633 6633	0	0	0	0	1	0	0	0	0	0	0
## 6634 6634	0	0	0	0	0	0	0	0	0	0	1
## 6635 6635	0	0	0	0	0	0	0	0	0	0	0
## 6636 6636	0	0	0	0	0	0	0	0	0	0	0
## 6637 6637	0	1	0	0	0	0	0	0	0	0	0
## 6638 6638	0	0	0	1	0	0	0	0	0	0	0
## 6639 6639	0	0	0	1	0	0	0	0	0	0	0
## 6640 6640	0	0	0	0	0	0	0	1	0	0	0
## 6641 6641	0	0	0	1	0	0	0	0	0	0	0
## 6642 6642	0	0	0	0	0	0	0	0	0	0	0
## 6643 6643	0	0	0	0	0	0	1	0	0	0	0
## 6644 6644	0	0	0	0	1	0	0	0	0	0	0
## 6645 6645	0	0	0	0	0	0	1	0	0	0	0
## 6646 6646	0	0	0	1	0	0	0	0	0	0	0
## 6647 6647	0	0	0	0	0	0	0	0	0	0	1
## 6648 6648	0	0	0	0	0	0	1	0	0	0	0
## 6649 6649	1	0	0	0	0	0	0	0	0	0	0
## 6650 6650	0	0	1	0	0	0	0	0	0	0	0
## 6651 6651	0	0	1	0	0	0	0	0	0	0	0
## 6652 6652	0	0	0	0	0	0	1	0	0	0	0
## 6653 6653	0	1	0	0	0	0	0	0	0	0	0
## 6654 6654	0	0	0	0	0	0	0	0	0	0	0
## 6655 6655	0	0	0	0	0	0	0	0	1	0	0
## 6656 6656	0	0	0	0	0	0	0	0	0	0	0
## 6657 6657	0	0	0	0	0	0	0	0	0	0	0
## 6658 6658	0	0	0	1	0	0	0	0	0	0	0
## 6659 6659	0	0	0	0	0	0	0	0	0	1	0
## 6660 6660	0	0	0	0	0	0	0	0	0	0	0
## 6661 6661	0	0	0	0	0	0	0	0	0	0	1
## 6662 6662	0	0	0	0	0	0	1	0	0	0	0
## 6663 6663	0	1	0	0	0	0	0	0	0	0	0
## 6664 6664	0	0	0	0	0	0	0	0	0	0	0
## 6665 6665	0	0	0	0	0	0	0	0	0	0	0
## 6666 6666	0	0	0	0	0	0	0	0	0	0	0
## 6667 6667	0	0	0	0	0	0	0	0	0	0	0
## 6668 6668	0	1	0	0	0	0	0	0	0	0	0
## 6669 6669	0	0	0	0	0	0	0	0	0	0	0
## 6670 6670	0	0	0	0	0	1	0	0	0	0	0
## 6671 6671	0	0	0	0	0	0	0	0	0	0	0
## 6672 6672	0	0	0	0	0	0	0	0	0	0	0

```

## 6673 6673 0 0 0 0 0 0 0 0 0 0 0 0
## 6674 6674 0 0 0 0 0 0 0 0 0 0 0 0
## 6675 6675 0 0 0 0 0 0 1 0 0 0 0 0
## 6676 6676 0 0 0 0 0 0 1 0 0 0 0 0
## 6677 6677 0 0 0 0 0 0 0 0 0 0 0 0
## 6678 6678 0 0 0 0 0 0 0 0 0 0 0 0
## 6679 6679 0 0 0 0 0 0 0 0 0 0 0 0
## 6680 6680 0 0 0 0 0 0 0 0 0 0 0 0
## 6681 6681 0 0 0 0 1 0 0 0 0 0 0 0
## 6682 6682 0 0 0 0 1 0 0 0 0 0 0 0
## 6683 6683 0 0 0 0 0 0 0 0 0 0 0 0
## 6684 6684 0 0 0 0 0 0 0 0 0 0 0 0
## 6685 6685 0 0 0 0 0 0 0 0 0 0 0 0
## 6686 6686 0 0 0 0 0 0 0 0 0 1 0 0
## 6687 6687 0 0 0 0 0 0 0 0 0 0 0 0
## 6688 6688 0 0 0 0 0 0 0 0 0 0 1 0
## 6689 6689 0 0 0 0 0 0 0 0 0 0 0 0
## 6690 6690 0 0 0 0 0 0 1 0 0 0 0 0
## 6691 6691 0 0 0 0 0 0 0 0 0 0 0 0
## 6692 6692 0 0 0 1 0 0 0 0 0 0 0 0
## 6693 6693 0 0 0 0 0 0 0 0 2 0 0 0
## 6694 6694 1 0 0 0 0 0 0 0 0 0 0 0
## 6695 6695 0 0 0 0 0 0 0 0 0 0 0 0
## 6696 6696 0 0 0 0 0 0 0 0 0 0 0 0
## 6697 6697 0 0 0 0 1 0 0 0 0 0 0 0
## 6698 6698 1 0 0 0 0 0 0 0 0 0 0 0
## 6699 6699 0 0 0 0 0 1 0 0 0 0 0 0
## 6700 6700 0 0 0 0 0 0 0 0 0 0 0 0
## 6701 6701 0 0 0 0 0 0 0 0 0 1 0 0
## 6702 6702 0 0 0 0 0 0 0 0 0 0 0 0
## 6703 6703 0 0 0 0 0 0 0 1 0 0 0 0
## 6704 6704 0 0 0 1 0 0 0 0 0 0 0 0
## 6705 6705 0 0 0 0 0 0 0 0 0 0 1 0
## 6706 6706 0 0 0 0 0 0 0 0 0 0 1 0
## 6707 6707 0 0 0 0 0 0 0 0 0 0 0 0
## 6708 6708 0 0 0 0 0 0 0 0 0 0 0 0
## 6709 6709 0 0 1 0 0 0 0 0 0 0 0 0
## 6710 6710 0 0 0 0 0 0 0 0 0 0 0 0
## 6711 6711 0 0 0 0 0 0 0 2 0 0 0 0
## 6712 6712 0 0 0 0 0 0 0 0 0 0 0 0
## 6713 6713 0 0 0 0 0 0 1 0 0 0 0 0
## 6714 6714 0 0 0 0 0 0 0 0 0 0 0 0
## 6715 6715 0 0 0 0 1 0 0 0 0 0 0 0
## 6716 6716 0 0 0 0 0 0 0 0 0 0 0 0
## 6717 6717 0 0 0 0 0 0 0 0 0 0 0 0
## 6718 6718 0 1 0 0 0 0 0 0 0 0 0 0
## 6719 6719 0 0 0 0 0 0 0 0 0 0 0 0
## 6720 6720 0 0 0 0 0 0 0 0 0 0 0 1
## 6721 6721 0 0 0 0 0 0 0 0 0 0 0 0
## 6722 6722 0 1 0 0 0 0 0 0 0 0 0 0
## 6723 6723 0 0 0 0 0 1 0 0 0 0 0 0
## 6724 6724 0 0 0 0 0 0 0 0 0 0 0 0
## 6725 6725 0 0 1 0 0 0 0 0 0 0 0 0
## 6726 6726 0 0 1 0 0 0 0 0 0 0 0 0

```

```

## 6727 6727 0 0 0 0 0 0 1 0 0 0 0 0
## 6728 6728 0 0 0 0 0 1 0 0 0 0 0 0
## 6729 6729 0 0 0 0 0 0 0 0 0 0 0 0
## 6730 6730 0 1 0 0 0 0 0 0 0 0 0 0
## 6731 6731 0 0 0 1 0 0 0 0 0 0 0 0
## 6732 6732 0 0 0 0 0 0 0 0 0 0 0 0
## 6733 6733 0 0 0 1 0 0 0 0 0 0 0 0
## 6734 6734 0 0 0 0 1 0 0 0 0 0 0 0
## 6735 6735 0 0 0 0 0 0 0 1 0 0 0 0
## 6736 6736 0 0 0 0 0 0 0 0 0 0 0 1
## 6737 6737 0 0 1 0 0 0 0 0 0 0 0 0
## 6738 6738 0 0 0 0 0 0 0 1 0 0 0 0
## 6739 6739 0 0 0 0 0 0 0 0 0 0 1 0
## 6740 6740 1 0 0 0 0 0 0 0 0 0 0 0
## 6741 6741 0 0 0 0 0 0 0 0 0 0 0 0
## 6742 6742 0 0 0 0 0 0 0 0 0 0 0 0
## 6743 6743 0 0 0 0 0 0 0 0 0 0 0 0
## 6744 6744 0 0 0 0 0 0 0 0 0 0 0 0
## 6745 6745 0 0 1 0 0 0 0 0 0 0 0 0
## 6746 6746 0 0 0 0 0 0 0 0 0 0 0 0
## 6747 6747 0 0 0 0 1 0 0 0 0 0 0 0
## 6748 6748 0 0 1 0 0 0 0 0 0 0 0 0
## 6749 6749 0 0 0 0 1 0 0 0 0 0 0 0
## 6750 6750 0 0 0 0 0 0 0 0 0 0 0 0
## 6751 6751 0 0 0 0 0 0 0 0 0 0 0 0
## 6752 6752 1 0 0 0 0 0 0 0 0 0 0 0
## 6753 6753 0 0 0 0 0 0 0 0 0 0 0 0
## 6754 6754 1 0 0 0 0 0 0 0 0 0 0 0
## 6755 6755 0 0 0 0 0 0 0 0 0 0 0 0
## 6756 6756 0 0 0 0 0 0 0 0 0 0 0 0
## 6757 6757 0 0 0 0 0 0 0 0 0 0 0 0
## 6758 6758 0 0 0 0 0 0 0 0 0 0 0 0
## 6759 6759 0 0 0 0 0 0 0 0 0 0 0 0
## 6760 6760 0 0 0 0 0 0 0 0 0 0 0 0
## 6761 6761 0 0 0 0 0 0 0 0 0 0 0 0
## 6762 6762 0 0 0 0 0 0 0 0 0 0 0 0
## 6763 6763 0 0 0 0 0 0 0 0 0 0 0 0
## 6764 6764 0 0 0 0 0 0 0 0 0 0 0 0
## 6765 6765 0 0 0 0 0 0 0 0 0 0 0 0
## 6766 6766 0 0 0 0 0 0 1 0 0 0 0 0
## 6767 6767 0 0 0 0 0 0 0 0 0 0 0 0
## 6768 6768 0 0 0 0 0 0 0 0 0 0 0 1
## 6769 6769 0 0 0 0 0 0 0 0 0 0 1 0
## 6770 6770 1 0 0 0 0 0 0 0 0 0 0 0
## 6771 6771 0 0 0 0 0 0 0 0 1 0 0 0
## 6772 6772 0 0 0 0 1 0 0 0 0 0 0 0
## 6773 6773 0 0 1 0 0 0 0 0 0 0 0 0
## 6774 6774 1 0 0 0 0 0 0 0 0 0 0 0
## 6775 6775 0 0 0 0 1 0 0 0 0 0 0 0
## 6776 6776 0 0 0 0 0 0 0 0 0 0 0 0
## 6777 6777 0 0 0 0 0 0 0 0 0 0 0 0
## 6778 6778 0 0 0 0 0 0 0 0 0 0 0 0
## 6779 6779 0 0 1 0 0 0 0 0 0 0 0 0
## 6780 6780 0 0 0 0 1 0 0 0 0 0 0 0

```

```

## 6781 6781 0 0 0 0 1 0 0 0 0 0 0 0
## 6782 6782 0 0 0 0 0 0 0 0 0 0 0 0
## 6783 6783 0 0 0 0 0 0 0 0 0 0 0 0
## 6784 6784 0 0 0 0 0 0 0 0 0 0 0 0
## 6785 6785 0 0 0 0 0 0 0 1 0 0 0 0
## 6786 6786 2 0 0 0 0 0 0 0 0 0 0 0
## 6787 6787 0 0 0 0 1 0 0 0 0 0 0 0
## 6788 6788 0 0 0 0 0 0 0 0 1 0 0 0
## 6789 6789 0 0 0 0 0 0 0 0 0 0 0 0
## 6790 6790 0 0 0 0 0 0 0 0 1 0 0 0
## 6791 6791 0 0 0 0 0 0 0 0 0 0 0 0
## 6792 6792 0 0 0 0 1 0 0 0 1 0 0 0
## 6793 6793 0 0 0 0 0 0 0 0 0 0 0 0
## 6794 6794 0 0 0 0 1 0 0 0 0 0 0 0
## 6795 6795 0 0 0 0 0 0 0 0 0 0 0 0
## 6796 6796 0 0 0 0 0 0 0 0 0 0 0 0
## 6797 6797 0 1 0 0 0 0 0 0 0 0 0 0
## 6798 6798 0 0 0 0 0 0 0 0 0 0 0 0
## 6799 6799 0 0 0 0 0 0 0 0 0 0 0 0
## 6800 6800 0 0 0 0 0 0 0 0 0 0 0 0
## 6801 6801 0 0 0 0 0 3 0 0 0 0 0 0
## 6802 6802 0 1 1 0 0 0 0 0 0 0 0 0
## 6803 6803 0 0 0 0 0 0 0 0 0 0 0 0
## 6804 6804 0 0 0 0 0 0 0 0 0 0 0 0
## 6805 6805 0 0 0 0 0 0 0 0 0 0 0 0
## 6806 6806 0 0 0 0 0 0 1 0 0 0 0 0
## 6807 6807 0 0 0 0 0 0 0 0 0 0 0 0
## 6808 6808 0 0 0 0 0 0 0 0 0 0 0 0
## 6809 6809 1 0 0 0 0 0 0 0 0 0 0 0
## 6810 6810 0 0 0 0 0 0 1 0 0 0 0 0
## 6811 6811 0 0 0 0 0 0 0 0 0 0 0 0
## 6812 6812 0 0 0 0 0 0 0 0 0 0 0 0
## 6813 6813 0 0 0 0 0 0 0 0 0 1 0 0
## 6814 6814 0 0 0 0 1 0 0 0 0 0 0 0
## 6815 6815 0 0 0 0 0 0 0 0 0 0 0 0
## 6816 6816 0 0 0 0 0 0 2 0 0 0 0 0
## 6817 6817 0 0 0 0 0 0 0 0 0 0 0 0
## 6818 6818 0 1 0 0 0 0 0 0 0 0 0 0
## 6819 6819 0 0 0 0 0 0 0 0 0 0 0 0
## 6820 6820 0 0 1 0 0 0 0 0 0 0 0 0
## 6821 6821 0 0 1 0 0 0 0 0 0 0 0 0
## 6822 6822 0 0 0 0 0 0 0 0 0 0 0 0
## 6823 6823 0 0 0 0 0 0 0 0 0 0 0 0
## 6824 6824 0 0 0 0 0 0 0 0 0 0 0 0
## 6825 6825 0 1 0 0 0 0 0 0 0 0 0 0
## 6826 6826 0 0 0 0 1 0 0 0 0 0 0 0
## 6827 6827 0 0 0 0 0 0 0 0 0 0 1 0
## 6828 6828 0 0 1 0 0 0 0 0 0 0 0 0
## 6829 6829 1 0 0 0 0 0 0 0 0 0 0 0
## 6830 6830 0 0 0 0 0 0 0 0 0 0 0 0
## 6831 6831 1 0 0 0 0 1 0 0 0 0 0 0
## 6832 6832 0 0 0 0 0 0 0 1 0 0 0 0
## 6833 6833 0 0 0 0 0 0 0 0 0 0 0 0
## 6834 6834 0 0 0 0 0 0 0 0 0 0 0 0

```

```

## 6835 6835 0 0 0 0 0 0 0 0 0 0 0 0
## 6836 6836 0 0 0 0 0 0 0 0 0 0 0 0
## 6837 6837 0 0 0 0 0 0 0 0 0 0 0 0
## 6838 6838 0 0 0 0 0 0 0 0 0 0 0 0
## 6839 6839 0 0 0 0 0 0 0 0 0 0 0 0
## 6840 6840 1 0 0 0 0 0 0 0 0 0 0 0
## 6841 6841 0 0 0 0 0 0 0 0 0 0 0 0
## 6842 6842 0 1 0 0 0 0 0 0 0 0 0 0
## 6843 6843 0 1 0 0 0 0 0 0 0 0 0 0
## 6844 6844 0 0 0 0 0 0 0 0 0 0 0 0
## 6845 6845 1 0 0 0 0 0 0 0 0 0 0 0
## 6846 6846 0 0 0 1 0 0 0 0 0 0 0 0
## 6847 6847 0 0 0 1 0 0 0 0 0 0 0 0
## 6848 6848 0 1 0 0 0 0 0 0 0 0 0 0
## 6849 6849 0 0 1 1 0 0 0 0 0 0 0 0
## 6850 6850 1 0 0 0 0 0 0 0 0 0 0 0
## 6851 6851 0 0 0 0 0 0 1 0 0 0 0 0
## 6852 6852 0 0 0 0 0 0 0 0 0 0 0 0
## 6853 6853 0 0 0 0 0 1 0 0 0 0 0 0
## 6854 6854 0 0 0 0 0 0 0 0 0 0 0 0
## 6855 6855 0 0 0 0 0 0 0 0 0 0 0 0
## 6856 6856 0 0 0 0 0 0 0 0 0 0 0 0
## 6857 6857 0 0 0 0 0 0 0 0 0 0 0 0
## 6858 6858 0 0 0 0 0 0 0 1 0 0 0 0
## 6859 6859 1 0 0 0 0 0 0 0 0 0 0 0
## 6860 6860 0 0 0 0 0 0 0 0 0 0 0 0
## 6861 6861 0 0 0 0 0 0 0 0 1 0 0 0
## 6862 6862 0 0 0 0 0 0 0 0 0 0 1 0
## 6863 6863 0 0 0 1 0 0 0 0 0 0 0 0
## 6864 6864 0 0 0 0 0 0 0 0 0 0 0 0
## 6865 6865 0 1 0 0 0 0 0 0 0 0 0 0
## 6866 6866 0 1 0 0 0 0 0 0 0 0 0 0
## 6867 6867 0 0 1 0 1 0 0 0 0 0 0 0
## 6868 6868 0 0 0 0 0 0 0 0 0 0 0 1
## 6869 6869 0 0 0 0 0 0 0 0 0 0 0 0
## 6870 6870 0 0 0 0 0 0 0 0 0 0 0 0
## 6871 6871 0 0 0 0 0 0 0 0 0 0 0 0
## 6872 6872 0 0 0 0 0 0 0 0 0 0 0 1
## 6873 6873 0 1 0 0 0 0 0 0 0 0 0 0
## 6874 6874 0 0 0 0 0 0 0 0 0 0 0 1
## 6875 6875 0 0 0 0 0 0 0 0 0 0 0 0
## 6876 6876 0 0 0 0 0 0 0 0 0 0 0 0
## 6877 6877 0 0 0 0 0 0 0 0 0 0 0 0
## 6878 6878 0 0 0 0 0 0 0 1 0 0 0 0
## 6879 6879 0 0 0 0 0 0 0 0 0 0 0 1
## 6880 6880 0 0 0 0 0 0 0 0 0 0 0 0
## 6881 6881 0 0 0 0 0 0 0 0 1 0 0 0
## 6882 6882 0 0 0 0 0 0 0 0 0 0 0 0
## 6883 6883 0 0 0 0 0 0 0 0 0 0 0 0
## 6884 6884 0 0 0 0 0 0 0 0 0 0 0 0
## 6885 6885 0 0 0 0 0 0 0 0 0 0 0 0
## 6886 6886 1 0 0 0 0 0 0 0 0 0 0 0
## 6887 6887 0 0 0 0 1 0 0 0 0 0 0 0
## 6888 6888 0 0 0 0 0 0 0 0 1 0 0 0

```

## 6889 6889	0	0	0	0	0	0	0	0	1	0	1
## 6890 6890	0	0	0	0	0	0	0	0	0	0	0
## 6891 6891	0	0	0	0	0	0	0	0	0	1	0
## 6892 6892	0	0	0	0	0	0	0	0	0	0	0
## 6893 6893	0	0	0	0	0	0	1	0	0	0	0
## 6894 6894	0	1	0	0	0	0	0	0	0	0	0
## 6895 6895	0	0	0	0	0	0	1	0	0	0	0
## 6896 6896	0	0	0	0	0	0	0	1	0	0	0
## 6897 6897	0	0	0	0	0	0	1	0	0	0	0
## 6898 6898	0	0	0	0	0	0	0	0	0	0	1
## 6899 6899	1	0	0	0	0	0	0	0	0	0	0
## 6900 6900	0	0	0	0	0	0	0	0	0	0	0
## 6901 6901	0	0	0	0	0	0	0	0	0	0	0
## 6902 6902	0	0	0	0	0	0	1	0	0	0	0
## 6903 6903	0	0	0	0	0	0	0	0	0	0	1
## 6904 6904	0	0	0	0	0	0	0	0	0	0	0
## 6905 6905	1	0	0	0	0	0	0	0	0	0	0
## 6906 6906	0	0	0	0	0	0	0	0	0	0	0
## 6907 6907	0	0	0	0	0	0	0	0	0	0	0
## 6908 6908	0	0	0	0	1	1	0	0	0	0	0
## 6909 6909	0	0	0	0	0	0	0	0	0	0	0
## 6910 6910	0	0	0	0	0	0	0	0	1	0	0
## 6911 6911	0	0	1	0	0	0	0	0	0	0	0
## 6912 6912	0	0	0	0	0	0	0	0	0	0	0
## 6913 6913	0	0	0	0	0	0	0	0	0	0	0
## 6914 6914	0	0	0	0	1	0	0	0	0	0	0
## 6915 6915	0	0	0	0	0	0	0	0	0	0	0
## 6916 6916	1	0	0	0	0	0	0	0	0	0	0
## 6917 6917	0	0	0	0	0	0	0	0	0	0	0
## 6918 6918	0	0	0	0	0	0	0	0	0	0	0
## 6919 6919	0	0	0	0	0	0	0	1	0	0	0
## 6920 6920	0	0	0	1	0	0	0	0	0	0	0
## 6921 6921	0	0	0	0	0	0	0	1	0	0	0
## 6922 6922	0	0	0	0	0	0	0	0	0	0	1
## 6923 6923	1	0	0	0	0	1	0	0	0	0	0
## 6924 6924	0	0	0	0	0	0	0	0	0	0	0
## 6925 6925	0	0	0	0	0	0	1	0	0	0	0
## 6926 6926	0	0	0	0	0	0	0	2	0	0	0
## 6927 6927	0	0	0	0	0	0	0	0	0	0	0
## 6928 6928	0	0	1	0	0	0	0	0	0	0	0
## 6929 6929	0	0	0	0	0	0	0	0	0	0	0
## 6930 6930	0	0	0	0	1	0	0	0	0	0	0
## 6931 6931	0	0	0	0	0	0	0	0	0	0	0
## 6932 6932	1	0	1	0	0	0	0	0	0	0	0
## 6933 6933	0	0	1	0	0	0	0	0	0	0	0
## 6934 6934	0	0	0	0	0	0	0	0	0	0	0
## 6935 6935	0	0	0	0	0	0	0	0	0	0	0
## 6936 6936	0	0	0	0	0	0	0	0	0	0	0
## 6937 6937	0	1	0	0	0	0	0	0	0	0	0
## 6938 6938	1	0	0	0	0	0	0	0	0	0	0
## 6939 6939	0	0	0	0	0	0	0	0	0	0	0
## 6940 6940	0	0	0	0	0	0	0	0	0	1	0
## 6941 6941	0	0	0	0	0	0	1	0	0	0	0
## 6942 6942	0	0	0	0	0	0	0	0	0	1	0

## 6943 6943	0	0	0	0	0	0	1	0	0	0	0
## 6944 6944	0	0	0	1	0	0	0	0	0	0	0
## 6945 6945	0	0	0	0	0	0	0	0	0	0	0
## 6946 6946	0	0	0	0	0	0	0	0	0	0	0
## 6947 6947	0	0	1	0	0	0	0	0	0	0	0
## 6948 6948	0	0	0	0	0	0	0	0	1	0	0
## 6949 6949	0	1	0	0	0	0	0	0	0	0	0
## 6950 6950	0	1	0	0	0	0	0	0	0	0	0
## 6951 6951	1	0	0	0	0	0	0	0	0	0	0
## 6952 6952	0	0	0	0	0	0	0	0	0	0	0
## 6953 6953	0	0	0	0	0	0	0	0	0	0	0
## 6954 6954	0	0	0	0	0	0	0	0	0	0	0
## 6955 6955	0	0	0	0	0	0	0	0	0	0	0
## 6956 6956	0	0	0	1	0	0	0	1	0	0	0
## 6957 6957	1	0	0	0	0	0	0	0	0	0	0
## 6958 6958	0	0	0	0	0	0	0	0	0	0	0
## 6959 6959	0	0	1	0	0	0	0	0	0	0	0
## 6960 6960	0	0	0	0	0	0	0	0	0	0	0
## 6961 6961	0	0	0	0	0	0	0	0	0	1	0
## 6962 6962	0	0	0	0	0	0	0	0	0	0	0
## 6963 6963	0	1	0	0	0	0	0	0	0	0	0
## 6964 6964	0	0	0	0	0	0	0	0	0	0	0
## 6965 6965	0	0	0	0	0	0	0	0	1	0	0
## 6966 6966	0	0	0	0	0	0	0	0	0	0	0
## 6967 6967	0	0	0	0	0	0	0	0	0	0	0
## 6968 6968	0	0	0	0	0	0	0	0	0	0	0
## 6969 6969	0	0	0	0	0	0	0	0	0	0	0
## 6970 6970	0	0	0	0	0	0	0	0	0	0	0
## 6971 6971	0	0	1	0	0	0	0	0	0	0	0
## 6972 6972	0	0	0	0	1	0	0	0	0	0	0
## 6973 6973	0	0	0	0	1	0	0	0	0	0	0
## 6974 6974	0	0	0	0	0	0	0	2	0	0	0
## 6975 6975	0	0	0	0	0	0	0	0	0	0	0
## 6976 6976	0	0	0	0	0	0	0	0	0	0	0
## 6977 6977	0	0	0	1	0	0	0	0	0	0	0
## 6978 6978	0	0	0	1	0	0	0	0	0	0	0
## 6979 6979	0	0	0	0	0	0	0	0	0	0	0
## 6980 6980	0	0	0	0	0	0	0	0	0	0	0
## 6981 6981	0	0	0	0	0	0	0	0	0	0	0
## 6982 6982	0	0	0	0	0	0	0	0	0	0	0
## 6983 6983	0	0	0	1	0	0	0	0	0	0	0
## 6984 6984	0	0	0	0	0	0	0	0	0	0	0
## 6985 6985	0	0	1	0	0	0	0	0	0	0	0
## 6986 6986	0	0	1	0	0	0	0	0	0	0	0
## 6987 6987	0	1	0	0	0	0	0	0	0	0	0
## 6988 6988	0	0	0	1	0	0	0	0	0	0	0
## 6989 6989	0	0	1	0	0	0	0	0	0	0	0
## 6990 6990	0	0	0	0	1	0	0	0	0	0	0
## 6991 6991	0	0	0	1	0	0	0	0	0	0	0
## 6992 6992	0	1	0	0	0	0	0	0	0	0	0
## 6993 6993	0	0	0	0	0	0	0	0	0	0	0
## 6994 6994	0	0	0	0	0	0	0	0	0	1	0
## 6995 6995	0	0	0	1	0	0	0	0	0	0	0
## 6996 6996	0	0	0	0	0	0	0	0	0	0	0

## 6997 6997	0	1	0	0	0	0	0	0	0	0	0
## 6998 6998	0	0	0	1	0	0	0	0	0	0	0
## 6999 6999	0	0	0	0	0	0	0	0	0	1	0
## 7000 7000	1	0	0	0	0	0	0	0	0	0	0
## 7001 7001	1	0	0	0	0	0	0	0	0	0	0
## 7002 7002	0	0	0	0	0	0	0	0	0	0	0
## 7003 7003	0	0	0	0	1	0	0	0	0	0	0
## 7004 7004	0	0	0	0	1	0	0	0	0	0	0
## 7005 7005	0	0	0	0	0	0	0	0	0	0	0
## 7006 7006	0	0	0	0	0	0	0	0	0	0	0
## 7007 7007	0	0	0	0	0	0	0	0	0	0	0
## 7008 7008	0	0	0	0	0	0	0	0	0	0	0
## 7009 7009	0	0	0	0	0	0	0	0	1	0	0
## 7010 7010	0	0	0	0	0	0	1	0	0	0	0
## 7011 7011	0	0	0	0	0	0	0	0	0	0	0
## 7012 7012	0	0	0	0	0	0	1	0	0	0	0
## 7013 7013	0	1	0	0	0	0	0	0	0	0	0
## 7014 7014	0	0	0	0	0	0	0	1	0	0	0
## 7015 7015	0	0	0	0	0	0	0	0	0	0	0
## 7016 7016	0	0	0	0	0	0	1	0	0	0	0
## 7017 7017	0	0	0	0	0	0	0	0	0	0	0
## 7018 7018	0	0	0	0	0	0	0	0	0	0	0
## 7019 7019	0	0	0	0	0	0	0	0	0	0	0
## 7020 7020	0	0	0	0	0	0	0	0	0	0	0
## 7021 7021	0	0	0	0	0	0	0	0	0	0	0
## 7022 7022	0	0	2	0	0	0	0	0	0	0	0
## 7023 7023	0	0	0	0	1	0	0	0	0	0	0
## 7024 7024	0	0	1	0	0	0	0	0	0	0	0
## 7025 7025	0	0	0	0	0	0	0	0	0	0	0
## 7026 7026	0	0	0	0	0	0	0	0	0	0	1
## 7027 7027	0	1	0	0	0	0	0	0	0	0	0
## 7028 7028	0	0	0	0	0	0	0	0	0	0	0
## 7029 7029	0	0	0	0	0	0	0	0	0	0	0
## 7030 7030	0	0	0	0	0	0	0	0	0	0	0
## 7031 7031	0	0	0	0	0	0	0	0	0	0	0
## 7032 7032	0	1	0	0	0	0	0	0	0	0	0
## 7033 7033	0	0	0	0	0	0	0	0	0	0	1
## 7034 7034	0	1	0	0	0	0	0	0	0	0	0
## 7035 7035	0	1	0	0	0	0	0	0	0	0	0
## 7036 7036	0	0	1	0	0	0	0	0	0	0	0
## 7037 7037	0	0	0	0	0	0	0	0	0	0	1
## 7038 7038	0	1	0	0	0	0	0	0	0	0	0
## 7039 7039	0	1	0	0	0	0	0	0	0	0	2
## 7040 7040	0	0	0	0	0	0	0	0	2	0	0
## 7041 7041	0	0	0	1	0	0	0	0	0	0	0
## 7042 7042	0	0	0	0	0	0	0	0	0	1	0
## 7043 7043	0	0	0	2	0	0	0	0	0	0	0
## 7044 7044	0	0	0	0	0	0	0	0	0	0	0
## 7045 7045	0	0	0	0	0	0	0	0	0	0	0
## 7046 7046	0	0	0	0	0	0	0	0	0	0	1
## 7047 7047	0	0	0	0	0	0	0	0	0	0	0
## 7048 7048	0	0	0	0	0	0	0	0	0	0	0
## 7049 7049	0	0	0	0	1	0	0	0	0	0	0
## 7050 7050	0	0	0	0	0	0	0	0	1	0	1

## 7051 7051	0	0	0	0	0	0	0	0	0	0	1
## 7052 7052	0	0	0	0	0	0	0	0	0	0	0
## 7053 7053	0	0	0	0	0	0	0	0	1	0	0
## 7054 7054	0	0	1	1	1	0	0	0	0	0	0
## 7055 7055	0	1	0	0	0	0	0	0	0	0	0
## 7056 7056	0	0	0	0	0	0	0	0	0	0	0
## 7057 7057	0	0	0	0	0	0	0	0	1	0	0
## 7058 7058	0	0	0	0	0	0	0	0	0	0	0
## 7059 7059	0	0	0	0	0	1	2	0	0	0	0
## 7060 7060	0	0	0	0	0	0	0	0	0	0	0
## 7061 7061	0	1	0	0	0	0	0	0	0	0	0
## 7062 7062	0	0	0	0	0	0	2	1	0	1	0
## 7063 7063	0	0	0	1	0	0	0	0	0	0	0
## 7064 7064	0	0	1	0	0	0	0	0	0	0	0
## 7065 7065	1	0	0	0	0	0	0	0	0	0	0
## 7066 7066	0	0	0	0	0	0	1	1	0	0	0
## 7067 7067	0	0	0	1	0	0	0	0	0	0	0
## 7068 7068	0	0	0	0	0	0	0	0	1	0	1
## 7069 7069	0	0	0	0	0	0	0	0	2	0	0
## 7070 7070	0	0	0	0	0	0	0	0	0	0	0
## 7071 7071	0	0	0	1	0	0	0	0	0	0	0
## 7072 7072	0	0	0	0	0	0	0	0	0	0	0
## 7073 7073	0	0	0	1	0	0	0	0	0	0	0
## 7074 7074	0	0	0	0	0	0	0	0	0	0	0
## 7075 7075	0	0	0	0	0	0	0	0	0	0	0
## 7076 7076	0	0	0	0	0	0	0	0	0	1	0
## 7077 7077	0	0	0	0	1	0	0	0	0	0	0
## 7078 7078	1	0	0	0	0	0	0	0	0	0	0
## 7079 7079	0	1	0	0	0	0	0	0	0	0	0
## 7080 7080	0	0	0	0	0	0	1	0	0	0	0
## 7081 7081	0	0	0	0	0	0	0	0	0	0	0
## 7082 7082	0	1	0	0	0	0	0	0	0	0	0
## 7083 7083	0	0	0	0	0	0	0	0	0	0	0
## 7084 7084	0	0	0	0	0	0	0	0	0	0	0
## 7085 7085	0	0	0	0	0	0	0	0	0	0	1
## 7086 7086	0	0	0	0	0	0	0	0	0	0	1
## 7087 7087	0	0	0	0	0	0	0	0	0	0	0
## 7088 7088	0	0	0	0	0	0	1	0	0	0	0
## 7089 7089	0	0	1	0	0	0	0	0	0	0	0
## 7090 7090	0	0	0	0	0	0	0	0	0	0	0
## 7091 7091	0	0	0	0	0	0	0	0	0	0	0
## 7092 7092	0	0	0	0	0	0	0	0	0	0	0
## 7093 7093	0	0	0	0	0	0	0	0	0	0	0
## 7094 7094	0	0	0	0	0	0	0	0	0	0	1
## 7095 7095	0	0	0	0	0	1	0	0	0	0	0
## 7096 7096	0	0	0	0	0	0	0	0	0	0	0
## 7097 7097	0	0	0	0	0	0	1	0	0	0	0
## 7098 7098	0	0	0	0	0	0	0	1	0	0	0
## 7099 7099	0	0	0	0	0	0	0	1	0	0	0
## 7100 7100	0	0	0	0	0	0	0	0	0	1	0
## 7101 7101	0	0	0	1	0	0	0	0	0	0	0
## 7102 7102	0	1	0	0	0	0	0	0	0	0	0
## 7103 7103	0	0	0	0	0	0	0	0	0	0	0
## 7104 7104	0	0	0	0	0	0	0	0	0	0	0

## 7105	7105	0	0	0	0	0	0	1	0	0	0	0
## 7106	7106	1	0	0	0	0	0	0	0	0	0	0
## 7107	7107	0	0	0	0	0	0	1	0	0	0	0
## 7108	7108	0	1	0	0	0	0	0	0	0	0	0
## 7109	7109	1	0	0	0	0	0	0	0	0	0	0
## 7110	7110	0	0	0	0	0	0	0	0	0	0	0
## 7111	7111	0	0	0	0	0	0	1	0	0	0	0
## 7112	7112	0	0	1	0	0	0	0	0	0	0	0
## 7113	7113	0	0	0	1	0	0	0	0	0	0	0
## 7114	7114	0	0	0	0	0	0	0	0	0	0	1
## 7115	7115	0	1	0	0	0	0	0	0	0	0	0
## 7116	7116	0	0	0	0	0	0	0	0	0	1	0
## 7117	7117	0	0	0	0	0	0	0	0	0	0	0
## 7118	7118	0	0	0	0	0	0	0	0	0	0	0
## 7119	7119	0	0	0	0	0	0	0	0	0	0	0
## 7120	7120	0	0	0	0	0	0	0	0	0	0	1
## 7121	7121	0	0	0	0	0	0	0	0	1	0	0
## 7122	7122	0	0	0	0	0	0	1	0	0	0	0
## 7123	7123	0	0	0	0	0	0	0	0	1	0	0
## 7124	7124	0	0	0	0	0	0	0	0	0	0	0
## 7125	7125	0	0	0	0	0	0	0	0	0	0	0
## 7126	7126	0	0	0	0	0	0	0	1	0	0	0
## 7127	7127	0	1	0	0	0	0	0	0	0	0	0
## 7128	7128	0	0	0	0	0	0	0	0	0	0	0
## 7129	7129	0	0	0	1	0	0	0	0	0	0	0
## 7130	7130	0	0	0	0	0	0	0	0	0	0	0
## 7131	7131	0	0	1	0	0	0	0	0	0	0	0
## 7132	7132	0	0	0	0	0	0	0	0	0	0	0
## 7133	7133	0	0	0	0	0	0	0	0	1	0	0
## 7134	7134	0	0	0	0	0	0	0	0	0	0	0
## 7135	7135	0	0	0	0	0	0	0	0	0	0	0
## 7136	7136	0	0	1	0	0	0	0	0	0	0	0
## 7137	7137	0	0	0	0	0	0	0	0	0	0	0
## 7138	7138	0	0	0	0	0	0	0	0	0	1	0
## 7139	7139	1	0	0	0	0	0	0	0	0	0	0
## 7140	7140	0	0	0	0	0	0	0	0	0	0	1
## 7141	7141	0	1	0	0	0	0	0	0	0	0	0
## 7142	7142	0	0	0	0	0	0	0	0	0	0	0
## 7143	7143	0	0	0	0	0	0	0	0	0	0	0
## 7144	7144	1	0	0	0	0	0	0	0	0	0	0
## 7145	7145	1	0	1	0	0	0	0	0	0	0	0
## 7146	7146	0	0	0	0	0	0	0	0	0	0	0
## 7147	7147	0	0	0	0	0	0	0	0	0	0	0
## 7148	7148	0	0	0	0	0	1	0	0	0	0	0
## 7149	7149	0	1	0	0	0	0	0	0	0	0	0
## 7150	7150	0	0	0	0	0	0	0	0	0	0	0
## 7151	7151	0	0	0	0	0	0	0	0	0	0	0
## 7152	7152	0	0	0	0	0	0	0	0	0	0	0
## 7153	7153	0	0	0	0	0	0	0	0	0	0	0
## 7154	7154	0	0	0	0	0	0	0	0	0	1	0
## 7155	7155	0	1	0	0	0	0	0	0	0	0	0
## 7156	7156	0	0	0	0	1	0	0	0	0	0	0
## 7157	7157	0	0	0	0	0	0	0	0	0	0	0
## 7158	7158	0	0	0	0	0	0	0	0	0	0	0

```

## 7159 7159 0 0 0 0 1 0 0 0 0 0 0 0
## 7160 7160 0 0 0 0 0 0 0 0 0 0 0 0
## 7161 7161 0 0 0 0 0 0 0 0 0 0 0 0
## 7162 7162 0 0 0 0 0 1 0 0 0 0 0 0
## 7163 7163 1 0 0 0 0 0 0 0 0 0 0 0
## 7164 7164 0 0 0 0 0 0 0 0 0 0 0 0
## 7165 7165 0 0 0 0 0 0 0 0 0 0 0 0
## 7166 7166 0 1 0 0 0 0 0 0 0 0 0 0
## 7167 7167 0 0 0 0 1 0 0 0 0 0 0 0
## 7168 7168 0 0 0 0 0 0 0 0 0 0 0 1
## 7169 7169 0 0 1 0 0 0 0 0 0 0 0 0
## 7170 7170 0 0 0 1 0 0 0 0 0 0 0 0
## 7171 7171 0 0 0 0 0 0 0 0 0 0 0 0
## 7172 7172 0 0 0 0 0 0 0 0 0 0 0 0
## 7173 7173 0 0 0 0 0 0 0 0 0 0 0 0
## 7174 7174 0 0 0 0 0 0 0 0 0 0 0 0
## 7175 7175 0 0 0 0 0 0 0 0 0 0 0 0
## 7176 7176 0 1 0 0 0 0 0 0 0 0 0 0
## 7177 7177 0 0 0 0 0 0 0 0 0 0 0 0
## 7178 7178 0 0 0 0 0 0 0 0 0 0 0 0
## 7179 7179 0 0 0 0 0 0 0 0 0 0 0 0
## 7180 7180 0 0 0 0 0 0 0 0 0 0 0 0
## 7181 7181 0 0 0 0 0 0 0 0 0 0 0 0
## 7182 7182 0 0 0 0 0 0 0 0 0 0 0 0
## 7183 7183 0 0 0 0 0 0 0 0 0 0 0 0
## 7184 7184 0 0 0 0 0 0 0 0 0 0 0 0
## 7185 7185 0 0 0 0 0 0 0 0 0 0 0 0
## 7186 7186 0 0 0 0 0 0 0 0 0 0 0 0
## 7187 7187 0 0 0 0 0 0 0 0 0 0 0 0
## 7188 7188 0 0 0 0 0 0 1 0 0 0 0 0
## 7189 7189 0 0 0 0 0 0 0 0 0 0 0 0
## 7190 7190 0 0 0 0 0 0 0 0 0 0 0 0
## 7191 7191 0 0 0 0 0 0 0 0 0 0 0 0
## 7192 7192 0 0 0 0 0 0 1 0 0 0 0 0
## 7193 7193 0 0 0 0 0 0 0 0 0 0 0 0
## 7194 7194 0 0 0 0 0 0 0 0 0 0 0 0
## 7195 7195 0 0 0 0 0 0 0 0 0 0 0 0
## 7196 7196 0 0 0 0 0 0 0 0 0 0 0 0
## 7197 7197 0 0 0 0 0 0 0 0 0 0 0 1
## 7198 7198 0 0 0 0 0 0 0 0 0 0 0 1
## 7199 7199 0 0 0 0 0 0 0 0 0 0 0 0
## 7200 7200 0 0 0 0 0 0 0 0 0 0 0 0
## 7201 7201 0 0 0 0 0 0 0 0 0 0 0 0
## 7202 7202 0 0 0 0 0 0 0 0 0 0 0 1
## 7203 7203 0 0 0 0 0 0 0 0 0 0 0 0
## 7204 7204 0 0 0 0 0 0 0 0 0 0 0 0
## 7205 7205 0 0 0 0 0 0 0 0 1 0 0 0
## 7206 7206 0 0 0 0 0 0 1 0 0 0 0 0
## 7207 7207 0 0 0 0 0 0 0 0 0 0 0 0
## 7208 7208 0 0 0 0 0 0 0 0 0 0 0 0
## 7209 7209 0 0 0 0 0 0 0 0 0 0 0 0
## 7210 7210 0 0 0 0 0 0 0 0 0 0 0 1
## 7211 7211 0 0 0 0 0 1 0 0 0 0 0 0
## 7212 7212 0 0 1 0 0 0 0 0 0 0 0 0

```

##	7213	7213	1	0	0	1	0	0	0	0	0	0
##	7214	7214	0	0	1	0	0	0	0	0	0	0
##	7215	7215	0	0	0	0	0	0	1	0	0	0
##	7216	7216	0	1	0	0	0	0	0	0	0	0
##	7217	7217	0	0	0	0	0	0	0	0	0	0
##	7218	7218	0	0	0	0	0	0	0	0	1	0
##	7219	7219	0	0	0	0	0	0	0	0	0	0
##	7220	7220	0	0	0	1	0	0	0	0	0	0
##	7221	7221	0	0	0	0	0	0	0	0	0	0
##	7222	7222	0	0	1	0	0	0	0	0	0	0
##	7223	7223	0	0	1	0	0	0	0	0	0	0
##	7224	7224	0	0	0	0	0	0	0	0	0	1
##	7225	7225	0	0	0	0	0	0	0	1	0	0
##	7226	7226	0	0	0	0	0	0	0	0	0	0
##	7227	7227	0	0	0	0	0	0	0	0	0	0
##	7228	7228	0	0	0	0	0	0	0	0	1	0
##	7229	7229	0	0	0	0	0	0	0	0	0	0
##	7230	7230	0	0	0	0	0	0	0	0	2	0
##	7231	7231	1	0	0	0	0	0	0	0	0	0
##	7232	7232	0	0	0	0	0	0	0	0	0	1
##	7233	7233	2	0	1	0	0	0	0	0	0	0
##	7234	7234	0	0	0	0	1	0	0	0	0	0
##	7235	7235	0	0	0	0	0	0	0	0	0	0
##	7236	7236	0	0	0	0	0	0	0	0	0	0
##	7237	7237	0	0	0	0	0	0	0	0	0	0
##	7238	7238	0	0	1	0	0	0	0	0	0	0
##	7239	7239	0	0	1	0	0	0	0	0	0	0
##	7240	7240	0	0	0	0	0	0	0	0	0	0
##	7241	7241	0	0	0	0	0	0	0	0	0	0
##	7242	7242	0	0	0	0	1	0	0	0	0	0
##	7243	7243	0	0	0	0	0	0	0	0	0	0
##	7244	7244	0	0	0	0	0	0	0	0	0	0
##	7245	7245	0	0	0	0	0	0	0	0	0	1
##	7246	7246	0	0	0	0	0	0	0	0	0	0
##	7247	7247	0	0	0	0	0	0	0	0	1	0
##	7248	7248	0	0	0	0	0	0	0	0	1	0
##	7249	7249	0	0	0	0	0	0	0	0	0	0
##	7250	7250	0	0	1	0	0	0	0	0	0	0
##	7251	7251	0	0	0	0	0	1	0	0	0	0
##	7252	7252	0	0	0	0	1	0	0	0	0	0
##	7253	7253	0	0	0	0	0	0	0	0	1	0
##	7254	7254	0	0	1	0	0	0	0	0	0	0
##	7255	7255	0	0	0	1	0	0	0	0	0	0
##	7256	7256	0	0	0	0	0	0	1	0	0	0
##	7257	7257	0	0	0	0	0	0	0	0	0	0
##	7258	7258	0	0	0	0	1	0	0	0	0	0
##	7259	7259	0	0	0	0	0	0	0	0	0	0
##	7260	7260	0	0	0	0	0	0	0	0	0	0
##	7261	7261	0	1	0	0	0	0	0	0	0	0
##	7262	7262	0	0	0	0	0	0	1	0	0	0
##	7263	7263	0	0	0	0	0	0	0	0	0	0
##	7264	7264	0	0	0	0	0	0	0	0	0	0
##	7265	7265	0	0	0	0	0	0	0	0	0	0
##	7266	7266	0	0	0	0	0	0	0	0	0	0

```

## 7267 7267 0 0 0 0 0 0 0 0 0 0 0 0
## 7268 7268 0 0 0 0 0 0 1 0 0 0 0 0
## 7269 7269 0 0 0 0 0 0 0 0 0 0 0 0
## 7270 7270 0 0 1 0 0 0 0 0 0 0 0 0
## 7271 7271 0 0 1 0 0 0 0 0 0 0 0 0
## 7272 7272 0 0 1 0 0 0 0 0 0 0 0 0
## 7273 7273 0 0 0 0 0 0 0 0 0 0 0 0
## 7274 7274 0 1 0 0 0 0 0 0 1 0 0 0
## 7275 7275 0 0 0 0 0 0 0 0 0 0 0 0
## 7276 7276 0 1 0 0 0 0 0 0 0 0 0 0
## 7277 7277 0 0 0 0 0 0 0 0 0 0 0 0
## 7278 7278 0 0 0 0 0 0 0 0 0 0 0 0
## 7279 7279 0 1 0 0 0 0 0 0 0 0 0 0
## 7280 7280 1 0 0 0 0 0 0 0 0 0 0 0
## 7281 7281 0 0 0 0 0 0 0 0 0 0 0 0
## 7282 7282 0 0 0 0 0 0 0 0 0 1 0 0
## 7283 7283 0 0 0 0 0 0 0 1 0 0 0 0
## 7284 7284 0 0 0 0 0 0 1 0 0 0 1 0
## 7285 7285 0 0 0 0 0 0 0 0 0 0 0 0
## 7286 7286 0 1 0 0 0 0 0 0 0 0 0 0
## 7287 7287 0 0 0 1 0 0 0 0 0 0 0 0
## 7288 7288 0 0 0 0 1 0 0 0 0 0 0 0
## 7289 7289 0 0 1 0 0 0 0 0 0 0 0 0
## 7290 7290 0 0 0 0 0 0 1 0 0 0 0 0
## 7291 7291 0 0 0 0 0 0 0 0 0 0 0 0
## 7292 7292 0 0 0 0 0 0 0 0 0 0 0 0
## 7293 7293 0 0 0 0 0 0 0 0 0 0 0 0
## 7294 7294 0 0 0 0 1 0 0 0 0 0 0 0
## 7295 7295 0 0 0 0 0 0 0 0 0 0 0 0
## 7296 7296 0 0 0 0 0 0 0 0 0 0 0 0
## 7297 7297 1 0 0 0 0 0 0 0 0 0 0 0
## 7298 7298 0 0 0 0 0 0 0 0 0 0 0 0
## 7299 7299 0 0 0 0 0 0 0 0 0 0 0 0
## 7300 7300 0 1 0 0 0 0 0 0 0 0 0 0
## 7301 7301 0 0 0 0 0 0 0 0 0 0 0 0
## 7302 7302 0 0 0 1 0 0 0 0 0 0 0 0
## 7303 7303 0 0 0 0 0 0 1 0 0 0 0 0
## 7304 7304 0 0 0 0 0 0 0 0 0 0 0 0
## 7305 7305 0 0 0 0 0 0 0 0 0 0 0 0
## 7306 7306 0 0 0 0 0 0 0 0 0 0 0 0
## 7307 7307 0 0 0 0 1 0 0 0 0 0 0 0
## 7308 7308 0 0 1 0 0 0 0 0 0 0 0 0
## 7309 7309 0 0 1 0 0 0 0 0 0 0 0 0
## 7310 7310 0 0 0 0 0 0 0 0 0 0 0 0
## 7311 7311 0 0 0 0 0 0 0 1 0 0 0 0
## 7312 7312 0 0 0 1 0 0 0 0 0 0 0 0
## 7313 7313 0 0 0 0 0 0 0 0 0 0 0 0
## 7314 7314 0 0 1 0 0 0 0 0 0 0 0 0
## 7315 7315 0 0 0 0 0 0 0 1 0 0 0 0
## 7316 7316 0 0 0 0 0 0 0 0 0 0 0 0
## 7317 7317 0 0 0 0 0 0 0 1 0 0 0 0
## 7318 7318 0 0 0 0 0 0 0 0 0 0 0 0
## 7319 7319 0 0 0 0 0 0 0 0 0 0 0 0
## 7320 7320 0 0 0 0 0 0 0 0 0 0 0 0

```

```

## 7321 7321 0 0 0 0 0 0 1 0 0 0 0 0
## 7322 7322 0 0 0 0 0 0 0 0 0 0 0 1
## 7323 7323 0 0 1 0 0 0 0 0 0 0 0 0
## 7324 7324 0 1 0 0 0 0 0 0 0 0 0 0
## 7325 7325 0 0 0 0 0 0 0 0 0 0 0 0
## 7326 7326 0 0 0 0 0 0 0 0 0 0 0 0
## 7327 7327 0 0 0 0 0 0 0 0 0 0 0 0
## 7328 7328 0 0 0 0 0 0 0 1 0 0 0 0
## 7329 7329 0 1 0 0 0 0 0 0 0 0 0 0
## 7330 7330 0 0 0 0 0 0 0 0 0 0 0 0
## 7331 7331 0 0 0 0 0 0 0 0 0 0 0 0
## 7332 7332 0 0 0 0 0 0 0 0 0 0 0 0
## 7333 7333 0 0 0 0 0 0 0 1 0 0 0 0
## 7334 7334 1 0 0 0 0 0 0 0 0 0 0 0
## 7335 7335 1 0 0 0 0 0 0 0 0 0 0 0
## 7336 7336 0 0 0 0 0 0 0 0 0 0 0 0
## 7337 7337 0 0 1 0 0 0 0 0 0 0 0 0
## 7338 7338 0 1 0 0 0 0 0 0 0 0 0 0
## 7339 7339 0 0 0 0 0 0 0 0 0 0 0 0
## 7340 7340 0 0 0 0 0 0 0 0 0 0 0 0
## 7341 7341 0 0 0 0 0 0 0 0 0 0 0 0
## 7342 7342 0 0 1 0 0 0 0 0 0 0 0 0
## 7343 7343 0 0 0 0 0 0 0 0 0 0 1 0
## 7344 7344 0 1 0 0 1 0 1 0 0 0 0 0
## 7345 7345 0 1 0 0 0 0 0 0 0 0 0 0
## 7346 7346 0 0 0 0 0 0 0 0 0 0 0 0
## 7347 7347 0 0 0 0 0 0 0 0 0 0 1 0
## 7348 7348 0 0 0 0 0 0 0 0 0 0 0 0
## 7349 7349 0 0 0 0 0 0 0 0 0 0 0 0
## 7350 7350 1 0 0 0 0 0 0 1 0 0 0 0
## 7351 7351 0 0 0 0 0 0 0 0 0 0 0 0
## 7352 7352 0 0 0 1 0 0 0 0 0 0 0 0
## 7353 7353 0 1 0 1 0 0 0 0 0 0 0 0
## 7354 7354 0 0 0 0 0 0 1 0 0 0 0 0
## 7355 7355 0 0 0 0 1 0 0 1 0 0 0 0
## 7356 7356 0 0 0 0 1 0 0 0 0 0 0 0
## 7357 7357 2 0 0 0 0 0 0 0 0 0 0 0
## 7358 7358 0 0 0 0 0 0 0 0 0 0 0 0
## 7359 7359 0 0 0 0 0 0 1 0 0 0 0 0
## 7360 7360 0 0 0 0 0 0 0 0 0 0 0 0
## 7361 7361 0 1 0 0 0 0 0 0 0 0 0 0
## 7362 7362 0 0 0 0 0 0 0 0 0 0 0 0
## 7363 7363 0 0 0 0 0 0 0 0 0 0 0 0
## 7364 7364 0 0 0 0 0 0 0 0 0 0 0 0
## 7365 7365 0 0 0 0 0 0 0 0 0 0 0 1
## 7366 7366 0 0 0 0 0 0 0 0 0 1 0 0
## 7367 7367 0 0 0 1 0 0 0 0 0 0 0 0
## 7368 7368 0 0 0 0 0 0 0 0 0 0 1 0
## 7369 7369 1 0 0 0 0 0 0 0 0 0 0 0
## 7370 7370 1 0 0 0 0 0 0 0 0 0 0 0
## 7371 7371 0 0 0 0 0 0 0 0 0 0 0 0
## 7372 7372 0 0 0 0 0 0 0 0 0 0 0 0
## 7373 7373 0 0 1 0 0 0 0 0 0 0 0 0
## 7374 7374 0 0 0 0 0 0 0 0 0 0 0 0

```

## 7375	7375	0	0	0	0	0	0	0	0	0	0	0
## 7376	7376	0	0	0	0	0	0	0	0	0	0	0
## 7377	7377	0	0	0	1	0	0	0	0	0	0	0
## 7378	7378	0	0	0	1	0	0	0	0	0	0	0
## 7379	7379	0	0	0	0	0	0	0	0	1	0	0
## 7380	7380	0	0	0	0	0	0	0	0	0	0	0
## 7381	7381	0	0	0	1	0	0	0	0	0	0	0
## 7382	7382	0	0	0	0	0	0	0	0	0	0	0
## 7383	7383	0	0	0	0	0	0	0	0	0	0	0
## 7384	7384	1	0	0	0	0	0	0	0	0	0	0
## 7385	7385	0	0	0	1	0	0	0	0	0	0	0
## 7386	7386	0	0	0	1	0	0	0	0	0	0	0
## 7387	7387	0	0	0	0	0	1	0	0	0	0	0
## 7388	7388	0	0	1	0	0	0	0	0	0	0	0
## 7389	7389	1	0	1	0	0	0	0	0	0	0	0
## 7390	7390	0	1	0	0	0	0	0	0	0	0	0
## 7391	7391	0	0	0	0	0	0	0	0	0	0	0
## 7392	7392	0	0	0	1	0	0	0	0	0	0	0
## 7393	7393	0	0	1	0	0	0	0	0	0	0	0
## 7394	7394	0	0	0	0	0	0	1	0	0	0	0
## 7395	7395	0	0	0	0	0	0	0	0	0	0	0
## 7396	7396	0	1	0	0	0	0	0	0	0	0	0
## 7397	7397	0	0	0	0	0	0	0	0	0	0	0
## 7398	7398	0	0	0	0	0	0	0	0	0	0	0
## 7399	7399	0	0	0	0	0	0	0	0	0	0	0
## 7400	7400	1	0	0	0	0	0	0	0	0	0	0
## 7401	7401	0	0	0	0	0	0	2	0	0	0	0
## 7402	7402	0	0	0	0	0	0	0	0	0	0	0
## 7403	7403	0	0	0	0	1	0	0	0	0	0	0
## 7404	7404	0	0	0	0	0	0	0	0	0	0	0
## 7405	7405	0	0	0	0	0	0	0	0	0	0	0
## 7406	7406	1	0	0	0	0	0	0	0	0	0	0
## 7407	7407	0	0	0	0	0	0	0	0	0	0	0
## 7408	7408	0	0	0	0	0	0	0	0	0	0	0
## 7409	7409	0	0	0	0	0	0	0	0	0	0	0
## 7410	7410	0	0	0	0	0	0	0	0	0	1	0
## 7411	7411	0	0	0	0	0	0	0	0	0	0	0
## 7412	7412	0	0	0	0	0	0	0	0	0	0	0
## 7413	7413	0	0	1	0	0	0	0	0	0	0	0
## 7414	7414	0	0	0	1	0	0	0	0	0	0	0
## 7415	7415	0	1	0	0	0	0	0	0	0	0	0
## 7416	7416	0	0	0	0	0	0	0	0	0	0	0
## 7417	7417	0	0	1	0	0	0	0	0	0	0	0
## 7418	7418	0	0	0	1	0	0	0	0	0	0	0
## 7419	7419	0	1	0	0	0	0	0	0	0	0	0
## 7420	7420	0	0	0	0	0	0	0	0	0	0	0
## 7421	7421	1	0	0	0	0	0	0	0	0	0	0
## 7422	7422	0	0	0	0	0	0	0	0	0	0	0
## 7423	7423	0	0	0	0	0	1	0	0	0	0	0
## 7424	7424	0	0	0	0	0	0	0	0	0	0	0
## 7425	7425	0	0	0	0	0	0	0	0	0	0	0
## 7426	7426	0	0	0	0	0	0	0	0	0	0	0
## 7427	7427	0	0	0	0	0	0	0	0	0	0	0
## 7428	7428	0	0	0	0	0	0	0	0	0	0	0

## 7429	7429	0	0	0	0	0	0	0	0	0	1
## 7430	7430	0	0	0	0	0	1	0	0	0	0
## 7431	7431	0	0	0	0	0	1	0	0	0	0
## 7432	7432	0	0	0	1	0	0	0	0	0	0
## 7433	7433	1	0	0	1	0	0	0	0	0	0
## 7434	7434	0	0	0	0	0	0	1	0	0	0
## 7435	7435	0	0	0	0	0	0	0	0	0	0
## 7436	7436	0	0	1	0	0	0	0	1	0	0
## 7437	7437	0	0	0	0	0	0	0	0	0	0
## 7438	7438	0	0	0	0	0	0	0	0	0	0
## 7439	7439	0	0	0	0	0	0	0	0	0	1
## 7440	7440	0	0	0	0	0	0	0	0	0	0
## 7441	7441	0	0	0	0	1	0	0	0	0	0
## 7442	7442	0	0	0	0	0	0	0	0	0	0
## 7443	7443	0	0	0	0	0	0	0	0	0	0
## 7444	7444	0	0	0	0	0	0	0	0	0	0
## 7445	7445	0	0	0	0	0	0	0	0	0	0
## 7446	7446	0	0	0	0	0	0	0	0	0	0
## 7447	7447	0	0	0	0	0	0	0	0	0	0
## 7448	7448	0	0	0	0	0	0	0	0	0	0
## 7449	7449	0	0	0	0	0	0	0	0	0	0
## 7450	7450	0	0	1	0	0	0	0	0	0	0
## 7451	7451	0	0	0	0	0	0	1	0	0	0
## 7452	7452	0	0	0	0	0	0	1	0	0	0
## 7453	7453	0	0	0	0	0	0	0	0	0	0
## 7454	7454	0	0	0	0	0	0	0	0	0	0
## 7455	7455	0	1	0	0	0	0	0	0	0	0
## 7456	7456	0	0	0	0	0	0	0	0	0	0
## 7457	7457	0	0	0	0	0	0	1	0	0	0
## 7458	7458	0	0	1	0	0	0	0	0	0	0
## 7459	7459	0	0	0	0	0	0	0	0	0	0
## 7460	7460	0	0	0	0	0	0	0	0	0	0
## 7461	7461	0	0	1	0	0	0	0	0	0	0
## 7462	7462	0	0	0	0	0	0	0	0	1	0
## 7463	7463	0	0	0	0	0	0	0	0	0	0
## 7464	7464	0	0	0	0	0	0	0	1	0	0
## 7465	7465	0	0	0	0	0	0	0	0	0	0
## 7466	7466	0	0	0	0	0	0	0	0	1	0
## 7467	7467	0	0	0	0	0	0	0	0	0	0
## 7468	7468	0	0	1	0	0	0	0	0	0	0
## 7469	7469	0	0	0	0	0	0	0	0	1	0
## 7470	7470	0	0	1	0	0	0	0	0	0	0
## 7471	7471	0	0	0	0	1	0	0	0	0	0
## 7472	7472	0	0	0	0	0	0	0	0	0	0
## 7473	7473	0	0	0	0	0	0	0	0	0	0
## 7474	7474	1	0	0	0	0	0	0	0	0	0
## 7475	7475	0	0	1	0	0	0	0	0	0	0
## 7476	7476	0	0	0	0	0	0	0	0	0	1
## 7477	7477	0	1	0	0	0	0	0	0	0	0
## 7478	7478	0	0	0	0	0	0	0	0	0	1
## 7479	7479	0	0	0	1	0	0	0	0	0	0
## 7480	7480	0	0	0	0	1	0	0	0	0	0
## 7481	7481	0	0	0	0	0	0	0	0	0	0
## 7482	7482	0	0	0	0	0	0	0	0	0	0

## 7483	7483	0	0	0	1	0	0	0	0	0	0	0
## 7484	7484	0	0	0	0	0	0	1	0	0	0	0
## 7485	7485	0	0	0	0	0	0	0	0	0	0	0
## 7486	7486	0	0	0	1	0	0	0	0	0	0	0
## 7487	7487	0	0	0	0	0	0	1	0	0	0	0
## 7488	7488	0	0	0	0	0	0	0	0	0	0	0
## 7489	7489	0	0	1	0	0	0	0	0	0	0	0
## 7490	7490	0	0	0	0	0	0	0	1	0	0	0
## 7491	7491	0	0	1	0	0	0	0	0	0	0	0
## 7492	7492	0	0	0	0	0	0	0	0	0	0	0
## 7493	7493	0	0	0	0	0	0	0	0	0	0	0
## 7494	7494	0	0	0	0	0	0	0	0	0	0	0
## 7495	7495	0	0	0	0	0	0	0	1	0	0	0
## 7496	7496	0	0	0	0	0	0	1	0	0	0	0
## 7497	7497	0	0	0	0	0	0	0	0	0	0	0
## 7498	7498	0	0	0	0	1	0	0	0	0	0	0
## 7499	7499	0	0	0	0	0	0	1	0	0	0	0
## 7500	7500	0	0	0	0	0	0	0	0	0	0	1
## 7501	7501	0	0	0	0	0	0	0	0	0	0	1
## 7502	7502	0	0	0	0	0	0	1	0	0	0	0
## 7503	7503	0	0	0	0	0	0	0	0	0	0	0
## 7504	7504	0	2	0	0	0	0	0	0	0	0	0
## 7505	7505	0	0	0	0	0	0	0	0	0	0	0
## 7506	7506	0	0	0	0	0	0	0	0	0	0	0
## 7507	7507	0	0	0	0	0	0	0	0	0	0	0
## 7508	7508	0	1	0	0	0	0	0	0	0	0	0
## 7509	7509	0	0	0	0	0	0	0	0	0	0	0
## 7510	7510	0	0	0	0	0	0	0	0	0	0	0
## 7511	7511	1	0	0	0	0	0	0	0	0	0	0
## 7512	7512	1	0	0	0	0	0	0	0	0	0	0
## 7513	7513	0	0	0	0	0	0	0	0	0	0	0
## 7514	7514	0	0	0	0	0	0	0	0	0	0	0
## 7515	7515	0	0	0	0	0	0	0	0	0	0	0
## 7516	7516	0	1	0	0	0	0	0	0	0	0	0
## 7517	7517	0	1	0	0	0	0	0	0	0	0	0
## 7518	7518	1	0	0	0	0	0	0	0	0	0	0
## 7519	7519	1	0	0	0	0	0	0	0	0	0	0
## 7520	7520	0	0	0	0	0	0	1	0	0	0	0
## 7521	7521	1	0	0	0	0	0	0	0	0	0	0
## 7522	7522	0	0	0	0	0	0	1	0	0	0	0
## 7523	7523	0	0	0	0	0	0	1	0	0	0	0
## 7524	7524	0	0	0	0	0	0	0	0	1	0	0
## 7525	7525	0	0	0	0	0	0	0	0	0	0	0
## 7526	7526	0	0	0	0	0	0	0	1	0	0	0
## 7527	7527	0	0	0	0	0	0	0	0	0	0	0
## 7528	7528	0	0	0	0	1	0	0	0	0	0	0
## 7529	7529	0	0	0	0	0	2	0	1	0	0	0
## 7530	7530	0	0	0	0	0	0	0	0	0	0	0
## 7531	7531	0	0	0	0	0	0	0	1	0	0	0
## 7532	7532	0	0	1	0	0	0	0	0	0	0	0
## 7533	7533	0	0	0	0	0	0	0	0	0	0	1
## 7534	7534	0	0	0	0	0	0	0	0	0	0	0
## 7535	7535	0	0	0	0	0	0	0	0	0	0	0
## 7536	7536	0	0	0	0	0	0	0	0	0	0	0

## 7537 7537	0	0	0	0	1	0	0	1	0	0	0
## 7538 7538	0	0	0	0	0	0	0	0	0	0	0
## 7539 7539	0	0	0	0	0	0	0	0	0	0	0
## 7540 7540	0	0	1	0	0	0	0	0	0	0	0
## 7541 7541	1	0	0	0	0	0	0	0	0	0	0
## 7542 7542	0	0	0	0	0	0	0	0	0	0	0
## 7543 7543	0	0	0	0	0	0	0	0	0	1	0
## 7544 7544	0	0	0	0	0	0	0	0	0	0	0
## 7545 7545	0	0	0	0	0	0	0	0	0	0	0
## 7546 7546	0	0	0	0	0	0	1	0	0	0	0
## 7547 7547	0	0	0	0	0	0	0	0	0	0	0
## 7548 7548	0	1	0	0	0	0	0	0	0	0	0
## 7549 7549	0	0	0	0	0	0	0	0	0	0	0
## 7550 7550	0	0	0	0	0	0	0	0	0	0	1
## 7551 7551	0	0	0	0	0	0	1	0	0	0	0
## 7552 7552	0	0	0	0	0	0	0	0	0	0	0
## 7553 7553	0	0	0	0	0	0	1	0	0	0	0
## 7554 7554	0	0	0	0	0	0	0	0	0	0	0
## 7555 7555	0	0	0	0	0	0	0	3	0	0	0
## 7556 7556	0	0	0	0	0	0	0	0	0	0	0
## 7557 7557	0	0	1	0	0	0	0	0	0	0	0
## 7558 7558	0	0	0	0	0	0	0	0	0	0	0
## 7559 7559	0	0	0	0	0	0	0	0	0	0	0
## 7560 7560	0	1	0	0	0	0	0	0	0	0	0
## 7561 7561	0	0	0	0	0	0	0	0	1	0	0
## 7562 7562	0	1	0	0	0	0	0	0	0	0	0
## 7563 7563	0	1	0	0	0	0	0	0	0	0	0
## 7564 7564	0	0	0	1	0	0	0	0	0	0	0
## 7565 7565	0	0	0	0	0	0	0	2	0	0	0
## 7566 7566	0	0	0	0	0	0	0	0	0	0	0
## 7567 7567	0	0	0	0	0	0	0	0	0	0	0
## 7568 7568	0	0	0	0	0	0	1	0	0	0	0
## 7569 7569	0	0	0	0	0	0	0	0	1	0	0
## 7570 7570	0	1	0	1	0	0	0	0	0	0	0
## 7571 7571	0	0	0	0	0	0	0	0	0	0	0
## 7572 7572	0	0	0	0	0	0	0	0	0	0	0
## 7573 7573	0	0	0	0	0	1	0	0	0	0	0
## 7574 7574	0	0	0	0	0	0	0	0	0	1	0
## 7575 7575	1	0	0	0	0	0	0	0	0	0	0
## 7576 7576	0	0	0	0	0	0	0	0	1	0	0
## 7577 7577	0	0	0	0	0	0	0	0	0	0	0
## 7578 7578	0	0	0	0	0	0	0	0	0	0	0
## 7579 7579	0	0	0	0	0	0	0	0	0	0	0
## 7580 7580	0	0	0	0	0	0	0	0	1	0	0
## 7581 7581	0	0	0	0	0	0	0	0	0	1	0
## 7582 7582	0	0	0	0	1	0	0	0	0	0	0
## 7583 7583	0	0	0	0	0	0	0	0	0	0	0
## 7584 7584	0	0	0	0	0	0	0	0	0	0	0
## 7585 7585	0	0	0	0	0	0	0	0	0	0	0
## 7586 7586	0	0	0	0	0	0	0	0	0	0	1
## 7587 7587	0	0	0	0	0	0	0	0	0	0	0
## 7588 7588	0	0	0	0	0	0	1	0	0	0	0
## 7589 7589	0	0	0	0	0	0	0	0	0	0	0
## 7590 7590	0	0	0	0	0	0	1	0	0	0	0

## 7591	7591	0	0	0	0	0	0	0	0	1	0
## 7592	7592	0	0	0	0	0	1	1	0	0	0
## 7593	7593	0	0	0	1	0	0	0	0	0	0
## 7594	7594	0	0	0	0	0	0	0	0	0	0
## 7595	7595	0	0	0	0	0	0	0	0	0	0
## 7596	7596	0	0	0	0	0	0	0	0	0	0
## 7597	7597	0	0	0	1	0	0	0	0	0	0
## 7598	7598	0	1	0	0	0	0	0	0	0	0
## 7599	7599	1	0	0	0	0	0	0	0	0	0
## 7600	7600	1	0	0	0	0	0	0	0	0	0
## 7601	7601	0	0	1	0	0	0	0	0	0	0
## 7602	7602	0	0	0	0	0	0	0	1	0	0
## 7603	7603	0	0	0	0	0	0	0	0	0	0
## 7604	7604	0	0	0	0	0	0	0	0	0	1
## 7605	7605	0	0	0	0	0	0	0	0	0	0
## 7606	7606	0	0	0	0	0	0	0	0	0	0
## 7607	7607	0	0	0	0	0	0	0	0	0	0
## 7608	7608	0	0	0	0	0	0	0	0	0	0
## 7609	7609	0	0	0	0	2	0	0	0	0	0
## 7610	7610	0	0	0	0	0	0	1	0	0	0
## 7611	7611	0	0	0	1	0	0	0	0	0	0
## 7612	7612	0	0	1	0	0	0	0	0	0	0
## 7613	7613	0	0	0	0	0	0	0	0	0	1
## 7614	7614	0	0	0	0	0	0	0	0	0	0
## 7615	7615	0	0	0	0	0	0	0	0	1	0
## 7616	7616	0	0	0	0	0	0	1	0	0	0
## 7617	7617	0	0	0	0	1	0	0	0	0	0
## 7618	7618	0	0	0	0	0	0	1	0	0	0
## 7619	7619	0	0	1	0	0	0	0	0	0	0
## 7620	7620	0	0	0	0	0	0	1	0	0	0
## 7621	7621	0	0	0	0	0	0	0	0	0	0
## 7622	7622	0	0	0	0	0	0	0	0	0	0
## 7623	7623	0	0	0	0	0	0	0	0	0	0
## 7624	7624	0	0	0	0	0	0	0	0	0	0
## 7625	7625	0	0	0	0	0	0	0	0	0	0
## 7626	7626	0	0	0	0	1	0	0	0	0	0
## 7627	7627	1	0	0	0	0	0	0	0	0	0
## 7628	7628	0	0	0	0	1	0	0	0	0	0
## 7629	7629	0	0	0	1	0	0	0	1	0	0
## 7630	7630	0	0	0	0	0	0	0	0	0	0
## 7631	7631	0	0	0	0	0	0	0	0	0	0
## 7632	7632	0	0	0	1	0	0	0	0	0	0
## 7633	7633	0	0	0	0	0	0	0	0	0	0
## 7634	7634	0	0	0	0	0	1	0	0	0	0
## 7635	7635	0	0	0	0	1	0	0	0	0	0
## 7636	7636	1	1	0	0	0	0	0	0	0	0
## 7637	7637	0	0	0	0	0	0	1	0	0	0
## 7638	7638	0	0	0	0	0	0	0	0	1	0
## 7639	7639	0	0	0	0	0	0	0	0	0	0
## 7640	7640	0	0	0	0	0	0	0	0	0	0
## 7641	7641	0	0	0	0	0	0	0	0	0	1
## 7642	7642	0	0	0	0	0	0	0	1	0	0
## 7643	7643	0	0	0	0	0	0	0	0	0	0
## 7644	7644	0	0	1	0	0	0	0	0	0	0

## 7645	7645	0	0	0	0	0	0	0	0	0	0
## 7646	7646	0	0	0	1	0	0	0	0	0	0
## 7647	7647	0	0	0	1	0	0	0	0	0	0
## 7648	7648	0	0	0	0	0	0	0	0	0	0
## 7649	7649	0	0	0	0	0	0	0	0	0	0
## 7650	7650	0	0	0	0	0	1	0	0	0	0
## 7651	7651	0	0	0	0	0	0	0	0	0	0
## 7652	7652	0	0	0	0	0	0	0	0	0	0
## 7653	7653	0	0	0	0	1	0	0	0	0	0
## 7654	7654	0	0	0	0	1	0	0	0	0	0
## 7655	7655	0	0	0	0	0	0	0	0	0	0
## 7656	7656	0	0	0	0	1	0	0	0	0	0
## 7657	7657	0	0	0	0	0	0	0	0	0	0
## 7658	7658	1	0	0	0	0	0	0	0	0	0
## 7659	7659	0	0	0	0	0	0	1	0	0	0
## 7660	7660	0	0	0	0	0	0	1	0	0	0
## 7661	7661	0	0	0	0	0	0	0	0	1	0
## 7662	7662	0	0	0	0	0	0	0	0	0	0
## 7663	7663	0	0	0	0	0	0	0	0	0	0
## 7664	7664	0	1	0	0	0	0	0	0	0	0
## 7665	7665	0	0	0	1	0	0	0	0	0	0
## 7666	7666	0	0	0	2	0	0	0	0	0	0
## 7667	7667	0	0	0	0	0	0	0	0	0	1
## 7668	7668	0	0	0	0	0	0	0	1	0	0
## 7669	7669	0	0	0	0	0	0	0	0	0	0
## 7670	7670	0	0	0	0	0	0	0	0	0	0
## 7671	7671	0	0	1	0	0	0	0	0	0	0
## 7672	7672	0	0	0	0	0	0	0	0	0	0
## 7673	7673	1	0	0	0	0	0	0	0	0	0
## 7674	7674	0	0	0	0	0	0	0	0	0	1
## 7675	7675	0	0	0	0	0	0	1	0	0	0
## 7676	7676	0	0	0	0	0	0	0	0	0	0
## 7677	7677	0	0	1	0	0	0	0	0	0	0
## 7678	7678	0	0	0	0	0	0	0	0	0	0
## 7679	7679	0	0	0	1	0	0	0	0	0	0
## 7680	7680	0	0	0	0	0	0	0	0	0	0
## 7681	7681	0	0	0	0	0	0	0	0	0	0
## 7682	7682	0	0	0	0	0	0	0	1	0	1
## 7683	7683	1	0	0	0	0	0	0	0	0	0
## 7684	7684	0	0	0	0	0	0	0	0	0	1
## 7685	7685	0	0	0	0	0	0	0	0	0	0
## 7686	7686	0	0	0	0	0	0	0	1	0	0
## 7687	7687	0	0	0	0	0	0	1	0	0	0
## 7688	7688	0	0	0	0	0	0	1	0	0	0
## 7689	7689	0	0	0	3	0	0	0	0	0	0
## 7690	7690	0	0	0	0	0	0	0	0	0	0
## 7691	7691	0	0	0	0	0	2	0	0	0	0
## 7692	7692	0	0	0	0	0	0	1	0	0	0
## 7693	7693	0	0	0	0	0	0	0	0	0	0
## 7694	7694	0	0	0	0	0	1	0	0	0	0
## 7695	7695	0	0	0	0	1	0	0	0	0	0
## 7696	7696	1	0	0	0	0	0	0	0	0	0
## 7697	7697	0	0	0	0	0	0	1	0	0	0
## 7698	7698	0	0	0	0	0	0	0	0	0	0

## 7699	7699	0	0	0	0	0	0	0	0	0	0
## 7700	7700	0	0	0	0	0	0	0	0	1	0
## 7701	7701	0	0	0	1	0	0	0	0	0	0
## 7702	7702	0	0	0	0	1	0	1	0	0	0
## 7703	7703	0	0	0	0	0	0	0	0	0	0
## 7704	7704	0	0	1	0	0	0	0	0	0	0
## 7705	7705	0	0	0	0	0	0	2	0	0	0
## 7706	7706	0	0	0	0	0	0	0	0	0	0
## 7707	7707	0	0	0	0	1	0	0	0	0	0
## 7708	7708	0	1	0	0	0	0	0	0	0	0
## 7709	7709	0	0	0	0	0	0	0	0	1	0
## 7710	7710	0	0	0	0	0	0	0	0	0	0
## 7711	7711	0	0	0	0	0	0	1	0	0	1
## 7712	7712	0	0	0	0	0	0	0	2	0	0
## 7713	7713	0	0	0	0	0	0	0	0	0	0
## 7714	7714	0	0	0	0	0	0	0	0	0	1
## 7715	7715	0	0	0	0	1	0	0	0	0	0
## 7716	7716	0	0	0	0	0	0	0	0	0	0
## 7717	7717	0	0	0	0	0	0	0	0	0	0
## 7718	7718	0	0	0	0	0	0	1	0	0	0
## 7719	7719	0	1	0	1	0	0	0	0	0	0
## 7720	7720	0	0	0	0	0	0	0	0	0	0
## 7721	7721	0	0	0	0	0	0	0	0	0	0
## 7722	7722	0	1	0	0	0	0	0	0	0	0
## 7723	7723	0	0	0	0	0	0	0	0	0	0
## 7724	7724	0	0	0	0	0	0	0	1	0	0
## 7725	7725	0	0	0	0	0	0	0	0	0	0
## 7726	7726	0	1	0	0	0	0	0	0	0	0
## 7727	7727	0	0	0	0	0	0	1	0	0	0
## 7728	7728	1	0	0	0	0	0	0	0	0	0
## 7729	7729	1	0	0	0	0	0	0	0	0	0
## 7730	7730	0	0	0	0	0	0	0	0	0	0
## 7731	7731	0	0	0	0	0	0	0	0	0	1
## 7732	7732	0	0	0	0	0	0	0	0	0	0
## 7733	7733	0	0	0	0	0	0	0	0	0	0
## 7734	7734	0	0	0	0	0	0	1	0	0	0
## 7735	7735	0	0	0	0	1	0	0	0	0	0
## 7736	7736	0	0	0	0	1	0	0	0	0	0
## 7737	7737	0	0	0	0	0	1	0	0	0	0
## 7738	7738	0	0	0	0	0	0	0	0	0	0
## 7739	7739	0	0	0	0	0	0	1	0	0	0
## 7740	7740	0	0	0	0	0	0	0	0	0	0
## 7741	7741	0	1	0	0	0	0	0	0	0	0
## 7742	7742	0	0	0	0	0	0	0	0	0	0
## 7743	7743	0	0	0	1	0	0	0	0	0	0
## 7744	7744	0	0	0	0	0	0	0	0	0	0
## 7745	7745	0	0	0	0	0	0	0	0	0	0
## 7746	7746	0	0	0	0	0	0	0	0	0	0
## 7747	7747	0	0	0	0	0	0	0	0	0	0
## 7748	7748	0	0	0	0	0	0	0	0	0	0
## 7749	7749	0	0	0	0	0	0	0	0	0	0
## 7750	7750	0	0	0	0	0	0	0	0	0	0
## 7751	7751	0	0	0	0	0	0	0	0	0	0
## 7752	7752	0	0	0	0	0	0	0	0	0	0

## 7753 7753	0	0	0	0	0	0	0	0	0	0	0
## 7754 7754	0	0	0	0	2	0	0	0	0	0	0
## 7755 7755	0	0	0	0	1	0	0	0	0	0	0
## 7756 7756	0	0	0	0	0	0	0	0	0	0	0
## 7757 7757	1	0	0	0	0	0	0	0	0	0	0
## 7758 7758	0	0	0	0	0	0	0	0	0	0	0
## 7759 7759	0	0	0	0	0	0	0	0	0	0	0
## 7760 7760	0	0	0	0	0	0	0	0	0	0	0
## 7761 7761	0	0	0	0	0	0	0	0	0	0	0
## 7762 7762	0	0	0	0	0	0	0	0	0	0	0
## 7763 7763	0	0	0	0	0	0	0	0	0	0	0
## 7764 7764	0	0	0	0	0	0	0	0	0	0	0
## 7765 7765	0	0	0	0	0	0	0	0	0	0	0
## 7766 7766	0	0	0	0	0	0	0	0	0	0	0
## 7767 7767	0	0	0	0	0	0	0	0	0	0	0
## 7768 7768	0	0	0	0	0	0	0	1	0	0	0
## 7769 7769	0	0	0	0	0	0	0	0	1	0	0
## 7770 7770	0	0	0	0	0	0	0	0	0	0	0
## 7771 7771	0	0	0	0	0	0	1	0	0	0	0
## 7772 7772	0	0	0	0	0	0	0	0	0	0	0
## 7773 7773	0	1	0	0	0	0	0	0	0	0	0
## 7774 7774	0	0	1	0	0	0	0	0	0	0	0
## 7775 7775	0	0	0	0	0	0	0	0	0	1	0
## 7776 7776	0	0	0	0	0	0	0	0	0	3	0
## 7777 7777	0	0	1	0	0	0	0	0	0	0	0
## 7778 7778	1	0	0	0	0	0	0	0	0	0	0
## 7779 7779	0	0	1	0	0	0	0	0	0	0	0
## 7780 7780	0	0	0	0	0	0	0	0	0	0	0
## 7781 7781	1	0	0	0	0	0	0	0	0	0	0
## 7782 7782	0	0	1	0	0	0	0	0	0	0	0
## 7783 7783	0	1	0	0	0	0	0	0	0	0	0
## 7784 7784	0	0	0	0	0	0	1	0	0	0	0
## 7785 7785	0	0	0	0	0	0	0	0	0	0	0
## 7786 7786	0	0	0	0	0	0	0	0	1	0	0
## 7787 7787	0	0	1	0	0	0	0	0	0	0	0
## 7788 7788	0	0	0	0	0	0	1	0	0	0	0
## 7789 7789	0	0	1	0	0	0	0	0	0	0	0
## 7790 7790	0	0	0	0	0	0	0	0	0	0	0
## 7791 7791	0	0	0	0	0	0	0	0	0	0	0
## 7792 7792	0	0	0	1	0	0	0	0	0	0	0
## 7793 7793	0	0	0	0	0	0	0	0	0	0	1
## 7794 7794	0	1	0	0	0	0	0	0	0	0	0
## 7795 7795	0	0	0	0	0	0	0	0	0	0	0
## 7796 7796	0	0	0	1	0	0	0	0	0	0	0
## 7797 7797	0	0	0	0	0	0	0	0	0	0	0
## 7798 7798	0	1	0	0	0	0	0	0	0	0	0
## 7799 7799	0	0	0	0	0	0	0	0	0	0	0
## 7800 7800	0	0	0	1	0	0	0	0	0	0	0
## 7801 7801	0	0	0	0	0	0	0	0	0	0	0
## 7802 7802	0	0	0	0	0	0	0	0	0	0	0
## 7803 7803	0	0	0	0	0	0	1	0	0	0	0
## 7804 7804	0	0	0	0	0	0	0	0	0	0	0
## 7805 7805	0	1	0	0	0	0	0	0	0	0	0
## 7806 7806	0	0	2	0	0	0	0	0	0	0	0

```

## 7807 7807 0 0 1 0 0 0 0 0 0 0 0 0
## 7808 7808 0 1 0 0 0 0 0 0 0 0 0 0
## 7809 7809 0 1 0 0 0 0 0 0 0 0 0 0
## 7810 7810 0 0 0 0 0 0 0 0 0 0 0 0
## 7811 7811 0 1 0 0 0 0 0 0 0 0 0 0
## 7812 7812 1 0 0 0 0 0 0 0 0 0 0 0
## 7813 7813 0 0 0 0 1 0 0 0 0 0 0 0
## 7814 7814 0 0 0 0 0 0 0 1 0 0 0 0
## 7815 7815 0 0 1 0 0 0 0 0 0 0 0 0
## 7816 7816 0 0 0 0 0 0 0 0 0 0 0 0
## 7817 7817 0 1 1 0 1 0 0 0 0 0 0 0
## 7818 7818 0 0 0 0 0 0 0 0 0 0 0 0
## 7819 7819 0 0 0 0 1 0 0 0 0 0 0 0
## 7820 7820 0 0 0 0 0 0 0 0 0 0 0 0
## 7821 7821 0 0 0 0 0 0 0 1 0 0 0 0
## 7822 7822 0 0 0 0 0 0 0 1 0 0 0 0
## 7823 7823 0 0 0 0 0 0 0 0 0 0 0 0
## 7824 7824 0 0 0 0 0 0 0 0 0 0 0 0
## 7825 7825 0 0 1 0 0 0 0 0 0 0 0 0
## 7826 7826 0 0 1 0 0 0 0 0 0 0 0 0
## 7827 7827 1 0 1 0 0 0 0 0 0 0 0 0
## 7828 7828 0 0 0 0 0 0 0 0 0 0 0 0
## 7829 7829 0 0 1 0 0 0 0 0 0 0 0 0
## 7830 7830 0 0 0 0 0 0 0 0 0 0 0 0
## 7831 7831 0 0 0 1 0 0 0 0 0 0 0 0
## 7832 7832 0 0 0 0 0 0 0 0 0 0 0 0
## 7833 7833 0 0 0 0 0 0 0 1 0 0 0 0
## 7834 7834 0 0 0 0 0 0 0 0 0 0 0 0
## 7835 7835 0 0 0 0 0 0 0 0 0 0 0 0
## 7836 7836 1 0 0 0 0 0 0 0 0 0 0 0
## 7837 7837 0 0 0 0 0 0 0 0 0 0 0 0
## 7838 7838 0 0 0 0 0 0 0 0 0 0 1 0
## 7839 7839 0 0 0 0 1 0 0 0 0 0 0 0
## 7840 7840 0 0 0 0 1 0 0 0 0 0 0 0
## 7841 7841 0 0 0 0 1 0 0 0 0 0 0 0
## 7842 7842 0 0 0 0 0 0 0 0 0 0 0 1
## 7843 7843 0 0 0 0 0 0 0 0 0 0 0 0
## 7844 7844 0 0 0 0 0 0 0 0 0 0 0 0
## 7845 7845 0 0 0 0 0 0 0 0 0 0 0 0
## 7846 7846 0 0 1 0 0 0 0 0 0 0 0 0
## 7847 7847 0 0 0 0 0 0 0 0 0 0 0 0
## 7848 7848 0 0 0 0 0 0 0 0 0 0 0 0
## 7849 7849 0 0 0 0 0 0 0 1 0 0 0 0
## 7850 7850 0 0 0 0 0 0 0 0 0 0 0 1
## 7851 7851 0 0 0 0 0 0 0 0 1 0 0 0
## 7852 7852 0 0 0 0 0 0 0 0 0 0 0 1
## 7853 7853 0 0 0 0 0 0 0 0 0 0 0 0
## 7854 7854 0 0 1 0 0 0 0 0 0 0 0 0
## 7855 7855 0 0 0 0 0 0 0 0 0 0 0 0
## 7856 7856 0 0 0 0 1 0 0 0 0 0 0 0
## 7857 7857 0 0 0 0 0 0 0 0 0 0 0 1
## 7858 7858 0 0 0 0 0 0 0 0 0 0 0 1
## 7859 7859 0 0 0 0 0 0 0 0 0 0 0 0
## 7860 7860 0 0 0 0 0 0 0 0 0 0 0 0

```

## 7861	7861	0	0	1	0	0	0	0	0	0	0	0
## 7862	7862	1	0	0	0	0	0	0	0	0	0	0
## 7863	7863	0	0	0	0	0	0	0	0	0	0	0
## 7864	7864	0	0	0	0	0	0	0	0	0	0	0
## 7865	7865	0	0	0	0	0	0	0	0	0	0	1
## 7866	7866	0	0	1	0	0	0	0	0	0	0	0
## 7867	7867	0	0	0	0	0	0	0	0	0	1	0
## 7868	7868	0	0	0	0	0	0	0	0	0	0	0
## 7869	7869	0	0	0	0	0	0	0	0	0	0	1
## 7870	7870	0	0	0	0	0	0	0	0	0	0	0
## 7871	7871	0	0	0	0	0	0	0	0	0	1	1
## 7872	7872	0	0	0	0	0	0	0	0	0	0	0
## 7873	7873	0	0	0	0	0	0	0	1	0	0	0
## 7874	7874	0	0	0	0	0	0	0	0	0	0	0
## 7875	7875	0	1	0	1	0	0	0	0	0	0	0
## 7876	7876	0	0	0	0	0	0	0	0	0	0	0
## 7877	7877	0	0	0	0	0	0	0	0	0	0	0
## 7878	7878	0	0	0	0	0	0	0	0	0	1	1
## 7879	7879	0	0	0	0	0	0	1	0	0	0	0
## 7880	7880	0	0	0	0	0	0	0	0	0	1	0
## 7881	7881	0	0	0	0	0	0	0	1	0	0	0
## 7882	7882	0	0	0	0	1	0	0	0	0	0	0
## 7883	7883	1	0	0	0	0	0	0	0	0	0	0
## 7884	7884	1	0	0	0	0	0	0	0	0	0	1
## 7885	7885	0	0	0	0	1	0	0	0	0	0	0
## 7886	7886	0	0	0	0	0	1	0	0	0	0	0
## 7887	7887	0	0	0	1	0	0	0	0	0	0	0
## 7888	7888	0	0	0	0	0	0	0	0	0	0	1
## 7889	7889	0	0	0	0	0	0	0	1	0	0	0
## 7890	7890	0	0	0	0	0	0	0	0	0	0	1
## 7891	7891	0	0	0	0	0	0	0	1	0	0	0
## 7892	7892	0	0	0	1	0	0	0	0	0	0	0
## 7893	7893	0	0	0	1	0	0	0	0	0	0	0
## 7894	7894	0	0	0	1	0	0	0	0	0	0	0
## 7895	7895	0	0	0	0	1	0	1	0	0	0	0
## 7896	7896	0	0	0	0	0	0	0	0	0	0	0
## 7897	7897	0	0	0	0	0	0	0	1	0	0	0
## 7898	7898	0	0	0	0	0	0	0	0	1	0	0
## 7899	7899	0	0	0	0	0	0	0	0	0	0	0
## 7900	7900	0	0	0	1	0	0	0	0	0	0	0
## 7901	7901	0	1	0	0	0	0	0	0	0	0	0
## 7902	7902	1	0	0	0	0	0	0	0	0	0	0
## 7903	7903	0	0	0	0	0	0	0	0	0	0	1
## 7904	7904	0	0	0	0	0	0	0	0	0	0	0
## 7905	7905	0	0	0	0	0	0	0	0	0	0	0
## 7906	7906	0	0	0	0	0	0	1	0	0	0	0
## 7907	7907	0	0	0	0	0	0	1	0	0	0	0
## 7908	7908	0	0	0	0	0	0	0	0	0	0	0
## 7909	7909	0	0	0	0	0	0	0	1	0	0	0
## 7910	7910	0	0	0	0	0	0	1	0	0	0	0
## 7911	7911	0	0	0	0	0	0	0	0	0	0	0
## 7912	7912	0	0	0	0	0	0	0	0	0	0	0
## 7913	7913	0	0	0	0	0	0	0	0	0	0	0
## 7914	7914	1	0	0	0	0	0	0	0	0	0	0

## 7915	7915	0	0	0	0	0	0	0	0	0	0	0
## 7916	7916	0	0	0	0	0	0	0	2	0	0	0
## 7917	7917	0	0	0	0	0	0	0	0	1	0	0
## 7918	7918	0	0	0	0	0	0	1	0	0	0	0
## 7919	7919	0	0	0	0	0	0	0	0	0	0	0
## 7920	7920	0	0	0	0	0	0	0	0	0	0	0
## 7921	7921	0	0	0	0	0	0	1	0	0	0	0
## 7922	7922	0	0	0	0	0	0	0	0	0	0	0
## 7923	7923	0	0	0	0	0	0	1	0	0	0	0
## 7924	7924	0	0	0	0	0	0	0	0	0	0	0
## 7925	7925	0	0	0	0	0	0	1	0	0	0	0
## 7926	7926	0	0	0	0	0	0	0	0	0	0	0
## 7927	7927	0	0	0	0	0	0	0	0	0	0	0
## 7928	7928	0	0	0	0	0	0	0	0	0	1	0
## 7929	7929	0	0	1	0	0	0	0	0	0	0	0
## 7930	7930	0	0	0	0	0	0	0	0	0	0	0
## 7931	7931	0	0	0	0	0	0	1	0	0	0	0
## 7932	7932	0	1	0	0	0	0	0	0	0	0	0
## 7933	7933	0	0	0	0	0	0	0	0	0	1	0
## 7934	7934	0	0	0	0	0	0	0	0	0	0	0
## 7935	7935	0	0	0	0	0	0	0	0	0	0	0
## 7936	7936	0	0	0	0	0	0	1	1	0	0	0
## 7937	7937	0	0	0	0	0	0	0	0	0	0	0
## 7938	7938	0	0	0	0	0	0	0	0	0	0	0
## 7939	7939	0	0	0	0	0	0	0	0	1	0	0
## 7940	7940	0	0	0	0	0	0	0	0	0	1	0
## 7941	7941	0	0	0	0	1	0	0	0	0	0	0
## 7942	7942	0	0	0	0	1	0	0	0	0	0	0
## 7943	7943	0	0	0	0	1	0	0	0	0	0	0
## 7944	7944	0	0	0	0	0	0	0	0	0	0	0
## 7945	7945	0	0	1	0	0	0	0	0	0	0	0
## 7946	7946	0	0	1	0	0	0	0	0	0	0	0
## 7947	7947	0	0	0	0	0	0	0	0	0	0	0
## 7948	7948	0	0	0	0	0	0	0	0	0	0	0
## 7949	7949	0	0	0	0	1	0	0	0	0	0	0
## 7950	7950	0	0	0	0	0	0	0	0	0	0	0
## 7951	7951	0	0	0	0	0	0	0	0	0	0	0
## 7952	7952	0	0	0	0	0	0	0	0	0	0	0
## 7953	7953	0	0	0	0	0	0	0	0	0	0	0
## 7954	7954	0	0	0	0	0	0	0	0	0	0	0
## 7955	7955	0	0	0	0	0	0	0	0	0	0	0
## 7956	7956	0	1	0	0	0	0	0	0	0	0	0
## 7957	7957	0	0	0	0	0	0	0	0	0	0	0
## 7958	7958	0	0	0	0	0	0	0	0	0	0	0
## 7959	7959	0	0	0	0	0	1	0	0	0	0	0
## 7960	7960	0	0	0	0	0	0	0	0	0	0	0
## 7961	7961	0	0	0	0	0	0	0	0	0	1	0
## 7962	7962	0	0	0	0	0	0	0	0	0	0	0
## 7963	7963	0	0	0	0	0	0	0	0	0	0	0
## 7964	7964	0	1	0	0	0	0	0	0	0	0	0
## 7965	7965	0	0	0	0	0	0	0	0	0	1	0
## 7966	7966	0	0	0	0	0	0	0	0	0	0	0
## 7967	7967	0	0	0	0	0	0	0	0	0	0	0
## 7968	7968	1	0	0	0	0	0	0	0	0	0	0

## 7969	7969	0	0	0	0	0	0	0	0	0	0
## 7970	7970	0	0	0	0	0	0	0	0	0	0
## 7971	7971	0	1	0	0	0	0	0	0	0	0
## 7972	7972	0	0	0	0	0	0	0	0	0	0
## 7973	7973	0	0	0	0	0	0	0	0	0	0
## 7974	7974	0	0	0	0	0	0	0	0	0	0
## 7975	7975	0	0	0	0	0	0	0	0	0	0
## 7976	7976	0	0	0	0	0	0	0	0	0	0
## 7977	7977	0	1	0	0	0	0	0	0	0	0
## 7978	7978	0	0	0	0	0	0	1	0	0	0
## 7979	7979	0	0	0	0	0	0	0	0	0	0
## 7980	7980	0	0	0	0	0	0	0	0	0	0
## 7981	7981	0	0	0	0	0	0	0	0	1	0
## 7982	7982	0	0	0	0	0	0	0	0	0	0
## 7983	7983	0	0	0	0	0	0	0	0	1	0
## 7984	7984	0	0	0	0	1	0	0	0	0	0
## 7985	7985	0	0	0	0	0	0	0	0	0	0
## 7986	7986	0	0	0	0	0	0	0	0	0	0
## 7987	7987	0	0	1	0	0	0	0	0	0	0
## 7988	7988	0	1	0	0	0	0	0	0	0	0
## 7989	7989	0	0	1	0	0	0	0	0	0	0
## 7990	7990	0	0	0	0	1	0	0	0	0	0
## 7991	7991	0	0	0	0	0	0	0	0	0	0
## 7992	7992	0	0	0	1	0	0	0	0	0	0
## 7993	7993	0	0	0	0	0	0	0	0	0	0
## 7994	7994	0	0	0	0	0	0	0	0	0	0
## 7995	7995	0	0	0	0	0	0	0	0	0	1
## 7996	7996	0	0	0	0	0	0	0	0	0	0
## 7997	7997	0	0	0	0	0	0	0	0	0	0
## 7998	7998	0	0	0	2	0	0	0	0	0	0
## 7999	7999	0	0	0	0	0	0	0	0	0	0
## 8000	8000	0	0	0	0	0	0	0	1	0	0
## 8001	8001	0	0	0	0	0	0	0	0	0	0
## 8002	8002	0	0	0	0	0	0	0	0	0	0
## 8003	8003	1	0	0	0	0	0	0	0	0	0
## 8004	8004	0	0	0	0	0	1	0	0	0	0
## 8005	8005	0	0	0	0	0	0	0	0	0	0
## 8006	8006	1	1	0	0	0	0	0	0	0	0
## 8007	8007	0	0	0	0	0	0	1	0	0	0
## 8008	8008	0	0	0	0	0	0	1	0	0	0
## 8009	8009	0	0	0	0	1	0	0	0	0	0
## 8010	8010	0	0	0	1	0	0	0	0	0	0
## 8011	8011	1	0	0	0	0	0	0	0	0	0
## 8012	8012	0	0	0	0	1	0	0	0	0	0
## 8013	8013	0	0	0	0	0	1	0	0	0	0
## 8014	8014	0	0	0	0	0	0	0	0	0	0
## 8015	8015	0	0	0	0	0	0	0	0	0	0
## 8016	8016	0	0	0	0	0	0	1	0	0	0
## 8017	8017	0	0	0	0	0	0	0	0	0	0
## 8018	8018	0	0	0	0	0	0	0	0	0	0
## 8019	8019	0	0	0	0	0	0	0	0	0	0
## 8020	8020	0	0	0	0	1	0	0	0	0	0
## 8021	8021	0	0	0	0	0	0	0	0	0	0
## 8022	8022	0	0	0	0	0	0	0	0	0	1

## 8023	8023	0	0	0	0	0	0	0	0	0	0	0
## 8024	8024	0	0	0	0	0	1	0	0	0	0	0
## 8025	8025	0	0	0	0	0	0	0	0	0	0	0
## 8026	8026	0	0	0	1	1	0	0	0	0	0	0
## 8027	8027	0	0	0	0	0	0	0	0	0	0	0
## 8028	8028	0	0	0	0	0	0	0	0	0	1	0
## 8029	8029	0	0	0	0	0	0	1	0	0	0	0
## 8030	8030	0	0	0	0	0	0	0	0	0	0	0
## 8031	8031	2	0	0	0	0	0	0	0	0	0	0
## 8032	8032	0	0	0	0	0	0	0	0	0	0	0
## 8033	8033	0	0	0	0	0	0	0	0	0	0	0
## 8034	8034	0	0	0	0	0	0	0	0	0	0	0
## 8035	8035	0	0	1	0	0	0	0	0	0	0	0
## 8036	8036	0	0	0	0	0	0	0	0	0	0	0
## 8037	8037	0	0	0	0	0	0	0	0	0	0	0
## 8038	8038	0	0	0	0	0	0	0	0	0	0	0
## 8039	8039	0	0	0	0	0	0	0	0	0	0	0
## 8040	8040	0	0	0	0	0	0	0	0	0	0	0
## 8041	8041	0	0	0	0	0	0	0	0	0	0	0
## 8042	8042	0	0	0	0	0	0	0	0	0	0	0
## 8043	8043	0	0	0	0	0	0	0	0	0	0	0
## 8044	8044	0	0	0	0	0	0	0	0	0	0	0
## 8045	8045	0	0	0	0	0	0	0	0	0	0	0
## 8046	8046	0	0	0	0	0	0	0	0	0	0	0
## 8047	8047	0	0	0	0	0	0	0	0	0	0	0
## 8048	8048	0	0	0	0	0	0	0	0	0	0	0
## 8049	8049	0	0	0	1	0	1	0	0	1	0	0
## 8050	8050	0	0	0	0	0	0	0	0	0	0	0
## 8051	8051	0	0	0	0	0	0	0	0	0	0	0
## 8052	8052	0	0	0	0	0	0	0	0	0	1	0
## 8053	8053	1	0	0	0	0	0	0	0	0	0	0
## 8054	8054	0	0	0	0	0	0	0	0	0	0	0
## 8055	8055	0	0	0	0	0	0	0	0	1	0	0
## 8056	8056	0	0	0	0	0	0	0	0	0	0	0
## 8057	8057	0	0	0	0	0	0	0	0	0	0	0
## 8058	8058	0	0	0	0	0	0	0	0	0	0	0
## 8059	8059	0	0	0	0	0	0	1	0	0	0	0
## 8060	8060	0	0	0	0	0	0	0	0	0	0	0
## 8061	8061	0	0	0	0	0	0	0	0	0	0	0
## 8062	8062	0	0	0	0	0	0	0	0	0	1	0
## 8063	8063	0	0	0	0	0	0	0	0	0	0	0
## 8064	8064	0	1	0	0	0	0	0	0	0	0	0
## 8065	8065	0	1	0	0	0	0	0	0	0	0	0
## 8066	8066	0	0	0	0	0	0	0	0	0	0	0
## 8067	8067	0	0	0	0	0	0	0	0	0	0	0
## 8068	8068	1	0	0	0	0	0	0	0	0	0	0
## 8069	8069	1	0	0	0	0	0	0	0	0	0	0
## 8070	8070	0	0	0	0	0	1	0	0	0	0	0
## 8071	8071	0	0	0	0	0	1	0	0	0	0	0
## 8072	8072	0	1	0	0	0	0	0	0	0	0	0
## 8073	8073	0	0	0	0	0	0	0	0	0	0	0
## 8074	8074	0	0	0	1	0	0	0	0	0	0	0
## 8075	8075	1	0	0	0	0	0	0	0	0	0	0
## 8076	8076	0	0	1	0	0	0	0	0	0	0	0

## 8077 8077	0	0	0	0	0	0	0	0	0	0	0
## 8078 8078	0	0	0	0	0	0	0	0	1	0	0
## 8079 8079	0	0	0	0	0	0	1	0	0	0	0
## 8080 8080	0	0	0	0	0	0	0	0	0	0	0
## 8081 8081	0	0	0	0	0	0	0	0	0	0	0
## 8082 8082	0	0	0	0	0	0	0	0	0	0	0
## 8083 8083	1	0	1	0	0	0	0	0	0	0	0
## 8084 8084	0	0	0	0	0	1	0	0	0	0	0
## 8085 8085	0	0	0	0	0	0	0	0	0	0	0
## 8086 8086	0	0	0	0	0	0	0	0	0	0	0
## 8087 8087	0	0	0	0	0	0	0	0	0	0	0
## 8088 8088	0	0	0	0	0	0	0	0	0	0	0
## 8089 8089	0	1	0	0	0	0	0	0	0	0	0
## 8090 8090	0	0	0	0	0	0	0	0	1	0	0
## 8091 8091	0	0	0	0	0	0	1	0	0	0	0
## 8092 8092	0	0	0	1	0	0	0	0	0	0	1
## 8093 8093	0	0	0	1	0	0	1	0	0	0	0
## 8094 8094	0	0	0	0	0	0	0	0	0	0	0
## 8095 8095	0	0	0	1	0	0	0	0	0	0	0
## 8096 8096	0	0	0	0	0	0	0	0	0	0	0
## 8097 8097	0	0	0	0	0	0	0	0	0	0	0
## 8098 8098	0	0	0	0	0	0	0	0	0	0	0
## 8099 8099	0	0	0	0	0	2	0	0	0	0	0
## 8100 8100	0	0	0	0	0	0	1	0	0	0	0
## 8101 8101	0	0	0	0	0	0	0	0	1	0	0
## 8102 8102	0	0	0	0	0	0	0	0	0	0	0
## 8103 8103	0	0	0	0	0	0	0	0	0	0	1
## 8104 8104	0	0	0	1	0	0	0	1	0	0	0
## 8105 8105	0	0	1	0	0	0	0	0	0	0	0
## 8106 8106	0	0	0	0	0	0	0	0	0	0	0
## 8107 8107	0	0	0	1	0	0	0	0	0	0	0
## 8108 8108	0	0	0	0	0	0	0	0	0	0	0
## 8109 8109	0	0	0	0	0	0	0	0	0	0	0
## 8110 8110	0	0	0	0	0	0	1	0	0	0	0
## 8111 8111	0	0	0	0	0	0	0	0	0	0	0
## 8112 8112	0	0	0	0	0	0	0	0	0	0	0
## 8113 8113	0	0	0	0	0	0	0	0	0	0	0
## 8114 8114	0	0	0	0	0	0	0	0	0	0	0
## 8115 8115	0	0	1	0	0	0	0	0	0	0	0
## 8116 8116	0	1	0	0	0	0	0	0	0	0	0
## 8117 8117	1	0	0	0	0	0	0	0	0	0	0
## 8118 8118	0	0	0	0	0	0	0	0	0	0	0
## 8119 8119	0	0	0	0	0	0	1	0	0	0	0
## 8120 8120	0	0	0	0	0	0	0	0	0	0	1
## 8121 8121	0	0	0	0	1	0	0	0	0	0	0
## 8122 8122	0	0	0	0	1	0	0	0	0	0	0
## 8123 8123	0	0	0	0	0	0	0	0	0	0	0
## 8124 8124	0	0	0	0	0	0	0	0	0	0	0
## 8125 8125	0	0	0	0	0	0	0	0	0	0	0
## 8126 8126	0	0	0	0	0	0	0	0	0	0	0
## 8127 8127	0	1	0	0	0	0	0	0	0	0	0
## 8128 8128	1	0	0	0	0	0	0	0	0	0	0
## 8129 8129	0	0	0	0	0	0	0	0	0	0	1
## 8130 8130	0	0	0	0	0	0	0	0	0	0	0

## 8131 8131	0	0	0	0	0	0	0	0	0	0	0
## 8132 8132	0	0	0	0	0	0	0	0	0	0	0
## 8133 8133	0	0	0	0	0	0	2	0	1	0	0
## 8134 8134	0	0	1	0	0	0	0	0	0	0	0
## 8135 8135	0	0	0	0	0	0	0	0	1	0	0
## 8136 8136	0	0	0	0	0	1	0	0	0	0	0
## 8137 8137	0	0	0	1	0	0	0	0	0	0	0
## 8138 8138	0	0	0	0	0	0	0	0	0	0	0
## 8139 8139	0	0	0	0	0	0	0	0	0	0	0
## 8140 8140	0	0	0	0	0	0	0	0	0	0	0
## 8141 8141	0	0	1	0	0	0	0	0	0	0	0
## 8142 8142	0	0	0	0	0	0	0	0	0	0	0
## 8143 8143	0	0	0	0	0	0	0	1	0	0	0
## 8144 8144	0	0	0	0	0	0	1	0	0	0	0
## 8145 8145	0	0	0	0	0	0	0	0	0	0	0
## 8146 8146	0	0	0	0	1	0	0	0	0	0	0
## 8147 8147	0	0	0	0	0	0	0	0	0	0	0
## 8148 8148	0	0	0	0	0	0	0	0	0	0	0
## 8149 8149	0	0	0	0	0	0	0	0	0	0	1
## 8150 8150	0	0	0	0	0	0	0	0	0	0	0
## 8151 8151	0	0	0	0	0	0	2	0	0	0	0
## 8152 8152	0	0	0	0	0	0	0	0	1	0	0
## 8153 8153	1	0	0	0	0	0	0	0	0	0	0
## 8154 8154	0	0	0	0	0	0	0	0	1	0	0
## 8155 8155	0	0	0	0	1	0	0	0	0	0	0
## 8156 8156	0	0	0	0	0	0	0	0	0	0	0
## 8157 8157	1	0	0	0	0	0	0	0	0	0	0
## 8158 8158	0	0	0	0	0	0	0	0	0	1	0
## 8159 8159	0	0	0	0	0	0	0	0	0	0	0
## 8160 8160	0	0	0	1	0	0	0	0	0	0	0
## 8161 8161	0	0	0	0	0	0	0	0	0	0	0
## 8162 8162	0	0	0	2	0	0	0	0	0	0	0
## 8163 8163	0	0	0	1	0	0	0	0	0	0	0
## 8164 8164	0	1	0	0	0	0	0	0	0	0	0
## 8165 8165	0	0	0	0	0	0	0	0	0	0	0
## 8166 8166	0	0	1	0	0	0	0	0	0	0	0
## 8167 8167	0	0	0	0	0	0	0	0	0	0	0
## 8168 8168	0	0	0	1	0	0	0	0	0	0	0
## 8169 8169	0	0	0	0	0	0	0	0	0	0	0
## 8170 8170	0	0	0	0	0	0	0	1	0	0	0
## 8171 8171	0	0	0	0	0	0	0	0	0	1	0
## 8172 8172	0	0	0	0	0	0	0	0	0	0	0
## 8173 8173	0	0	0	0	0	0	0	1	0	0	0
## 8174 8174	0	0	0	0	0	1	0	0	0	0	0
## 8175 8175	0	0	0	0	0	1	0	0	0	0	0
## 8176 8176	0	0	0	0	0	0	0	0	0	0	0
## 8177 8177	0	0	0	0	0	0	0	0	0	0	0
## 8178 8178	0	0	0	0	0	1	0	0	0	0	0
## 8179 8179	0	0	0	0	0	0	0	0	0	0	0
## 8180 8180	0	0	0	0	0	0	0	0	0	0	0
## 8181 8181	0	1	0	0	0	0	0	0	0	0	0
## 8182 8182	0	0	0	0	0	0	0	0	0	0	1
## 8183 8183	0	0	0	0	0	0	0	0	0	0	0
## 8184 8184	0	0	0	0	0	0	1	0	0	0	0

## 8185 8185	0	0	0	0	0	2	0	0	0	0	0
## 8186 8186	0	0	0	0	0	0	0	0	0	0	0
## 8187 8187	0	0	0	0	0	0	0	0	0	0	0
## 8188 8188	0	0	0	2	0	0	0	0	0	0	0
## 8189 8189	1	0	0	0	0	0	0	0	0	0	0
## 8190 8190	0	0	0	0	0	0	0	0	0	0	0
## 8191 8191	0	0	0	1	0	0	0	0	0	0	0
## 8192 8192	0	0	0	1	0	0	0	0	0	0	0
## 8193 8193	0	0	0	0	0	0	0	0	0	0	0
## 8194 8194	0	0	0	0	0	0	1	0	0	0	0
## 8195 8195	0	0	0	0	0	0	0	0	0	0	0
## 8196 8196	0	0	0	0	0	0	0	0	0	0	0
## 8197 8197	0	0	0	0	0	0	0	0	0	0	0
## 8198 8198	1	0	0	0	0	0	0	0	0	0	0
## 8199 8199	0	0	0	1	0	0	0	0	0	0	0
## 8200 8200	0	0	0	1	0	1	0	0	0	0	0
## 8201 8201	0	0	0	0	0	0	0	1	0	0	0
## 8202 8202	0	0	0	0	0	0	0	0	0	0	0
## 8203 8203	0	0	0	1	0	0	0	0	0	0	0
## 8204 8204	0	0	0	0	0	0	0	0	1	0	0
## 8205 8205	0	0	0	0	0	0	0	0	0	0	0
## 8206 8206	0	0	0	0	0	0	0	0	0	0	0
## 8207 8207	1	0	0	0	0	0	0	1	0	0	0
## 8208 8208	0	0	0	0	0	0	0	0	0	0	0
## 8209 8209	0	0	0	0	0	0	0	0	0	0	0
## 8210 8210	0	0	0	0	0	0	0	0	0	0	0
## 8211 8211	0	0	0	0	0	0	0	0	0	0	0
## 8212 8212	0	1	0	0	0	0	0	0	0	0	0
## 8213 8213	0	0	0	1	0	0	0	0	0	0	0
## 8214 8214	1	0	0	0	0	0	0	0	0	0	0
## 8215 8215	0	0	0	0	0	0	0	0	0	0	0
## 8216 8216	0	0	0	1	0	0	0	0	0	0	0
## 8217 8217	0	0	0	0	0	0	0	0	0	0	0
## 8218 8218	0	0	0	0	0	0	0	0	1	0	0
## 8219 8219	0	0	0	0	0	0	0	0	0	0	0
## 8220 8220	0	0	0	0	0	0	0	0	1	0	0
## 8221 8221	1	0	0	0	0	0	0	0	0	0	0
## 8222 8222	0	0	0	0	0	0	0	0	0	0	0
## 8223 8223	0	0	0	0	0	0	0	0	0	1	0
## 8224 8224	0	0	1	0	0	0	0	0	0	0	0
## 8225 8225	0	0	0	0	0	0	0	0	0	0	0
## 8226 8226	0	0	0	0	1	0	0	0	0	0	0
## 8227 8227	0	0	0	0	0	0	0	0	0	0	0
## 8228 8228	0	0	0	1	0	0	0	0	0	0	0
## 8229 8229	0	0	0	0	0	0	0	0	0	0	0
## 8230 8230	0	0	0	0	0	0	0	0	0	0	0
## 8231 8231	0	0	0	0	0	0	1	0	0	0	0
## 8232 8232	0	0	0	0	0	0	0	0	0	0	0
## 8233 8233	0	0	0	0	0	0	1	0	0	0	0
## 8234 8234	0	0	1	0	0	0	0	0	0	0	0
## 8235 8235	0	1	0	0	0	0	0	0	0	0	0
## 8236 8236	0	0	0	0	1	0	0	0	0	0	0
## 8237 8237	0	0	1	0	0	0	0	0	0	0	0
## 8238 8238	0	0	0	0	0	0	0	0	0	0	0

## 8239	8239	0	0	0	1	0	0	0	0	0	0	0
## 8240	8240	0	0	0	0	0	0	0	0	0	0	0
## 8241	8241	0	0	0	0	0	0	1	0	0	0	0
## 8242	8242	0	0	1	0	0	0	0	0	0	0	0
## 8243	8243	0	0	0	0	0	0	0	0	0	0	0
## 8244	8244	0	0	0	0	0	0	0	0	0	0	0
## 8245	8245	0	0	0	0	0	0	0	0	0	0	0
## 8246	8246	0	0	0	0	1	0	0	0	0	0	0
## 8247	8247	0	0	0	0	0	0	0	0	0	0	0
## 8248	8248	0	0	0	0	0	0	0	0	0	0	0
## 8249	8249	0	0	0	0	0	0	0	0	0	0	0
## 8250	8250	0	0	0	0	0	0	0	0	1	0	0
## 8251	8251	0	0	0	0	0	0	0	0	0	0	0
## 8252	8252	0	0	0	0	0	0	0	0	0	0	0
## 8253	8253	0	0	0	0	0	0	1	0	0	0	0
## 8254	8254	0	0	0	0	0	0	0	0	0	0	0
## 8255	8255	0	0	0	0	0	0	0	0	0	0	0
## 8256	8256	0	0	0	0	0	1	0	0	0	0	0
## 8257	8257	0	0	0	0	1	0	0	0	0	0	0
## 8258	8258	0	0	1	0	0	0	0	0	0	0	0
## 8259	8259	0	0	0	0	0	0	1	0	0	0	0
## 8260	8260	0	0	0	0	0	0	0	0	0	0	0
## 8261	8261	0	0	0	0	0	0	0	2	0	0	0
## 8262	8262	0	0	0	0	0	0	0	0	0	0	0
## 8263	8263	0	1	0	0	0	0	0	0	0	0	0
## 8264	8264	1	0	0	0	0	0	0	0	0	0	0
## 8265	8265	0	1	0	0	0	0	0	0	0	0	0
## 8266	8266	1	0	0	0	0	0	0	0	0	0	0
## 8267	8267	0	0	0	0	0	0	0	0	1	0	0
## 8268	8268	0	0	0	0	0	0	0	0	0	0	0
## 8269	8269	0	0	0	0	0	0	0	0	0	1	0
## 8270	8270	0	0	0	0	0	0	0	0	0	0	0
## 8271	8271	0	0	0	0	0	0	0	0	0	0	0
## 8272	8272	0	0	0	0	0	0	0	0	0	0	0
## 8273	8273	0	0	1	0	0	0	0	0	0	0	0
## 8274	8274	0	0	1	0	0	0	0	0	0	0	0
## 8275	8275	0	0	0	0	0	0	0	0	0	1	0
## 8276	8276	0	0	0	0	0	0	0	0	0	0	0
## 8277	8277	0	0	0	0	0	0	1	0	0	0	0
## 8278	8278	0	0	0	0	0	0	0	0	0	1	0
## 8279	8279	0	0	0	0	0	0	0	0	0	0	0
## 8280	8280	0	1	0	0	0	0	0	0	0	0	0
## 8281	8281	0	0	0	0	0	0	0	0	0	0	0
## 8282	8282	0	0	0	0	1	0	0	0	0	0	0
## 8283	8283	0	0	0	0	0	0	1	0	0	0	0
## 8284	8284	0	0	0	0	0	0	0	1	0	0	0
## 8285	8285	0	1	0	0	0	0	0	0	0	0	0
## 8286	8286	0	0	0	0	0	0	0	0	0	0	0
## 8287	8287	0	0	0	0	0	0	0	0	0	0	1
## 8288	8288	0	0	0	1	0	0	0	0	0	0	0
## 8289	8289	0	0	0	0	0	0	0	0	0	0	0
## 8290	8290	0	1	0	0	0	0	0	0	0	0	0
## 8291	8291	0	1	0	0	0	0	0	0	0	0	0
## 8292	8292	0	0	0	0	0	0	0	0	0	0	0

```

## 8293 8293 0 0 0 0 0 0 0 0 0 0 0 0
## 8294 8294 0 0 0 0 0 0 1 0 0 0 0 0
## 8295 8295 0 0 0 0 0 0 1 0 0 0 0 0
## 8296 8296 0 0 0 0 0 0 0 0 0 0 0 0
## 8297 8297 0 0 0 0 0 0 0 0 0 0 0 0
## 8298 8298 0 0 0 0 0 0 0 0 0 0 1 0
## 8299 8299 1 0 0 0 0 0 0 0 0 0 0 0
## 8300 8300 0 0 0 0 0 0 0 0 0 0 1 0
## 8301 8301 0 0 0 0 0 0 1 0 0 0 0 0
## 8302 8302 0 0 0 1 0 0 0 0 0 0 0 0
## 8303 8303 0 0 0 0 0 0 0 0 0 0 0 0
## 8304 8304 0 0 0 0 0 0 0 0 0 0 0 0
## 8305 8305 0 1 0 0 0 0 0 0 0 0 0 0
## 8306 8306 0 1 0 0 0 0 0 0 0 0 0 0
## 8307 8307 0 0 0 0 0 0 0 0 0 1 0 0
## 8308 8308 0 0 0 0 0 0 0 0 0 0 0 0
## 8309 8309 0 0 0 0 0 0 0 0 0 0 0 0
## 8310 8310 0 1 0 0 0 0 0 0 0 0 0 0
## 8311 8311 0 0 0 0 0 0 0 0 0 0 0 0
## 8312 8312 0 0 0 0 0 0 0 0 0 0 0 0
## 8313 8313 0 0 0 0 0 0 0 0 0 0 0 0
## 8314 8314 0 0 0 0 0 0 0 0 0 0 0 0
## 8315 8315 0 0 0 0 0 0 0 0 0 0 0 0
## 8316 8316 0 0 0 0 0 0 0 0 0 0 0 0
## 8317 8317 0 0 0 0 0 0 0 0 0 0 0 0
## 8318 8318 0 0 0 0 0 0 0 0 0 1 0 0
## 8319 8319 0 0 0 0 0 0 0 0 0 0 0 0
## 8320 8320 0 0 0 0 0 0 0 0 0 0 0 0
## 8321 8321 0 0 0 0 0 0 0 0 0 0 1 0
## 8322 8322 0 0 0 1 0 0 0 0 0 0 0 0
## 8323 8323 1 0 0 0 0 0 0 0 0 0 0 0
## 8324 8324 0 0 0 0 1 0 0 0 0 0 0 0
## 8325 8325 0 0 0 0 0 1 0 0 0 0 0 0
## 8326 8326 0 0 0 1 0 0 0 0 0 0 0 0
## 8327 8327 0 0 0 0 0 0 0 0 0 0 0 0
## 8328 8328 1 0 0 0 0 0 0 0 0 0 0 0
## 8329 8329 0 0 0 0 0 0 0 0 0 0 0 0
## 8330 8330 0 0 0 0 0 0 1 0 0 0 0 0
## 8331 8331 0 0 0 0 1 0 0 0 0 0 0 0
## 8332 8332 0 0 0 0 1 0 0 0 0 0 0 0
## 8333 8333 0 1 1 0 0 0 0 0 0 0 0 0
## [ reached 'max' / getOption("max.print") -- omitted 4977 rows ]

```

```
summary(mic) #examining the data
```

```

##      OTU        T1_1        T1_2        T1_3
##  Min.   : 1   Min.   : 0.0000   Min.   : 0.0000   Min.   : 0.0000
##  1st Qu.: 3328 1st Qu.: 0.0000   1st Qu.: 0.0000   1st Qu.: 0.0000
##  Median : 6656 Median : 0.0000   Median : 0.0000   Median : 0.0000
##  Mean   : 6656 Mean   : 0.1592   Mean   : 0.2026   Mean   : 0.1903
##  3rd Qu.: 9983 3rd Qu.: 0.0000   3rd Qu.: 0.0000   3rd Qu.: 0.0000
##  Max.   :13310 Max.   :124.0000  Max.   :195.0000  Max.   :270.0000
##      T7_1        T7_2        T7_3        DF_1
##  Min.   : 0.0000   Min.   : 0.0000   Min.   : 0.0000   Min.   : 0.0000

```

```

## 1st Qu.: 0.0000 1st Qu.: 0.0000 1st Qu.: 0.0000 1st Qu.: 0.0000
## Median : 0.0000 Median : 0.0000 Median : 0.0000 Median : 0.0000
## Mean : 0.2181 Mean : 0.2516 Mean : 0.2085 Mean : 0.2636
## 3rd Qu.: 0.0000 3rd Qu.: 0.0000 3rd Qu.: 0.0000 3rd Qu.: 0.0000
## Max. :151.0000 Max. :120.0000 Max. :83.0000 Max. :92.0000
## DF_2 CF_1 CF_2 CF_3
## Min. : 0.0000 Min. : 0.0000 Min. : 0.0000 Min. : 0.0000
## 1st Qu.: 0.0000 1st Qu.: 0.0000 1st Qu.: 0.0000 1st Qu.: 0.0000
## Median : 0.0000 Median : 0.0000 Median : 0.0000 Median : 0.0000
## Mean : 0.2135 Mean : 0.2129 Mean : 0.1759 Mean : 0.1731
## 3rd Qu.: 0.0000 3rd Qu.: 0.0000 3rd Qu.: 0.0000 3rd Qu.: 0.0000
## Max. :64.0000 Max. :164.0000 Max. :140.0000 Max. :190.0000

```

```
nrow(mic)
```

```
## [1] 13310
```

```
#transpose the mic
t_mic<-t(mic)
specnumber(t(mic))
```

```

## OTU T1_1 T1_2 T1_3 T7_1 T7_2 T7_3 DF_1 DF_2 CF_1 CF_2 CF_3
## 13310 1074 1302 1174 1416 1406 1143 1806 1151 924 1122 851

```

```
#make into a dataframe
bac_OTU<-as.vector(mic[,1])
bac_OTU
```

##	[1]	1	2	3	4	5	6	7	8	9	10	11	12
##	[13]	13	14	15	16	17	18	19	20	21	22	23	24
##	[25]	25	26	27	28	29	30	31	32	33	34	35	36
##	[37]	37	38	39	40	41	42	43	44	45	46	47	48
##	[49]	49	50	51	52	53	54	55	56	57	58	59	60
##	[61]	61	62	63	64	65	66	67	68	69	70	71	72
##	[73]	73	74	75	76	77	78	79	80	81	82	83	84
##	[85]	85	86	87	88	89	90	91	92	93	94	95	96
##	[97]	97	98	99	100	101	102	103	104	105	106	107	108
##	[109]	109	110	111	112	113	114	115	116	117	118	119	120
##	[121]	121	122	123	124	125	126	127	128	129	130	131	132
##	[133]	133	134	135	136	137	138	139	140	141	142	143	144
##	[145]	145	146	147	148	149	150	151	152	153	154	155	156
##	[157]	157	158	159	160	161	162	163	164	165	166	167	168
##	[169]	169	170	171	172	173	174	175	176	177	178	179	180
##	[181]	181	182	183	184	185	186	187	188	189	190	191	192
##	[193]	193	194	195	196	197	198	199	200	201	202	203	204
##	[205]	205	206	207	208	209	210	211	212	213	214	215	216
##	[217]	217	218	219	220	221	222	223	224	225	226	227	228
##	[229]	229	230	231	232	233	234	235	236	237	238	239	240
##	[241]	241	242	243	244	245	246	247	248	249	250	251	252
##	[253]	253	254	255	256	257	258	259	260	261	262	263	264
##	[265]	265	266	267	268	269	270	271	272	273	274	275	276
##	[277]	277	278	279	280	281	282	283	284	285	286	287	288

##	[289]	289	290	291	292	293	294	295	296	297	298	299	300
##	[301]	301	302	303	304	305	306	307	308	309	310	311	312
##	[313]	313	314	315	316	317	318	319	320	321	322	323	324
##	[325]	325	326	327	328	329	330	331	332	333	334	335	336
##	[337]	337	338	339	340	341	342	343	344	345	346	347	348
##	[349]	349	350	351	352	353	354	355	356	357	358	359	360
##	[361]	361	362	363	364	365	366	367	368	369	370	371	372
##	[373]	373	374	375	376	377	378	379	380	381	382	383	384
##	[385]	385	386	387	388	389	390	391	392	393	394	395	396
##	[397]	397	398	399	400	401	402	403	404	405	406	407	408
##	[409]	409	410	411	412	413	414	415	416	417	418	419	420
##	[421]	421	422	423	424	425	426	427	428	429	430	431	432
##	[433]	433	434	435	436	437	438	439	440	441	442	443	444
##	[445]	445	446	447	448	449	450	451	452	453	454	455	456
##	[457]	457	458	459	460	461	462	463	464	465	466	467	468
##	[469]	469	470	471	472	473	474	475	476	477	478	479	480
##	[481]	481	482	483	484	485	486	487	488	489	490	491	492
##	[493]	493	494	495	496	497	498	499	500	501	502	503	504
##	[505]	505	506	507	508	509	510	511	512	513	514	515	516
##	[517]	517	518	519	520	521	522	523	524	525	526	527	528
##	[529]	529	530	531	532	533	534	535	536	537	538	539	540
##	[541]	541	542	543	544	545	546	547	548	549	550	551	552
##	[553]	553	554	555	556	557	558	559	560	561	562	563	564
##	[565]	565	566	567	568	569	570	571	572	573	574	575	576
##	[577]	577	578	579	580	581	582	583	584	585	586	587	588
##	[589]	589	590	591	592	593	594	595	596	597	598	599	600
##	[601]	601	602	603	604	605	606	607	608	609	610	611	612
##	[613]	613	614	615	616	617	618	619	620	621	622	623	624
##	[625]	625	626	627	628	629	630	631	632	633	634	635	636
##	[637]	637	638	639	640	641	642	643	644	645	646	647	648
##	[649]	649	650	651	652	653	654	655	656	657	658	659	660
##	[661]	661	662	663	664	665	666	667	668	669	670	671	672
##	[673]	673	674	675	676	677	678	679	680	681	682	683	684
##	[685]	685	686	687	688	689	690	691	692	693	694	695	696
##	[697]	697	698	699	700	701	702	703	704	705	706	707	708
##	[709]	709	710	711	712	713	714	715	716	717	718	719	720
##	[721]	721	722	723	724	725	726	727	728	729	730	731	732
##	[733]	733	734	735	736	737	738	739	740	741	742	743	744
##	[745]	745	746	747	748	749	750	751	752	753	754	755	756
##	[757]	757	758	759	760	761	762	763	764	765	766	767	768
##	[769]	769	770	771	772	773	774	775	776	777	778	779	780
##	[781]	781	782	783	784	785	786	787	788	789	790	791	792
##	[793]	793	794	795	796	797	798	799	800	801	802	803	804
##	[805]	805	806	807	808	809	810	811	812	813	814	815	816
##	[817]	817	818	819	820	821	822	823	824	825	826	827	828
##	[829]	829	830	831	832	833	834	835	836	837	838	839	840
##	[841]	841	842	843	844	845	846	847	848	849	850	851	852
##	[853]	853	854	855	856	857	858	859	860	861	862	863	864
##	[865]	865	866	867	868	869	870	871	872	873	874	875	876
##	[877]	877	878	879	880	881	882	883	884	885	886	887	888
##	[889]	889	890	891	892	893	894	895	896	897	898	899	900
##	[901]	901	902	903	904	905	906	907	908	909	910	911	912
##	[913]	913	914	915	916	917	918	919	920	921	922	923	924
##	[925]	925	926	927	928	929	930	931	932	933	934	935	936

##	[937]	937	938	939	940	941	942	943	944	945	946	947	948
##	[949]	949	950	951	952	953	954	955	956	957	958	959	960
##	[961]	961	962	963	964	965	966	967	968	969	970	971	972
##	[973]	973	974	975	976	977	978	979	980	981	982	983	984
##	[985]	985	986	987	988	989	990	991	992	993	994	995	996
##	[997]	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008
##	[1009]	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020
##	[1021]	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032
##	[1033]	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044
##	[1045]	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056
##	[1057]	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068
##	[1069]	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080
##	[1081]	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092
##	[1093]	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104
##	[1105]	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116
##	[1117]	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128
##	[1129]	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140
##	[1141]	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152
##	[1153]	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164
##	[1165]	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176
##	[1177]	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188
##	[1189]	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200
##	[1201]	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212
##	[1213]	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224
##	[1225]	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236
##	[1237]	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248
##	[1249]	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260
##	[1261]	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272
##	[1273]	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284
##	[1285]	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296
##	[1297]	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308
##	[1309]	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320
##	[1321]	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332
##	[1333]	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344
##	[1345]	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356
##	[1357]	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368
##	[1369]	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380
##	[1381]	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392
##	[1393]	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404
##	[1405]	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416
##	[1417]	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428
##	[1429]	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440
##	[1441]	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452
##	[1453]	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464
##	[1465]	1465	1466	1467	1468	1469	1470	1471	1472	1473	1474	1475	1476
##	[1477]	1477	1478	1479	1480	1481	1482	1483	1484	1485	1486	1487	1488
##	[1489]	1489	1490	1491	1492	1493	1494	1495	1496	1497	1498	1499	1500
##	[1501]	1501	1502	1503	1504	1505	1506	1507	1508	1509	1510	1511	1512
##	[1513]	1513	1514	1515	1516	1517	1518	1519	1520	1521	1522	1523	1524
##	[1525]	1525	1526	1527	1528	1529	1530	1531	1532	1533	1534	1535	1536
##	[1537]	1537	1538	1539	1540	1541	1542	1543	1544	1545	1546	1547	1548
##	[1549]	1549	1550	1551	1552	1553	1554	1555	1556	1557	1558	1559	1560
##	[1561]	1561	1562	1563	1564	1565	1566	1567	1568	1569	1570	1571	1572
##	[1573]	1573	1574	1575	1576	1577	1578	1579	1580	1581	1582	1583	1584

```

## [1585] 1585 1586 1587 1588 1589 1590 1591 1592 1593 1594 1595 1596
## [1597] 1597 1598 1599 1600 1601 1602 1603 1604 1605 1606 1607 1608
## [1609] 1609 1610 1611 1612 1613 1614 1615 1616 1617 1618 1619 1620
## [1621] 1621 1622 1623 1624 1625 1626 1627 1628 1629 1630 1631 1632
## [1633] 1633 1634 1635 1636 1637 1638 1639 1640 1641 1642 1643 1644
## [1645] 1645 1646 1647 1648 1649 1650 1651 1652 1653 1654 1655 1656
## [1657] 1657 1658 1659 1660 1661 1662 1663 1664 1665 1666 1667 1668
## [1669] 1669 1670 1671 1672 1673 1674 1675 1676 1677 1678 1679 1680
## [1681] 1681 1682 1683 1684 1685 1686 1687 1688 1689 1690 1691 1692
## [1693] 1693 1694 1695 1696 1697 1698 1699 1700 1701 1702 1703 1704
## [1705] 1705 1706 1707 1708 1709 1710 1711 1712 1713 1714 1715 1716
## [1717] 1717 1718 1719 1720 1721 1722 1723 1724 1725 1726 1727 1728
## [1729] 1729 1730 1731 1732 1733 1734 1735 1736 1737 1738 1739 1740
## [1741] 1741 1742 1743 1744 1745 1746 1747 1748 1749 1750 1751 1752
## [1753] 1753 1754 1755 1756 1757 1758 1759 1760 1761 1762 1763 1764
## [1765] 1765 1766 1767 1768 1769 1770 1771 1772 1773 1774 1775 1776
## [1777] 1777 1778 1779 1780 1781 1782 1783 1784 1785 1786 1787 1788
## [1789] 1789 1790 1791 1792 1793 1794 1795 1796 1797 1798 1799 1800
## [1801] 1801 1802 1803 1804 1805 1806 1807 1808 1809 1810 1811 1812
## [1813] 1813 1814 1815 1816 1817 1818 1819 1820 1821 1822 1823 1824
## [1825] 1825 1826 1827 1828 1829 1830 1831 1832 1833 1834 1835 1836
## [1837] 1837 1838 1839 1840 1841 1842 1843 1844 1845 1846 1847 1848
## [1849] 1849 1850 1851 1852 1853 1854 1855 1856 1857 1858 1859 1860
## [1861] 1861 1862 1863 1864 1865 1866 1867 1868 1869 1870 1871 1872
## [1873] 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884
## [1885] 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896
## [1897] 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908
## [1909] 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920
## [1921] 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932
## [1933] 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944
## [1945] 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956
## [1957] 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968
## [1969] 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980
## [1981] 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992
## [1993] 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004
## [2005] 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
## [2017] 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028
## [2029] 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040
## [2041] 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052
## [2053] 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064
## [2065] 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076
## [2077] 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088
## [2089] 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100
## [2101] 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112
## [2113] 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124
## [2125] 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136
## [2137] 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148
## [2149] 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160
## [2161] 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172
## [2173] 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184
## [2185] 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196
## [2197] 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208
## [2209] 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220
## [2221] 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232

```

```

## [2233] 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244
## [2245] 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256
## [2257] 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268
## [2269] 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280
## [2281] 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292
## [2293] 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304
## [2305] 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316
## [2317] 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328
## [2329] 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340
## [2341] 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352
## [2353] 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364
## [2365] 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376
## [2377] 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388
## [2389] 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400
## [2401] 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412
## [2413] 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424
## [2425] 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436
## [2437] 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448
## [2449] 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460
## [2461] 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472
## [2473] 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484
## [2485] 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496
## [2497] 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508
## [2509] 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520
## [2521] 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532
## [2533] 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544
## [2545] 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556
## [2557] 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568
## [2569] 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580
## [2581] 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592
## [2593] 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604
## [2605] 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616
## [2617] 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628
## [2629] 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640
## [2641] 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652
## [2653] 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664
## [2665] 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676
## [2677] 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688
## [2689] 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700
## [2701] 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712
## [2713] 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724
## [2725] 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736
## [2737] 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748
## [2749] 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760
## [2761] 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772
## [2773] 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784
## [2785] 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796
## [2797] 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808
## [2809] 2809 2810 2811 2812 2813 2814 2815 2816 2817 2818 2819 2820
## [2821] 2821 2822 2823 2824 2825 2826 2827 2828 2829 2830 2831 2832
## [2833] 2833 2834 2835 2836 2837 2838 2839 2840 2841 2842 2843 2844
## [2845] 2845 2846 2847 2848 2849 2850 2851 2852 2853 2854 2855 2856
## [2857] 2857 2858 2859 2860 2861 2862 2863 2864 2865 2866 2867 2868
## [2869] 2869 2870 2871 2872 2873 2874 2875 2876 2877 2878 2879 2880

```

```

## [2881] 2881 2882 2883 2884 2885 2886 2887 2888 2889 2890 2891 2892
## [2893] 2893 2894 2895 2896 2897 2898 2899 2900 2901 2902 2903 2904
## [2905] 2905 2906 2907 2908 2909 2910 2911 2912 2913 2914 2915 2916
## [2917] 2917 2918 2919 2920 2921 2922 2923 2924 2925 2926 2927 2928
## [2929] 2929 2930 2931 2932 2933 2934 2935 2936 2937 2938 2939 2940
## [2941] 2941 2942 2943 2944 2945 2946 2947 2948 2949 2950 2951 2952
## [2953] 2953 2954 2955 2956 2957 2958 2959 2960 2961 2962 2963 2964
## [2965] 2965 2966 2967 2968 2969 2970 2971 2972 2973 2974 2975 2976
## [2977] 2977 2978 2979 2980 2981 2982 2983 2984 2985 2986 2987 2988
## [2989] 2989 2990 2991 2992 2993 2994 2995 2996 2997 2998 2999 3000
## [3001] 3001 3002 3003 3004 3005 3006 3007 3008 3009 3010 3011 3012
## [3013] 3013 3014 3015 3016 3017 3018 3019 3020 3021 3022 3023 3024
## [3025] 3025 3026 3027 3028 3029 3030 3031 3032 3033 3034 3035 3036
## [3037] 3037 3038 3039 3040 3041 3042 3043 3044 3045 3046 3047 3048
## [3049] 3049 3050 3051 3052 3053 3054 3055 3056 3057 3058 3059 3060
## [3061] 3061 3062 3063 3064 3065 3066 3067 3068 3069 3070 3071 3072
## [3073] 3073 3074 3075 3076 3077 3078 3079 3080 3081 3082 3083 3084
## [3085] 3085 3086 3087 3088 3089 3090 3091 3092 3093 3094 3095 3096
## [3097] 3097 3098 3099 3100 3101 3102 3103 3104 3105 3106 3107 3108
## [3109] 3109 3110 3111 3112 3113 3114 3115 3116 3117 3118 3119 3120
## [3121] 3121 3122 3123 3124 3125 3126 3127 3128 3129 3130 3131 3132
## [3133] 3133 3134 3135 3136 3137 3138 3139 3140 3141 3142 3143 3144
## [3145] 3145 3146 3147 3148 3149 3150 3151 3152 3153 3154 3155 3156
## [3157] 3157 3158 3159 3160 3161 3162 3163 3164 3165 3166 3167 3168
## [3169] 3169 3170 3171 3172 3173 3174 3175 3176 3177 3178 3179 3180
## [3181] 3181 3182 3183 3184 3185 3186 3187 3188 3189 3190 3191 3192
## [3193] 3193 3194 3195 3196 3197 3198 3199 3200 3201 3202 3203 3204
## [3205] 3205 3206 3207 3208 3209 3210 3211 3212 3213 3214 3215 3216
## [3217] 3217 3218 3219 3220 3221 3222 3223 3224 3225 3226 3227 3228
## [3229] 3229 3230 3231 3232 3233 3234 3235 3236 3237 3238 3239 3240
## [3241] 3241 3242 3243 3244 3245 3246 3247 3248 3249 3250 3251 3252
## [3253] 3253 3254 3255 3256 3257 3258 3259 3260 3261 3262 3263 3264
## [3265] 3265 3266 3267 3268 3269 3270 3271 3272 3273 3274 3275 3276
## [3277] 3277 3278 3279 3280 3281 3282 3283 3284 3285 3286 3287 3288
## [3289] 3289 3290 3291 3292 3293 3294 3295 3296 3297 3298 3299 3300
## [3301] 3301 3302 3303 3304 3305 3306 3307 3308 3309 3310 3311 3312
## [3313] 3313 3314 3315 3316 3317 3318 3319 3320 3321 3322 3323 3324
## [3325] 3325 3326 3327 3328 3329 3330 3331 3332 3333 3334 3335 3336
## [3337] 3337 3338 3339 3340 3341 3342 3343 3344 3345 3346 3347 3348
## [3349] 3349 3350 3351 3352 3353 3354 3355 3356 3357 3358 3359 3360
## [3361] 3361 3362 3363 3364 3365 3366 3367 3368 3369 3370 3371 3372
## [3373] 3373 3374 3375 3376 3377 3378 3379 3380 3381 3382 3383 3384
## [3385] 3385 3386 3387 3388 3389 3390 3391 3392 3393 3394 3395 3396
## [3397] 3397 3398 3399 3400 3401 3402 3403 3404 3405 3406 3407 3408
## [3409] 3409 3410 3411 3412 3413 3414 3415 3416 3417 3418 3419 3420
## [3421] 3421 3422 3423 3424 3425 3426 3427 3428 3429 3430 3431 3432
## [3433] 3433 3434 3435 3436 3437 3438 3439 3440 3441 3442 3443 3444
## [3445] 3445 3446 3447 3448 3449 3450 3451 3452 3453 3454 3455 3456
## [3457] 3457 3458 3459 3460 3461 3462 3463 3464 3465 3466 3467 3468
## [3469] 3469 3470 3471 3472 3473 3474 3475 3476 3477 3478 3479 3480
## [3481] 3481 3482 3483 3484 3485 3486 3487 3488 3489 3490 3491 3492
## [3493] 3493 3494 3495 3496 3497 3498 3499 3500 3501 3502 3503 3504
## [3505] 3505 3506 3507 3508 3509 3510 3511 3512 3513 3514 3515 3516
## [3517] 3517 3518 3519 3520 3521 3522 3523 3524 3525 3526 3527 3528

```

```

## [3529] 3529 3530 3531 3532 3533 3534 3535 3536 3537 3538 3539 3540
## [3541] 3541 3542 3543 3544 3545 3546 3547 3548 3549 3550 3551 3552
## [3553] 3553 3554 3555 3556 3557 3558 3559 3560 3561 3562 3563 3564
## [3565] 3565 3566 3567 3568 3569 3570 3571 3572 3573 3574 3575 3576
## [3577] 3577 3578 3579 3580 3581 3582 3583 3584 3585 3586 3587 3588
## [3589] 3589 3590 3591 3592 3593 3594 3595 3596 3597 3598 3599 3600
## [3601] 3601 3602 3603 3604 3605 3606 3607 3608 3609 3610 3611 3612
## [3613] 3613 3614 3615 3616 3617 3618 3619 3620 3621 3622 3623 3624
## [3625] 3625 3626 3627 3628 3629 3630 3631 3632 3633 3634 3635 3636
## [3637] 3637 3638 3639 3640 3641 3642 3643 3644 3645 3646 3647 3648
## [3649] 3649 3650 3651 3652 3653 3654 3655 3656 3657 3658 3659 3660
## [3661] 3661 3662 3663 3664 3665 3666 3667 3668 3669 3670 3671 3672
## [3673] 3673 3674 3675 3676 3677 3678 3679 3680 3681 3682 3683 3684
## [3685] 3685 3686 3687 3688 3689 3690 3691 3692 3693 3694 3695 3696
## [3697] 3697 3698 3699 3700 3701 3702 3703 3704 3705 3706 3707 3708
## [3709] 3709 3710 3711 3712 3713 3714 3715 3716 3717 3718 3719 3720
## [3721] 3721 3722 3723 3724 3725 3726 3727 3728 3729 3730 3731 3732
## [3733] 3733 3734 3735 3736 3737 3738 3739 3740 3741 3742 3743 3744
## [3745] 3745 3746 3747 3748 3749 3750 3751 3752 3753 3754 3755 3756
## [3757] 3757 3758 3759 3760 3761 3762 3763 3764 3765 3766 3767 3768
## [3769] 3769 3770 3771 3772 3773 3774 3775 3776 3777 3778 3779 3780
## [3781] 3781 3782 3783 3784 3785 3786 3787 3788 3789 3790 3791 3792
## [3793] 3793 3794 3795 3796 3797 3798 3799 3800 3801 3802 3803 3804
## [3805] 3805 3806 3807 3808 3809 3810 3811 3812 3813 3814 3815 3816
## [3817] 3817 3818 3819 3820 3821 3822 3823 3824 3825 3826 3827 3828
## [3829] 3829 3830 3831 3832 3833 3834 3835 3836 3837 3838 3839 3840
## [3841] 3841 3842 3843 3844 3845 3846 3847 3848 3849 3850 3851 3852
## [3853] 3853 3854 3855 3856 3857 3858 3859 3860 3861 3862 3863 3864
## [3865] 3865 3866 3867 3868 3869 3870 3871 3872 3873 3874 3875 3876
## [3877] 3877 3878 3879 3880 3881 3882 3883 3884 3885 3886 3887 3888
## [3889] 3889 3890 3891 3892 3893 3894 3895 3896 3897 3898 3899 3900
## [3901] 3901 3902 3903 3904 3905 3906 3907 3908 3909 3910 3911 3912
## [3913] 3913 3914 3915 3916 3917 3918 3919 3920 3921 3922 3923 3924
## [3925] 3925 3926 3927 3928 3929 3930 3931 3932 3933 3934 3935 3936
## [3937] 3937 3938 3939 3940 3941 3942 3943 3944 3945 3946 3947 3948
## [3949] 3949 3950 3951 3952 3953 3954 3955 3956 3957 3958 3959 3960
## [3961] 3961 3962 3963 3964 3965 3966 3967 3968 3969 3970 3971 3972
## [3973] 3973 3974 3975 3976 3977 3978 3979 3980 3981 3982 3983 3984
## [3985] 3985 3986 3987 3988 3989 3990 3991 3992 3993 3994 3995 3996
## [3997] 3997 3998 3999 4000 4001 4002 4003 4004 4005 4006 4007 4008
## [4009] 4009 4010 4011 4012 4013 4014 4015 4016 4017 4018 4019 4020
## [4021] 4021 4022 4023 4024 4025 4026 4027 4028 4029 4030 4031 4032
## [4033] 4033 4034 4035 4036 4037 4038 4039 4040 4041 4042 4043 4044
## [4045] 4045 4046 4047 4048 4049 4050 4051 4052 4053 4054 4055 4056
## [4057] 4057 4058 4059 4060 4061 4062 4063 4064 4065 4066 4067 4068
## [4069] 4069 4070 4071 4072 4073 4074 4075 4076 4077 4078 4079 4080
## [4081] 4081 4082 4083 4084 4085 4086 4087 4088 4089 4090 4091 4092
## [4093] 4093 4094 4095 4096 4097 4098 4099 4100 4101 4102 4103 4104
## [4105] 4105 4106 4107 4108 4109 4110 4111 4112 4113 4114 4115 4116
## [4117] 4117 4118 4119 4120 4121 4122 4123 4124 4125 4126 4127 4128
## [4129] 4129 4130 4131 4132 4133 4134 4135 4136 4137 4138 4139 4140
## [4141] 4141 4142 4143 4144 4145 4146 4147 4148 4149 4150 4151 4152
## [4153] 4153 4154 4155 4156 4157 4158 4159 4160 4161 4162 4163 4164
## [4165] 4165 4166 4167 4168 4169 4170 4171 4172 4173 4174 4175 4176

```

##	[4177]	4177	4178	4179	4180	4181	4182	4183	4184	4185	4186	4187	4188
##	[4189]	4189	4190	4191	4192	4193	4194	4195	4196	4197	4198	4199	4200
##	[4201]	4201	4202	4203	4204	4205	4206	4207	4208	4209	4210	4211	4212
##	[4213]	4213	4214	4215	4216	4217	4218	4219	4220	4221	4222	4223	4224
##	[4225]	4225	4226	4227	4228	4229	4230	4231	4232	4233	4234	4235	4236
##	[4237]	4237	4238	4239	4240	4241	4242	4243	4244	4245	4246	4247	4248
##	[4249]	4249	4250	4251	4252	4253	4254	4255	4256	4257	4258	4259	4260
##	[4261]	4261	4262	4263	4264	4265	4266	4267	4268	4269	4270	4271	4272
##	[4273]	4273	4274	4275	4276	4277	4278	4279	4280	4281	4282	4283	4284
##	[4285]	4285	4286	4287	4288	4289	4290	4291	4292	4293	4294	4295	4296
##	[4297]	4297	4298	4299	4300	4301	4302	4303	4304	4305	4306	4307	4308
##	[4309]	4309	4310	4311	4312	4313	4314	4315	4316	4317	4318	4319	4320
##	[4321]	4321	4322	4323	4324	4325	4326	4327	4328	4329	4330	4331	4332
##	[4333]	4333	4334	4335	4336	4337	4338	4339	4340	4341	4342	4343	4344
##	[4345]	4345	4346	4347	4348	4349	4350	4351	4352	4353	4354	4355	4356
##	[4357]	4357	4358	4359	4360	4361	4362	4363	4364	4365	4366	4367	4368
##	[4369]	4369	4370	4371	4372	4373	4374	4375	4376	4377	4378	4379	4380
##	[4381]	4381	4382	4383	4384	4385	4386	4387	4388	4389	4390	4391	4392
##	[4393]	4393	4394	4395	4396	4397	4398	4399	4400	4401	4402	4403	4404
##	[4405]	4405	4406	4407	4408	4409	4410	4411	4412	4413	4414	4415	4416
##	[4417]	4417	4418	4419	4420	4421	4422	4423	4424	4425	4426	4427	4428
##	[4429]	4429	4430	4431	4432	4433	4434	4435	4436	4437	4438	4439	4440
##	[4441]	4441	4442	4443	4444	4445	4446	4447	4448	4449	4450	4451	4452
##	[4453]	4453	4454	4455	4456	4457	4458	4459	4460	4461	4462	4463	4464
##	[4465]	4465	4466	4467	4468	4469	4470	4471	4472	4473	4474	4475	4476
##	[4477]	4477	4478	4479	4480	4481	4482	4483	4484	4485	4486	4487	4488
##	[4489]	4489	4490	4491	4492	4493	4494	4495	4496	4497	4498	4499	4500
##	[4501]	4501	4502	4503	4504	4505	4506	4507	4508	4509	4510	4511	4512
##	[4513]	4513	4514	4515	4516	4517	4518	4519	4520	4521	4522	4523	4524
##	[4525]	4525	4526	4527	4528	4529	4530	4531	4532	4533	4534	4535	4536
##	[4537]	4537	4538	4539	4540	4541	4542	4543	4544	4545	4546	4547	4548
##	[4549]	4549	4550	4551	4552	4553	4554	4555	4556	4557	4558	4559	4560
##	[4561]	4561	4562	4563	4564	4565	4566	4567	4568	4569	4570	4571	4572
##	[4573]	4573	4574	4575	4576	4577	4578	4579	4580	4581	4582	4583	4584
##	[4585]	4585	4586	4587	4588	4589	4590	4591	4592	4593	4594	4595	4596
##	[4597]	4597	4598	4599	4600	4601	4602	4603	4604	4605	4606	4607	4608
##	[4609]	4609	4610	4611	4612	4613	4614	4615	4616	4617	4618	4619	4620
##	[4621]	4621	4622	4623	4624	4625	4626	4627	4628	4629	4630	4631	4632
##	[4633]	4633	4634	4635	4636	4637	4638	4639	4640	4641	4642	4643	4644
##	[4645]	4645	4646	4647	4648	4649	4650	4651	4652	4653	4654	4655	4656
##	[4657]	4657	4658	4659	4660	4661	4662	4663	4664	4665	4666	4667	4668
##	[4669]	4669	4670	4671	4672	4673	4674	4675	4676	4677	4678	4679	4680
##	[4681]	4681	4682	4683	4684	4685	4686	4687	4688	4689	4690	4691	4692
##	[4693]	4693	4694	4695	4696	4697	4698	4699	4700	4701	4702	4703	4704
##	[4705]	4705	4706	4707	4708	4709	4710	4711	4712	4713	4714	4715	4716
##	[4717]	4717	4718	4719	4720	4721	4722	4723	4724	4725	4726	4727	4728
##	[4729]	4729	4730	4731	4732	4733	4734	4735	4736	4737	4738	4739	4740
##	[4741]	4741	4742	4743	4744	4745	4746	4747	4748	4749	4750	4751	4752
##	[4753]	4753	4754	4755	4756	4757	4758	4759	4760	4761	4762	4763	4764
##	[4765]	4765	4766	4767	4768	4769	4770	4771	4772	4773	4774	4775	4776
##	[4777]	4777	4778	4779	4780	4781	4782	4783	4784	4785	4786	4787	4788
##	[4789]	4789	4790	4791	4792	4793	4794	4795	4796	4797	4798	4799	4800
##	[4801]	4801	4802	4803	4804	4805	4806	4807	4808	4809	4810	4811	4812
##	[4813]	4813	4814	4815	4816	4817	4818	4819	4820	4821	4822	4823	4824

##	[4825]	4825	4826	4827	4828	4829	4830	4831	4832	4833	4834	4835	4836
##	[4837]	4837	4838	4839	4840	4841	4842	4843	4844	4845	4846	4847	4848
##	[4849]	4849	4850	4851	4852	4853	4854	4855	4856	4857	4858	4859	4860
##	[4861]	4861	4862	4863	4864	4865	4866	4867	4868	4869	4870	4871	4872
##	[4873]	4873	4874	4875	4876	4877	4878	4879	4880	4881	4882	4883	4884
##	[4885]	4885	4886	4887	4888	4889	4890	4891	4892	4893	4894	4895	4896
##	[4897]	4897	4898	4899	4900	4901	4902	4903	4904	4905	4906	4907	4908
##	[4909]	4909	4910	4911	4912	4913	4914	4915	4916	4917	4918	4919	4920
##	[4921]	4921	4922	4923	4924	4925	4926	4927	4928	4929	4930	4931	4932
##	[4933]	4933	4934	4935	4936	4937	4938	4939	4940	4941	4942	4943	4944
##	[4945]	4945	4946	4947	4948	4949	4950	4951	4952	4953	4954	4955	4956
##	[4957]	4957	4958	4959	4960	4961	4962	4963	4964	4965	4966	4967	4968
##	[4969]	4969	4970	4971	4972	4973	4974	4975	4976	4977	4978	4979	4980
##	[4981]	4981	4982	4983	4984	4985	4986	4987	4988	4989	4990	4991	4992
##	[4993]	4993	4994	4995	4996	4997	4998	4999	5000	5001	5002	5003	5004
##	[5005]	5005	5006	5007	5008	5009	5010	5011	5012	5013	5014	5015	5016
##	[5017]	5017	5018	5019	5020	5021	5022	5023	5024	5025	5026	5027	5028
##	[5029]	5029	5030	5031	5032	5033	5034	5035	5036	5037	5038	5039	5040
##	[5041]	5041	5042	5043	5044	5045	5046	5047	5048	5049	5050	5051	5052
##	[5053]	5053	5054	5055	5056	5057	5058	5059	5060	5061	5062	5063	5064
##	[5065]	5065	5066	5067	5068	5069	5070	5071	5072	5073	5074	5075	5076
##	[5077]	5077	5078	5079	5080	5081	5082	5083	5084	5085	5086	5087	5088
##	[5089]	5089	5090	5091	5092	5093	5094	5095	5096	5097	5098	5099	5100
##	[5101]	5101	5102	5103	5104	5105	5106	5107	5108	5109	5110	5111	5112
##	[5113]	5113	5114	5115	5116	5117	5118	5119	5120	5121	5122	5123	5124
##	[5125]	5125	5126	5127	5128	5129	5130	5131	5132	5133	5134	5135	5136
##	[5137]	5137	5138	5139	5140	5141	5142	5143	5144	5145	5146	5147	5148
##	[5149]	5149	5150	5151	5152	5153	5154	5155	5156	5157	5158	5159	5160
##	[5161]	5161	5162	5163	5164	5165	5166	5167	5168	5169	5170	5171	5172
##	[5173]	5173	5174	5175	5176	5177	5178	5179	5180	5181	5182	5183	5184
##	[5185]	5185	5186	5187	5188	5189	5190	5191	5192	5193	5194	5195	5196
##	[5197]	5197	5198	5199	5200	5201	5202	5203	5204	5205	5206	5207	5208
##	[5209]	5209	5210	5211	5212	5213	5214	5215	5216	5217	5218	5219	5220
##	[5221]	5221	5222	5223	5224	5225	5226	5227	5228	5229	5230	5231	5232
##	[5233]	5233	5234	5235	5236	5237	5238	5239	5240	5241	5242	5243	5244
##	[5245]	5245	5246	5247	5248	5249	5250	5251	5252	5253	5254	5255	5256
##	[5257]	5257	5258	5259	5260	5261	5262	5263	5264	5265	5266	5267	5268
##	[5269]	5269	5270	5271	5272	5273	5274	5275	5276	5277	5278	5279	5280
##	[5281]	5281	5282	5283	5284	5285	5286	5287	5288	5289	5290	5291	5292
##	[5293]	5293	5294	5295	5296	5297	5298	5299	5300	5301	5302	5303	5304
##	[5305]	5305	5306	5307	5308	5309	5310	5311	5312	5313	5314	5315	5316
##	[5317]	5317	5318	5319	5320	5321	5322	5323	5324	5325	5326	5327	5328
##	[5329]	5329	5330	5331	5332	5333	5334	5335	5336	5337	5338	5339	5340
##	[5341]	5341	5342	5343	5344	5345	5346	5347	5348	5349	5350	5351	5352
##	[5353]	5353	5354	5355	5356	5357	5358	5359	5360	5361	5362	5363	5364
##	[5365]	5365	5366	5367	5368	5369	5370	5371	5372	5373	5374	5375	5376
##	[5377]	5377	5378	5379	5380	5381	5382	5383	5384	5385	5386	5387	5388
##	[5389]	5389	5390	5391	5392	5393	5394	5395	5396	5397	5398	5399	5400
##	[5401]	5401	5402	5403	5404	5405	5406	5407	5408	5409	5410	5411	5412
##	[5413]	5413	5414	5415	5416	5417	5418	5419	5420	5421	5422	5423	5424
##	[5425]	5425	5426	5427	5428	5429	5430	5431	5432	5433	5434	5435	5436
##	[5437]	5437	5438	5439	5440	5441	5442	5443	5444	5445	5446	5447	5448
##	[5449]	5449	5450	5451	5452	5453	5454	5455	5456	5457	5458	5459	5460
##	[5461]	5461	5462	5463	5464	5465	5466	5467	5468	5469	5470	5471	5472

```

## [5473] 5473 5474 5475 5476 5477 5478 5479 5480 5481 5482 5483 5484
## [5485] 5485 5486 5487 5488 5489 5490 5491 5492 5493 5494 5495 5496
## [5497] 5497 5498 5499 5500 5501 5502 5503 5504 5505 5506 5507 5508
## [5509] 5509 5510 5511 5512 5513 5514 5515 5516 5517 5518 5519 5520
## [5521] 5521 5522 5523 5524 5525 5526 5527 5528 5529 5530 5531 5532
## [5533] 5533 5534 5535 5536 5537 5538 5539 5540 5541 5542 5543 5544
## [5545] 5545 5546 5547 5548 5549 5550 5551 5552 5553 5554 5555 5556
## [5557] 5557 5558 5559 5560 5561 5562 5563 5564 5565 5566 5567 5568
## [5569] 5569 5570 5571 5572 5573 5574 5575 5576 5577 5578 5579 5580
## [5581] 5581 5582 5583 5584 5585 5586 5587 5588 5589 5590 5591 5592
## [5593] 5593 5594 5595 5596 5597 5598 5599 5600 5601 5602 5603 5604
## [5605] 5605 5606 5607 5608 5609 5610 5611 5612 5613 5614 5615 5616
## [5617] 5617 5618 5619 5620 5621 5622 5623 5624 5625 5626 5627 5628
## [5629] 5629 5630 5631 5632 5633 5634 5635 5636 5637 5638 5639 5640
## [5641] 5641 5642 5643 5644 5645 5646 5647 5648 5649 5650 5651 5652
## [5653] 5653 5654 5655 5656 5657 5658 5659 5660 5661 5662 5663 5664
## [5665] 5665 5666 5667 5668 5669 5670 5671 5672 5673 5674 5675 5676
## [5677] 5677 5678 5679 5680 5681 5682 5683 5684 5685 5686 5687 5688
## [5689] 5689 5690 5691 5692 5693 5694 5695 5696 5697 5698 5699 5700
## [5701] 5701 5702 5703 5704 5705 5706 5707 5708 5709 5710 5711 5712
## [5713] 5713 5714 5715 5716 5717 5718 5719 5720 5721 5722 5723 5724
## [5725] 5725 5726 5727 5728 5729 5730 5731 5732 5733 5734 5735 5736
## [5737] 5737 5738 5739 5740 5741 5742 5743 5744 5745 5746 5747 5748
## [5749] 5749 5750 5751 5752 5753 5754 5755 5756 5757 5758 5759 5760
## [5761] 5761 5762 5763 5764 5765 5766 5767 5768 5769 5770 5771 5772
## [5773] 5773 5774 5775 5776 5777 5778 5779 5780 5781 5782 5783 5784
## [5785] 5785 5786 5787 5788 5789 5790 5791 5792 5793 5794 5795 5796
## [5797] 5797 5798 5799 5800 5801 5802 5803 5804 5805 5806 5807 5808
## [5809] 5809 5810 5811 5812 5813 5814 5815 5816 5817 5818 5819 5820
## [5821] 5821 5822 5823 5824 5825 5826 5827 5828 5829 5830 5831 5832
## [5833] 5833 5834 5835 5836 5837 5838 5839 5840 5841 5842 5843 5844
## [5845] 5845 5846 5847 5848 5849 5850 5851 5852 5853 5854 5855 5856
## [5857] 5857 5858 5859 5860 5861 5862 5863 5864 5865 5866 5867 5868
## [5869] 5869 5870 5871 5872 5873 5874 5875 5876 5877 5878 5879 5880
## [5881] 5881 5882 5883 5884 5885 5886 5887 5888 5889 5890 5891 5892
## [5893] 5893 5894 5895 5896 5897 5898 5899 5900 5901 5902 5903 5904
## [5905] 5905 5906 5907 5908 5909 5910 5911 5912 5913 5914 5915 5916
## [5917] 5917 5918 5919 5920 5921 5922 5923 5924 5925 5926 5927 5928
## [5929] 5929 5930 5931 5932 5933 5934 5935 5936 5937 5938 5939 5940
## [5941] 5941 5942 5943 5944 5945 5946 5947 5948 5949 5950 5951 5952
## [5953] 5953 5954 5955 5956 5957 5958 5959 5960 5961 5962 5963 5964
## [5965] 5965 5966 5967 5968 5969 5970 5971 5972 5973 5974 5975 5976
## [5977] 5977 5978 5979 5980 5981 5982 5983 5984 5985 5986 5987 5988
## [5989] 5989 5990 5991 5992 5993 5994 5995 5996 5997 5998 5999 6000
## [6001] 6001 6002 6003 6004 6005 6006 6007 6008 6009 6010 6011 6012
## [6013] 6013 6014 6015 6016 6017 6018 6019 6020 6021 6022 6023 6024
## [6025] 6025 6026 6027 6028 6029 6030 6031 6032 6033 6034 6035 6036
## [6037] 6037 6038 6039 6040 6041 6042 6043 6044 6045 6046 6047 6048
## [6049] 6049 6050 6051 6052 6053 6054 6055 6056 6057 6058 6059 6060
## [6061] 6061 6062 6063 6064 6065 6066 6067 6068 6069 6070 6071 6072
## [6073] 6073 6074 6075 6076 6077 6078 6079 6080 6081 6082 6083 6084
## [6085] 6085 6086 6087 6088 6089 6090 6091 6092 6093 6094 6095 6096
## [6097] 6097 6098 6099 6100 6101 6102 6103 6104 6105 6106 6107 6108
## [6109] 6109 6110 6111 6112 6113 6114 6115 6116 6117 6118 6119 6120

```

```

## [6121] 6121 6122 6123 6124 6125 6126 6127 6128 6129 6130 6131 6132
## [6133] 6133 6134 6135 6136 6137 6138 6139 6140 6141 6142 6143 6144
## [6145] 6145 6146 6147 6148 6149 6150 6151 6152 6153 6154 6155 6156
## [6157] 6157 6158 6159 6160 6161 6162 6163 6164 6165 6166 6167 6168
## [6169] 6169 6170 6171 6172 6173 6174 6175 6176 6177 6178 6179 6180
## [6181] 6181 6182 6183 6184 6185 6186 6187 6188 6189 6190 6191 6192
## [6193] 6193 6194 6195 6196 6197 6198 6199 6200 6201 6202 6203 6204
## [6205] 6205 6206 6207 6208 6209 6210 6211 6212 6213 6214 6215 6216
## [6217] 6217 6218 6219 6220 6221 6222 6223 6224 6225 6226 6227 6228
## [6229] 6229 6230 6231 6232 6233 6234 6235 6236 6237 6238 6239 6240
## [6241] 6241 6242 6243 6244 6245 6246 6247 6248 6249 6250 6251 6252
## [6253] 6253 6254 6255 6256 6257 6258 6259 6260 6261 6262 6263 6264
## [6265] 6265 6266 6267 6268 6269 6270 6271 6272 6273 6274 6275 6276
## [6277] 6277 6278 6279 6280 6281 6282 6283 6284 6285 6286 6287 6288
## [6289] 6289 6290 6291 6292 6293 6294 6295 6296 6297 6298 6299 6300
## [6301] 6301 6302 6303 6304 6305 6306 6307 6308 6309 6310 6311 6312
## [6313] 6313 6314 6315 6316 6317 6318 6319 6320 6321 6322 6323 6324
## [6325] 6325 6326 6327 6328 6329 6330 6331 6332 6333 6334 6335 6336
## [6337] 6337 6338 6339 6340 6341 6342 6343 6344 6345 6346 6347 6348
## [6349] 6349 6350 6351 6352 6353 6354 6355 6356 6357 6358 6359 6360
## [6361] 6361 6362 6363 6364 6365 6366 6367 6368 6369 6370 6371 6372
## [6373] 6373 6374 6375 6376 6377 6378 6379 6380 6381 6382 6383 6384
## [6385] 6385 6386 6387 6388 6389 6390 6391 6392 6393 6394 6395 6396
## [6397] 6397 6398 6399 6400 6401 6402 6403 6404 6405 6406 6407 6408
## [6409] 6409 6410 6411 6412 6413 6414 6415 6416 6417 6418 6419 6420
## [6421] 6421 6422 6423 6424 6425 6426 6427 6428 6429 6430 6431 6432
## [6433] 6433 6434 6435 6436 6437 6438 6439 6440 6441 6442 6443 6444
## [6445] 6445 6446 6447 6448 6449 6450 6451 6452 6453 6454 6455 6456
## [6457] 6457 6458 6459 6460 6461 6462 6463 6464 6465 6466 6467 6468
## [6469] 6469 6470 6471 6472 6473 6474 6475 6476 6477 6478 6479 6480
## [6481] 6481 6482 6483 6484 6485 6486 6487 6488 6489 6490 6491 6492
## [6493] 6493 6494 6495 6496 6497 6498 6499 6500 6501 6502 6503 6504
## [6505] 6505 6506 6507 6508 6509 6510 6511 6512 6513 6514 6515 6516
## [6517] 6517 6518 6519 6520 6521 6522 6523 6524 6525 6526 6527 6528
## [6529] 6529 6530 6531 6532 6533 6534 6535 6536 6537 6538 6539 6540
## [6541] 6541 6542 6543 6544 6545 6546 6547 6548 6549 6550 6551 6552
## [6553] 6553 6554 6555 6556 6557 6558 6559 6560 6561 6562 6563 6564
## [6565] 6565 6566 6567 6568 6569 6570 6571 6572 6573 6574 6575 6576
## [6577] 6577 6578 6579 6580 6581 6582 6583 6584 6585 6586 6587 6588
## [6589] 6589 6590 6591 6592 6593 6594 6595 6596 6597 6598 6599 6600
## [6601] 6601 6602 6603 6604 6605 6606 6607 6608 6609 6610 6611 6612
## [6613] 6613 6614 6615 6616 6617 6618 6619 6620 6621 6622 6623 6624
## [6625] 6625 6626 6627 6628 6629 6630 6631 6632 6633 6634 6635 6636
## [6637] 6637 6638 6639 6640 6641 6642 6643 6644 6645 6646 6647 6648
## [6649] 6649 6650 6651 6652 6653 6654 6655 6656 6657 6658 6659 6660
## [6661] 6661 6662 6663 6664 6665 6666 6667 6668 6669 6670 6671 6672
## [6673] 6673 6674 6675 6676 6677 6678 6679 6680 6681 6682 6683 6684
## [6685] 6685 6686 6687 6688 6689 6690 6691 6692 6693 6694 6695 6696
## [6697] 6697 6698 6699 6700 6701 6702 6703 6704 6705 6706 6707 6708
## [6709] 6709 6710 6711 6712 6713 6714 6715 6716 6717 6718 6719 6720
## [6721] 6721 6722 6723 6724 6725 6726 6727 6728 6729 6730 6731 6732
## [6733] 6733 6734 6735 6736 6737 6738 6739 6740 6741 6742 6743 6744
## [6745] 6745 6746 6747 6748 6749 6750 6751 6752 6753 6754 6755 6756
## [6757] 6757 6758 6759 6760 6761 6762 6763 6764 6765 6766 6767 6768

```

##	[6769]	6769	6770	6771	6772	6773	6774	6775	6776	6777	6778	6779	6780
##	[6781]	6781	6782	6783	6784	6785	6786	6787	6788	6789	6790	6791	6792
##	[6793]	6793	6794	6795	6796	6797	6798	6799	6800	6801	6802	6803	6804
##	[6805]	6805	6806	6807	6808	6809	6810	6811	6812	6813	6814	6815	6816
##	[6817]	6817	6818	6819	6820	6821	6822	6823	6824	6825	6826	6827	6828
##	[6829]	6829	6830	6831	6832	6833	6834	6835	6836	6837	6838	6839	6840
##	[6841]	6841	6842	6843	6844	6845	6846	6847	6848	6849	6850	6851	6852
##	[6853]	6853	6854	6855	6856	6857	6858	6859	6860	6861	6862	6863	6864
##	[6865]	6865	6866	6867	6868	6869	6870	6871	6872	6873	6874	6875	6876
##	[6877]	6877	6878	6879	6880	6881	6882	6883	6884	6885	6886	6887	6888
##	[6889]	6889	6890	6891	6892	6893	6894	6895	6896	6897	6898	6899	6900
##	[6901]	6901	6902	6903	6904	6905	6906	6907	6908	6909	6910	6911	6912
##	[6913]	6913	6914	6915	6916	6917	6918	6919	6920	6921	6922	6923	6924
##	[6925]	6925	6926	6927	6928	6929	6930	6931	6932	6933	6934	6935	6936
##	[6937]	6937	6938	6939	6940	6941	6942	6943	6944	6945	6946	6947	6948
##	[6949]	6949	6950	6951	6952	6953	6954	6955	6956	6957	6958	6959	6960
##	[6961]	6961	6962	6963	6964	6965	6966	6967	6968	6969	6970	6971	6972
##	[6973]	6973	6974	6975	6976	6977	6978	6979	6980	6981	6982	6983	6984
##	[6985]	6985	6986	6987	6988	6989	6990	6991	6992	6993	6994	6995	6996
##	[6997]	6997	6998	6999	7000	7001	7002	7003	7004	7005	7006	7007	7008
##	[7009]	7009	7010	7011	7012	7013	7014	7015	7016	7017	7018	7019	7020
##	[7021]	7021	7022	7023	7024	7025	7026	7027	7028	7029	7030	7031	7032
##	[7033]	7033	7034	7035	7036	7037	7038	7039	7040	7041	7042	7043	7044
##	[7045]	7045	7046	7047	7048	7049	7050	7051	7052	7053	7054	7055	7056
##	[7057]	7057	7058	7059	7060	7061	7062	7063	7064	7065	7066	7067	7068
##	[7069]	7069	7070	7071	7072	7073	7074	7075	7076	7077	7078	7079	7080
##	[7081]	7081	7082	7083	7084	7085	7086	7087	7088	7089	7090	7091	7092
##	[7093]	7093	7094	7095	7096	7097	7098	7099	7100	7101	7102	7103	7104
##	[7105]	7105	7106	7107	7108	7109	7110	7111	7112	7113	7114	7115	7116
##	[7117]	7117	7118	7119	7120	7121	7122	7123	7124	7125	7126	7127	7128
##	[7129]	7129	7130	7131	7132	7133	7134	7135	7136	7137	7138	7139	7140
##	[7141]	7141	7142	7143	7144	7145	7146	7147	7148	7149	7150	7151	7152
##	[7153]	7153	7154	7155	7156	7157	7158	7159	7160	7161	7162	7163	7164
##	[7165]	7165	7166	7167	7168	7169	7170	7171	7172	7173	7174	7175	7176
##	[7177]	7177	7178	7179	7180	7181	7182	7183	7184	7185	7186	7187	7188
##	[7189]	7189	7190	7191	7192	7193	7194	7195	7196	7197	7198	7199	7200
##	[7201]	7201	7202	7203	7204	7205	7206	7207	7208	7209	7210	7211	7212
##	[7213]	7213	7214	7215	7216	7217	7218	7219	7220	7221	7222	7223	7224
##	[7225]	7225	7226	7227	7228	7229	7230	7231	7232	7233	7234	7235	7236
##	[7237]	7237	7238	7239	7240	7241	7242	7243	7244	7245	7246	7247	7248
##	[7249]	7249	7250	7251	7252	7253	7254	7255	7256	7257	7258	7259	7260
##	[7261]	7261	7262	7263	7264	7265	7266	7267	7268	7269	7270	7271	7272
##	[7273]	7273	7274	7275	7276	7277	7278	7279	7280	7281	7282	7283	7284
##	[7285]	7285	7286	7287	7288	7289	7290	7291	7292	7293	7294	7295	7296
##	[7297]	7297	7298	7299	7300	7301	7302	7303	7304	7305	7306	7307	7308
##	[7309]	7309	7310	7311	7312	7313	7314	7315	7316	7317	7318	7319	7320
##	[7321]	7321	7322	7323	7324	7325	7326	7327	7328	7329	7330	7331	7332
##	[7333]	7333	7334	7335	7336	7337	7338	7339	7340	7341	7342	7343	7344
##	[7345]	7345	7346	7347	7348	7349	7350	7351	7352	7353	7354	7355	7356
##	[7357]	7357	7358	7359	7360	7361	7362	7363	7364	7365	7366	7367	7368
##	[7369]	7369	7370	7371	7372	7373	7374	7375	7376	7377	7378	7379	7380
##	[7381]	7381	7382	7383	7384	7385	7386	7387	7388	7389	7390	7391	7392
##	[7393]	7393	7394	7395	7396	7397	7398	7399	7400	7401	7402	7403	7404
##	[7405]	7405	7406	7407	7408	7409	7410	7411	7412	7413	7414	7415	7416

##	[7417]	7417	7418	7419	7420	7421	7422	7423	7424	7425	7426	7427	7428
##	[7429]	7429	7430	7431	7432	7433	7434	7435	7436	7437	7438	7439	7440
##	[7441]	7441	7442	7443	7444	7445	7446	7447	7448	7449	7450	7451	7452
##	[7453]	7453	7454	7455	7456	7457	7458	7459	7460	7461	7462	7463	7464
##	[7465]	7465	7466	7467	7468	7469	7470	7471	7472	7473	7474	7475	7476
##	[7477]	7477	7478	7479	7480	7481	7482	7483	7484	7485	7486	7487	7488
##	[7489]	7489	7490	7491	7492	7493	7494	7495	7496	7497	7498	7499	7500
##	[7501]	7501	7502	7503	7504	7505	7506	7507	7508	7509	7510	7511	7512
##	[7513]	7513	7514	7515	7516	7517	7518	7519	7520	7521	7522	7523	7524
##	[7525]	7525	7526	7527	7528	7529	7530	7531	7532	7533	7534	7535	7536
##	[7537]	7537	7538	7539	7540	7541	7542	7543	7544	7545	7546	7547	7548
##	[7549]	7549	7550	7551	7552	7553	7554	7555	7556	7557	7558	7559	7560
##	[7561]	7561	7562	7563	7564	7565	7566	7567	7568	7569	7570	7571	7572
##	[7573]	7573	7574	7575	7576	7577	7578	7579	7580	7581	7582	7583	7584
##	[7585]	7585	7586	7587	7588	7589	7590	7591	7592	7593	7594	7595	7596
##	[7597]	7597	7598	7599	7600	7601	7602	7603	7604	7605	7606	7607	7608
##	[7609]	7609	7610	7611	7612	7613	7614	7615	7616	7617	7618	7619	7620
##	[7621]	7621	7622	7623	7624	7625	7626	7627	7628	7629	7630	7631	7632
##	[7633]	7633	7634	7635	7636	7637	7638	7639	7640	7641	7642	7643	7644
##	[7645]	7645	7646	7647	7648	7649	7650	7651	7652	7653	7654	7655	7656
##	[7657]	7657	7658	7659	7660	7661	7662	7663	7664	7665	7666	7667	7668
##	[7669]	7669	7670	7671	7672	7673	7674	7675	7676	7677	7678	7679	7680
##	[7681]	7681	7682	7683	7684	7685	7686	7687	7688	7689	7690	7691	7692
##	[7693]	7693	7694	7695	7696	7697	7698	7699	7700	7701	7702	7703	7704
##	[7705]	7705	7706	7707	7708	7709	7710	7711	7712	7713	7714	7715	7716
##	[7717]	7717	7718	7719	7720	7721	7722	7723	7724	7725	7726	7727	7728
##	[7729]	7729	7730	7731	7732	7733	7734	7735	7736	7737	7738	7739	7740
##	[7741]	7741	7742	7743	7744	7745	7746	7747	7748	7749	7750	7751	7752
##	[7753]	7753	7754	7755	7756	7757	7758	7759	7760	7761	7762	7763	7764
##	[7765]	7765	7766	7767	7768	7769	7770	7771	7772	7773	7774	7775	7776
##	[7777]	7777	7778	7779	7780	7781	7782	7783	7784	7785	7786	7787	7788
##	[7789]	7789	7790	7791	7792	7793	7794	7795	7796	7797	7798	7799	7800
##	[7801]	7801	7802	7803	7804	7805	7806	7807	7808	7809	7810	7811	7812
##	[7813]	7813	7814	7815	7816	7817	7818	7819	7820	7821	7822	7823	7824
##	[7825]	7825	7826	7827	7828	7829	7830	7831	7832	7833	7834	7835	7836
##	[7837]	7837	7838	7839	7840	7841	7842	7843	7844	7845	7846	7847	7848
##	[7849]	7849	7850	7851	7852	7853	7854	7855	7856	7857	7858	7859	7860
##	[7861]	7861	7862	7863	7864	7865	7866	7867	7868	7869	7870	7871	7872
##	[7873]	7873	7874	7875	7876	7877	7878	7879	7880	7881	7882	7883	7884
##	[7885]	7885	7886	7887	7888	7889	7890	7891	7892	7893	7894	7895	7896
##	[7897]	7897	7898	7899	7900	7901	7902	7903	7904	7905	7906	7907	7908
##	[7909]	7909	7910	7911	7912	7913	7914	7915	7916	7917	7918	7919	7920
##	[7921]	7921	7922	7923	7924	7925	7926	7927	7928	7929	7930	7931	7932
##	[7933]	7933	7934	7935	7936	7937	7938	7939	7940	7941	7942	7943	7944
##	[7945]	7945	7946	7947	7948	7949	7950	7951	7952	7953	7954	7955	7956
##	[7957]	7957	7958	7959	7960	7961	7962	7963	7964	7965	7966	7967	7968
##	[7969]	7969	7970	7971	7972	7973	7974	7975	7976	7977	7978	7979	7980
##	[7981]	7981	7982	7983	7984	7985	7986	7987	7988	7989	7990	7991	7992
##	[7993]	7993	7994	7995	7996	7997	7998	7999	8000	8001	8002	8003	8004
##	[8005]	8005	8006	8007	8008	8009	8010	8011	8012	8013	8014	8015	8016
##	[8017]	8017	8018	8019	8020	8021	8022	8023	8024	8025	8026	8027	8028
##	[8029]	8029	8030	8031	8032	8033	8034	8035	8036	8037	8038	8039	8040
##	[8041]	8041	8042	8043	8044	8045	8046	8047	8048	8049	8050	8051	8052
##	[8053]	8053	8054	8055	8056	8057	8058	8059	8060	8061	8062	8063	8064

##	[8065]	8065	8066	8067	8068	8069	8070	8071	8072	8073	8074	8075	8076
##	[8077]	8077	8078	8079	8080	8081	8082	8083	8084	8085	8086	8087	8088
##	[8089]	8089	8090	8091	8092	8093	8094	8095	8096	8097	8098	8099	8100
##	[8101]	8101	8102	8103	8104	8105	8106	8107	8108	8109	8110	8111	8112
##	[8113]	8113	8114	8115	8116	8117	8118	8119	8120	8121	8122	8123	8124
##	[8125]	8125	8126	8127	8128	8129	8130	8131	8132	8133	8134	8135	8136
##	[8137]	8137	8138	8139	8140	8141	8142	8143	8144	8145	8146	8147	8148
##	[8149]	8149	8150	8151	8152	8153	8154	8155	8156	8157	8158	8159	8160
##	[8161]	8161	8162	8163	8164	8165	8166	8167	8168	8169	8170	8171	8172
##	[8173]	8173	8174	8175	8176	8177	8178	8179	8180	8181	8182	8183	8184
##	[8185]	8185	8186	8187	8188	8189	8190	8191	8192	8193	8194	8195	8196
##	[8197]	8197	8198	8199	8200	8201	8202	8203	8204	8205	8206	8207	8208
##	[8209]	8209	8210	8211	8212	8213	8214	8215	8216	8217	8218	8219	8220
##	[8221]	8221	8222	8223	8224	8225	8226	8227	8228	8229	8230	8231	8232
##	[8233]	8233	8234	8235	8236	8237	8238	8239	8240	8241	8242	8243	8244
##	[8245]	8245	8246	8247	8248	8249	8250	8251	8252	8253	8254	8255	8256
##	[8257]	8257	8258	8259	8260	8261	8262	8263	8264	8265	8266	8267	8268
##	[8269]	8269	8270	8271	8272	8273	8274	8275	8276	8277	8278	8279	8280
##	[8281]	8281	8282	8283	8284	8285	8286	8287	8288	8289	8290	8291	8292
##	[8293]	8293	8294	8295	8296	8297	8298	8299	8300	8301	8302	8303	8304
##	[8305]	8305	8306	8307	8308	8309	8310	8311	8312	8313	8314	8315	8316
##	[8317]	8317	8318	8319	8320	8321	8322	8323	8324	8325	8326	8327	8328
##	[8329]	8329	8330	8331	8332	8333	8334	8335	8336	8337	8338	8339	8340
##	[8341]	8341	8342	8343	8344	8345	8346	8347	8348	8349	8350	8351	8352
##	[8353]	8353	8354	8355	8356	8357	8358	8359	8360	8361	8362	8363	8364
##	[8365]	8365	8366	8367	8368	8369	8370	8371	8372	8373	8374	8375	8376
##	[8377]	8377	8378	8379	8380	8381	8382	8383	8384	8385	8386	8387	8388
##	[8389]	8389	8390	8391	8392	8393	8394	8395	8396	8397	8398	8399	8400
##	[8401]	8401	8402	8403	8404	8405	8406	8407	8408	8409	8410	8411	8412
##	[8413]	8413	8414	8415	8416	8417	8418	8419	8420	8421	8422	8423	8424
##	[8425]	8425	8426	8427	8428	8429	8430	8431	8432	8433	8434	8435	8436
##	[8437]	8437	8438	8439	8440	8441	8442	8443	8444	8445	8446	8447	8448
##	[8449]	8449	8450	8451	8452	8453	8454	8455	8456	8457	8458	8459	8460
##	[8461]	8461	8462	8463	8464	8465	8466	8467	8468	8469	8470	8471	8472
##	[8473]	8473	8474	8475	8476	8477	8478	8479	8480	8481	8482	8483	8484
##	[8485]	8485	8486	8487	8488	8489	8490	8491	8492	8493	8494	8495	8496
##	[8497]	8497	8498	8499	8500	8501	8502	8503	8504	8505	8506	8507	8508
##	[8509]	8509	8510	8511	8512	8513	8514	8515	8516	8517	8518	8519	8520
##	[8521]	8521	8522	8523	8524	8525	8526	8527	8528	8529	8530	8531	8532
##	[8533]	8533	8534	8535	8536	8537	8538	8539	8540	8541	8542	8543	8544
##	[8545]	8545	8546	8547	8548	8549	8550	8551	8552	8553	8554	8555	8556
##	[8557]	8557	8558	8559	8560	8561	8562	8563	8564	8565	8566	8567	8568
##	[8569]	8569	8570	8571	8572	8573	8574	8575	8576	8577	8578	8579	8580
##	[8581]	8581	8582	8583	8584	8585	8586	8587	8588	8589	8590	8591	8592
##	[8593]	8593	8594	8595	8596	8597	8598	8599	8600	8601	8602	8603	8604
##	[8605]	8605	8606	8607	8608	8609	8610	8611	8612	8613	8614	8615	8616
##	[8617]	8617	8618	8619	8620	8621	8622	8623	8624	8625	8626	8627	8628
##	[8629]	8629	8630	8631	8632	8633	8634	8635	8636	8637	8638	8639	8640
##	[8641]	8641	8642	8643	8644	8645	8646	8647	8648	8649	8650	8651	8652
##	[8653]	8653	8654	8655	8656	8657	8658	8659	8660	8661	8662	8663	8664
##	[8665]	8665	8666	8667	8668	8669	8670	8671	8672	8673	8674	8675	8676
##	[8677]	8677	8678	8679	8680	8681	8682	8683	8684	8685	8686	8687	8688
##	[8689]	8689	8690	8691	8692	8693	8694	8695	8696	8697	8698	8699	8700
##	[8701]	8701	8702	8703	8704	8705	8706	8707	8708	8709	8710	8711	8712

##	[8713]	8713	8714	8715	8716	8717	8718	8719	8720	8721	8722	8723	8724
##	[8725]	8725	8726	8727	8728	8729	8730	8731	8732	8733	8734	8735	8736
##	[8737]	8737	8738	8739	8740	8741	8742	8743	8744	8745	8746	8747	8748
##	[8749]	8749	8750	8751	8752	8753	8754	8755	8756	8757	8758	8759	8760
##	[8761]	8761	8762	8763	8764	8765	8766	8767	8768	8769	8770	8771	8772
##	[8773]	8773	8774	8775	8776	8777	8778	8779	8780	8781	8782	8783	8784
##	[8785]	8785	8786	8787	8788	8789	8790	8791	8792	8793	8794	8795	8796
##	[8797]	8797	8798	8799	8800	8801	8802	8803	8804	8805	8806	8807	8808
##	[8809]	8809	8810	8811	8812	8813	8814	8815	8816	8817	8818	8819	8820
##	[8821]	8821	8822	8823	8824	8825	8826	8827	8828	8829	8830	8831	8832
##	[8833]	8833	8834	8835	8836	8837	8838	8839	8840	8841	8842	8843	8844
##	[8845]	8845	8846	8847	8848	8849	8850	8851	8852	8853	8854	8855	8856
##	[8857]	8857	8858	8859	8860	8861	8862	8863	8864	8865	8866	8867	8868
##	[8869]	8869	8870	8871	8872	8873	8874	8875	8876	8877	8878	8879	8880
##	[8881]	8881	8882	8883	8884	8885	8886	8887	8888	8889	8890	8891	8892
##	[8893]	8893	8894	8895	8896	8897	8898	8899	8900	8901	8902	8903	8904
##	[8905]	8905	8906	8907	8908	8909	8910	8911	8912	8913	8914	8915	8916
##	[8917]	8917	8918	8919	8920	8921	8922	8923	8924	8925	8926	8927	8928
##	[8929]	8929	8930	8931	8932	8933	8934	8935	8936	8937	8938	8939	8940
##	[8941]	8941	8942	8943	8944	8945	8946	8947	8948	8949	8950	8951	8952
##	[8953]	8953	8954	8955	8956	8957	8958	8959	8960	8961	8962	8963	8964
##	[8965]	8965	8966	8967	8968	8969	8970	8971	8972	8973	8974	8975	8976
##	[8977]	8977	8978	8979	8980	8981	8982	8983	8984	8985	8986	8987	8988
##	[8989]	8989	8990	8991	8992	8993	8994	8995	8996	8997	8998	8999	9000
##	[9001]	9001	9002	9003	9004	9005	9006	9007	9008	9009	9010	9011	9012
##	[9013]	9013	9014	9015	9016	9017	9018	9019	9020	9021	9022	9023	9024
##	[9025]	9025	9026	9027	9028	9029	9030	9031	9032	9033	9034	9035	9036
##	[9037]	9037	9038	9039	9040	9041	9042	9043	9044	9045	9046	9047	9048
##	[9049]	9049	9050	9051	9052	9053	9054	9055	9056	9057	9058	9059	9060
##	[9061]	9061	9062	9063	9064	9065	9066	9067	9068	9069	9070	9071	9072
##	[9073]	9073	9074	9075	9076	9077	9078	9079	9080	9081	9082	9083	9084
##	[9085]	9085	9086	9087	9088	9089	9090	9091	9092	9093	9094	9095	9096
##	[9097]	9097	9098	9099	9100	9101	9102	9103	9104	9105	9106	9107	9108
##	[9109]	9109	9110	9111	9112	9113	9114	9115	9116	9117	9118	9119	9120
##	[9121]	9121	9122	9123	9124	9125	9126	9127	9128	9129	9130	9131	9132
##	[9133]	9133	9134	9135	9136	9137	9138	9139	9140	9141	9142	9143	9144
##	[9145]	9145	9146	9147	9148	9149	9150	9151	9152	9153	9154	9155	9156
##	[9157]	9157	9158	9159	9160	9161	9162	9163	9164	9165	9166	9167	9168
##	[9169]	9169	9170	9171	9172	9173	9174	9175	9176	9177	9178	9179	9180
##	[9181]	9181	9182	9183	9184	9185	9186	9187	9188	9189	9190	9191	9192
##	[9193]	9193	9194	9195	9196	9197	9198	9199	9200	9201	9202	9203	9204
##	[9205]	9205	9206	9207	9208	9209	9210	9211	9212	9213	9214	9215	9216
##	[9217]	9217	9218	9219	9220	9221	9222	9223	9224	9225	9226	9227	9228
##	[9229]	9229	9230	9231	9232	9233	9234	9235	9236	9237	9238	9239	9240
##	[9241]	9241	9242	9243	9244	9245	9246	9247	9248	9249	9250	9251	9252
##	[9253]	9253	9254	9255	9256	9257	9258	9259	9260	9261	9262	9263	9264
##	[9265]	9265	9266	9267	9268	9269	9270	9271	9272	9273	9274	9275	9276
##	[9277]	9277	9278	9279	9280	9281	9282	9283	9284	9285	9286	9287	9288
##	[9289]	9289	9290	9291	9292	9293	9294	9295	9296	9297	9298	9299	9300
##	[9301]	9301	9302	9303	9304	9305	9306	9307	9308	9309	9310	9311	9312
##	[9313]	9313	9314	9315	9316	9317	9318	9319	9320	9321	9322	9323	9324
##	[9325]	9325	9326	9327	9328	9329	9330	9331	9332	9333	9334	9335	9336
##	[9337]	9337	9338	9339	9340	9341	9342	9343	9344	9345	9346	9347	9348
##	[9349]	9349	9350	9351	9352	9353	9354	9355	9356	9357	9358	9359	9360

##	[9361]	9361	9362	9363	9364	9365	9366	9367	9368	9369	9370	9371	9372
##	[9373]	9373	9374	9375	9376	9377	9378	9379	9380	9381	9382	9383	9384
##	[9385]	9385	9386	9387	9388	9389	9390	9391	9392	9393	9394	9395	9396
##	[9397]	9397	9398	9399	9400	9401	9402	9403	9404	9405	9406	9407	9408
##	[9409]	9409	9410	9411	9412	9413	9414	9415	9416	9417	9418	9419	9420
##	[9421]	9421	9422	9423	9424	9425	9426	9427	9428	9429	9430	9431	9432
##	[9433]	9433	9434	9435	9436	9437	9438	9439	9440	9441	9442	9443	9444
##	[9445]	9445	9446	9447	9448	9449	9450	9451	9452	9453	9454	9455	9456
##	[9457]	9457	9458	9459	9460	9461	9462	9463	9464	9465	9466	9467	9468
##	[9469]	9469	9470	9471	9472	9473	9474	9475	9476	9477	9478	9479	9480
##	[9481]	9481	9482	9483	9484	9485	9486	9487	9488	9489	9490	9491	9492
##	[9493]	9493	9494	9495	9496	9497	9498	9499	9500	9501	9502	9503	9504
##	[9505]	9505	9506	9507	9508	9509	9510	9511	9512	9513	9514	9515	9516
##	[9517]	9517	9518	9519	9520	9521	9522	9523	9524	9525	9526	9527	9528
##	[9529]	9529	9530	9531	9532	9533	9534	9535	9536	9537	9538	9539	9540
##	[9541]	9541	9542	9543	9544	9545	9546	9547	9548	9549	9550	9551	9552
##	[9553]	9553	9554	9555	9556	9557	9558	9559	9560	9561	9562	9563	9564
##	[9565]	9565	9566	9567	9568	9569	9570	9571	9572	9573	9574	9575	9576
##	[9577]	9577	9578	9579	9580	9581	9582	9583	9584	9585	9586	9587	9588
##	[9589]	9589	9590	9591	9592	9593	9594	9595	9596	9597	9598	9599	9600
##	[9601]	9601	9602	9603	9604	9605	9606	9607	9608	9609	9610	9611	9612
##	[9613]	9613	9614	9615	9616	9617	9618	9619	9620	9621	9622	9623	9624
##	[9625]	9625	9626	9627	9628	9629	9630	9631	9632	9633	9634	9635	9636
##	[9637]	9637	9638	9639	9640	9641	9642	9643	9644	9645	9646	9647	9648
##	[9649]	9649	9650	9651	9652	9653	9654	9655	9656	9657	9658	9659	9660
##	[9661]	9661	9662	9663	9664	9665	9666	9667	9668	9669	9670	9671	9672
##	[9673]	9673	9674	9675	9676	9677	9678	9679	9680	9681	9682	9683	9684
##	[9685]	9685	9686	9687	9688	9689	9690	9691	9692	9693	9694	9695	9696
##	[9697]	9697	9698	9699	9700	9701	9702	9703	9704	9705	9706	9707	9708
##	[9709]	9709	9710	9711	9712	9713	9714	9715	9716	9717	9718	9719	9720
##	[9721]	9721	9722	9723	9724	9725	9726	9727	9728	9729	9730	9731	9732
##	[9733]	9733	9734	9735	9736	9737	9738	9739	9740	9741	9742	9743	9744
##	[9745]	9745	9746	9747	9748	9749	9750	9751	9752	9753	9754	9755	9756
##	[9757]	9757	9758	9759	9760	9761	9762	9763	9764	9765	9766	9767	9768
##	[9769]	9769	9770	9771	9772	9773	9774	9775	9776	9777	9778	9779	9780
##	[9781]	9781	9782	9783	9784	9785	9786	9787	9788	9789	9790	9791	9792
##	[9793]	9793	9794	9795	9796	9797	9798	9799	9800	9801	9802	9803	9804
##	[9805]	9805	9806	9807	9808	9809	9810	9811	9812	9813	9814	9815	9816
##	[9817]	9817	9818	9819	9820	9821	9822	9823	9824	9825	9826	9827	9828
##	[9829]	9829	9830	9831	9832	9833	9834	9835	9836	9837	9838	9839	9840
##	[9841]	9841	9842	9843	9844	9845	9846	9847	9848	9849	9850	9851	9852
##	[9853]	9853	9854	9855	9856	9857	9858	9859	9860	9861	9862	9863	9864
##	[9865]	9865	9866	9867	9868	9869	9870	9871	9872	9873	9874	9875	9876
##	[9877]	9877	9878	9879	9880	9881	9882	9883	9884	9885	9886	9887	9888
##	[9889]	9889	9890	9891	9892	9893	9894	9895	9896	9897	9898	9899	9900
##	[9901]	9901	9902	9903	9904	9905	9906	9907	9908	9909	9910	9911	9912
##	[9913]	9913	9914	9915	9916	9917	9918	9919	9920	9921	9922	9923	9924
##	[9925]	9925	9926	9927	9928	9929	9930	9931	9932	9933	9934	9935	9936
##	[9937]	9937	9938	9939	9940	9941	9942	9943	9944	9945	9946	9947	9948
##	[9949]	9949	9950	9951	9952	9953	9954	9955	9956	9957	9958	9959	9960
##	[9961]	9961	9962	9963	9964	9965	9966	9967	9968	9969	9970	9971	9972
##	[9973]	9973	9974	9975	9976	9977	9978	9979	9980	9981	9982	9983	9984
##	[9985]	9985	9986	9987	9988	9989	9990	9991	9992	9993	9994	9995	9996
##	[9997]	9997	9998	9999	10000	10001	10002	10003	10004	10005	10006	10007	10008

```

## [10009] 10009 10010 10011 10012 10013 10014 10015 10016 10017 10018 10019 10020
## [10021] 10021 10022 10023 10024 10025 10026 10027 10028 10029 10030 10031 10032
## [10033] 10033 10034 10035 10036 10037 10038 10039 10040 10041 10042 10043 10044
## [10045] 10045 10046 10047 10048 10049 10050 10051 10052 10053 10054 10055 10056
## [10057] 10057 10058 10059 10060 10061 10062 10063 10064 10065 10066 10067 10068
## [10069] 10069 10070 10071 10072 10073 10074 10075 10076 10077 10078 10079 10080
## [10081] 10081 10082 10083 10084 10085 10086 10087 10088 10089 10090 10091 10092
## [10093] 10093 10094 10095 10096 10097 10098 10099 10100 10101 10102 10103 10104
## [10105] 10105 10106 10107 10108 10109 10110 10111 10112 10113 10114 10115 10116
## [10117] 10117 10118 10119 10120 10121 10122 10123 10124 10125 10126 10127 10128
## [10129] 10129 10130 10131 10132 10133 10134 10135 10136 10137 10138 10139 10140
## [10141] 10141 10142 10143 10144 10145 10146 10147 10148 10149 10150 10151 10152
## [10153] 10153 10154 10155 10156 10157 10158 10159 10160 10161 10162 10163 10164
## [10165] 10165 10166 10167 10168 10169 10170 10171 10172 10173 10174 10175 10176
## [10177] 10177 10178 10179 10180 10181 10182 10183 10184 10185 10186 10187 10188
## [10189] 10189 10190 10191 10192 10193 10194 10195 10196 10197 10198 10199 10200
## [10201] 10201 10202 10203 10204 10205 10206 10207 10208 10209 10210 10211 10212
## [10213] 10213 10214 10215 10216 10217 10218 10219 10220 10221 10222 10223 10224
## [10225] 10225 10226 10227 10228 10229 10230 10231 10232 10233 10234 10235 10236
## [10237] 10237 10238 10239 10240 10241 10242 10243 10244 10245 10246 10247 10248
## [10249] 10249 10250 10251 10252 10253 10254 10255 10256 10257 10258 10259 10260
## [10261] 10261 10262 10263 10264 10265 10266 10267 10268 10269 10270 10271 10272
## [10273] 10273 10274 10275 10276 10277 10278 10279 10280 10281 10282 10283 10284
## [10285] 10285 10286 10287 10288 10289 10290 10291 10292 10293 10294 10295 10296
## [10297] 10297 10298 10299 10300 10301 10302 10303 10304 10305 10306 10307 10308
## [10309] 10309 10310 10311 10312 10313 10314 10315 10316 10317 10318 10319 10320
## [10321] 10321 10322 10323 10324 10325 10326 10327 10328 10329 10330 10331 10332
## [10333] 10333 10334 10335 10336 10337 10338 10339 10340 10341 10342 10343 10344
## [10345] 10345 10346 10347 10348 10349 10350 10351 10352 10353 10354 10355 10356
## [10357] 10357 10358 10359 10360 10361 10362 10363 10364 10365 10366 10367 10368
## [10369] 10369 10370 10371 10372 10373 10374 10375 10376 10377 10378 10379 10380
## [10381] 10381 10382 10383 10384 10385 10386 10387 10388 10389 10390 10391 10392
## [10393] 10393 10394 10395 10396 10397 10398 10399 10400 10401 10402 10403 10404
## [10405] 10405 10406 10407 10408 10409 10410 10411 10412 10413 10414 10415 10416
## [10417] 10417 10418 10419 10420 10421 10422 10423 10424 10425 10426 10427 10428
## [10429] 10429 10430 10431 10432 10433 10434 10435 10436 10437 10438 10439 10440
## [10441] 10441 10442 10443 10444 10445 10446 10447 10448 10449 10450 10451 10452
## [10453] 10453 10454 10455 10456 10457 10458 10459 10460 10461 10462 10463 10464
## [10465] 10465 10466 10467 10468 10469 10470 10471 10472 10473 10474 10475 10476
## [10477] 10477 10478 10479 10480 10481 10482 10483 10484 10485 10486 10487 10488
## [10489] 10489 10490 10491 10492 10493 10494 10495 10496 10497 10498 10499 10500
## [10501] 10501 10502 10503 10504 10505 10506 10507 10508 10509 10510 10511 10512
## [10513] 10513 10514 10515 10516 10517 10518 10519 10520 10521 10522 10523 10524
## [10525] 10525 10526 10527 10528 10529 10530 10531 10532 10533 10534 10535 10536
## [10537] 10537 10538 10539 10540 10541 10542 10543 10544 10545 10546 10547 10548
## [10549] 10549 10550 10551 10552 10553 10554 10555 10556 10557 10558 10559 10560
## [10561] 10561 10562 10563 10564 10565 10566 10567 10568 10569 10570 10571 10572
## [10573] 10573 10574 10575 10576 10577 10578 10579 10580 10581 10582 10583 10584
## [10585] 10585 10586 10587 10588 10589 10590 10591 10592 10593 10594 10595 10596
## [10597] 10597 10598 10599 10600 10601 10602 10603 10604 10605 10606 10607 10608
## [10609] 10609 10610 10611 10612 10613 10614 10615 10616 10617 10618 10619 10620
## [10621] 10621 10622 10623 10624 10625 10626 10627 10628 10629 10630 10631 10632
## [10633] 10633 10634 10635 10636 10637 10638 10639 10640 10641 10642 10643 10644
## [10645] 10645 10646 10647 10648 10649 10650 10651 10652 10653 10654 10655 10656

```

```

## [10657] 10657 10658 10659 10660 10661 10662 10663 10664 10665 10666 10667 10668
## [10669] 10669 10670 10671 10672 10673 10674 10675 10676 10677 10678 10679 10680
## [10681] 10681 10682 10683 10684 10685 10686 10687 10688 10689 10690 10691 10692
## [10693] 10693 10694 10695 10696 10697 10698 10699 10700 10701 10702 10703 10704
## [10705] 10705 10706 10707 10708 10709 10710 10711 10712 10713 10714 10715 10716
## [10717] 10717 10718 10719 10720 10721 10722 10723 10724 10725 10726 10727 10728
## [10729] 10729 10730 10731 10732 10733 10734 10735 10736 10737 10738 10739 10740
## [10741] 10741 10742 10743 10744 10745 10746 10747 10748 10749 10750 10751 10752
## [10753] 10753 10754 10755 10756 10757 10758 10759 10760 10761 10762 10763 10764
## [10765] 10765 10766 10767 10768 10769 10770 10771 10772 10773 10774 10775 10776
## [10777] 10777 10778 10779 10780 10781 10782 10783 10784 10785 10786 10787 10788
## [10789] 10789 10790 10791 10792 10793 10794 10795 10796 10797 10798 10799 10800
## [10801] 10801 10802 10803 10804 10805 10806 10807 10808 10809 10810 10811 10812
## [10813] 10813 10814 10815 10816 10817 10818 10819 10820 10821 10822 10823 10824
## [10825] 10825 10826 10827 10828 10829 10830 10831 10832 10833 10834 10835 10836
## [10837] 10837 10838 10839 10840 10841 10842 10843 10844 10845 10846 10847 10848
## [10849] 10849 10850 10851 10852 10853 10854 10855 10856 10857 10858 10859 10860
## [10861] 10861 10862 10863 10864 10865 10866 10867 10868 10869 10870 10871 10872
## [10873] 10873 10874 10875 10876 10877 10878 10879 10880 10881 10882 10883 10884
## [10885] 10885 10886 10887 10888 10889 10890 10891 10892 10893 10894 10895 10896
## [10897] 10897 10898 10899 10900 10901 10902 10903 10904 10905 10906 10907 10908
## [10909] 10909 10910 10911 10912 10913 10914 10915 10916 10917 10918 10919 10920
## [10921] 10921 10922 10923 10924 10925 10926 10927 10928 10929 10930 10931 10932
## [10933] 10933 10934 10935 10936 10937 10938 10939 10940 10941 10942 10943 10944
## [10945] 10945 10946 10947 10948 10949 10950 10951 10952 10953 10954 10955 10956
## [10957] 10957 10958 10959 10960 10961 10962 10963 10964 10965 10966 10967 10968
## [10969] 10969 10970 10971 10972 10973 10974 10975 10976 10977 10978 10979 10980
## [10981] 10981 10982 10983 10984 10985 10986 10987 10988 10989 10990 10991 10992
## [10993] 10993 10994 10995 10996 10997 10998 10999 11000 11001 11002 11003 11004
## [11005] 11005 11006 11007 11008 11009 11010 11011 11012 11013 11014 11015 11016
## [11017] 11017 11018 11019 11020 11021 11022 11023 11024 11025 11026 11027 11028
## [11029] 11029 11030 11031 11032 11033 11034 11035 11036 11037 11038 11039 11040
## [11041] 11041 11042 11043 11044 11045 11046 11047 11048 11049 11050 11051 11052
## [11053] 11053 11054 11055 11056 11057 11058 11059 11060 11061 11062 11063 11064
## [11065] 11065 11066 11067 11068 11069 11070 11071 11072 11073 11074 11075 11076
## [11077] 11077 11078 11079 11080 11081 11082 11083 11084 11085 11086 11087 11088
## [11089] 11089 11090 11091 11092 11093 11094 11095 11096 11097 11098 11099 11100
## [11101] 11101 11102 11103 11104 11105 11106 11107 11108 11109 11110 11111 11112
## [11113] 11113 11114 11115 11116 11117 11118 11119 11120 11121 11122 11123 11124
## [11125] 11125 11126 11127 11128 11129 11130 11131 11132 11133 11134 11135 11136
## [11137] 11137 11138 11139 11140 11141 11142 11143 11144 11145 11146 11147 11148
## [11149] 11149 11150 11151 11152 11153 11154 11155 11156 11157 11158 11159 11160
## [11161] 11161 11162 11163 11164 11165 11166 11167 11168 11169 11170 11171 11172
## [11173] 11173 11174 11175 11176 11177 11178 11179 11180 11181 11182 11183 11184
## [11185] 11185 11186 11187 11188 11189 11190 11191 11192 11193 11194 11195 11196
## [11197] 11197 11198 11199 11200 11201 11202 11203 11204 11205 11206 11207 11208
## [11209] 11209 11210 11211 11212 11213 11214 11215 11216 11217 11218 11219 11220
## [11221] 11221 11222 11223 11224 11225 11226 11227 11228 11229 11230 11231 11232
## [11233] 11233 11234 11235 11236 11237 11238 11239 11240 11241 11242 11243 11244
## [11245] 11245 11246 11247 11248 11249 11250 11251 11252 11253 11254 11255 11256
## [11257] 11257 11258 11259 11260 11261 11262 11263 11264 11265 11266 11267 11268
## [11269] 11269 11270 11271 11272 11273 11274 11275 11276 11277 11278 11279 11280
## [11281] 11281 11282 11283 11284 11285 11286 11287 11288 11289 11290 11291 11292
## [11293] 11293 11294 11295 11296 11297 11298 11299 11300 11301 11302 11303 11304

```

```

## [11305] 11305 11306 11307 11308 11309 11310 11311 11312 11313 11314 11315 11316
## [11317] 11317 11318 11319 11320 11321 11322 11323 11324 11325 11326 11327 11328
## [11329] 11329 11330 11331 11332 11333 11334 11335 11336 11337 11338 11339 11340
## [11341] 11341 11342 11343 11344 11345 11346 11347 11348 11349 11350 11351 11352
## [11353] 11353 11354 11355 11356 11357 11358 11359 11360 11361 11362 11363 11364
## [11365] 11365 11366 11367 11368 11369 11370 11371 11372 11373 11374 11375 11376
## [11377] 11377 11378 11379 11380 11381 11382 11383 11384 11385 11386 11387 11388
## [11389] 11389 11390 11391 11392 11393 11394 11395 11396 11397 11398 11399 11400
## [11401] 11401 11402 11403 11404 11405 11406 11407 11408 11409 11410 11411 11412
## [11413] 11413 11414 11415 11416 11417 11418 11419 11420 11421 11422 11423 11424
## [11425] 11425 11426 11427 11428 11429 11430 11431 11432 11433 11434 11435 11436
## [11437] 11437 11438 11439 11440 11441 11442 11443 11444 11445 11446 11447 11448
## [11449] 11449 11450 11451 11452 11453 11454 11455 11456 11457 11458 11459 11460
## [11461] 11461 11462 11463 11464 11465 11466 11467 11468 11469 11470 11471 11472
## [11473] 11473 11474 11475 11476 11477 11478 11479 11480 11481 11482 11483 11484
## [11485] 11485 11486 11487 11488 11489 11490 11491 11492 11493 11494 11495 11496
## [11497] 11497 11498 11499 11500 11501 11502 11503 11504 11505 11506 11507 11508
## [11509] 11509 11510 11511 11512 11513 11514 11515 11516 11517 11518 11519 11520
## [11521] 11521 11522 11523 11524 11525 11526 11527 11528 11529 11530 11531 11532
## [11533] 11533 11534 11535 11536 11537 11538 11539 11540 11541 11542 11543 11544
## [11545] 11545 11546 11547 11548 11549 11550 11551 11552 11553 11554 11555 11556
## [11557] 11557 11558 11559 11560 11561 11562 11563 11564 11565 11566 11567 11568
## [11569] 11569 11570 11571 11572 11573 11574 11575 11576 11577 11578 11579 11580
## [11581] 11581 11582 11583 11584 11585 11586 11587 11588 11589 11590 11591 11592
## [11593] 11593 11594 11595 11596 11597 11598 11599 11600 11601 11602 11603 11604
## [11605] 11605 11606 11607 11608 11609 11610 11611 11612 11613 11614 11615 11616
## [11617] 11617 11618 11619 11620 11621 11622 11623 11624 11625 11626 11627 11628
## [11629] 11629 11630 11631 11632 11633 11634 11635 11636 11637 11638 11639 11640
## [11641] 11641 11642 11643 11644 11645 11646 11647 11648 11649 11650 11651 11652
## [11653] 11653 11654 11655 11656 11657 11658 11659 11660 11661 11662 11663 11664
## [11665] 11665 11666 11667 11668 11669 11670 11671 11672 11673 11674 11675 11676
## [11677] 11677 11678 11679 11680 11681 11682 11683 11684 11685 11686 11687 11688
## [11689] 11689 11690 11691 11692 11693 11694 11695 11696 11697 11698 11699 11700
## [11701] 11701 11702 11703 11704 11705 11706 11707 11708 11709 11710 11711 11712
## [11713] 11713 11714 11715 11716 11717 11718 11719 11720 11721 11722 11723 11724
## [11725] 11725 11726 11727 11728 11729 11730 11731 11732 11733 11734 11735 11736
## [11737] 11737 11738 11739 11740 11741 11742 11743 11744 11745 11746 11747 11748
## [11749] 11749 11750 11751 11752 11753 11754 11755 11756 11757 11758 11759 11760
## [11761] 11761 11762 11763 11764 11765 11766 11767 11768 11769 11770 11771 11772
## [11773] 11773 11774 11775 11776 11777 11778 11779 11780 11781 11782 11783 11784
## [11785] 11785 11786 11787 11788 11789 11790 11791 11792 11793 11794 11795 11796
## [11797] 11797 11798 11799 11800 11801 11802 11803 11804 11805 11806 11807 11808
## [11809] 11809 11810 11811 11812 11813 11814 11815 11816 11817 11818 11819 11820
## [11821] 11821 11822 11823 11824 11825 11826 11827 11828 11829 11830 11831 11832
## [11833] 11833 11834 11835 11836 11837 11838 11839 11840 11841 11842 11843 11844
## [11845] 11845 11846 11847 11848 11849 11850 11851 11852 11853 11854 11855 11856
## [11857] 11857 11858 11859 11860 11861 11862 11863 11864 11865 11866 11867 11868
## [11869] 11869 11870 11871 11872 11873 11874 11875 11876 11877 11878 11879 11880
## [11881] 11881 11882 11883 11884 11885 11886 11887 11888 11889 11890 11891 11892
## [11893] 11893 11894 11895 11896 11897 11898 11899 11900 11901 11902 11903 11904
## [11905] 11905 11906 11907 11908 11909 11910 11911 11912 11913 11914 11915 11916
## [11917] 11917 11918 11919 11920 11921 11922 11923 11924 11925 11926 11927 11928
## [11929] 11929 11930 11931 11932 11933 11934 11935 11936 11937 11938 11939 11940
## [11941] 11941 11942 11943 11944 11945 11946 11947 11948 11949 11950 11951 11952

```

```

## [11953] 11953 11954 11955 11956 11957 11958 11959 11960 11961 11962 11963 11964
## [11965] 11965 11966 11967 11968 11969 11970 11971 11972 11973 11974 11975 11976
## [11977] 11977 11978 11979 11980 11981 11982 11983 11984 11985 11986 11987 11988
## [11989] 11989 11990 11991 11992 11993 11994 11995 11996 11997 11998 11999 12000
## [12001] 12001 12002 12003 12004 12005 12006 12007 12008 12009 12010 12011 12012
## [12013] 12013 12014 12015 12016 12017 12018 12019 12020 12021 12022 12023 12024
## [12025] 12025 12026 12027 12028 12029 12030 12031 12032 12033 12034 12035 12036
## [12037] 12037 12038 12039 12040 12041 12042 12043 12044 12045 12046 12047 12048
## [12049] 12049 12050 12051 12052 12053 12054 12055 12056 12057 12058 12059 12060
## [12061] 12061 12062 12063 12064 12065 12066 12067 12068 12069 12070 12071 12072
## [12073] 12073 12074 12075 12076 12077 12078 12079 12080 12081 12082 12083 12084
## [12085] 12085 12086 12087 12088 12089 12090 12091 12092 12093 12094 12095 12096
## [12097] 12097 12098 12099 12100 12101 12102 12103 12104 12105 12106 12107 12108
## [12109] 12109 12110 12111 12112 12113 12114 12115 12116 12117 12118 12119 12120
## [12121] 12121 12122 12123 12124 12125 12126 12127 12128 12129 12130 12131 12132
## [12133] 12133 12134 12135 12136 12137 12138 12139 12140 12141 12142 12143 12144
## [12145] 12145 12146 12147 12148 12149 12150 12151 12152 12153 12154 12155 12156
## [12157] 12157 12158 12159 12160 12161 12162 12163 12164 12165 12166 12167 12168
## [12169] 12169 12170 12171 12172 12173 12174 12175 12176 12177 12178 12179 12180
## [12181] 12181 12182 12183 12184 12185 12186 12187 12188 12189 12190 12191 12192
## [12193] 12193 12194 12195 12196 12197 12198 12199 12200 12201 12202 12203 12204
## [12205] 12205 12206 12207 12208 12209 12210 12211 12212 12213 12214 12215 12216
## [12217] 12217 12218 12219 12220 12221 12222 12223 12224 12225 12226 12227 12228
## [12229] 12229 12230 12231 12232 12233 12234 12235 12236 12237 12238 12239 12240
## [12241] 12241 12242 12243 12244 12245 12246 12247 12248 12249 12250 12251 12252
## [12253] 12253 12254 12255 12256 12257 12258 12259 12260 12261 12262 12263 12264
## [12265] 12265 12266 12267 12268 12269 12270 12271 12272 12273 12274 12275 12276
## [12277] 12277 12278 12279 12280 12281 12282 12283 12284 12285 12286 12287 12288
## [12289] 12289 12290 12291 12292 12293 12294 12295 12296 12297 12298 12299 12300
## [12301] 12301 12302 12303 12304 12305 12306 12307 12308 12309 12310 12311 12312
## [12313] 12313 12314 12315 12316 12317 12318 12319 12320 12321 12322 12323 12324
## [12325] 12325 12326 12327 12328 12329 12330 12331 12332 12333 12334 12335 12336
## [12337] 12337 12338 12339 12340 12341 12342 12343 12344 12345 12346 12347 12348
## [12349] 12349 12350 12351 12352 12353 12354 12355 12356 12357 12358 12359 12360
## [12361] 12361 12362 12363 12364 12365 12366 12367 12368 12369 12370 12371 12372
## [12373] 12373 12374 12375 12376 12377 12378 12379 12380 12381 12382 12383 12384
## [12385] 12385 12386 12387 12388 12389 12390 12391 12392 12393 12394 12395 12396
## [12397] 12397 12398 12399 12400 12401 12402 12403 12404 12405 12406 12407 12408
## [12409] 12409 12410 12411 12412 12413 12414 12415 12416 12417 12418 12419 12420
## [12421] 12421 12422 12423 12424 12425 12426 12427 12428 12429 12430 12431 12432
## [12433] 12433 12434 12435 12436 12437 12438 12439 12440 12441 12442 12443 12444
## [12445] 12445 12446 12447 12448 12449 12450 12451 12452 12453 12454 12455 12456
## [12457] 12457 12458 12459 12460 12461 12462 12463 12464 12465 12466 12467 12468
## [12469] 12469 12470 12471 12472 12473 12474 12475 12476 12477 12478 12479 12480
## [12481] 12481 12482 12483 12484 12485 12486 12487 12488 12489 12490 12491 12492
## [12493] 12493 12494 12495 12496 12497 12498 12499 12500 12501 12502 12503 12504
## [12505] 12505 12506 12507 12508 12509 12510 12511 12512 12513 12514 12515 12516
## [12517] 12517 12518 12519 12520 12521 12522 12523 12524 12525 12526 12527 12528
## [12529] 12529 12530 12531 12532 12533 12534 12535 12536 12537 12538 12539 12540
## [12541] 12541 12542 12543 12544 12545 12546 12547 12548 12549 12550 12551 12552
## [12553] 12553 12554 12555 12556 12557 12558 12559 12560 12561 12562 12563 12564
## [12565] 12565 12566 12567 12568 12569 12570 12571 12572 12573 12574 12575 12576
## [12577] 12577 12578 12579 12580 12581 12582 12583 12584 12585 12586 12587 12588
## [12589] 12589 12590 12591 12592 12593 12594 12595 12596 12597 12598 12599 12600

```

```

## [12601] 12601 12602 12603 12604 12605 12606 12607 12608 12609 12610 12611 12612
## [12613] 12613 12614 12615 12616 12617 12618 12619 12620 12621 12622 12623 12624
## [12625] 12625 12626 12627 12628 12629 12630 12631 12632 12633 12634 12635 12636
## [12637] 12637 12638 12639 12640 12641 12642 12643 12644 12645 12646 12647 12648
## [12649] 12649 12650 12651 12652 12653 12654 12655 12656 12657 12658 12659 12660
## [12661] 12661 12662 12663 12664 12665 12666 12667 12668 12669 12670 12671 12672
## [12673] 12673 12674 12675 12676 12677 12678 12679 12680 12681 12682 12683 12684
## [12685] 12685 12686 12687 12688 12689 12690 12691 12692 12693 12694 12695 12696
## [12697] 12697 12698 12699 12700 12701 12702 12703 12704 12705 12706 12707 12708
## [12709] 12709 12710 12711 12712 12713 12714 12715 12716 12717 12718 12719 12720
## [12721] 12721 12722 12723 12724 12725 12726 12727 12728 12729 12730 12731 12732
## [12733] 12733 12734 12735 12736 12737 12738 12739 12740 12741 12742 12743 12744
## [12745] 12745 12746 12747 12748 12749 12750 12751 12752 12753 12754 12755 12756
## [12757] 12757 12758 12759 12760 12761 12762 12763 12764 12765 12766 12767 12768
## [12769] 12769 12770 12771 12772 12773 12774 12775 12776 12777 12778 12779 12780
## [12781] 12781 12782 12783 12784 12785 12786 12787 12788 12789 12790 12791 12792
## [12793] 12793 12794 12795 12796 12797 12798 12799 12800 12801 12802 12803 12804
## [12805] 12805 12806 12807 12808 12809 12810 12811 12812 12813 12814 12815 12816
## [12817] 12817 12818 12819 12820 12821 12822 12823 12824 12825 12826 12827 12828
## [12829] 12829 12830 12831 12832 12833 12834 12835 12836 12837 12838 12839 12840
## [12841] 12841 12842 12843 12844 12845 12846 12847 12848 12849 12850 12851 12852
## [12853] 12853 12854 12855 12856 12857 12858 12859 12860 12861 12862 12863 12864
## [12865] 12865 12866 12867 12868 12869 12870 12871 12872 12873 12874 12875 12876
## [12877] 12877 12878 12879 12880 12881 12882 12883 12884 12885 12886 12887 12888
## [12889] 12889 12890 12891 12892 12893 12894 12895 12896 12897 12898 12899 12900
## [12901] 12901 12902 12903 12904 12905 12906 12907 12908 12909 12910 12911 12912
## [12913] 12913 12914 12915 12916 12917 12918 12919 12920 12921 12922 12923 12924
## [12925] 12925 12926 12927 12928 12929 12930 12931 12932 12933 12934 12935 12936
## [12937] 12937 12938 12939 12940 12941 12942 12943 12944 12945 12946 12947 12948
## [12949] 12949 12950 12951 12952 12953 12954 12955 12956 12957 12958 12959 12960
## [12961] 12961 12962 12963 12964 12965 12966 12967 12968 12969 12970 12971 12972
## [12973] 12973 12974 12975 12976 12977 12978 12979 12980 12981 12982 12983 12984
## [12985] 12985 12986 12987 12988 12989 12990 12991 12992 12993 12994 12995 12996
## [12997] 12997 12998 12999 13000 13001 13002 13003 13004 13005 13006 13007 13008
## [13009] 13009 13010 13011 13012 13013 13014 13015 13016 13017 13018 13019 13020
## [13021] 13021 13022 13023 13024 13025 13026 13027 13028 13029 13030 13031 13032
## [13033] 13033 13034 13035 13036 13037 13038 13039 13040 13041 13042 13043 13044
## [13045] 13045 13046 13047 13048 13049 13050 13051 13052 13053 13054 13055 13056
## [13057] 13057 13058 13059 13060 13061 13062 13063 13064 13065 13066 13067 13068
## [13069] 13069 13070 13071 13072 13073 13074 13075 13076 13077 13078 13079 13080
## [13081] 13081 13082 13083 13084 13085 13086 13087 13088 13089 13090 13091 13092
## [13093] 13093 13094 13095 13096 13097 13098 13099 13100 13101 13102 13103 13104
## [13105] 13105 13106 13107 13108 13109 13110 13111 13112 13113 13114 13115 13116
## [13117] 13117 13118 13119 13120 13121 13122 13123 13124 13125 13126 13127 13128
## [13129] 13129 13130 13131 13132 13133 13134 13135 13136 13137 13138 13139 13140
## [13141] 13141 13142 13143 13144 13145 13146 13147 13148 13149 13150 13151 13152
## [13153] 13153 13154 13155 13156 13157 13158 13159 13160 13161 13162 13163 13164
## [13165] 13165 13166 13167 13168 13169 13170 13171 13172 13173 13174 13175 13176
## [13177] 13177 13178 13179 13180 13181 13182 13183 13184 13185 13186 13187 13188
## [13189] 13189 13190 13191 13192 13193 13194 13195 13196 13197 13198 13199 13200
## [13201] 13201 13202 13203 13204 13205 13206 13207 13208 13209 13210 13211 13212
## [13213] 13213 13214 13215 13216 13217 13218 13219 13220 13221 13222 13223 13224
## [13225] 13225 13226 13227 13228 13229 13230 13231 13232 13233 13234 13235 13236
## [13237] 13237 13238 13239 13240 13241 13242 13243 13244 13245 13246 13247 13248

```

```

## [13249] 13249 13250 13251 13252 13253 13254 13255 13256 13257 13258 13259 13260
## [13261] 13261 13262 13263 13264 13265 13266 13267 13268 13269 13270 13271 13272
## [13273] 13273 13274 13275 13276 13277 13278 13279 13280 13281 13282 13283 13284
## [13285] 13285 13286 13287 13288 13289 13290 13291 13292 13293 13294 13295 13296
## [13297] 13297 13298 13299 13300 13301 13302 13303 13304 13305 13306 13307 13308
## [13309] 13309 13310

```

```
typeof(bac_OTU)
```

```
## [1] "integer"
```

```
#wrangling for site T7_2
colnames(mic)
```

```

## [1] "OTU"   "T1_1"  "T1_2"  "T1_3"  "T7_1"  "T7_2"  "T7_3"  "DF_1"  "DF_2"  "CF_1"
## [11] "CF_2"  "CF_3"

```

```

bac<-mic%>%
  filter(T7_2>=1)%>%
  select(OTU, T7_2)
bac

```

	OTU	T7_2
## 1	1	65
## 2	2	1
## 3	3	3
## 4	4	120
## 5	5	17
## 6	6	55
## 7	7	4
## 8	9	15
## 9	11	1
## 10	13	50
## 11	14	7
## 12	15	6
## 13	16	18
## 14	17	2
## 15	18	42
## 16	19	14
## 17	20	56
## 18	21	12
## 19	22	53
## 20	24	6
## 21	25	1
## 22	28	4
## 23	30	1
## 24	31	2
## 25	33	17
## 26	34	9
## 27	35	52
## 28	38	2
## 29	42	17

```
## 30      44      2
## 31      45     10
## 32      47      6
## 33      48     54
## 34      50      2
## 35      51      1
## 36      52      3
## 37      53      7
## 38      55      1
## 39      56      5
## 40      57     51
## 41      58      5
## 42      61      8
## 43      62      4
## 44      63      2
## 45      64      6
## 46      67     15
## 47      70     19
## 48      71      8
## 49      74      5
## 50      77     13
## 51      78     19
## 52      80      2
## 53      82      7
## 54      84      9
## 55      85      4
## 56      90      9
## 57      95      5
## 58      98      2
## 59     100      4
## 60     101      6
## 61     103      3
## 62     104      2
## 63     106      1
## 64     111      3
## 65     116      1
## 66     117      3
## 67     118     15
## 68     119     21
## 69     120     11
## 70     121      3
## 71     125      6
## 72     126      2
## 73     127      6
## 74     129      8
## 75     135      1
## 76     136      1
## 77     137      5
## 78     138      2
## 79     140      3
## 80     145      1
## 81     147      4
## 82     148      5
## 83     150      2
```

```
## 84      153      2
## 85      154      2
## 86      159      3
## 87      161      5
## 88      167      3
## 89      171      3
## 90      172      1
## 91      174      2
## 92      175      1
## 93      176     12
## 94      178      6
## 95      179      1
## 96      180      2
## 97      185      1
## 98      186      4
## 99      187      2
## 100     190      8
## 101     191      2
## 102     198      1
## 103     199      3
## 104     202      1
## 105     203      1
## 106     204      1
## 107     207      9
## 108     208      1
## 109     209      2
## 110     212      5
## 111     214      3
## 112     216      1
## 113     221     10
## 114     224      2
## 115     225      3
## 116     226      4
## 117     227      2
## 118     228      6
## 119     230      2
## 120     232      3
## 121     236      1
## 122     239      5
## 123     242      4
## 124     247     10
## 125     249      6
## 126     252      2
## 127     253      5
## 128     254      3
## 129     255      6
## 130     257      5
## 131     259      2
## 132     260      3
## 133     262      5
## 134     265      6
## 135     266      8
## 136     267      4
## 137     268      4
```

```
## 138    270    1
## 139    271    2
## 140    273    1
## 141    274    3
## 142    279    1
## 143    281    2
## 144    286    2
## 145    296    7
## 146    298    7
## 147    299    2
## 148    300    1
## 149    302    2
## 150    307    1
## 151    309    2
## 152    310    4
## 153    311    9
## 154    312    5
## 155    313    6
## 156    319    3
## 157    322    2
## 158    326    16
## 159    331    9
## 160    332    2
## 161    333    3
## 162    335    2
## 163    336    6
## 164    340    1
## 165    341    4
## 166    344    4
## 167    348    3
## 168    351    1
## 169    354    8
## 170    356    1
## 171    357    8
## 172    363    3
## 173    367    1
## 174    369    1
## 175    370    3
## 176    374    4
## 177    385    10
## 178    393    1
## 179    404    2
## 180    406    2
## 181    408    1
## 182    409    1
## 183    414    1
## 184    415    1
## 185    416    4
## 186    418    2
## 187    422    2
## 188    423    1
## 189    436    5
## 190    437    10
## 191    438    4
```

```
## 192      440      4
## 193      443      2
## 194      448      1
## 195      452      3
## 196      454      1
## 197      457      3
## 198      458      6
## 199      463      1
## 200      465      1
## 201      466      3
## 202      468      2
## 203      477      1
## 204      480      1
## 205      481      2
## 206      484      4
## 207      487      3
## 208      490     21
## 209      491      1
## 210      503      6
## 211      504      1
## 212      505      3
## 213      511      2
## 214      512      1
## 215      513      2
## 216      522      2
## 217      524      4
## 218      528      1
## 219      536      9
## 220      538      1
## 221      542      4
## 222      544      4
## 223      547      7
## 224      549      2
## 225      553      2
## 226      554      3
## 227      556      7
## 228      558      6
## 229      560      3
## 230      562      3
## 231      564      1
## 232      568      2
## 233      571      1
## 234      574      1
## 235      575      2
## 236      576      4
## 237      578     16
## 238      586      6
## 239      587      1
## 240      588      2
## 241      589      1
## 242      590      4
## 243      591      1
## 244      599      2
## 245     603      2
```

```
## 246    604    10
## 247    611     2
## 248    617     2
## 249    619     5
## 250    620     1
## 251    622     1
## 252    624     3
## 253    631     2
## 254    633     3
## 255    637     5
## 256    641     5
## 257    642     1
## 258    644     3
## 259    647     2
## 260    648     3
## 261    651     4
## 262    654     2
## 263    658     1
## 264    659     3
## 265    664     1
## 266    667     4
## 267    671     1
## 268    673     5
## 269    680     1
## 270    686     1
## 271    688     2
## 272    693     1
## 273    697     6
## 274    700     1
## 275    702     2
## 276    705     2
## 277    707     1
## 278    708     3
## 279    709     5
## 280    717     3
## 281    719     4
## 282    721     1
## 283    723     2
## 284    731     4
## 285    733     2
## 286    734     1
## 287    737     1
## 288    738     3
## 289    739     1
## 290    743     1
## 291    744     1
## 292    745     1
## 293    754     2
## 294    757     3
## 295    758     1
## 296    761     2
## 297    765     1
## 298    771     1
## 299    772     2
```

## 300	787	1
## 301	788	1
## 302	789	1
## 303	794	4
## 304	800	3
## 305	806	1
## 306	813	3
## 307	814	1
## 308	819	5
## 309	822	3
## 310	824	1
## 311	826	5
## 312	829	1
## 313	832	2
## 314	837	4
## 315	839	1
## 316	840	1
## 317	849	3
## 318	853	3
## 319	854	1
## 320	857	1
## 321	860	1
## 322	867	2
## 323	868	1
## 324	869	3
## 325	874	5
## 326	876	5
## 327	881	2
## 328	885	3
## 329	886	5
## 330	888	1
## 331	890	1
## 332	893	3
## 333	894	1
## 334	896	1
## 335	897	2
## 336	898	1
## 337	902	1
## 338	904	3
## 339	909	1
## 340	910	2
## 341	911	2
## 342	914	1
## 343	916	4
## 344	917	1
## 345	918	6
## 346	939	2
## 347	942	1
## 348	952	2
## 349	954	4
## 350	961	6
## 351	962	1
## 352	965	6
## 353	966	1

```
## 354    973    4
## 355    986    1
## 356    988    1
## 357    993    7
## 358    995    2
## 359    997    1
## 360   1001    3
## 361   1002    6
## 362   1006    1
## 363   1008    2
## 364   1020    1
## 365   1021    1
## 366   1025    2
## 367   1028    1
## 368   1029    1
## 369   1034    3
## 370   1037    2
## 371   1041    1
## 372   1051    2
## 373   1054    2
## 374   1057    1
## 375   1058    2
## 376   1070    1
## 377   1071    1
## 378   1077    1
## 379   1082    2
## 380   1086    1
## 381   1090    1
## 382   1096    1
## 383   1097    6
## 384   1101    2
## 385   1104    2
## 386   1108    1
## 387   1123    1
## 388   1125    1
## 389   1131    2
## 390   1134    3
## 391   1137    1
## 392   1140    1
## 393   1144    4
## 394   1145    1
## 395   1149    1
## 396   1158    1
## 397   1159    1
## 398   1162    1
## 399   1166    2
## 400   1169    1
## 401   1170    1
## 402   1172    1
## 403   1174    2
## 404   1177    1
## 405   1179    3
## 406   1185    1
## 407   1188    1
```

```
## 408 1193 2
## 409 1195 3
## 410 1200 3
## 411 1215 1
## 412 1217 1
## 413 1230 1
## 414 1232 4
## 415 1235 1
## 416 1241 1
## 417 1242 2
## 418 1243 2
## 419 1252 1
## 420 1255 1
## 421 1259 1
## 422 1269 4
## 423 1272 1
## 424 1274 1
## 425 1279 2
## 426 1280 2
## 427 1284 2
## 428 1285 1
## 429 1287 2
## 430 1288 1
## 431 1291 1
## 432 1294 1
## 433 1296 2
## 434 1297 1
## 435 1317 1
## 436 1325 2
## 437 1332 1
## 438 1335 3
## 439 1340 3
## 440 1344 1
## 441 1348 5
## 442 1350 2
## 443 1351 2
## 444 1353 2
## 445 1355 3
## 446 1360 3
## 447 1361 1
## 448 1365 4
## 449 1370 2
## 450 1371 3
## 451 1374 2
## 452 1375 4
## 453 1377 1
## 454 1385 7
## 455 1388 1
## 456 1393 1
## 457 1395 4
## 458 1398 1
## 459 1401 2
## 460 1411 4
## 461 1412 3
```

```
## 462 1414 4
## 463 1429 1
## 464 1440 4
## 465 1441 1
## 466 1445 4
## 467 1449 2
## 468 1451 4
## 469 1456 1
## 470 1459 14
## 471 1464 1
## 472 1467 1
## 473 1469 1
## 474 1471 3
## 475 1472 1
## 476 1476 1
## 477 1481 1
## 478 1484 5
## 479 1485 1
## 480 1489 4
## 481 1494 1
## 482 1495 4
## 483 1501 3
## 484 1506 1
## 485 1516 3
## 486 1517 1
## 487 1519 1
## 488 1522 3
## 489 1529 2
## 490 1536 4
## 491 1543 4
## 492 1552 2
## 493 1555 1
## 494 1559 2
## 495 1561 5
## 496 1571 3
## 497 1573 2
## 498 1577 4
## 499 1592 4
## 500 1604 1
## 501 1605 1
## 502 1609 1
## 503 1623 2
## 504 1632 3
## 505 1641 1
## 506 1647 1
## 507 1663 2
## 508 1670 1
## 509 1673 3
## 510 1674 2
## 511 1676 2
## 512 1701 1
## 513 1711 4
## 514 1725 6
## 515 1726 3
```

```
## 516 1727 2
## 517 1732 1
## 518 1733 3
## 519 1734 2
## 520 1741 1
## 521 1760 2
## 522 1765 2
## 523 1766 2
## 524 1770 1
## 525 1774 3
## 526 1781 1
## 527 1792 2
## 528 1803 2
## 529 1807 4
## 530 1815 4
## 531 1820 1
## 532 1825 1
## 533 1830 1
## 534 1844 1
## 535 1863 2
## 536 1864 3
## 537 1865 2
## 538 1871 1
## 539 1879 2
## 540 1885 1
## 541 1888 2
## 542 1891 2
## 543 1900 3
## 544 1904 3
## 545 1914 1
## 546 1916 1
## 547 1925 1
## 548 1928 1
## 549 1944 3
## 550 1946 2
## 551 1947 2
## 552 1950 2
## 553 1956 2
## 554 1957 3
## 555 1959 2
## 556 1973 3
## 557 1974 3
## 558 2006 2
## 559 2008 2
## 560 2013 1
## 561 2020 3
## 562 2023 2
## 563 2027 3
## 564 2028 1
## 565 2033 1
## 566 2034 1
## 567 2036 1
## 568 2037 1
## 569 2046 3
```

```
## 570 2051 1
## 571 2053 1
## 572 2055 1
## 573 2057 1
## 574 2060 1
## 575 2064 1
## 576 2080 1
## 577 2085 6
## 578 2093 1
## 579 2095 2
## 580 2099 2
## 581 2101 3
## 582 2103 1
## 583 2104 3
## 584 2112 1
## 585 2116 1
## 586 2123 1
## 587 2130 1
## 588 2137 3
## 589 2148 3
## 590 2164 1
## 591 2169 2
## 592 2196 2
## 593 2201 2
## 594 2205 2
## 595 2216 1
## 596 2222 2
## 597 2224 1
## 598 2245 1
## 599 2253 1
## 600 2266 1
## 601 2271 1
## 602 2302 3
## 603 2309 1
## 604 2342 1
## 605 2354 3
## 606 2360 3
## 607 2368 1
## 608 2377 3
## 609 2384 1
## 610 2386 1
## 611 2397 3
## 612 2421 1
## 613 2446 1
## 614 2455 2
## 615 2462 1
## 616 2467 2
## 617 2471 1
## 618 2478 2
## 619 2479 2
## 620 2499 1
## 621 2501 2
## 622 2504 2
## 623 2523 1
```

```
## 624 2537 1
## 625 2541 1
## 626 2544 2
## 627 2546 1
## 628 2550 2
## 629 2569 2
## 630 2588 2
## 631 2590 2
## 632 2609 1
## 633 2620 1
## 634 2625 1
## 635 2630 1
## 636 2635 2
## 637 2643 2
## 638 2653 2
## 639 2664 2
## 640 2674 2
## 641 2682 1
## 642 2691 2
## 643 2698 1
## 644 2702 2
## 645 2731 1
## 646 2739 1
## 647 2760 1
## 648 2767 2
## 649 2779 2
## 650 2784 2
## 651 2785 2
## 652 2787 1
## 653 2796 2
## 654 2798 1
## 655 2809 1
## 656 2812 1
## 657 2822 1
## 658 2823 1
## 659 2855 2
## 660 2858 1
## 661 2879 2
## 662 2897 2
## 663 2899 1
## 664 2900 1
## 665 2921 1
## 666 2947 2
## 667 2950 2
## 668 2963 1
## 669 2966 2
## 670 2985 2
## 671 2986 3
## 672 3001 2
## 673 3020 2
## 674 3038 1
## 675 3045 1
## 676 3049 3
## 677 3054 1
```

```
## 678 3077 1
## 679 3087 2
## 680 3092 1
## 681 3093 2
## 682 3096 1
## 683 3097 1
## 684 3125 2
## 685 3130 2
## 686 3175 2
## 687 3180 1
## 688 3184 1
## 689 3189 2
## 690 3190 2
## 691 3192 2
## 692 3193 3
## 693 3204 2
## 694 3206 2
## 695 3207 3
## 696 3211 2
## 697 3216 2
## 698 3224 2
## 699 3228 1
## 700 3247 2
## 701 3249 2
## 702 3276 1
## 703 3279 2
## 704 3281 2
## 705 3285 1
## 706 3289 1
## 707 3319 4
## 708 3324 1
## 709 3326 2
## 710 3331 2
## 711 3342 3
## 712 3347 3
## 713 3351 1
## 714 3356 1
## 715 3360 3
## 716 3372 1
## 717 3380 1
## 718 3409 1
## 719 3410 1
## 720 3443 2
## 721 3452 2
## 722 3480 3
## 723 3501 2
## 724 3508 2
## 725 3533 2
## 726 3540 1
## 727 3556 1
## 728 3569 2
## 729 3581 1
## 730 3606 1
## 731 3622 1
```

```
## 732 3642 2
## 733 3643 2
## 734 3645 2
## 735 3685 2
## 736 3704 2
## 737 3739 1
## 738 3762 3
## 739 3765 1
## 740 3766 1
## 741 3777 1
## 742 3788 1
## 743 3791 1
## 744 3810 3
## 745 3811 2
## 746 3821 1
## 747 3845 1
## 748 3849 2
## 749 3864 2
## 750 3874 3
## 751 3876 1
## 752 3880 2
## 753 3882 1
## 754 3919 1
## 755 3923 2
## 756 3925 2
## 757 3952 1
## 758 3957 2
## 759 3969 1
## 760 3970 1
## 761 3973 2
## 762 3983 1
## 763 3987 1
## 764 3999 1
## 765 4001 1
## 766 4021 1
## 767 4028 2
## 768 4029 1
## 769 4046 1
## 770 4059 1
## 771 4065 2
## 772 4077 2
## 773 4097 1
## 774 4115 2
## 775 4124 2
## 776 4131 1
## 777 4136 2
## 778 4139 1
## 779 4140 5
## 780 4141 1
## 781 4158 2
## 782 4168 1
## 783 4176 2
## 784 4180 1
## 785 4209 1
```

```
## 786 4218 2
## 787 4223 1
## 788 4227 2
## 789 4248 2
## 790 4257 1
## 791 4260 1
## 792 4265 2
## 793 4275 1
## 794 4287 1
## 795 4305 2
## 796 4307 1
## 797 4319 1
## 798 4345 1
## 799 4368 3
## 800 4384 2
## 801 4426 2
## 802 4449 1
## 803 4450 1
## 804 4462 1
## 805 4467 3
## 806 4478 1
## 807 4489 1
## 808 4509 1
## 809 4569 1
## 810 4611 1
## 811 4621 1
## 812 4631 1
## 813 4637 1
## 814 4641 1
## 815 4658 1
## 816 4716 1
## 817 4725 1
## 818 4728 1
## 819 4731 2
## 820 4735 1
## 821 4742 1
## 822 4751 1
## 823 4811 1
## 824 4864 1
## 825 4866 1
## 826 4869 1
## 827 4883 1
## 828 4891 1
## 829 4892 2
## 830 4896 1
## 831 4898 1
## 832 4923 1
## 833 4946 1
## 834 4968 1
## 835 4999 1
## 836 5027 1
## 837 5033 1
## 838 5034 1
## 839 5047 1
```

```
## 840 5051 1
## 841 5073 1
## 842 5085 1
## 843 5109 1
## 844 5128 2
## 845 5155 1
## 846 5174 1
## 847 5228 1
## 848 5231 1
## 849 5243 1
## 850 5244 1
## 851 5265 1
## 852 5266 1
## 853 5269 1
## 854 5274 1
## 855 5297 1
## 856 5303 1
## 857 5322 1
## 858 5373 1
## 859 5403 1
## 860 5413 1
## 861 5467 1
## 862 5509 1
## 863 5513 1
## 864 5538 1
## 865 5543 1
## 866 5557 1
## 867 5566 1
## 868 5594 1
## 869 5601 1
## 870 5610 1
## 871 5617 1
## 872 5625 1
## 873 5627 1
## 874 5644 1
## 875 5701 1
## 876 5717 1
## 877 5718 1
## 878 5730 1
## 879 5741 1
## 880 5747 1
## 881 5754 1
## 882 5759 1
## 883 5841 1
## 884 5845 1
## 885 5871 1
## 886 5881 1
## 887 5891 1
## 888 5898 1
## 889 5903 3
## 890 5905 1
## 891 5910 1
## 892 5916 1
## 893 5918 1
```

```
## 894 5933 1
## 895 5953 1
## 896 5956 1
## 897 5959 1
## 898 5975 1
## 899 6037 1
## 900 6043 1
## 901 6049 1
## 902 6085 1
## 903 6099 1
## 904 6103 1
## 905 6107 1
## 906 6143 1
## 907 6148 1
## 908 6151 1
## 909 6152 1
## 910 6154 1
## 911 6200 1
## 912 6214 1
## 913 6216 1
## 914 6253 1
## 915 6272 1
## 916 6276 1
## 917 6366 2
## 918 6392 1
## 919 6404 1
## 920 6411 1
## 921 6417 1
## 922 6460 1
## 923 6464 1
## 924 6466 1
## 925 6479 1
## 926 6483 1
## 927 6489 1
## 928 6498 1
## 929 6514 1
## 930 6535 1
## 931 6536 1
## 932 6539 1
## 933 6552 1
## 934 6573 1
## 935 6583 1
## 936 6594 1
## 937 6600 1
## 938 6604 1
## 939 6607 1
## 940 6615 1
## 941 6617 1
## 942 6629 1
## 943 6633 1
## 944 6644 1
## 945 6681 1
## 946 6682 1
## 947 6697 1
```

```
## 948 6715 1
## 949 6734 1
## 950 6747 1
## 951 6749 1
## 952 6772 1
## 953 6775 1
## 954 6780 1
## 955 6781 1
## 956 6787 1
## 957 6792 1
## 958 6794 1
## 959 6814 1
## 960 6826 1
## 961 6853 1
## 962 6867 1
## 963 6887 1
## 964 6908 1
## 965 6914 1
## 966 6930 1
## 967 6972 1
## 968 6973 1
## 969 6990 1
## 970 7003 1
## 971 7004 1
## 972 7023 1
## 973 7049 1
## 974 7054 1
## 975 7077 1
## 976 7156 1
## 977 7159 1
## 978 7167 1
## 979 7234 1
## 980 7242 1
## 981 7252 1
## 982 7258 1
## 983 7288 1
## 984 7294 1
## 985 7307 1
## 986 7344 1
## 987 7355 1
## 988 7356 1
## 989 7403 1
## 990 7441 1
## 991 7471 1
## 992 7480 1
## 993 7498 1
## 994 7528 1
## 995 7537 1
## 996 7582 1
## 997 7609 2
## 998 7617 1
## 999 7626 1
## 1000 7628 1
## 1001 7635 1
```

```
## 1002 7653 1
## 1003 7654 1
## 1004 7656 1
## 1005 7695 1
## 1006 7702 1
## 1007 7707 1
## 1008 7715 1
## 1009 7735 1
## 1010 7736 1
## 1011 7754 2
## 1012 7755 1
## 1013 7813 1
## 1014 7817 1
## 1015 7819 1
## 1016 7839 1
## 1017 7840 1
## 1018 7841 1
## 1019 7856 1
## 1020 7882 1
## 1021 7885 1
## 1022 7895 1
## 1023 7941 1
## 1024 7942 1
## 1025 7943 1
## 1026 7949 1
## 1027 7984 1
## 1028 7990 1
## 1029 8009 1
## 1030 8012 1
## 1031 8020 1
## 1032 8026 1
## 1033 8121 1
## 1034 8122 1
## 1035 8146 1
## 1036 8155 1
## 1037 8226 1
## 1038 8236 1
## 1039 8246 1
## 1040 8257 1
## 1041 8282 1
## 1042 8324 1
## 1043 8331 1
## 1044 8332 1
## 1045 8337 1
## 1046 8354 2
## 1047 8369 1
## 1048 8389 1
## 1049 8404 1
## 1050 8448 1
## 1051 8455 1
## 1052 8497 1
## 1053 8503 1
## 1054 8512 1
## 1055 8535 1
```

```
## 1056 8566 1
## 1057 8568 2
## 1058 8601 1
## 1059 8609 1
## 1060 8629 1
## 1061 8653 1
## 1062 8672 1
## 1063 8674 1
## 1064 8684 1
## 1065 8696 1
## 1066 8718 1
## 1067 8756 1
## 1068 8765 1
## 1069 8774 1
## 1070 8798 1
## 1071 8801 1
## 1072 8823 1
## 1073 8838 1
## 1074 8873 1
## 1075 8874 1
## 1076 8876 1
## 1077 8878 1
## 1078 8879 1
## 1079 8887 1
## 1080 8889 1
## 1081 8953 1
## 1082 9003 1
## 1083 9013 1
## 1084 9051 3
## 1085 9061 1
## 1086 9062 1
## 1087 9064 1
## 1088 9085 1
## 1089 9087 1
## 1090 9111 1
## 1091 9113 1
## 1092 9116 1
## 1093 9122 1
## 1094 9123 2
## 1095 9172 1
## 1096 9182 1
## 1097 9186 1
## 1098 9188 1
## 1099 9204 1
## 1100 9221 2
## 1101 9227 1
## 1102 9302 1
## 1103 9367 1
## 1104 9373 1
## 1105 9436 1
## 1106 9527 1
## 1107 9547 1
## 1108 9556 1
## 1109 9567 1
```

```
## 1110 9579 1
## 1111 9588 1
## 1112 9597 1
## 1113 9600 1
## 1114 9607 1
## 1115 9614 1
## 1116 9642 1
## 1117 9652 1
## 1118 9665 1
## 1119 9675 1
## 1120 9692 1
## 1121 9719 1
## 1122 9733 1
## 1123 9747 1
## 1124 9750 1
## 1125 9784 1
## 1126 9810 1
## 1127 9826 1
## 1128 9839 1
## 1129 9938 1
## 1130 9944 1
## 1131 9958 1
## 1132 9969 1
## 1133 9970 1
## 1134 9980 1
## 1135 9993 1
## 1136 10014 1
## 1137 10040 1
## 1138 10048 1
## 1139 10052 1
## 1140 10062 1
## 1141 10064 1
## 1142 10078 1
## 1143 10079 1
## 1144 10086 1
## 1145 10091 1
## 1146 10097 1
## 1147 10108 1
## 1148 10110 1
## 1149 10120 1
## 1150 10123 1
## 1151 10125 1
## 1152 10134 1
## 1153 10166 1
## 1154 10182 1
## 1155 10183 1
## 1156 10194 1
## 1157 10215 1
## 1158 10216 1
## 1159 10220 1
## 1160 10222 1
## 1161 10223 1
## 1162 10233 2
## 1163 10262 1
```

```
## 1164 10266      1
## 1165 10267      1
## 1166 10294      1
## 1167 10302      1
## 1168 10303      1
## 1169 10306      1
## 1170 10309      1
## 1171 10314      1
## 1172 10320      1
## 1173 10366      1
## 1174 10375      1
## 1175 10382      1
## 1176 10412      1
## 1177 10438      1
## 1178 10439      1
## 1179 10452      1
## 1180 10472      1
## 1181 10484      1
## 1182 10489      1
## 1183 10501      1
## 1184 10527      1
## 1185 10535      1
## 1186 10550      1
## 1187 10567      1
## 1188 10606      1
## 1189 10647      1
## 1190 10651      1
## 1191 10679      1
## 1192 10688      1
## 1193 10726      1
## 1194 10744      1
## 1195 10761      1
## 1196 10764      1
## 1197 10765      1
## 1198 10771      1
## 1199 10776      1
## 1200 10782      1
## 1201 10792      1
## 1202 10811      1
## 1203 10814      1
## 1204 10837      1
## 1205 10857      1
## 1206 10864      1
## 1207 10870      1
## 1208 10873      1
## 1209 10883      1
## 1210 10885      1
## 1211 10918      1
## 1212 10944      1
## 1213 10952      1
## 1214 10958      1
## 1215 10970      1
## 1216 10982      1
## 1217 10990      1
```

```
## 1218 10999      1
## 1219 11024      1
## 1220 11084      1
## 1221 11098      1
## 1222 11126      1
## 1223 11127      2
## 1224 11134      1
## 1225 11145      1
## 1226 11151      1
## 1227 11163      1
## 1228 11173      1
## 1229 11178      1
## 1230 11191      1
## 1231 11205      1
## 1232 11214      1
## 1233 11221      1
## 1234 11224      1
## 1235 11226      1
## 1236 11239      1
## 1237 11243      1
## 1238 11249      1
## 1239 11278      1
## 1240 11280      1
## 1241 11287      1
## 1242 11293      2
## 1243 11313      1
## 1244 11316      1
## 1245 11334      1
## 1246 11340      1
## 1247 11353      1
## 1248 11365      1
## 1249 11409      1
## 1250 11411      1
## 1251 11413      1
## 1252 11420      1
## 1253 11456      1
## 1254 11457      1
## 1255 11474      1
## 1256 11493      1
## 1257 11498      1
## 1258 11521      2
## 1259 11524      1
## 1260 11532      1
## 1261 11558      1
## 1262 11567      1
## 1263 11591      1
## 1264 11622      1
## 1265 11643      1
## 1266 11664      1
## 1267 11666      1
## 1268 11708      1
## 1269 11753      1
## 1270 11758      1
## 1271 11759      2
```

```
## 1272 11779      1
## 1273 11789      1
## 1274 11804      1
## 1275 11806      1
## 1276 11808      1
## 1277 11830      1
## 1278 11845      1
## 1279 11847      1
## 1280 11852      1
## 1281 11878      1
## 1282 11911      1
## 1283 11971      1
## 1284 11986      1
## 1285 11992      1
## 1286 12005      1
## 1287 12060      1
## 1288 12103      1
## 1289 12110      1
## 1290 12131      1
## 1291 12158      1
## 1292 12181      1
## 1293 12200      1
## 1294 12203      1
## 1295 12207      1
## 1296 12216      1
## 1297 12227      1
## 1298 12230      1
## 1299 12244      1
## 1300 12290      1
## 1301 12291      1
## 1302 12295      1
## 1303 12313      1
## 1304 12315      2
## 1305 12329      1
## 1306 12340      1
## 1307 12355      1
## 1308 12373      1
## 1309 12387      2
## 1310 12390      1
## 1311 12400      1
## 1312 12420      1
## 1313 12445      1
## 1314 12458      1
## 1315 12462      1
## 1316 12465      1
## 1317 12472      1
## 1318 12476      1
## 1319 12478      1
## 1320 12479      1
## 1321 12484      1
## 1322 12511      1
## 1323 12523      1
## 1324 12531      1
## 1325 12535      1
```

```
## 1326 12548      1
## 1327 12561      1
## 1328 12579      1
## 1329 12580      1
## 1330 12589      1
## 1331 12611      1
## 1332 12619      1
## 1333 12663      1
## 1334 12687      1
## 1335 12743      1
## 1336 12769      1
## 1337 12776      1
## 1338 12802      2
## 1339 12803      3
## 1340 12804      1
## 1341 12817      1
## 1342 12832      1
## 1343 12833      1
## 1344 12847      1
## 1345 12850      1
## 1346 12851      1
## 1347 12856      2
## 1348 12858      1
## 1349 12859      1
## 1350 12860      1
## 1351 12865      1
## 1352 12868      1
## 1353 12869      1
## 1354 12870      1
## 1355 12874      1
## 1356 12880      2
## 1357 12891      1
## 1358 12894      1
## 1359 12897      1
## 1360 12905      1
## 1361 12912      1
## 1362 12916      1
## 1363 12924      1
## 1364 12945      2
## 1365 12950      1
## 1366 12975      1
## 1367 12997      1
## 1368 13002      1
## 1369 13028      1
## 1370 13042      2
## 1371 13043      1
## 1372 13046      1
## 1373 13063      2
## 1374 13066      1
## 1375 13069      1
## 1376 13073      1
## 1377 13074      1
## 1378 13075      1
## 1379 13129      1
```

```

## 1380 13131      1
## 1381 13133      1
## 1382 13134      1
## 1383 13137      2
## 1384 13141      1
## 1385 13142      1
## 1386 13143      1
## 1387 13153      1
## 1388 13155      2
## 1389 13169      1
## 1390 13199      1
## 1391 13207      1
## 1392 13214      1
## 1393 13215      1
## 1394 13216      1
## 1395 13239      1
## 1396 13252      1
## 1397 13253      1
## 1398 13257      1
## 1399 13265      1
## 1400 13267      1
## 1401 13277      1
## 1402 13288      1
## 1403 13289      1
## 1404 13291      1
## 1405 13295      1
## 1406 13296      1

t_bac<-as.data.frame(t(bac)) #transpose of the dataset
t_bac

##          V1 V2 V3 V4 V5 V6 V7 V8 V9 V10 V11 V12 V13 V14 V15 V16 V17 V18 V19 V20
## OTU      1  2  3  4  5  6  7  9 11 13 14 15 16 17 18 19 20 21 22 24
## T7_2    65  1  3 120 17 55  4 15  1 50  7  6 18  2 42 14 56 12 53  6
##          V21 V22 V23 V24 V25 V26 V27 V28 V29 V30 V31 V32 V33 V34 V35 V36 V37 V38
## OTU     25  28 30 31 33 34 35 38 42 44 45 47 48 50 51 52 53 55
## T7_2    1   4  1  2 17  9 52  2 17  2 10  6 54  2  1  3  7  1
##          V39 V40 V41 V42 V43 V44 V45 V46 V47 V48 V49 V50 V51 V52 V53 V54 V55 V56
## OTU     56  57 58 61 62 63 64 67 70 71 74 77 78 80 82 84 85 90
## T7_2    5  51  5  8  4  2  6 15 19  8  5 13 19  2  7  9  4  9
##          V57 V58 V59 V60 V61 V62 V63 V64 V65 V66 V67 V68 V69 V70 V71 V72 V73 V74
## OTU     95  98 100 101 103 104 106 111 116 117 118 119 120 121 125 126 127 129
## T7_2    5   2  4  6  3  2  1  3  1  3 15 21 11  3  6  2  6  8
##          V75 V76 V77 V78 V79 V80 V81 V82 V83 V84 V85 V86 V87 V88 V89 V90 V91 V92
## OTU    135 136 137 138 140 145 147 148 150 153 154 159 161 167 171 172 174 175
## T7_2    1   1  5  2  3  1  4  5  2  2  2  3  5  3  3  1  2  1
##          V93 V94 V95 V96 V97 V98 V99 V100 V101 V102 V103 V104 V105 V106 V107 V108
## OTU    176 178 179 180 185 186 187 190 191 198 199 202 203 204 207 208
## T7_2    12   6  1  2  1  4  2  8  2  1  3  1  1  1  9  1
##          V109 V110 V111 V112 V113 V114 V115 V116 V117 V118 V119 V120 V121 V122 V123
## OTU    209 212 214 216 221 224 225 226 227 228 230 232 236 239 242
## T7_2    2   5  3  1 10  2  3  4  2  6  2  3  1  5  4
##          V124 V125 V126 V127 V128 V129 V130 V131 V132 V133 V134 V135 V136 V137 V138
## OTU    247 249 252 253 254 255 257 259 260 262 265 266 267 268 270

```

```

## T7_2   10    6    2    5    3    6    5    2    3    5    6    8    4    4    1
##      V139 V140 V141 V142 V143 V144 V145 V146 V147 V148 V149 V150 V151 V152 V153
## OTU   271  273  274  279  281  286  296  298  299  300  302  307  309  310  311
## T7_2   2     1    3    1    2    2    7    7    2    1    2    1    2    4    9
##      V154 V155 V156 V157 V158 V159 V160 V161 V162 V163 V164 V165 V166 V167 V168
## OTU   312  313  319  322  326  331  332  333  335  336  340  341  344  348  351
## T7_2   5     6    3    2    16   9    2    3    2    6    1    4    4    3    1
##      V169 V170 V171 V172 V173 V174 V175 V176 V177 V178 V179 V180 V181 V182 V183
## OTU   354  356  357  363  367  369  370  374  385  393  404  406  408  409  414
## T7_2   8     1    8    3    1    1    3    4    10   1    2    2    1    1    1
##      V184 V185 V186 V187 V188 V189 V190 V191 V192 V193 V194 V195 V196 V197 V198
## OTU   415  416  418  422  423  436  437  438  440  443  448  452  454  457  458
## T7_2   1     4    2    2    1    5    10   4    4    2    1    3    1    3    6
##      V199 V200 V201 V202 V203 V204 V205 V206 V207 V208 V209 V210 V211 V212 V213
## OTU   463  465  466  468  477  480  481  484  487  490  491  503  504  505  511
## T7_2   1     1    3    2    1    1    2    4    3    21   1    6    1    3    2
##      V214 V215 V216 V217 V218 V219 V220 V221 V222 V223 V224 V225 V226 V227 V228
## OTU   512  513  522  524  528  536  538  542  544  547  549  553  554  556  558
## T7_2   1     2    2    4    1    9    1    4    4    7    2    2    3    7    6
##      V229 V230 V231 V232 V233 V234 V235 V236 V237 V238 V239 V240 V241 V242 V243
## OTU   560  562  564  568  571  574  575  576  578  586  587  588  589  590  591
## T7_2   3     3    1    2    1    1    2    4    16   6    1    2    1    4    1
##      V244 V245 V246 V247 V248 V249 V250 V251 V252 V253 V254 V255 V256 V257 V258
## OTU   599  603  604  611  617  619  620  622  624  631  633  637  641  642  644
## T7_2   2     2    10   2    2    5    1    1    3    2    3    5    5    5    1    3
##      V259 V260 V261 V262 V263 V264 V265 V266 V267 V268 V269 V270 V271 V272 V273
## OTU   647  648  651  654  658  659  664  667  671  673  680  686  688  693  697
## T7_2   2     3    4    2    1    3    1    4    1    5    1    1    2    1    6
##      V274 V275 V276 V277 V278 V279 V280 V281 V282 V283 V284 V285 V286 V287 V288
## OTU   700  702  705  707  708  709  717  719  721  723  731  733  734  737  738
## T7_2   1     2    2    1    3    5    3    4    1    2    4    2    1    1    3
##      V289 V290 V291 V292 V293 V294 V295 V296 V297 V298 V299 V300 V301 V302 V303
## OTU   739  743  744  745  754  757  758  761  765  771  772  787  788  789  794
## T7_2   1     1    1    1    2    3    1    2    1    1    2    1    1    1    4
##      V304 V305 V306 V307 V308 V309 V310 V311 V312 V313 V314 V315 V316 V317 V318
## OTU   800  806  813  814  819  822  824  826  829  832  837  839  840  849  853
## T7_2   3     1    3    1    5    3    1    5    1    2    4    1    1    3    3
##      V319 V320 V321 V322 V323 V324 V325 V326 V327 V328 V329 V330 V331 V332 V333
## OTU   854  857  860  867  868  869  874  876  881  885  886  888  890  893  894
## T7_2   1     1    1    2    1    3    5    5    2    3    5    1    1    3    1
##      V334 V335 V336 V337 V338 V339 V340 V341 V342 V343 V344 V345 V346 V347 V348
## OTU   896  897  898  902  904  909  910  911  914  916  917  918  939  942  952
## T7_2   1     2    1    1    3    1    2    2    1    4    1    6    2    1    2
##      V349 V350 V351 V352 V353 V354 V355 V356 V357 V358 V359 V360 V361 V362 V363
## OTU   954  961  962  965  966  973  986  988  993  995  997  1001 1002 1006 1008
## T7_2   4     6    1    6    1    4    1    1    7    2    1    3    6    1    2
##      V364 V365 V366 V367 V368 V369 V370 V371 V372 V373 V374 V375 V376 V377 V378
## OTU   1020 1021 1025 1028 1029 1034 1037 1041 1051 1054 1057 1058 1070 1071 1077
## T7_2   1     1    2    1    1    3    2    1    2    2    1    2    1    1    1
##      V379 V380 V381 V382 V383 V384 V385 V386 V387 V388 V389 V390 V391 V392 V393
## OTU   1082 1086 1090 1096 1097 1101 1104 1108 1123 1125 1131 1134 1137 1140 1144
## T7_2   2     1    1    1    6    2    2    1    1    1    2    3    1    1    4
##      V394 V395 V396 V397 V398 V399 V400 V401 V402 V403 V404 V405 V406 V407 V408
## OTU   1145 1149 1158 1159 1162 1166 1169 1170 1172 1174 1177 1179 1185 1188 1193

```

```

## T7_2      1      1      1      1      1      2      1      1      1      1      2      1      3      1      1      2
##      V409 V410 V411 V412 V413 V414 V415 V416 V417 V418 V419 V420 V421 V422 V423
## OTU    1195 1200 1215 1217 1230 1232 1235 1241 1242 1243 1252 1255 1259 1269 1272
## T7_2      3      3      1      1      1      4      1      1      1      2      2      1      1      1      1      4      1
##      V424 V425 V426 V427 V428 V429 V430 V431 V432 V433 V434 V435 V436 V437 V438
## OTU    1274 1279 1280 1284 1285 1287 1288 1291 1294 1296 1297 1317 1325 1332 1335
## T7_2      1      2      2      2      1      2      1      1      1      1      2      1      1      2      1      1      3
##      V439 V440 V441 V442 V443 V444 V445 V446 V447 V448 V449 V450 V451 V452 V453
## OTU    1340 1344 1348 1350 1351 1353 1355 1360 1361 1365 1370 1371 1374 1375 1377
## T7_2      3      1      5      2      2      2      3      3      3      1      4      2      3      2      4      1
##      V454 V455 V456 V457 V458 V459 V460 V461 V462 V463 V464 V465 V466 V467 V468
## OTU    1385 1388 1393 1395 1398 1401 1411 1412 1414 1429 1440 1441 1445 1449 1451
## T7_2      7      1      1      4      1      2      4      3      4      1      4      1      4      1      4      2      4
##      V469 V470 V471 V472 V473 V474 V475 V476 V477 V478 V479 V480 V481 V482 V483
## OTU    1456 1459 1464 1467 1469 1471 1472 1476 1481 1484 1485 1489 1494 1495 1501
## T7_2      1     14      1      1      3      1      1      1      1      5      1      4      1      4      1
##      V484 V485 V486 V487 V488 V489 V490 V491 V492 V493 V494 V495 V496 V497 V498
## OTU    1506 1516 1517 1519 1522 1529 1536 1543 1552 1555 1559 1561 1571 1573 1577
## T7_2      1     3      1      1      3      2      4      4      2      1      2      5      3      2      4
##      V499 V500 V501 V502 V503 V504 V505 V506 V507 V508 V509 V510 V511 V512 V513
## OTU    1592 1604 1605 1609 1623 1632 1641 1647 1663 1670 1673 1674 1676 1701 1711
## T7_2      4     1      1      1      2      3      1      1      1      2      1      3      2      2      1      4
##      V514 V515 V516 V517 V518 V519 V520 V521 V522 V523 V524 V525 V526 V527 V528
## OTU    1725 1726 1727 1732 1733 1734 1741 1760 1765 1766 1770 1774 1781 1792 1803
## T7_2      6     3      2      1      3      2      1      2      2      2      1      3      1      2      2      2
##      V529 V530 V531 V532 V533 V534 V535 V536 V537 V538 V539 V540 V541 V542 V543
## OTU    1807 1815 1820 1825 1830 1844 1863 1864 1865 1871 1879 1885 1888 1891 1900
## T7_2      4     4      1      1      1      1      2      3      2      1      2      1      2      2      2      3
##      V544 V545 V546 V547 V548 V549 V550 V551 V552 V553 V554 V555 V556 V557 V558
## OTU    1904 1914 1916 1925 1928 1944 1946 1947 1950 1956 1957 1959 1973 1974 2006
## T7_2      3     1      1      1      1      3      2      2      2      2      3      2      3      3      3      2
##      V559 V560 V561 V562 V563 V564 V565 V566 V567 V568 V569 V570 V571 V572 V573
## OTU    2008 2013 2020 2023 2027 2028 2033 2034 2036 2037 2046 2051 2053 2055 2057
## T7_2      2     1      3      2      3      1      1      1      1      1      1      3      1      1      1      1      1
##      V574 V575 V576 V577 V578 V579 V580 V581 V582 V583 V584 V585 V586 V587 V588
## OTU    2060 2064 2080 2085 2093 2095 2099 2101 2103 2104 2112 2116 2123 2130 2137
## T7_2      1     1      1      6      1      2      2      3      1      3      1      1      1      1      1      3
##      V589 V590 V591 V592 V593 V594 V595 V596 V597 V598 V599 V600 V601 V602 V603
## OTU    2148 2164 2169 2196 2201 2205 2216 2222 2224 2245 2253 2266 2271 2302 2309
## T7_2      3     1      2      2      2      1      2      1      1      1      1      1      1      1      3      1
##      V604 V605 V606 V607 V608 V609 V610 V611 V612 V613 V614 V615 V616 V617 V618
## OTU    2342 2354 2360 2368 2377 2384 2386 2397 2421 2446 2455 2462 2467 2471 2478
## T7_2      1     3      3      1      3      1      1      3      1      1      1      2      1      2      1      2
##      V619 V620 V621 V622 V623 V624 V625 V626 V627 V628 V629 V630 V631 V632 V633
## OTU    2479 2499 2501 2504 2523 2537 2541 2544 2546 2550 2569 2588 2590 2609 2620
## T7_2      2     1      2      2      1      1      1      2      1      2      2      2      2      2      1      1
##      V634 V635 V636 V637 V638 V639 V640 V641 V642 V643 V644 V645 V646 V647 V648
## OTU    2625 2630 2635 2643 2653 2664 2674 2682 2691 2698 2702 2731 2739 2760 2767
## T7_2      1     1      2      2      2      2      2      1      2      1      2      1      1      1      1      2
##      V649 V650 V651 V652 V653 V654 V655 V656 V657 V658 V659 V660 V661 V662 V663
## OTU    2779 2784 2785 2787 2796 2798 2809 2812 2822 2823 2855 2858 2879 2897 2899
## T7_2      2     2      2      1      2      1      1      1      1      1      1      2      1      2      2      1
##      V664 V665 V666 V667 V668 V669 V670 V671 V672 V673 V674 V675 V676 V677 V678
## OTU    2900 2921 2947 2950 2963 2966 2985 2986 3001 3020 3038 3045 3049 3054 3077

```

```

## T7_2      1      1      2      2      1      2      2      2      3      2      2      2      1      1      1      3      1      1
##          V679  V680  V681  V682  V683  V684  V685  V686  V687  V688  V689  V690  V691  V692  V693
## OTU      3087  3092  3093  3096  3097  3125  3130  3175  3180  3184  3189  3190  3192  3193  3204
## T7_2      2      1      2      1      1      2      2      2      2      1      1      1      2      2      2      2      3      2
##          V694  V695  V696  V697  V698  V699  V700  V701  V702  V703  V704  V705  V706  V707  V708
## OTU      3206  3207  3211  3216  3224  3228  3247  3249  3276  3279  3281  3285  3289  3319  3324
## T7_2      2      3      2      2      2      1      2      2      2      1      2      2      2      1      1      4      1
##          V709  V710  V711  V712  V713  V714  V715  V716  V717  V718  V719  V720  V721  V722  V723
## OTU      3326  3331  3342  3347  3351  3356  3360  3372  3380  3409  3410  3443  3452  3480  3501
## T7_2      2      2      3      3      1      1      3      1      1      1      1      1      2      2      2      3      2
##          V724  V725  V726  V727  V728  V729  V730  V731  V732  V733  V734  V735  V736  V737  V738
## OTU      3508  3533  3540  3556  3569  3581  3606  3622  3642  3643  3645  3685  3704  3739  3762
## T7_2      2      2      1      1      2      1      1      1      1      2      2      2      2      2      2      1      3
##          V739  V740  V741  V742  V743  V744  V745  V746  V747  V748  V749  V750  V751  V752  V753
## OTU      3765  3766  3777  3788  3791  3810  3811  3821  3845  3849  3864  3874  3876  3880  3882
## T7_2      1      1      1      1      1      3      2      1      1      1      2      2      2      3      1      2      1
##          V754  V755  V756  V757  V758  V759  V760  V761  V762  V763  V764  V765  V766  V767  V768
## OTU      3919  3923  3925  3952  3957  3969  3970  3973  3983  3987  3999  4001  4021  4028  4029
## T7_2      1      2      2      1      2      1      1      2      1      1      1      1      1      1      2      1
##          V769  V770  V771  V772  V773  V774  V775  V776  V777  V778  V779  V780  V781  V782  V783
## OTU      4046  4059  4065  4077  4097  4115  4124  4131  4136  4139  4140  4141  4158  4168  4176
## T7_2      1      1      2      2      1      2      2      1      2      1      5      1      1      2      1      1      2
##          V784  V785  V786  V787  V788  V789  V790  V791  V792  V793  V794  V795  V796  V797  V798
## OTU      4180  4209  4218  4223  4227  4248  4257  4260  4265  4275  4287  4305  4307  4319  4345
## T7_2      1      1      2      1      2      2      1      1      1      2      1      1      1      2      1      1      1
##          V799  V800  V801  V802  V803  V804  V805  V806  V807  V808  V809  V810  V811  V812  V813
## OTU      4368  4384  4426  4449  4450  4462  4467  4478  4489  4509  4569  4611  4621  4631  4637
## T7_2      3      2      2      1      1      1      3      1      1      1      1      1      1      1      1      1      1
##          V814  V815  V816  V817  V818  V819  V820  V821  V822  V823  V824  V825  V826  V827  V828
## OTU      4641  4658  4716  4725  4728  4731  4735  4742  4751  4811  4864  4866  4869  4883  4891
## T7_2      1      1      1      1      1      2      1      1      1      1      1      1      1      1      1      1      1
##          V829  V830  V831  V832  V833  V834  V835  V836  V837  V838  V839  V840  V841  V842  V843
## OTU      4892  4896  4898  4923  4946  4968  4999  5027  5033  5034  5047  5051  5073  5085  5109
## T7_2      2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##          V844  V845  V846  V847  V848  V849  V850  V851  V852  V853  V854  V855  V856  V857  V858
## OTU      5128  5155  5174  5228  5231  5243  5244  5265  5266  5269  5274  5297  5303  5322  5373
## T7_2      2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##          V859  V860  V861  V862  V863  V864  V865  V866  V867  V868  V869  V870  V871  V872  V873
## OTU      5403  5413  5467  5509  5513  5538  5543  5557  5566  5594  5601  5610  5617  5625  5627
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##          V874  V875  V876  V877  V878  V879  V880  V881  V882  V883  V884  V885  V886  V887  V888
## OTU      5644  5701  5717  5718  5730  5741  5747  5754  5759  5841  5845  5871  5881  5891  5898
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##          V889  V890  V891  V892  V893  V894  V895  V896  V897  V898  V899  V900  V901  V902  V903
## OTU      5903  5905  5910  5916  5918  5933  5953  5956  5959  5975  6037  6043  6049  6085  6099
## T7_2      3      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##          V904  V905  V906  V907  V908  V909  V910  V911  V912  V913  V914  V915  V916  V917  V918
## OTU      6103  6107  6143  6148  6151  6152  6154  6200  6214  6216  6253  6272  6276  6366  6392
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      2      1
##          V919  V920  V921  V922  V923  V924  V925  V926  V927  V928  V929  V930  V931  V932  V933
## OTU      6404  6411  6417  6460  6464  6466  6479  6483  6489  6498  6514  6535  6536  6539  6552
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##          V934  V935  V936  V937  V938  V939  V940  V941  V942  V943  V944  V945  V946  V947  V948
## OTU      6573  6583  6594  6600  6604  6607  6615  6617  6629  6633  6644  6681  6682  6697  6715

```



```

## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V1175 V1176 V1177 V1178 V1179 V1180 V1181 V1182 V1183 V1184 V1185 V1186
## OTU 10382 10412 10438 10439 10452 10472 10484 10489 10501 10527 10535 10550
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V1187 V1188 V1189 V1190 V1191 V1192 V1193 V1194 V1195 V1196 V1197 V1198
## OTU 10567 10606 10647 10651 10679 10688 10726 10744 10761 10764 10765 10771
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V1199 V1200 V1201 V1202 V1203 V1204 V1205 V1206 V1207 V1208 V1209 V1210
## OTU 10776 10782 10792 10811 10814 10837 10857 10864 10870 10873 10883 10885
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V1211 V1212 V1213 V1214 V1215 V1216 V1217 V1218 V1219 V1220 V1221 V1222
## OTU 10918 10944 10952 10958 10970 10982 10990 10999 11024 11084 11098 11126
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V1223 V1224 V1225 V1226 V1227 V1228 V1229 V1230 V1231 V1232 V1233 V1234
## OTU 11127 11134 11145 11151 11163 11173 11178 11191 11205 11214 11221 11224
## T7_2      2      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V1235 V1236 V1237 V1238 V1239 V1240 V1241 V1242 V1243 V1244 V1245 V1246
## OTU 11226 11239 11243 11249 11278 11280 11287 11293 11313 11316 11334 11340
## T7_2      1      1      1      1      1      1      1      2      1      1      1      1      1      1
##      V1247 V1248 V1249 V1250 V1251 V1252 V1253 V1254 V1255 V1256 V1257 V1258
## OTU 11353 11365 11409 11411 11413 11420 11456 11457 11474 11493 11498 11521
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      2
##      V1259 V1260 V1261 V1262 V1263 V1264 V1265 V1266 V1267 V1268 V1269 V1270
## OTU 11524 11532 11558 11567 11591 11622 11643 11664 11666 11708 11753 11758
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V1271 V1272 V1273 V1274 V1275 V1276 V1277 V1278 V1279 V1280 V1281 V1282
## OTU 11759 11779 11789 11804 11806 11808 11830 11845 11847 11852 11878 11911
## T7_2      2      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V1283 V1284 V1285 V1286 V1287 V1288 V1289 V1290 V1291 V1292 V1293 V1294
## OTU 11971 11986 11992 12005 12060 12103 12110 12131 12158 12181 12200 12203
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V1295 V1296 V1297 V1298 V1299 V1300 V1301 V1302 V1303 V1304 V1305 V1306
## OTU 12207 12216 12227 12230 12244 12290 12291 12295 12313 12315 12329 12340
## T7_2      1      1      1      1      1      1      1      1      1      1      2      1      1
##      V1307 V1308 V1309 V1310 V1311 V1312 V1313 V1314 V1315 V1316 V1317 V1318
## OTU 12355 12373 12387 12390 12400 12420 12445 12458 12462 12465 12472 12476
## T7_2      1      1      2      1      1      1      1      1      1      1      1      1      1
##      V1319 V1320 V1321 V1322 V1323 V1324 V1325 V1326 V1327 V1328 V1329 V1330
## OTU 12478 12479 12484 12511 12523 12531 12535 12548 12561 12579 12580 12589
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V1331 V1332 V1333 V1334 V1335 V1336 V1337 V1338 V1339 V1340 V1341 V1342
## OTU 12611 12619 12663 12687 12743 12769 12776 12802 12803 12804 12817 12832
## T7_2      1      1      1      1      1      1      1      2      3      1      1      1
##      V1343 V1344 V1345 V1346 V1347 V1348 V1349 V1350 V1351 V1352 V1353 V1354
## OTU 12833 12847 12850 12851 12856 12858 12859 12860 12865 12868 12869 12870
## T7_2      1      1      1      1      2      1      1      1      1      1      1      1      1
##      V1355 V1356 V1357 V1358 V1359 V1360 V1361 V1362 V1363 V1364 V1365 V1366
## OTU 12874 12880 12891 12894 12897 12905 12912 12916 12924 12945 12950 12975
## T7_2      1      2      1      1      1      1      1      1      2      1      1      1
##      V1367 V1368 V1369 V1370 V1371 V1372 V1373 V1374 V1375 V1376 V1377 V1378
## OTU 12997 13002 13028 13042 13043 13046 13063 13066 13069 13073 13074 13075
## T7_2      1      1      1      2      1      1      1      2      1      1      1      1      1
##      V1379 V1380 V1381 V1382 V1383 V1384 V1385 V1386 V1387 V1388 V1389 V1390
## OTU 13129 13131 13133 13134 13137 13141 13142 13143 13153 13155 13169 13199

```

```

## T7_2      1      1      1      1      2      1      1      1      1      1      1      2      1      1      1
## V1391 V1392 V1393 V1394 V1395 V1396 V1397 V1398 V1399 V1400 V1401 V1402
## OTU 13207 13214 13215 13216 13239 13252 13253 13257 13265 13267 13277 13288
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
## V1403 V1404 V1405 V1406
## OTU 13289 13291 13295 13296
## T7_2      1      1      1      1

#richness

S.obs(t_bac)

##      total V1  V2  V3  V4  V5  V6  V7  V8  V9  V10 V11 V12 V13 V14 V15 V16 V17 V18 V19
## OTU 1406  1  2  3  4  5  6  7  9 11 13 14 15 16 17 18 19 20 21 22
## T7_2 1406 65  1  3 120 17 55  4 15  1 50  7  6 18  2 42 14 56 12 53
## V20  V21 V22 V23 V24 V25 V26 V27 V28 V29 V30 V31 V32 V33 V34 V35 V36 V37
## OTU 24  25 28 30 31 33 34 35 38 42 44 45 47 48 50 51 52 53
## T7_2 6   1   4  1  2 17  9 52  2 17  2 10  6 54  2  1  3  7
## V38  V39 V40 V41 V42 V43 V44 V45 V46 V47 V48 V49 V50 V51 V52 V53 V54 V55
## OTU 55  56 57 58 61 62 63 64 67 70 71 74 77 78 80 82 84 85
## T7_2 1   5 51  5  8  4  2  6 15 19  8  5 13 19  2  7  9  4
## V56  V57 V58 V59 V60 V61 V62 V63 V64 V65 V66 V67 V68 V69 V70 V71 V72 V73
## OTU 90  95 98 100 101 103 104 106 111 116 117 118 119 120 121 125 126 127
## T7_2 9   5  2  4  6  3  2  1  3  1 15 21 11  3  6  2  6
## V74  V75 V76 V77 V78 V79 V80 V81 V82 V83 V84 V85 V86 V87 V88 V89 V90 V91
## OTU 129 135 136 137 138 140 145 147 148 150 153 154 159 161 167 171 172 174
## T7_2 8   1   1  5  2  3  1  4  5  2  2  2  3  5  3  3  1  2
## V92  V93 V94 V95 V96 V97 V98 V99 V100 V101 V102 V103 V104 V105 V106 V107
## OTU 175 176 178 179 180 185 186 187 190 191 198 199 202 203 204 207
## T7_2 1   12  6  1  2  1  4  2  8  2  1  3  1  1  1  1  9
## V108 V109 V110 V111 V112 V113 V114 V115 V116 V117 V118 V119 V120 V121 V122
## OTU 208 209 212 214 216 221 224 225 226 227 228 230 232 236 239
## T7_2 1   2   5  3  1 10  2  3  4  2  6  2  3  1  5
## V123 V124 V125 V126 V127 V128 V129 V130 V131 V132 V133 V134 V135 V136 V137
## OTU 242 247 249 252 253 254 255 257 259 260 262 265 266 267 268
## T7_2 4   10  6  2  5  3  6  5  2  3  5  6  8  4  4
## V138 V139 V140 V141 V142 V143 V144 V145 V146 V147 V148 V149 V150 V151 V152
## OTU 270 271 273 274 279 281 286 296 298 299 300 302 307 309 310
## T7_2 1   2   1  3  1  2  2  7  7  2  1  2  1  2  4
## V153 V154 V155 V156 V157 V158 V159 V160 V161 V162 V163 V164 V165 V166 V167
## OTU 311 312 313 319 322 326 331 332 333 335 336 340 341 344 348
## T7_2 9   5   6  3  2 16  9  2  3  2  6  1  4  4  3
## V168 V169 V170 V171 V172 V173 V174 V175 V176 V177 V178 V179 V180 V181 V182
## OTU 351 354 356 357 363 367 369 370 374 385 393 404 406 408 409
## T7_2 1   8   1  8  3  1  1  3  4 10  1  2  2  1  1
## V183 V184 V185 V186 V187 V188 V189 V190 V191 V192 V193 V194 V195 V196 V197
## OTU 414 415 416 418 422 423 436 437 438 440 443 448 452 454 457
## T7_2 1   1   4  2  2  1  5  10  4  4  2  1  3  1  3
## V198 V199 V200 V201 V202 V203 V204 V205 V206 V207 V208 V209 V210 V211 V212
## OTU 458 463 465 466 468 477 480 481 484 487 490 491 503 504 505
## T7_2 6   1   1  3  2  1  1  2  4  3  21  1  6  1  3
## V213 V214 V215 V216 V217 V218 V219 V220 V221 V222 V223 V224 V225 V226 V227
## OTU 511 512 513 522 524 528 536 538 542 544 547 549 553 554 556
## T7_2 2   1   2  2  4  1  9  1  4  4  7  2  2  3  7

```

```

##      V228 V229 V230 V231 V232 V233 V234 V235 V236 V237 V238 V239 V240 V241 V242
## OTU   558  560  562  564  568  571  574  575  576  578  586  587  588  589  590
## T7_2    6    3    3    1    2    1    1    2    4    16    6    1    2    1    1    4
##      V243 V244 V245 V246 V247 V248 V249 V250 V251 V252 V253 V254 V255 V256 V257
## OTU   591  599  603  604  611  617  619  620  622  624  631  633  637  641  642
## T7_2    1    2    2   10    2    2    5    1    1    3    2    3    5    5    5    1
##      V258 V259 V260 V261 V262 V263 V264 V265 V266 V267 V268 V269 V270 V271 V272
## OTU   644  647  648  651  654  658  659  664  667  671  673  680  686  688  693
## T7_2    3    2    3    4    2    1    3    1    4    1    5    1    1    2    1
##      V273 V274 V275 V276 V277 V278 V279 V280 V281 V282 V283 V284 V285 V286 V287
## OTU   697  700  702  705  707  708  709  717  719  721  723  731  733  734  737
## T7_2    6    1    2    2    1    3    5    3    4    1    2    4    2    1    1
##      V288 V289 V290 V291 V292 V293 V294 V295 V296 V297 V298 V299 V300 V301 V302
## OTU   738  739  743  744  745  754  757  758  761  765  771  772  787  788  789
## T7_2    3    1    1    1    2    3    1    2    1    1    2    1    1    1    1
##      V303 V304 V305 V306 V307 V308 V309 V310 V311 V312 V313 V314 V315 V316 V317
## OTU   794  800  806  813  814  819  822  824  826  829  832  837  839  840  849
## T7_2    4    3    1    3    1    5    3    1    5    1    2    4    1    1    3
##      V318 V319 V320 V321 V322 V323 V324 V325 V326 V327 V328 V329 V330 V331 V332
## OTU   853  854  857  860  867  868  869  874  876  881  885  886  888  890  893
## T7_2    3    1    1    1    2    1    3    5    5    2    3    5    1    1    3
##      V333 V334 V335 V336 V337 V338 V339 V340 V341 V342 V343 V344 V345 V346 V347
## OTU   894  896  897  898  902  904  909  910  911  914  916  917  918  939  942
## T7_2    1    1    2    1    1    3    1    2    2    1    4    1    6    2    1
##      V348 V349 V350 V351 V352 V353 V354 V355 V356 V357 V358 V359 V360 V361 V362
## OTU   952  954  961  962  965  966  973  986  988  993  995  997  1001 1002 1006
## T7_2    2    4    6    1    6    1    4    1    1    7    2    1    3    6    1
##      V363 V364 V365 V366 V367 V368 V369 V370 V371 V372 V373 V374 V375 V376 V377
## OTU   1008 1020 1021 1025 1028 1029 1034 1037 1041 1051 1054 1057 1058 1070 1071
## T7_2    2    1    1    2    1    1    3    2    1    2    2    1    2    1    1
##      V378 V379 V380 V381 V382 V383 V384 V385 V386 V387 V388 V389 V390 V391 V392
## OTU   1077 1082 1086 1090 1096 1097 1101 1104 1108 1123 1125 1131 1134 1137 1140
## T7_2    1    2    1    1    1    6    2    2    1    1    1    2    3    1    1
##      V393 V394 V395 V396 V397 V398 V399 V400 V401 V402 V403 V404 V405 V406 V407
## OTU   1144 1145 1149 1158 1159 1162 1166 1169 1170 1172 1174 1177 1179 1185 1188
## T7_2    4    1    1    1    1    1    2    1    1    1    2    1    3    1    1
##      V408 V409 V410 V411 V412 V413 V414 V415 V416 V417 V418 V419 V420 V421 V422
## OTU   1193 1195 1200 1215 1217 1230 1232 1235 1241 1242 1243 1252 1255 1259 1269
## T7_2    2    3    3    1    1    1    4    1    1    2    2    1    1    1    4
##      V423 V424 V425 V426 V427 V428 V429 V430 V431 V432 V433 V434 V435 V436 V437
## OTU   1272 1274 1279 1280 1284 1285 1287 1288 1291 1294 1296 1297 1317 1325 1332
## T7_2    1    1    2    2    1    2    1    1    1    1    2    1    1    2    1
##      V438 V439 V440 V441 V442 V443 V444 V445 V446 V447 V448 V449 V450 V451 V452
## OTU   1335 1340 1344 1348 1350 1351 1353 1355 1360 1361 1365 1370 1371 1374 1375
## T7_2    3    3    1    5    2    2    2    3    3    3    1    4    2    3    2    4
##      V453 V454 V455 V456 V457 V458 V459 V460 V461 V462 V463 V464 V465 V466 V467
## OTU   1377 1385 1388 1393 1395 1398 1401 1411 1412 1414 1429 1440 1441 1445 1449
## T7_2    1    7    1    1    4    1    2    4    3    4    1    4    1    4    2
##      V468 V469 V470 V471 V472 V473 V474 V475 V476 V477 V478 V479 V480 V481 V482
## OTU   1451 1456 1459 1464 1467 1469 1471 1472 1476 1481 1484 1485 1489 1494 1495
## T7_2    4    1    14   1    1    1    3    1    1    1    5    1    4    1    4
##      V483 V484 V485 V486 V487 V488 V489 V490 V491 V492 V493 V494 V495 V496 V497
## OTU   1501 1506 1516 1517 1519 1522 1529 1536 1543 1552 1555 1559 1561 1571 1573
## T7_2    3    1    3    1    1    3    2    2    4    4    2    1    2    5    3    2

```

```

##      V498 V499 V500 V501 V502 V503 V504 V505 V506 V507 V508 V509 V510 V511 V512
## OTU  1577 1592 1604 1605 1609 1623 1632 1641 1647 1663 1670 1673 1674 1676 1701
## T7_2   4    4    1    1    1    2    3    1    1    2    1    3    2    2    2    1
##      V513 V514 V515 V516 V517 V518 V519 V520 V521 V522 V523 V524 V525 V526 V527
## OTU  1711 1725 1726 1727 1732 1733 1734 1741 1760 1765 1766 1770 1774 1781 1792
## T7_2   4    6    3    2    1    3    2    1    2    2    2    1    3    1    1    2
##      V528 V529 V530 V531 V532 V533 V534 V535 V536 V537 V538 V539 V540 V541 V542
## OTU  1803 1807 1815 1820 1825 1830 1844 1863 1864 1865 1871 1879 1885 1888 1891
## T7_2   2    4    4    1    1    1    1    2    3    2    1    2    1    2    1    2
##      V543 V544 V545 V546 V547 V548 V549 V550 V551 V552 V553 V554 V555 V556 V557
## OTU  1900 1904 1914 1916 1925 1928 1944 1946 1947 1950 1956 1957 1959 1973 1974
## T7_2   3    3    1    1    1    1    3    2    2    2    2    3    2    3    3    3
##      V558 V559 V560 V561 V562 V563 V564 V565 V566 V567 V568 V569 V570 V571 V572
## OTU  2006 2008 2013 2020 2023 2027 2028 2033 2034 2036 2037 2046 2051 2053 2055
## T7_2   2    2    1    3    2    3    1    1    1    1    1    3    1    1    1    1
##      V573 V574 V575 V576 V577 V578 V579 V580 V581 V582 V583 V584 V585 V586 V587
## OTU  2057 2060 2064 2080 2085 2093 2095 2099 2101 2103 2104 2112 2116 2123 2130
## T7_2   1    1    1    1    6    1    2    2    2    3    1    1    3    1    1    1
##      V588 V589 V590 V591 V592 V593 V594 V595 V596 V597 V598 V599 V600 V601 V602
## OTU  2137 2148 2164 2169 2196 2201 2205 2216 2222 2224 2245 2253 2266 2271 2302
## T7_2   3    3    1    2    2    2    2    1    2    1    1    1    1    1    1    3
##      V603 V604 V605 V606 V607 V608 V609 V610 V611 V612 V613 V614 V615 V616 V617
## OTU  2309 2342 2354 2360 2368 2377 2384 2386 2397 2421 2446 2455 2462 2467 2471
## T7_2   1    1    3    3    1    3    1    1    1    3    1    1    1    2    1    2
##      V618 V619 V620 V621 V622 V623 V624 V625 V626 V627 V628 V629 V630 V631 V632
## OTU  2478 2479 2499 2501 2504 2523 2537 2541 2544 2546 2550 2559 2588 2590 2609
## T7_2   2    2    1    2    2    1    1    1    2    1    2    1    2    2    2    1
##      V633 V634 V635 V636 V637 V638 V639 V640 V641 V642 V643 V644 V645 V646 V647
## OTU  2620 2625 2630 2635 2643 2653 2664 2674 2682 2691 2698 2702 2731 2739 2760
## T7_2   1    1    1    2    2    2    2    2    2    1    2    1    2    1    1    1
##      V648 V649 V650 V651 V652 V653 V654 V655 V656 V657 V658 V659 V660 V661 V662
## OTU  2767 2779 2784 2785 2787 2796 2798 2809 2812 2822 2823 2855 2858 2879 2897
## T7_2   2    2    2    2    1    2    1    1    1    1    1    1    2    1    2    2
##      V663 V664 V665 V666 V667 V668 V669 V670 V671 V672 V673 V674 V675 V676 V677
## OTU  2899 2900 2921 2947 2950 2963 2966 2985 2986 3001 3020 3038 3045 3049 3054
## T7_2   1    1    1    2    2    1    2    2    2    3    2    2    2    1    1    3    1
##      V678 V679 V680 V681 V682 V683 V684 V685 V686 V687 V688 V689 V690 V691 V692
## OTU  3077 3087 3092 3093 3096 3097 3125 3130 3175 3180 3184 3189 3190 3192 3193
## T7_2   1    2    1    2    1    1    2    2    2    2    1    1    2    2    2    2    3
##      V693 V694 V695 V696 V697 V698 V699 V700 V701 V702 V703 V704 V705 V706 V707
## OTU  3204 3206 3207 3211 3216 3224 3228 3247 3249 3276 3279 3281 3285 3289 3319
## T7_2   2    2    3    2    2    2    1    2    2    2    1    2    2    2    1    1    4
##      V708 V709 V710 V711 V712 V713 V714 V715 V716 V717 V718 V719 V720 V721 V722
## OTU  3324 3326 3331 3342 3347 3351 3356 3360 3372 3380 3409 3410 3443 3452 3480
## T7_2   1    2    2    3    3    1    1    3    1    1    1    1    1    2    2    2    3
##      V723 V724 V725 V726 V727 V728 V729 V730 V731 V732 V733 V734 V735 V736 V737
## OTU  3501 3508 3533 3540 3556 3569 3581 3606 3622 3642 3643 3645 3685 3704 3739
## T7_2   2    2    2    1    1    2    1    1    1    1    2    2    2    2    2    2    1
##      V738 V739 V740 V741 V742 V743 V744 V745 V746 V747 V748 V749 V750 V751 V752
## OTU  3762 3765 3766 3777 3788 3791 3810 3811 3821 3845 3849 3864 3874 3876 3880
## T7_2   3    1    1    1    1    1    3    2    1    1    1    2    2    2    3    1    2
##      V753 V754 V755 V756 V757 V758 V759 V760 V761 V762 V763 V764 V765 V766 V767
## OTU  3882 3919 3923 3925 3952 3957 3969 3970 3973 3983 3987 3999 4001 4021 4028
## T7_2   1    1    2    2    1    2    1    1    1    2    1    1    1    1    1    1    2

```

```

##      V768 V769 V770 V771 V772 V773 V774 V775 V776 V777 V778 V779 V780 V781 V782
## OTU  4029 4046 4059 4065 4077 4097 4115 4124 4131 4136 4139 4140 4141 4158 4168
## T7_2   1   1   1   2   2   1   2   2   2   1   2   1   5   1   2   1
##      V783 V784 V785 V786 V787 V788 V789 V790 V791 V792 V793 V794 V795 V796 V797
## OTU  4176 4180 4209 4218 4223 4227 4248 4257 4260 4265 4275 4287 4305 4307 4319
## T7_2   2   1   1   2   1   2   2   1   1   2   1   1   1   2   1   1
##      V798 V799 V800 V801 V802 V803 V804 V805 V806 V807 V808 V809 V810 V811 V812
## OTU  4345 4368 4384 4426 4449 4450 4462 4467 4478 4489 4509 4569 4611 4621 4631
## T7_2   1   3   2   2   1   1   1   3   1   1   1   1   1   1   1   1
##      V813 V814 V815 V816 V817 V818 V819 V820 V821 V822 V823 V824 V825 V826 V827
## OTU  4637 4641 4658 4716 4725 4728 4731 4735 4742 4751 4811 4864 4866 4869 4883
## T7_2   1   1   1   1   1   1   2   1   1   1   1   1   1   1   1   1
##      V828 V829 V830 V831 V832 V833 V834 V835 V836 V837 V838 V839 V840 V841 V842
## OTU  4891 4892 4896 4898 4923 4946 4968 4999 5027 5033 5034 5047 5051 5073 5085
## T7_2   1   2   1   1   1   1   1   1   1   1   1   1   1   1   1   1
##      V843 V844 V845 V846 V847 V848 V849 V850 V851 V852 V853 V854 V855 V856 V857
## OTU  5109 5128 5155 5174 5228 5231 5243 5244 5265 5266 5269 5274 5297 5303 5322
## T7_2   1   2   1   1   1   1   1   1   1   1   1   1   1   1   1   1
##      V858 V859 V860 V861 V862 V863 V864 V865 V866 V867 V868 V869 V870 V871 V872
## OTU  5373 5403 5413 5467 5509 5513 5538 5543 5557 5566 5594 5601 5610 5617 5625
## T7_2   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
##      V873 V874 V875 V876 V877 V878 V879 V880 V881 V882 V883 V884 V885 V886 V887
## OTU  5627 5644 5701 5717 5718 5730 5741 5747 5754 5759 5841 5845 5871 5881 5891
## T7_2   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
##      V888 V889 V890 V891 V892 V893 V894 V895 V896 V897 V898 V899 V900 V901 V902
## OTU  5898 5903 5905 5910 5916 5918 5933 5953 5956 5959 5975 6037 6043 6049 6085
## T7_2   1   3   1   1   1   1   1   1   1   1   1   1   1   1   1   1
##      V903 V904 V905 V906 V907 V908 V909 V910 V911 V912 V913 V914 V915 V916 V917
## OTU  6099 6103 6107 6143 6148 6151 6152 6154 6200 6214 6216 6253 6272 6276 6366
## T7_2   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   2
##      V918 V919 V920 V921 V922 V923 V924 V925 V926 V927 V928 V929 V930 V931 V932
## OTU  6392 6404 6411 6417 6460 6464 6466 6479 6483 6489 6498 6514 6535 6536 6539
## T7_2   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
##      V933 V934 V935 V936 V937 V938 V939 V940 V941 V942 V943 V944 V945 V946 V947
## OTU  6552 6573 6583 6594 6600 6604 6607 6615 6617 6629 6633 6644 6681 6682 6697
## T7_2   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
##      V948 V949 V950 V951 V952 V953 V954 V955 V956 V957 V958 V959 V960 V961 V962
## OTU  6715 6734 6747 6749 6772 6775 6780 6781 6787 6792 6794 6814 6826 6853 6867
## T7_2   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
##      V963 V964 V965 V966 V967 V968 V969 V970 V971 V972 V973 V974 V975 V976 V977
## OTU  6887 6908 6914 6930 6972 6973 6990 7003 7004 7023 7049 7054 7077 7156 7159
## T7_2   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
##      V978 V979 V980 V981 V982 V983 V984 V985 V986 V987 V988 V989 V990 V991 V992
## OTU  7167 7234 7242 7252 7258 7288 7294 7307 7344 7355 7356 7403 7441 7471 7480
## T7_2   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
##      V993 V994 V995 V996 V997 V998 V999 V1000 V1001 V1002 V1003 V1004 V1005
## OTU  7498 7528 7537 7582 7609 7617 7626 7628 7635 7653 7654 7656 7695
## T7_2   1   1   1   1   1   2   1   1   1   1   1   1   1   1   1   1
##      V1006 V1007 V1008 V1009 V1010 V1011 V1012 V1013 V1014 V1015 V1016 V1017
## OTU  7702 7707 7715 7735 7736 7754 7755 7813 7817 7819 7839 7840
## T7_2   1   1   1   1   1   1   2   1   1   1   1   1   1   1   1   1
##      V1018 V1019 V1020 V1021 V1022 V1023 V1024 V1025 V1026 V1027 V1028 V1029
## OTU  7841 7856 7882 7885 7895 7941 7942 7943 7949 7984 7990 8009
## T7_2   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1

```

```

##      V1030 V1031 V1032 V1033 V1034 V1035 V1036 V1037 V1038 V1039 V1040 V1041
## OTU    8012  8020  8026  8121  8122  8146  8155  8226  8236  8246  8257  8282
## T7_2    1     1     1     1     1     1     1     1     1     1     1     1     1
##      V1042 V1043 V1044 V1045 V1046 V1047 V1048 V1049 V1050 V1051 V1052 V1053
## OTU    8324  8331  8332  8337  8354  8369  8389  8404  8448  8455  8497  8503
## T7_2    1     1     1     1     2     1     1     1     1     1     1     1     1
##      V1054 V1055 V1056 V1057 V1058 V1059 V1060 V1061 V1062 V1063 V1064 V1065
## OTU    8512  8535  8566  8568  8601  8609  8629  8653  8672  8674  8684  8696
## T7_2    1     1     1     2     1     1     1     1     1     1     1     1     1
##      V1066 V1067 V1068 V1069 V1070 V1071 V1072 V1073 V1074 V1075 V1076 V1077
## OTU    8718  8756  8765  8774  8798  8801  8823  8838  8873  8874  8876  8878
## T7_2    1     1     1     1     1     1     1     1     1     1     1     1     1
##      V1078 V1079 V1080 V1081 V1082 V1083 V1084 V1085 V1086 V1087 V1088 V1089
## OTU    8879  8887  8889  8953  9003  9013  9051  9061  9062  9064  9085  9087
## T7_2    1     1     1     1     1     1     3     1     1     1     1     1     1
##      V1090 V1091 V1092 V1093 V1094 V1095 V1096 V1097 V1098 V1099 V1100 V1101
## OTU    9111  9113  9116  9122  9123  9172  9182  9186  9188  9204  9221  9227
## T7_2    1     1     1     1     2     1     1     1     1     1     1     2     1
##      V1102 V1103 V1104 V1105 V1106 V1107 V1108 V1109 V1110 V1111 V1112 V1113
## OTU    9302  9367  9373  9436  9527  9547  9556  9567  9579  9588  9597  9600
## T7_2    1     1     1     1     1     1     1     1     1     1     1     1     1
##      V1114 V1115 V1116 V1117 V1118 V1119 V1120 V1121 V1122 V1123 V1124 V1125
## OTU    9607  9614  9642  9652  9665  9675  9692  9719  9733  9747  9750  9784
## T7_2    1     1     1     1     1     1     1     1     1     1     1     1     1
##      V1126 V1127 V1128 V1129 V1130 V1131 V1132 V1133 V1134 V1135 V1136 V1137
## OTU    9810  9826  9839  9938  9944  9958  9969  9970  9980  9993  10014  10040
## T7_2    1     1     1     1     1     1     1     1     1     1     1     1     1
##      V1138 V1139 V1140 V1141 V1142 V1143 V1144 V1145 V1146 V1147 V1148 V1149
## OTU    10048 10052 10062 10064 10078 10079 10086 10091 10097 10108 10110 10120
## T7_2    1     1     1     1     1     1     1     1     1     1     1     1     1
##      V1150 V1151 V1152 V1153 V1154 V1155 V1156 V1157 V1158 V1159 V1160 V1161
## OTU    10123 10125 10134 10166 10182 10183 10194 10215 10216 10220 10222 10223
## T7_2    1     1     1     1     1     1     1     1     1     1     1     1     1
##      V1162 V1163 V1164 V1165 V1166 V1167 V1168 V1169 V1170 V1171 V1172 V1173
## OTU    10233 10262 10266 10267 10294 10302 10303 10306 10309 10314 10320 10366
## T7_2    2     1     1     1     1     1     1     1     1     1     1     1     1
##      V1174 V1175 V1176 V1177 V1178 V1179 V1180 V1181 V1182 V1183 V1184 V1185
## OTU    10375 10382 10412 10438 10439 10452 10472 10484 10489 10501 10527 10535
## T7_2    1     1     1     1     1     1     1     1     1     1     1     1     1
##      V1186 V1187 V1188 V1189 V1190 V1191 V1192 V1193 V1194 V1195 V1196 V1197
## OTU    10550 10567 10606 10647 10651 10679 10688 10726 10744 10761 10764 10765
## T7_2    1     1     1     1     1     1     1     1     1     1     1     1     1
##      V1198 V1199 V1200 V1201 V1202 V1203 V1204 V1205 V1206 V1207 V1208 V1209
## OTU    10771 10776 10782 10792 10811 10814 10837 10857 10864 10870 10873 10883
## T7_2    1     1     1     1     1     1     1     1     1     1     1     1     1
##      V1210 V1211 V1212 V1213 V1214 V1215 V1216 V1217 V1218 V1219 V1220 V1221
## OTU    10885 10918 10944 10952 10958 10970 10982 10990 10999 11024 11084 11098
## T7_2    1     1     1     1     1     1     1     1     1     1     1     1     1
##      V1222 V1223 V1224 V1225 V1226 V1227 V1228 V1229 V1230 V1231 V1232 V1233
## OTU    11126 11127 11134 11145 11151 11163 11173 11178 11191 11205 11214 11221
## T7_2    1     2     1     1     1     1     1     1     1     1     1     1     1
##      V1234 V1235 V1236 V1237 V1238 V1239 V1240 V1241 V1242 V1243 V1244 V1245
## OTU    11224 11226 11239 11243 11249 11278 11280 11287 11293 11313 11316 11334
## T7_2    1     1     1     1     1     1     1     1     2     1     1     1     1

```

```

##      V1246 V1247 V1248 V1249 V1250 V1251 V1252 V1253 V1254 V1255 V1256 V1257
## OTU  11340 11353 11365 11409 11411 11413 11420 11456 11457 11474 11493 11498
## T7_2   1     1     1     1     1     1     1     1     1     1     1     1     1
##      V1258 V1259 V1260 V1261 V1262 V1263 V1264 V1265 V1266 V1267 V1268 V1269
## OTU  11521 11524 11532 11558 11567 11591 11622 11643 11664 11666 11708 11753
## T7_2   2     1     1     1     1     1     1     1     1     1     1     1     1
##      V1270 V1271 V1272 V1273 V1274 V1275 V1276 V1277 V1278 V1279 V1280 V1281
## OTU  11758 11759 11779 11789 11804 11806 11808 11830 11845 11847 11852 11878
## T7_2   1     2     1     1     1     1     1     1     1     1     1     1     1
##      V1282 V1283 V1284 V1285 V1286 V1287 V1288 V1289 V1290 V1291 V1292 V1293
## OTU  11911 11971 11986 11992 12005 12060 12103 12110 12131 12158 12181 12200
## T7_2   1     1     1     1     1     1     1     1     1     1     1     1     1
##      V1294 V1295 V1296 V1297 V1298 V1299 V1300 V1301 V1302 V1303 V1304 V1305
## OTU  12203 12207 12216 12227 12230 12244 12290 12291 12295 12313 12315 12329
## T7_2   1     1     1     1     1     1     1     1     1     1     1     2     1
##      V1306 V1307 V1308 V1309 V1310 V1311 V1312 V1313 V1314 V1315 V1316 V1317
## OTU  12340 12355 12373 12387 12390 12400 12420 12445 12458 12462 12465 12472
## T7_2   1     1     1     2     1     1     1     1     1     1     1     1     1
##      V1318 V1319 V1320 V1321 V1322 V1323 V1324 V1325 V1326 V1327 V1328 V1329
## OTU  12476 12478 12479 12484 12511 12523 12531 12535 12548 12561 12579 12580
## T7_2   1     1     1     1     1     1     1     1     1     1     1     1     1
##      V1330 V1331 V1332 V1333 V1334 V1335 V1336 V1337 V1338 V1339 V1340 V1341
## OTU  12589 12611 12619 12663 12687 12743 12769 12776 12802 12803 12804 12817
## T7_2   1     1     1     1     1     1     1     1     1     2     3     1     1
##      V1342 V1343 V1344 V1345 V1346 V1347 V1348 V1349 V1350 V1351 V1352 V1353
## OTU  12832 12833 12847 12850 12851 12856 12858 12859 12860 12865 12868 12869
## T7_2   1     1     1     1     1     2     1     1     1     1     1     1     1
##      V1354 V1355 V1356 V1357 V1358 V1359 V1360 V1361 V1362 V1363 V1364 V1365
## OTU  12870 12874 12880 12891 12894 12897 12905 12912 12916 12924 12945 12950
## T7_2   1     1     2     1     1     1     1     1     1     1     1     2     1
##      V1366 V1367 V1368 V1369 V1370 V1371 V1372 V1373 V1374 V1375 V1376 V1377
## OTU  12975 12997 13002 13028 13042 13043 13046 13063 13066 13069 13073 13074
## T7_2   1     1     1     1     2     1     1     1     2     1     1     1     1
##      V1378 V1379 V1380 V1381 V1382 V1383 V1384 V1385 V1386 V1387 V1388 V1389
## OTU  13075 13129 13131 13133 13134 13137 13141 13142 13143 13153 13155 13169
## T7_2   1     1     1     1     1     2     1     1     1     1     1     2     1
##      V1390 V1391 V1392 V1393 V1394 V1395 V1396 V1397 V1398 V1399 V1400 V1401
## OTU  13199 13207 13214 13215 13216 13239 13252 13253 13257 13265 13267 13277
## T7_2   1     1     1     1     1     1     1     1     1     1     1     1     1
##      V1402 V1403 V1404 V1405 V1406
## OTU  13288 13289 13291 13295 13296
## T7_2   1     1     1     1     1

```

```
specnumber(t_bac)
```

```
##  OTU T7_2
## 1406 1406
```

```
#species number is 1406
```

```
#coverage
```

```

bac_coverage<-C(t_bac)
bac_coverage

##          OTU      T7_2
## 0.9999999 0.7342490

mic_coverage<-C(t_mic)
mic_coverage

##          OTU      T1_1      T1_2      T1_3      T7_1      T7_2      T7_3      DF_1
## 1.0000000 0.6479471 0.6676558 0.6735097 0.6706855 0.7342490 0.7812613 0.6406384
##          DF_2      CF_1      CF_2      CF_3
## 0.7779733 0.8211009 0.6621102 0.7539062

```

Question 3: Answer the following questions about the soil bacterial dataset.

- How many sequences did we recover from the sample `soilbac1`, i.e. N ?
- What is the observed richness of `soilbac1`?
- How does coverage compare between the BCI sample (`site1`) and the KBS sample (`soilbac1`)?

Answer 3a: 12210- the number of rows? **Answer 3b:** The observed richness of soil bac1 is 13310 **Answer 3c:** In comparison to BCI we that there is greater variation in the coverage. Suggesting lower site specificity by communities. #### Richness estimators

In the R code chunk below, do the following:

- Write a function to calculate **Chao1**,
- Write a function to calculate **Chao2**,
- Write a function to calculate **ACE**, and
- Use these functions to estimate richness at `site1` and `soilbac1`.

```

#chao 1 estimator
S.chao1<-function (x){
  S.chao1<- S.obs(x)+(sum(x==1)^2)/(2*sum(x==2))
}

#chao 2 estimator
S.chao2 <- function(site , SbyS){
  SbyS <- as.data.frame(SbyS)
  x <- SbyS[site, ]
  SbyS.pa <- (SbyS > 0) * 1 # convert the SbyS to presence/absence
  Q1 <- sum(colSums(SbyS.pa) == 1) # species observed once
  Q2 <- sum(colSums(SbyS.pa) == 2) # species observed twice
  S.chao2 <- S.obs(x) + (Q1^2) / (2 * Q2)
  return(S.chao2)
}

#ace

```

```

S.ace <- function(x , thresh = 10){
  x <- x[x > 0]
  S.abund <- length(which(x > thresh)) # excludes zero-abundance taxa
  S.rare <- length(which(x <= thresh)) # richness of abundant taxa
  singlt <- length(which(x == 1)) # richness of rare taxa
  N.rare <- sum(x[which(x <= thresh)]) # number of singleton taxa
  C.ace <- 1 - (singlt / N.rare) # abundance of rare individuals
  i <- c(1:thresh) # coverage (prop non-singlt rare inds)
  count <- function(i, y){
    length(y[y == i]) # counter to go through range
  }
  f.i <- sapply(i, count, x) # number of individuals in richness i
  g.f.i <- (i * (i - 1)) * x # h(k(k-1))k sensu Gotelli
  S.ace <- S.rare / C.ace * (sum(f.i) / (N.rare * (N.rare - 1)))
  S.ace <- S.abund + S.rare / C.ace + (singlt / C.ace) * max(S.ace, 0)
  return(S.ace)
}


```

```

#site 1 at BCI
v<-S.chao1(BCI[,])
v

```

```

##      total Abarema.macradenia Vachellia.melanoceras Acalypha.diversifolia
## 1 119.6944        26.69444        26.69444        26.69444
##   Acalypha.macrostachya Adelia.triloba Aegiphila.panamensis
## 1           26.69444        26.69444        26.69444
##   Alchornea.costaricensis Alchornea.latifolia Alibertia.edulis
## 1           28.69444        26.69444        26.69444
##   Allophylus.psilospermus Alseis.blackiana Amaioua.corymbosa
## 1           26.69444        51.69444        26.69444
##   Anacardium.excelsum Andira.inermis Annona.spraguei Apeiba.glabra
## 1           26.69444        26.69444        27.69444        39.69444
##   Apeiba.tibourbou Aspidosperma.desmanthum Astrocaryum.standleyanum
## 1           28.69444        26.69444        26.69444
##   Astronium.graveolens Attalea.butyracea Banara.guianensis
## 1           32.69444        26.69444        26.69444
##   Beilschmiedia.pendula Brosimum.alicastrum Brosimum.guanense
## 1           30.69444        31.69444        26.69444
##   Calophyllum.longifolium Casearia.aculeata Casearia.arborea
## 1           26.69444        26.69444        27.69444
##   Casearia.commerciana Casearia.guianensis Casearia.sylvestris
## 1           26.69444        26.69444        28.69444
##   Cassipourea.guianensis Cavanillesia.platanifolia Cecropia.insignis
## 1           28.69444        26.69444        38.69444
##   Cecropia.obtusifolia Cedrela.odorata Ceiba.pentandra Celtis.schippiei
## 1           26.69444        26.69444        26.69444        26.69444
##   Cespedesia.spathulata Chamguava.schippii Chimarrhis.parviflora
## 1           26.69444        26.69444        26.69444
##   Maclura.tinctoria Chrysochlamys.eclipes Chrysophyllum.argenteum
## 1           26.69444        26.69444        30.69444
##   Chrysophyllum.cainito Coccoloba.coronata Coccoloba.manzinellensis

```

```

## 1           26.69444          26.69444          26.69444
## Colubrina.glandulosa Cordia.alliodora Cordia.bicolor Cordia.lasiocalyx
## 1           26.69444          28.69444          38.69444          34.69444
## Coussarea.curvigemma Croton.billbergianus Cupania.cinerea Cupania.latifolia
## 1           26.69444          28.69444          26.69444          26.69444
## Cupania.rufescens Cupania.seemannii Dendropanax.arboresus Desmopsis.panamensis
## 1           26.69444          28.69444          26.69444          26.69444
## Diospyros.artanthifolia Dipteryx.oleifera Drypetes.standleyi Elaeis.oleifera
## 1           27.69444          27.69444          28.69444          26.69444
## Enterolobium.schomburgkii Erythrina.costaricensis Erythroxylum.macrophyllum
## 1           26.69444          26.69444          26.69444
## Eugenia.florida Eugenia.galalonensis Eugenia.nesiotica Eugenia.oerstediana
## 1           26.69444          26.69444          26.69444          29.69444
## Faramea.occidentalis Ficus.colubrinae Ficus.costaricana Ficus.insipida
## 1           40.69444          26.69444          26.69444          26.69444
## Ficus.maxima Ficus.obtusifolia Ficus.popenoei Ficus.tonduzii Ficus.trigonata
## 1           27.69444          26.69444          26.69444          26.69444
## Ficus.yoponensis Garcinia.intermedia Garcinia.madruno Genipa.americana
## 1           27.69444          26.69444          30.69444          26.69444
## Guapira.myrtiflora Guarea.fuzzy Guarea.grandifolia Guarea.guidonia
## 1           29.69444          27.69444          26.69444          28.69444
## Guatteria.dumetorum Guazuma.ulmifolia Guettarda.foliacea Gustavia.superba
## 1           32.69444          26.69444          27.69444          36.69444
## Hampea.appendiculata Hasseltia.floribunda Heisteria.acuminata
## 1           26.69444          31.69444          26.69444
## Heisteria.concinna Hirtella.americana Hirtella.triandra Hura.crepitans
## 1           30.69444          26.69444          47.69444          26.69444
## Hieronyma.alchorneoides Inga.acuminata Inga.cocleensis Inga.goldmanii
## 1           26.69444          26.69444          28.69444          26.69444
## Inga.laurina Inga.semialata Inga.nobilis Inga.oerstediana Inga.pezizifera
## 1           26.69444          26.69444          26.69444          26.69444
## Inga.punctata Inga.ruiziana Inga.sapindoides Inga.spectabilis
## 1           29.69444          26.69444          28.69444          26.69444
## Inga.umbellifera Jacaranda.coparia Lacistema.aggregatum Lacistema.panamensis
## 1           26.69444          32.69444          27.69444          27.69444
## Laetia.procera Laetia.thamnia Lafoensia.punicifolia Licania.hypoleuca
## 1           26.69444          26.69444          26.69444          26.69444
## Licania.platypus Lindackeria.laurina Lonchocarpus.heptaphyllus
## 1           26.69444          26.69444          33.69444
## Luehea.seemannii Macrocnemum.roseum Maquira.guianensis.costaricana
## 1           27.69444          26.69444          30.69444
## Margaritaria.nobilis Marila.laxiflora Maytenus.schippiae Miconia.affinis
## 1           26.69444          27.69444          28.69444          26.69444
## Miconia.argentea Miconia.elata Miconia.hondurensis Mosannona.garwoodii
## 1           28.69444          26.69444          26.69444          27.69444
## Myrcia.gatunensis Myrsinaceae.frutescens Nectandra.cissiflora
## 1           27.69444          26.69444          26.69444
## Nectandra.lineata Nectandra.purpurea Ochroma.pyramidalis Ocotea.cernua
## 1           26.69444          27.69444          27.69444          26.69444
## Ocotea.oblonga Ocotea.puberula Ocotea.whitei Oenocarpus.mapora
## 1           26.69444          26.69444          27.69444          48.69444
## Ormosia.amazonica Ormosia.coccinea Ormosia.macrocalyx Pachira.quinata
## 1           26.69444          26.69444          26.69444          26.69444
## Pachira.sessilis Perebea.xanthochyma Cinnamomum.tripinnerve

```

```

## 1      26.69444      26.69444      26.69444
## Picramnia.latifolia Piper.reticulatum Platymiscium.pinnatum
## 1      26.69444      26.69444      29.69444
## Platypodium.elegans Posoqueria.latifolia Poulsenia.armata Pourouma.bicolor
## 1      28.69444      26.69444      50.69444      31.69444
## Pouteria.fossicola Pouteria.reticulata Pouteria.stipitata Prioria.copaifera
## 1      26.69444      31.69444      26.69444      39.69444
## Protium.costaricense Protium.panamense Protium.tenuifolium
## 1      31.69444      28.69444      37.69444
## Pseudobombax.septenatum Psidium.friedrichsthalianum Psychotria.grandis
## 1      26.69444      26.69444      26.69444
## Pterocarpus.rohrii Quararibea.asterolepis Quassia.amara Randia.armata
## 1      27.69444      37.69444      26.69444      29.69444
## Sapium.broadleaf Sapium.glandulosum Schizolobium.parahyba Senna.dariensis
## 1      26.69444      26.69444      26.69444      26.69444
## Simarouba.amara Siparuna.guianensis Siparuna.pauciflora Sloanea.terniflora
## 1      40.69444      29.69444      26.69444      27.69444
## Socratea.exorrhiza Solanum.hayesii Sorocea.affinis Spachea.membranacea
## 1      41.69444      26.69444      27.69444      26.69444
## Spondias.mombin Spondias.radikoferi Sterculia.apetala
## 1      27.69444      28.69444      27.69444
## Swartzia.simplex.var.grandiflora Swartzia.simplex.continentalis
## 1      29.69444      27.69444
## Symphonia.globulifera Handroanthus.guayanac Tabebuia.rosea
## 1      26.69444      27.69444      27.69444
## Tabernaemontana.arborea Tachigali.versicolor Talisia.nervosa Talisia.princeps
## 1      35.69444      32.69444      26.69444      27.69444
## Terminalia.amazonia Terminalia.oblonga Tetragastris.panamensis
## 1      27.69444      26.69444      31.69444
## Tetrathylacium.johansenii Theobroma.cacao Thevetia.ahouai Tocoyena.pittieri
## 1      26.69444      27.69444      26.69444      26.69444
## Trattinnickia.aspera Trema.micrantha Trichanthera.gigantea Trichilia.pallida
## 1      29.69444      26.69444      26.69444      26.69444
## Trichilia.tuberculata Trichospermum.galeottii Triplaris.cumingiana
## 1      44.69444      26.69444      26.69444
## Trophis.caucana Trophis.racemosa Turpinia.occidentalis Unonopsis.pittieri
## 1      28.69444      27.69444      26.69444      27.69444
## Virola.multiflora Virola.sebifera Virola.surinamensis Vismia.baccifera
## 1      26.69444      43.69444      30.69444      26.69444
## Vochysia.ferruginea Xylopia.macrantha Zanthoxylum.ekmanii
## 1      26.69444      27.69444      29.69444
## Zanthoxylum.juniperinum Zanthoxylum.panamense Zanthoxylum.setulosum
## 1      26.69444      28.69444      26.69444
## Zuelania.guidonia
## 1      26.69444

```

```
S.chao2(1, BCI )  #S.chao 1 output
```

```

##      total Abarema.macradenia Vachellia.melanoceras Acalypha.diversifolia
## 1 104.6053      11.60526      11.60526      11.60526
## Acalypha.macrostachya Adelia.triloba Aegiphila.panamensis
## 1      11.60526      11.60526      11.60526
## Alchornea.costaricensis Alchornea.latifolia Alibertia.edulis
## 1      13.60526      11.60526      11.60526

```

```

##  Allophylus.psilospermus Alseis.blackiana Amaioua.corymbosa
## 1           11.60526      36.60526      11.60526
##  Anacardium.excelsum Andira.inermis Annona.spraguei Apeiba.glabra
## 1           11.60526      11.60526     12.60526     24.60526
##  Apeiba.tibourbou Aspidosperma.desmanthum Astrocaryum.standleyanum
## 1           13.60526      11.60526      11.60526
##  Astronium.graveolens Attalea.butyracea Banara.guianensis
## 1           17.60526      11.60526      11.60526
##  Beilschmiedia.pendula Brosimum.alicastrum Brosimum.guianense
## 1           15.60526      16.60526      11.60526
##  Calophyllum.longifolium Casearia.aculeata Casearia.arborea
## 1           11.60526      11.60526     12.60526
##  Casearia.commersoniana Casearia.guianensis Casearia.sylvestris
## 1           11.60526      11.60526     13.60526
##  Cassipourea.guianensis Cavanillesia.platanifolia Cecropia.insignis
## 1           13.60526      11.60526     23.60526
##  Cecropia.obtusifolia Cedrela.odorata Ceiba.pentandra Celtis.schippii
## 1           11.60526      11.60526      11.60526     11.60526
##  Cespedesia.spathulata Changuava.schippii Chimarrhis.parviflora
## 1           11.60526      11.60526      11.60526
##  Maclura.tinctoria Chrysophyllum.eclipes Chrysophyllum.argenteum
## 1           11.60526      11.60526      15.60526
##  Chrysophyllum.cainito Coccoloba.coronata Coccoloba.manzinellensis
## 1           11.60526      11.60526      11.60526
##  Colubrina.glandulosa Cordia.alliodora Cordia.bicolor Cordia.lasiocalyx
## 1           11.60526      13.60526     23.60526     19.60526
##  Coussarea.curvigemma Croton.billbergianus Cupania.cinerea Cupania.latifolia
## 1           11.60526      13.60526      11.60526     11.60526
##  Cupania.rufescens Cupania.seemannii Dendropanax.arboreus Desmopsis.panamensis
## 1           11.60526      13.60526      11.60526     11.60526
##  Diospyros.artanthifolia Dipteryx.oleifera Drypetes.standleyi Elaeis.oleifera
## 1           12.60526      12.60526      13.60526     11.60526
##  Enterolobium.schomburgkii Erythrina.costaricensis Erythroxylum.macrophyllum
## 1           11.60526      11.60526      11.60526
##  Eugenia.florida Eugenia.galalonensis Eugenia.nesiatica Eugenia.oerstediana
## 1           11.60526      11.60526      11.60526     14.60526
##  Faramea.occidentalis Ficus.colubrinae Ficus.costaricana Ficus.insipida
## 1           25.60526      11.60526      11.60526     11.60526
##  Ficus.maxima Ficus.obtusifolia Ficus.popenoei Ficus.tonduzii Ficus.trigonata
## 1           12.60526      11.60526      11.60526     11.60526
##  Ficus.yoponensis Garcinia.intermedia Garcinia.madruno Genipa.americana
## 1           12.60526      11.60526     15.60526     11.60526
##  Guapira.myrtiflora Guarea.fuzzy Guarea.grandifolia Guarea.guidonia
## 1           14.60526      12.60526     11.60526     13.60526
##  Guatteria.dumetorum Guazuma.ulmifolia Guettarda.foliacea Gustavia.superba
## 1           17.60526      11.60526     12.60526     21.60526
##  Hampea.appendiculata Hasseltia.floribunda Heisteria.acuminata
## 1           11.60526      16.60526      11.60526
##  Heisteria.concinna Hirtella.americana Hirtella.triandra Hura.crepitans
## 1           15.60526      11.60526     32.60526     11.60526
##  Hieronyma.alchorneoides Inga.acuminata Inga.cocleensis Inga.goldmanii
## 1           11.60526      11.60526     13.60526     11.60526
##  Inga.laurina Inga.semialata Inga.nobilis Inga.oerstediana Inga.pezizifera
## 1           11.60526      11.60526     11.60526     11.60526

```

```

##  Inga.punctata Inga.ruiziana Inga.sapindoides Inga.spectabilis
## 1    14.60526    11.60526    13.60526    11.60526
##  Inga.umbellifera Jacaranda.copaia Lacistema.aggregatum Lacmellea.panamensis
## 1    11.60526    17.60526    12.60526    12.60526
##  Laetia.procera Laetia.thamnia Lafoensia.punicifolia Licania.hypoleuca
## 1    11.60526    11.60526    11.60526    11.60526
##  Licania.platypus Lindackeria.laurina Lonchocarpus.heptaphyllus
## 1    11.60526    11.60526    18.60526
##  Luehea.seemannii Macrocnemum.roseum Maquira.guianensis.costaricana
## 1    12.60526    11.60526    15.60526
##  Margaritaria.nobilis Marila.laxiflora Maytenus.schippiei Miconia.affinis
## 1    11.60526    12.60526    13.60526    11.60526
##  Miconia.argentea Miconia.elata Miconia.hondurensis Mosannona.garwoodii
## 1    13.60526    11.60526    11.60526    12.60526
##  Myrcia.gatunensis Myrospermum.frutescens Nectandra.cissiflora
## 1    12.60526    11.60526    11.60526
##  Nectandra.lineata Nectandra.purpurea Ochroma.pyramidalis Ocotea.cernua
## 1    11.60526    12.60526    12.60526    11.60526
##  Ocotea.oblonga Ocotea.puberula Ocotea.whitei Oenocarpus.mapora
## 1    11.60526    11.60526    12.60526    33.60526
##  Ormosia.amazonica Ormosia.coccinea Ormosia.macrocalyx Pachira.quinata
## 1    11.60526    11.60526    11.60526    11.60526
##  Pachira.sessilis Perebea.xanthochyma Cinnamomum.triplinerve
## 1    11.60526    11.60526    11.60526
##  Picramnia.latifolia Piper.reticulatum Platymiscium.pinnatum
## 1    11.60526    11.60526    14.60526
##  Platypodium.elegans Posoqueria.latifolia Poulsenia.armata Pourouma.bicolor
## 1    13.60526    11.60526    35.60526    16.60526
##  Pouteria.fossicola Pouteria.reticulata Pouteria.stipitata Prioria.copaifera
## 1    11.60526    16.60526    11.60526    24.60526
##  Protium.costaricense Protium.panamense Protium.tenuifolium
## 1    16.60526    13.60526    22.60526
##  Pseudobombax.septenatum Psidium.friedrichsthalianum Psychotria.grandis
## 1    11.60526    11.60526    11.60526
##  Pterocarpus.rohrii Quararibea.asterolepis Quassia.amara Randia.armata
## 1    12.60526    22.60526    11.60526    14.60526
##  Sapium.broadleaf Sapium.glandulosum Schizolobium.parahyba Senna.dariensis
## 1    11.60526    11.60526    11.60526    11.60526
##  Simarouba.amara Siparuna.guianensis Siparuna.pauciflora Sloanea.terniflora
## 1    25.60526    14.60526    11.60526    12.60526
##  Socratea.exorrhiza Solanum.hayesii Sorocea.affinis Spachea.membranacea
## 1    26.60526    11.60526    12.60526    11.60526
##  Spondias.mombin Spondias.radlkoferi Sterculia.apetala
## 1    12.60526    13.60526    12.60526
##  Swartzia.simplex.var.grandiflora Swartzia.simplex.continentalis
## 1    14.60526    12.60526
##  Symphonia.globulifera Handroanthus.guayanus Tabebuia.rosea
## 1    11.60526    12.60526    12.60526
##  Tabernaemontana.arborea Tachigali.versicolor Talisia.nervosa Talisia.princeps
## 1    20.60526    17.60526    11.60526    12.60526
##  Terminalia.amazonica Terminalia.oblonga Tetragastris.panamensis
## 1    12.60526    11.60526    16.60526
##  Tetrathylacium.johansenii Theobroma.cacao Thevetia.ahuai Tocoyena.pittieri
## 1    11.60526    12.60526    11.60526    11.60526

```

```

##   Trattinnickia.aspera Trema.micrantha Trichanthera.gigantea Trichilia.pallida
## 1          14.60526      11.60526          11.60526      11.60526
## Trichilia.tuberculata Trichospermum.galeottii Triplaris.cumingiana
## 1          29.60526          11.60526          11.60526
## Trophis.caucana Trophis.racemosa Turpinia.occidentalis Unionopsis.pittieri
## 1          13.60526      12.60526          11.60526      12.60526
## Virola.multiflora Virola.sebifera Virola.surinamensis Vismia.baccifera
## 1          11.60526      28.60526          15.60526      11.60526
## Vochysia.ferruginea Xylopia.macrantha Zanthoxylum.ekmanii
## 1          11.60526      12.60526          14.60526
## Zanthoxylum.juniperinum Zanthoxylum.panamense Zanthoxylum.setulosum
## 1          11.60526          13.60526      11.60526
## Zuelania.guidonia
## 1          11.60526

```

```
S.ace(mic)
```

```

## Warning in (i * (i - 1)) * x: longer object length is not a multiple of shorter
## object length

```

```
## [1] 42117.02
```

```
#bacteria
```

```

bac<-mic%>%
  filter(T7_2>=1)%>%
  select(OTU, T7_2)
bac

```

```

##          OTU T7_2
## 1          1   65
## 2          2    1
## 3          3    3
## 4          4  120
## 5          5   17
## 6          6   55
## 7          7    4
## 8          9   15
## 9         11    1
## 10        13   50
## 11        14    7
## 12        15    6
## 13        16   18
## 14        17    2
## 15        18   42
## 16        19   14
## 17        20   56
## 18        21   12
## 19        22   53
## 20        24    6
## 21        25    1
## 22        28    4
## 23        30    1

```

## 24	31	2
## 25	33	17
## 26	34	9
## 27	35	52
## 28	38	2
## 29	42	17
## 30	44	2
## 31	45	10
## 32	47	6
## 33	48	54
## 34	50	2
## 35	51	1
## 36	52	3
## 37	53	7
## 38	55	1
## 39	56	5
## 40	57	51
## 41	58	5
## 42	61	8
## 43	62	4
## 44	63	2
## 45	64	6
## 46	67	15
## 47	70	19
## 48	71	8
## 49	74	5
## 50	77	13
## 51	78	19
## 52	80	2
## 53	82	7
## 54	84	9
## 55	85	4
## 56	90	9
## 57	95	5
## 58	98	2
## 59	100	4
## 60	101	6
## 61	103	3
## 62	104	2
## 63	106	1
## 64	111	3
## 65	116	1
## 66	117	3
## 67	118	15
## 68	119	21
## 69	120	11
## 70	121	3
## 71	125	6
## 72	126	2
## 73	127	6
## 74	129	8
## 75	135	1
## 76	136	1
## 77	137	5

```
## 78      138    2
## 79      140    3
## 80      145    1
## 81      147    4
## 82      148    5
## 83      150    2
## 84      153    2
## 85      154    2
## 86      159    3
## 87      161    5
## 88      167    3
## 89      171    3
## 90      172    1
## 91      174    2
## 92      175    1
## 93      176   12
## 94      178    6
## 95      179    1
## 96      180    2
## 97      185    1
## 98      186    4
## 99      187    2
## 100     190    8
## 101     191    2
## 102     198    1
## 103     199    3
## 104     202    1
## 105     203    1
## 106     204    1
## 107     207    9
## 108     208    1
## 109     209    2
## 110     212    5
## 111     214    3
## 112     216    1
## 113     221   10
## 114     224    2
## 115     225    3
## 116     226    4
## 117     227    2
## 118     228    6
## 119     230    2
## 120     232    3
## 121     236    1
## 122     239    5
## 123     242    4
## 124     247   10
## 125     249    6
## 126     252    2
## 127     253    5
## 128     254    3
## 129     255    6
## 130     257    5
## 131     259    2
```

```
## 132    260    3
## 133    262    5
## 134    265    6
## 135    266    8
## 136    267    4
## 137    268    4
## 138    270    1
## 139    271    2
## 140    273    1
## 141    274    3
## 142    279    1
## 143    281    2
## 144    286    2
## 145    296    7
## 146    298    7
## 147    299    2
## 148    300    1
## 149    302    2
## 150    307    1
## 151    309    2
## 152    310    4
## 153    311    9
## 154    312    5
## 155    313    6
## 156    319    3
## 157    322    2
## 158    326    16
## 159    331    9
## 160    332    2
## 161    333    3
## 162    335    2
## 163    336    6
## 164    340    1
## 165    341    4
## 166    344    4
## 167    348    3
## 168    351    1
## 169    354    8
## 170    356    1
## 171    357    8
## 172    363    3
## 173    367    1
## 174    369    1
## 175    370    3
## 176    374    4
## 177    385    10
## 178    393    1
## 179    404    2
## 180    406    2
## 181    408    1
## 182    409    1
## 183    414    1
## 184    415    1
## 185    416    4
```

```
## 186    418    2
## 187    422    2
## 188    423    1
## 189    436    5
## 190    437   10
## 191    438    4
## 192    440    4
## 193    443    2
## 194    448    1
## 195    452    3
## 196    454    1
## 197    457    3
## 198    458    6
## 199    463    1
## 200    465    1
## 201    466    3
## 202    468    2
## 203    477    1
## 204    480    1
## 205    481    2
## 206    484    4
## 207    487    3
## 208    490   21
## 209    491    1
## 210    503    6
## 211    504    1
## 212    505    3
## 213    511    2
## 214    512    1
## 215    513    2
## 216    522    2
## 217    524    4
## 218    528    1
## 219    536    9
## 220    538    1
## 221    542    4
## 222    544    4
## 223    547    7
## 224    549    2
## 225    553    2
## 226    554    3
## 227    556    7
## 228    558    6
## 229    560    3
## 230    562    3
## 231    564    1
## 232    568    2
## 233    571    1
## 234    574    1
## 235    575    2
## 236    576    4
## 237    578   16
## 238    586    6
## 239    587    1
```

## 240	588	2
## 241	589	1
## 242	590	4
## 243	591	1
## 244	599	2
## 245	603	2
## 246	604	10
## 247	611	2
## 248	617	2
## 249	619	5
## 250	620	1
## 251	622	1
## 252	624	3
## 253	631	2
## 254	633	3
## 255	637	5
## 256	641	5
## 257	642	1
## 258	644	3
## 259	647	2
## 260	648	3
## 261	651	4
## 262	654	2
## 263	658	1
## 264	659	3
## 265	664	1
## 266	667	4
## 267	671	1
## 268	673	5
## 269	680	1
## 270	686	1
## 271	688	2
## 272	693	1
## 273	697	6
## 274	700	1
## 275	702	2
## 276	705	2
## 277	707	1
## 278	708	3
## 279	709	5
## 280	717	3
## 281	719	4
## 282	721	1
## 283	723	2
## 284	731	4
## 285	733	2
## 286	734	1
## 287	737	1
## 288	738	3
## 289	739	1
## 290	743	1
## 291	744	1
## 292	745	1
## 293	754	2

## 294	757	3
## 295	758	1
## 296	761	2
## 297	765	1
## 298	771	1
## 299	772	2
## 300	787	1
## 301	788	1
## 302	789	1
## 303	794	4
## 304	800	3
## 305	806	1
## 306	813	3
## 307	814	1
## 308	819	5
## 309	822	3
## 310	824	1
## 311	826	5
## 312	829	1
## 313	832	2
## 314	837	4
## 315	839	1
## 316	840	1
## 317	849	3
## 318	853	3
## 319	854	1
## 320	857	1
## 321	860	1
## 322	867	2
## 323	868	1
## 324	869	3
## 325	874	5
## 326	876	5
## 327	881	2
## 328	885	3
## 329	886	5
## 330	888	1
## 331	890	1
## 332	893	3
## 333	894	1
## 334	896	1
## 335	897	2
## 336	898	1
## 337	902	1
## 338	904	3
## 339	909	1
## 340	910	2
## 341	911	2
## 342	914	1
## 343	916	4
## 344	917	1
## 345	918	6
## 346	939	2
## 347	942	1

```
## 348    952    2
## 349    954    4
## 350    961    6
## 351    962    1
## 352    965    6
## 353    966    1
## 354    973    4
## 355    986    1
## 356    988    1
## 357    993    7
## 358    995    2
## 359    997    1
## 360   1001    3
## 361   1002    6
## 362   1006    1
## 363   1008    2
## 364   1020    1
## 365   1021    1
## 366   1025    2
## 367   1028    1
## 368   1029    1
## 369   1034    3
## 370   1037    2
## 371   1041    1
## 372   1051    2
## 373   1054    2
## 374   1057    1
## 375   1058    2
## 376   1070    1
## 377   1071    1
## 378   1077    1
## 379   1082    2
## 380   1086    1
## 381   1090    1
## 382   1096    1
## 383   1097    6
## 384   1101    2
## 385   1104    2
## 386   1108    1
## 387   1123    1
## 388   1125    1
## 389   1131    2
## 390   1134    3
## 391   1137    1
## 392   1140    1
## 393   1144    4
## 394   1145    1
## 395   1149    1
## 396   1158    1
## 397   1159    1
## 398   1162    1
## 399   1166    2
## 400   1169    1
## 401   1170    1
```

```
## 402 1172 1
## 403 1174 2
## 404 1177 1
## 405 1179 3
## 406 1185 1
## 407 1188 1
## 408 1193 2
## 409 1195 3
## 410 1200 3
## 411 1215 1
## 412 1217 1
## 413 1230 1
## 414 1232 4
## 415 1235 1
## 416 1241 1
## 417 1242 2
## 418 1243 2
## 419 1252 1
## 420 1255 1
## 421 1259 1
## 422 1269 4
## 423 1272 1
## 424 1274 1
## 425 1279 2
## 426 1280 2
## 427 1284 2
## 428 1285 1
## 429 1287 2
## 430 1288 1
## 431 1291 1
## 432 1294 1
## 433 1296 2
## 434 1297 1
## 435 1317 1
## 436 1325 2
## 437 1332 1
## 438 1335 3
## 439 1340 3
## 440 1344 1
## 441 1348 5
## 442 1350 2
## 443 1351 2
## 444 1353 2
## 445 1355 3
## 446 1360 3
## 447 1361 1
## 448 1365 4
## 449 1370 2
## 450 1371 3
## 451 1374 2
## 452 1375 4
## 453 1377 1
## 454 1385 7
## 455 1388 1
```

```
## 456 1393 1
## 457 1395 4
## 458 1398 1
## 459 1401 2
## 460 1411 4
## 461 1412 3
## 462 1414 4
## 463 1429 1
## 464 1440 4
## 465 1441 1
## 466 1445 4
## 467 1449 2
## 468 1451 4
## 469 1456 1
## 470 1459 14
## 471 1464 1
## 472 1467 1
## 473 1469 1
## 474 1471 3
## 475 1472 1
## 476 1476 1
## 477 1481 1
## 478 1484 5
## 479 1485 1
## 480 1489 4
## 481 1494 1
## 482 1495 4
## 483 1501 3
## 484 1506 1
## 485 1516 3
## 486 1517 1
## 487 1519 1
## 488 1522 3
## 489 1529 2
## 490 1536 4
## 491 1543 4
## 492 1552 2
## 493 1555 1
## 494 1559 2
## 495 1561 5
## 496 1571 3
## 497 1573 2
## 498 1577 4
## 499 1592 4
## 500 1604 1
## 501 1605 1
## 502 1609 1
## 503 1623 2
## 504 1632 3
## 505 1641 1
## 506 1647 1
## 507 1663 2
## 508 1670 1
## 509 1673 3
```

```
## 510 1674 2
## 511 1676 2
## 512 1701 1
## 513 1711 4
## 514 1725 6
## 515 1726 3
## 516 1727 2
## 517 1732 1
## 518 1733 3
## 519 1734 2
## 520 1741 1
## 521 1760 2
## 522 1765 2
## 523 1766 2
## 524 1770 1
## 525 1774 3
## 526 1781 1
## 527 1792 2
## 528 1803 2
## 529 1807 4
## 530 1815 4
## 531 1820 1
## 532 1825 1
## 533 1830 1
## 534 1844 1
## 535 1863 2
## 536 1864 3
## 537 1865 2
## 538 1871 1
## 539 1879 2
## 540 1885 1
## 541 1888 2
## 542 1891 2
## 543 1900 3
## 544 1904 3
## 545 1914 1
## 546 1916 1
## 547 1925 1
## 548 1928 1
## 549 1944 3
## 550 1946 2
## 551 1947 2
## 552 1950 2
## 553 1956 2
## 554 1957 3
## 555 1959 2
## 556 1973 3
## 557 1974 3
## 558 2006 2
## 559 2008 2
## 560 2013 1
## 561 2020 3
## 562 2023 2
## 563 2027 3
```

```
## 564 2028 1
## 565 2033 1
## 566 2034 1
## 567 2036 1
## 568 2037 1
## 569 2046 3
## 570 2051 1
## 571 2053 1
## 572 2055 1
## 573 2057 1
## 574 2060 1
## 575 2064 1
## 576 2080 1
## 577 2085 6
## 578 2093 1
## 579 2095 2
## 580 2099 2
## 581 2101 3
## 582 2103 1
## 583 2104 3
## 584 2112 1
## 585 2116 1
## 586 2123 1
## 587 2130 1
## 588 2137 3
## 589 2148 3
## 590 2164 1
## 591 2169 2
## 592 2196 2
## 593 2201 2
## 594 2205 2
## 595 2216 1
## 596 2222 2
## 597 2224 1
## 598 2245 1
## 599 2253 1
## 600 2266 1
## 601 2271 1
## 602 2302 3
## 603 2309 1
## 604 2342 1
## 605 2354 3
## 606 2360 3
## 607 2368 1
## 608 2377 3
## 609 2384 1
## 610 2386 1
## 611 2397 3
## 612 2421 1
## 613 2446 1
## 614 2455 2
## 615 2462 1
## 616 2467 2
## 617 2471 1
```

```
## 618 2478 2
## 619 2479 2
## 620 2499 1
## 621 2501 2
## 622 2504 2
## 623 2523 1
## 624 2537 1
## 625 2541 1
## 626 2544 2
## 627 2546 1
## 628 2550 2
## 629 2569 2
## 630 2588 2
## 631 2590 2
## 632 2609 1
## 633 2620 1
## 634 2625 1
## 635 2630 1
## 636 2635 2
## 637 2643 2
## 638 2653 2
## 639 2664 2
## 640 2674 2
## 641 2682 1
## 642 2691 2
## 643 2698 1
## 644 2702 2
## 645 2731 1
## 646 2739 1
## 647 2760 1
## 648 2767 2
## 649 2779 2
## 650 2784 2
## 651 2785 2
## 652 2787 1
## 653 2796 2
## 654 2798 1
## 655 2809 1
## 656 2812 1
## 657 2822 1
## 658 2823 1
## 659 2855 2
## 660 2858 1
## 661 2879 2
## 662 2897 2
## 663 2899 1
## 664 2900 1
## 665 2921 1
## 666 2947 2
## 667 2950 2
## 668 2963 1
## 669 2966 2
## 670 2985 2
## 671 2986 3
```

```
## 672 3001 2
## 673 3020 2
## 674 3038 1
## 675 3045 1
## 676 3049 3
## 677 3054 1
## 678 3077 1
## 679 3087 2
## 680 3092 1
## 681 3093 2
## 682 3096 1
## 683 3097 1
## 684 3125 2
## 685 3130 2
## 686 3175 2
## 687 3180 1
## 688 3184 1
## 689 3189 2
## 690 3190 2
## 691 3192 2
## 692 3193 3
## 693 3204 2
## 694 3206 2
## 695 3207 3
## 696 3211 2
## 697 3216 2
## 698 3224 2
## 699 3228 1
## 700 3247 2
## 701 3249 2
## 702 3276 1
## 703 3279 2
## 704 3281 2
## 705 3285 1
## 706 3289 1
## 707 3319 4
## 708 3324 1
## 709 3326 2
## 710 3331 2
## 711 3342 3
## 712 3347 3
## 713 3351 1
## 714 3356 1
## 715 3360 3
## 716 3372 1
## 717 3380 1
## 718 3409 1
## 719 3410 1
## 720 3443 2
## 721 3452 2
## 722 3480 3
## 723 3501 2
## 724 3508 2
## 725 3533 2
```

```
## 726 3540 1
## 727 3556 1
## 728 3569 2
## 729 3581 1
## 730 3606 1
## 731 3622 1
## 732 3642 2
## 733 3643 2
## 734 3645 2
## 735 3685 2
## 736 3704 2
## 737 3739 1
## 738 3762 3
## 739 3765 1
## 740 3766 1
## 741 3777 1
## 742 3788 1
## 743 3791 1
## 744 3810 3
## 745 3811 2
## 746 3821 1
## 747 3845 1
## 748 3849 2
## 749 3864 2
## 750 3874 3
## 751 3876 1
## 752 3880 2
## 753 3882 1
## 754 3919 1
## 755 3923 2
## 756 3925 2
## 757 3952 1
## 758 3957 2
## 759 3969 1
## 760 3970 1
## 761 3973 2
## 762 3983 1
## 763 3987 1
## 764 3999 1
## 765 4001 1
## 766 4021 1
## 767 4028 2
## 768 4029 1
## 769 4046 1
## 770 4059 1
## 771 4065 2
## 772 4077 2
## 773 4097 1
## 774 4115 2
## 775 4124 2
## 776 4131 1
## 777 4136 2
## 778 4139 1
## 779 4140 5
```

```
## 780 4141 1
## 781 4158 2
## 782 4168 1
## 783 4176 2
## 784 4180 1
## 785 4209 1
## 786 4218 2
## 787 4223 1
## 788 4227 2
## 789 4248 2
## 790 4257 1
## 791 4260 1
## 792 4265 2
## 793 4275 1
## 794 4287 1
## 795 4305 2
## 796 4307 1
## 797 4319 1
## 798 4345 1
## 799 4368 3
## 800 4384 2
## 801 4426 2
## 802 4449 1
## 803 4450 1
## 804 4462 1
## 805 4467 3
## 806 4478 1
## 807 4489 1
## 808 4509 1
## 809 4569 1
## 810 4611 1
## 811 4621 1
## 812 4631 1
## 813 4637 1
## 814 4641 1
## 815 4658 1
## 816 4716 1
## 817 4725 1
## 818 4728 1
## 819 4731 2
## 820 4735 1
## 821 4742 1
## 822 4751 1
## 823 4811 1
## 824 4864 1
## 825 4866 1
## 826 4869 1
## 827 4883 1
## 828 4891 1
## 829 4892 2
## 830 4896 1
## 831 4898 1
## 832 4923 1
## 833 4946 1
```

```
## 834 4968 1
## 835 4999 1
## 836 5027 1
## 837 5033 1
## 838 5034 1
## 839 5047 1
## 840 5051 1
## 841 5073 1
## 842 5085 1
## 843 5109 1
## 844 5128 2
## 845 5155 1
## 846 5174 1
## 847 5228 1
## 848 5231 1
## 849 5243 1
## 850 5244 1
## 851 5265 1
## 852 5266 1
## 853 5269 1
## 854 5274 1
## 855 5297 1
## 856 5303 1
## 857 5322 1
## 858 5373 1
## 859 5403 1
## 860 5413 1
## 861 5467 1
## 862 5509 1
## 863 5513 1
## 864 5538 1
## 865 5543 1
## 866 5557 1
## 867 5566 1
## 868 5594 1
## 869 5601 1
## 870 5610 1
## 871 5617 1
## 872 5625 1
## 873 5627 1
## 874 5644 1
## 875 5701 1
## 876 5717 1
## 877 5718 1
## 878 5730 1
## 879 5741 1
## 880 5747 1
## 881 5754 1
## 882 5759 1
## 883 5841 1
## 884 5845 1
## 885 5871 1
## 886 5881 1
## 887 5891 1
```

```
## 888 5898 1
## 889 5903 3
## 890 5905 1
## 891 5910 1
## 892 5916 1
## 893 5918 1
## 894 5933 1
## 895 5953 1
## 896 5956 1
## 897 5959 1
## 898 5975 1
## 899 6037 1
## 900 6043 1
## 901 6049 1
## 902 6085 1
## 903 6099 1
## 904 6103 1
## 905 6107 1
## 906 6143 1
## 907 6148 1
## 908 6151 1
## 909 6152 1
## 910 6154 1
## 911 6200 1
## 912 6214 1
## 913 6216 1
## 914 6253 1
## 915 6272 1
## 916 6276 1
## 917 6366 2
## 918 6392 1
## 919 6404 1
## 920 6411 1
## 921 6417 1
## 922 6460 1
## 923 6464 1
## 924 6466 1
## 925 6479 1
## 926 6483 1
## 927 6489 1
## 928 6498 1
## 929 6514 1
## 930 6535 1
## 931 6536 1
## 932 6539 1
## 933 6552 1
## 934 6573 1
## 935 6583 1
## 936 6594 1
## 937 6600 1
## 938 6604 1
## 939 6607 1
## 940 6615 1
## 941 6617 1
```

```
## 942 6629 1
## 943 6633 1
## 944 6644 1
## 945 6681 1
## 946 6682 1
## 947 6697 1
## 948 6715 1
## 949 6734 1
## 950 6747 1
## 951 6749 1
## 952 6772 1
## 953 6775 1
## 954 6780 1
## 955 6781 1
## 956 6787 1
## 957 6792 1
## 958 6794 1
## 959 6814 1
## 960 6826 1
## 961 6853 1
## 962 6867 1
## 963 6887 1
## 964 6908 1
## 965 6914 1
## 966 6930 1
## 967 6972 1
## 968 6973 1
## 969 6990 1
## 970 7003 1
## 971 7004 1
## 972 7023 1
## 973 7049 1
## 974 7054 1
## 975 7077 1
## 976 7156 1
## 977 7159 1
## 978 7167 1
## 979 7234 1
## 980 7242 1
## 981 7252 1
## 982 7258 1
## 983 7288 1
## 984 7294 1
## 985 7307 1
## 986 7344 1
## 987 7355 1
## 988 7356 1
## 989 7403 1
## 990 7441 1
## 991 7471 1
## 992 7480 1
## 993 7498 1
## 994 7528 1
## 995 7537 1
```

```
## 996 7582 1
## 997 7609 2
## 998 7617 1
## 999 7626 1
## 1000 7628 1
## 1001 7635 1
## 1002 7653 1
## 1003 7654 1
## 1004 7656 1
## 1005 7695 1
## 1006 7702 1
## 1007 7707 1
## 1008 7715 1
## 1009 7735 1
## 1010 7736 1
## 1011 7754 2
## 1012 7755 1
## 1013 7813 1
## 1014 7817 1
## 1015 7819 1
## 1016 7839 1
## 1017 7840 1
## 1018 7841 1
## 1019 7856 1
## 1020 7882 1
## 1021 7885 1
## 1022 7895 1
## 1023 7941 1
## 1024 7942 1
## 1025 7943 1
## 1026 7949 1
## 1027 7984 1
## 1028 7990 1
## 1029 8009 1
## 1030 8012 1
## 1031 8020 1
## 1032 8026 1
## 1033 8121 1
## 1034 8122 1
## 1035 8146 1
## 1036 8155 1
## 1037 8226 1
## 1038 8236 1
## 1039 8246 1
## 1040 8257 1
## 1041 8282 1
## 1042 8324 1
## 1043 8331 1
## 1044 8332 1
## 1045 8337 1
## 1046 8354 2
## 1047 8369 1
## 1048 8389 1
## 1049 8404 1
```

```
## 1050 8448 1
## 1051 8455 1
## 1052 8497 1
## 1053 8503 1
## 1054 8512 1
## 1055 8535 1
## 1056 8566 1
## 1057 8568 2
## 1058 8601 1
## 1059 8609 1
## 1060 8629 1
## 1061 8653 1
## 1062 8672 1
## 1063 8674 1
## 1064 8684 1
## 1065 8696 1
## 1066 8718 1
## 1067 8756 1
## 1068 8765 1
## 1069 8774 1
## 1070 8798 1
## 1071 8801 1
## 1072 8823 1
## 1073 8838 1
## 1074 8873 1
## 1075 8874 1
## 1076 8876 1
## 1077 8878 1
## 1078 8879 1
## 1079 8887 1
## 1080 8889 1
## 1081 8953 1
## 1082 9003 1
## 1083 9013 1
## 1084 9051 3
## 1085 9061 1
## 1086 9062 1
## 1087 9064 1
## 1088 9085 1
## 1089 9087 1
## 1090 9111 1
## 1091 9113 1
## 1092 9116 1
## 1093 9122 1
## 1094 9123 2
## 1095 9172 1
## 1096 9182 1
## 1097 9186 1
## 1098 9188 1
## 1099 9204 1
## 1100 9221 2
## 1101 9227 1
## 1102 9302 1
## 1103 9367 1
```

```
## 1104 9373 1
## 1105 9436 1
## 1106 9527 1
## 1107 9547 1
## 1108 9556 1
## 1109 9567 1
## 1110 9579 1
## 1111 9588 1
## 1112 9597 1
## 1113 9600 1
## 1114 9607 1
## 1115 9614 1
## 1116 9642 1
## 1117 9652 1
## 1118 9665 1
## 1119 9675 1
## 1120 9692 1
## 1121 9719 1
## 1122 9733 1
## 1123 9747 1
## 1124 9750 1
## 1125 9784 1
## 1126 9810 1
## 1127 9826 1
## 1128 9839 1
## 1129 9938 1
## 1130 9944 1
## 1131 9958 1
## 1132 9969 1
## 1133 9970 1
## 1134 9980 1
## 1135 9993 1
## 1136 10014 1
## 1137 10040 1
## 1138 10048 1
## 1139 10052 1
## 1140 10062 1
## 1141 10064 1
## 1142 10078 1
## 1143 10079 1
## 1144 10086 1
## 1145 10091 1
## 1146 10097 1
## 1147 10108 1
## 1148 10110 1
## 1149 10120 1
## 1150 10123 1
## 1151 10125 1
## 1152 10134 1
## 1153 10166 1
## 1154 10182 1
## 1155 10183 1
## 1156 10194 1
## 1157 10215 1
```

```
## 1158 10216      1
## 1159 10220      1
## 1160 10222      1
## 1161 10223      1
## 1162 10233      2
## 1163 10262      1
## 1164 10266      1
## 1165 10267      1
## 1166 10294      1
## 1167 10302      1
## 1168 10303      1
## 1169 10306      1
## 1170 10309      1
## 1171 10314      1
## 1172 10320      1
## 1173 10366      1
## 1174 10375      1
## 1175 10382      1
## 1176 10412      1
## 1177 10438      1
## 1178 10439      1
## 1179 10452      1
## 1180 10472      1
## 1181 10484      1
## 1182 10489      1
## 1183 10501      1
## 1184 10527      1
## 1185 10535      1
## 1186 10550      1
## 1187 10567      1
## 1188 10606      1
## 1189 10647      1
## 1190 10651      1
## 1191 10679      1
## 1192 10688      1
## 1193 10726      1
## 1194 10744      1
## 1195 10761      1
## 1196 10764      1
## 1197 10765      1
## 1198 10771      1
## 1199 10776      1
## 1200 10782      1
## 1201 10792      1
## 1202 10811      1
## 1203 10814      1
## 1204 10837      1
## 1205 10857      1
## 1206 10864      1
## 1207 10870      1
## 1208 10873      1
## 1209 10883      1
## 1210 10885      1
## 1211 10918      1
```

```
## 1212 10944      1
## 1213 10952      1
## 1214 10958      1
## 1215 10970      1
## 1216 10982      1
## 1217 10990      1
## 1218 10999      1
## 1219 11024      1
## 1220 11084      1
## 1221 11098      1
## 1222 11126      1
## 1223 11127      2
## 1224 11134      1
## 1225 11145      1
## 1226 11151      1
## 1227 11163      1
## 1228 11173      1
## 1229 11178      1
## 1230 11191      1
## 1231 11205      1
## 1232 11214      1
## 1233 11221      1
## 1234 11224      1
## 1235 11226      1
## 1236 11239      1
## 1237 11243      1
## 1238 11249      1
## 1239 11278      1
## 1240 11280      1
## 1241 11287      1
## 1242 11293      2
## 1243 11313      1
## 1244 11316      1
## 1245 11334      1
## 1246 11340      1
## 1247 11353      1
## 1248 11365      1
## 1249 11409      1
## 1250 11411      1
## 1251 11413      1
## 1252 11420      1
## 1253 11456      1
## 1254 11457      1
## 1255 11474      1
## 1256 11493      1
## 1257 11498      1
## 1258 11521      2
## 1259 11524      1
## 1260 11532      1
## 1261 11558      1
## 1262 11567      1
## 1263 11591      1
## 1264 11622      1
## 1265 11643      1
```

```
## 1266 11664      1
## 1267 11666      1
## 1268 11708      1
## 1269 11753      1
## 1270 11758      1
## 1271 11759      2
## 1272 11779      1
## 1273 11789      1
## 1274 11804      1
## 1275 11806      1
## 1276 11808      1
## 1277 11830      1
## 1278 11845      1
## 1279 11847      1
## 1280 11852      1
## 1281 11878      1
## 1282 11911      1
## 1283 11971      1
## 1284 11986      1
## 1285 11992      1
## 1286 12005      1
## 1287 12060      1
## 1288 12103      1
## 1289 12110      1
## 1290 12131      1
## 1291 12158      1
## 1292 12181      1
## 1293 12200      1
## 1294 12203      1
## 1295 12207      1
## 1296 12216      1
## 1297 12227      1
## 1298 12230      1
## 1299 12244      1
## 1300 12290      1
## 1301 12291      1
## 1302 12295      1
## 1303 12313      1
## 1304 12315      2
## 1305 12329      1
## 1306 12340      1
## 1307 12355      1
## 1308 12373      1
## 1309 12387      2
## 1310 12390      1
## 1311 12400      1
## 1312 12420      1
## 1313 12445      1
## 1314 12458      1
## 1315 12462      1
## 1316 12465      1
## 1317 12472      1
## 1318 12476      1
## 1319 12478      1
```

```
## 1320 12479      1
## 1321 12484      1
## 1322 12511      1
## 1323 12523      1
## 1324 12531      1
## 1325 12535      1
## 1326 12548      1
## 1327 12561      1
## 1328 12579      1
## 1329 12580      1
## 1330 12589      1
## 1331 12611      1
## 1332 12619      1
## 1333 12663      1
## 1334 12687      1
## 1335 12743      1
## 1336 12769      1
## 1337 12776      1
## 1338 12802      2
## 1339 12803      3
## 1340 12804      1
## 1341 12817      1
## 1342 12832      1
## 1343 12833      1
## 1344 12847      1
## 1345 12850      1
## 1346 12851      1
## 1347 12856      2
## 1348 12858      1
## 1349 12859      1
## 1350 12860      1
## 1351 12865      1
## 1352 12868      1
## 1353 12869      1
## 1354 12870      1
## 1355 12874      1
## 1356 12880      2
## 1357 12891      1
## 1358 12894      1
## 1359 12897      1
## 1360 12905      1
## 1361 12912      1
## 1362 12916      1
## 1363 12924      1
## 1364 12945      2
## 1365 12950      1
## 1366 12975      1
## 1367 12997      1
## 1368 13002      1
## 1369 13028      1
## 1370 13042      2
## 1371 13043      1
## 1372 13046      1
## 1373 13063      2
```

```

## 1374 13066      1
## 1375 13069      1
## 1376 13073      1
## 1377 13074      1
## 1378 13075      1
## 1379 13129      1
## 1380 13131      1
## 1381 13133      1
## 1382 13134      1
## 1383 13137      2
## 1384 13141      1
## 1385 13142      1
## 1386 13143      1
## 1387 13153      1
## 1388 13155      2
## 1389 13169      1
## 1390 13199      1
## 1391 13207      1
## 1392 13214      1
## 1393 13215      1
## 1394 13216      1
## 1395 13239      1
## 1396 13252      1
## 1397 13253      1
## 1398 13257      1
## 1399 13265      1
## 1400 13267      1
## 1401 13277      1
## 1402 13288      1
## 1403 13289      1
## 1404 13291      1
## 1405 13295      1
## 1406 13296      1

t_bac<-as.data.frame(t(bac)) #transpose of the dataset
t_bac

##          V1  V2  V3  V4  V5  V6  V7  V8  V9  V10  V11  V12  V13  V14  V15  V16  V17  V18  V19  V20
## OTU      1   2   3   4   5   6   7   9  11   13   14   15   16   17   18   19   20   21   22   24
## T7_2    65   1   3  120  17  55   4  15   1  50   7   6  18   2  42   14  56   12  53   6
##          V21 V22 V23 V24 V25 V26 V27 V28 V29 V30 V31 V32 V33 V34 V35 V36 V37 V38
## OTU     25   28  30  31  33  34  35  38  42  44  45  47  48  50  51  52  53  55
## T7_2    1    4   1   2  17   9  52   2  17   2  10   6  54   2   1   3   7   1
##          V39 V40 V41 V42 V43 V44 V45 V46 V47 V48 V49 V50 V51 V52 V53 V54 V55 V56
## OTU     56   57  58  61  62  63  64  67  70  71  74  77  78  80  82  84  85  90
## T7_2    5    51   5   8   4   2   6  15  19   8   5  13  19   2   7   9   4   9
##          V57 V58 V59 V60 V61 V62 V63 V64 V65 V66 V67 V68 V69 V70 V71 V72 V73 V74
## OTU     95   98 100 101 103 104 106 111 116 117 118 119 120 121 125 126 127 129
## T7_2    5    2   4   6   3   2   1   3   1   3   15  21  11   3   6   2   6   8
##          V75 V76 V77 V78 V79 V80 V81 V82 V83 V84 V85 V86 V87 V88 V89 V90 V91 V92
## OTU    135  136 137 138 140 145 147 148 150 153 154 159 161 167 171 172 174 175
## T7_2    1    1   5   2   3   1   4   5   2   2   2   3   5   3   3   1   2   1
##          V93 V94 V95 V96 V97 V98 V99 V100 V101 V102 V103 V104 V105 V106 V107 V108
## OTU    176  178 179 180 185 186 187 190 191 198 199 202 203 204 207 208

```

```

## T7_2 12 6 1 2 1 4 2 8 2 1 3 1 1 1 9 1
## V109 V110 V111 V112 V113 V114 V115 V116 V117 V118 V119 V120 V121 V122 V123
## OTU 209 212 214 216 221 224 225 226 227 228 230 232 236 239 242
## T7_2 2 5 3 1 10 2 3 4 2 6 2 3 1 5 4
## V124 V125 V126 V127 V128 V129 V130 V131 V132 V133 V134 V135 V136 V137 V138
## OTU 247 249 252 253 254 255 257 259 260 262 265 266 267 268 270
## T7_2 10 6 2 5 3 6 5 2 3 5 6 8 4 4 1
## V139 V140 V141 V142 V143 V144 V145 V146 V147 V148 V149 V150 V151 V152 V153
## OTU 271 273 274 279 281 286 296 298 299 300 302 307 309 310 311
## T7_2 2 1 3 1 2 2 7 7 2 1 2 1 2 4 9
## V154 V155 V156 V157 V158 V159 V160 V161 V162 V163 V164 V165 V166 V167 V168
## OTU 312 313 319 322 326 331 332 333 335 336 340 341 344 348 351
## T7_2 5 6 3 2 16 9 2 3 2 6 1 4 4 3 1
## V169 V170 V171 V172 V173 V174 V175 V176 V177 V178 V179 V180 V181 V182 V183
## OTU 354 356 357 363 367 369 370 374 385 393 404 406 408 409 414
## T7_2 8 1 8 3 1 1 3 4 10 1 2 2 1 1 1
## V184 V185 V186 V187 V188 V189 V190 V191 V192 V193 V194 V195 V196 V197 V198
## OTU 415 416 418 422 423 436 437 438 440 443 448 452 454 457 458
## T7_2 1 4 2 2 1 5 10 4 4 2 1 3 1 3 6
## V199 V200 V201 V202 V203 V204 V205 V206 V207 V208 V209 V210 V211 V212 V213
## OTU 463 465 466 468 477 480 481 484 487 490 491 503 504 505 511
## T7_2 1 1 3 2 1 1 2 4 3 21 1 6 1 3 2
## V214 V215 V216 V217 V218 V219 V220 V221 V222 V223 V224 V225 V226 V227 V228
## OTU 512 513 522 524 528 536 538 542 544 547 549 553 554 556 558
## T7_2 1 2 2 4 1 9 1 4 4 7 2 2 3 7 6
## V229 V230 V231 V232 V233 V234 V235 V236 V237 V238 V239 V240 V241 V242 V243
## OTU 560 562 564 568 571 574 575 576 578 586 587 588 589 590 591
## T7_2 3 3 1 2 1 1 2 4 16 6 1 2 1 4 1
## V244 V245 V246 V247 V248 V249 V250 V251 V252 V253 V254 V255 V256 V257 V258
## OTU 599 603 604 611 617 619 620 622 624 631 633 637 641 642 644
## T7_2 2 2 10 2 2 5 1 1 3 2 3 5 5 1 1 3
## V259 V260 V261 V262 V263 V264 V265 V266 V267 V268 V269 V270 V271 V272 V273
## OTU 647 648 651 654 658 659 664 667 671 673 680 686 688 693 697
## T7_2 2 3 4 2 1 3 1 4 1 5 1 1 2 1 1 6
## V274 V275 V276 V277 V278 V279 V280 V281 V282 V283 V284 V285 V286 V287 V288
## OTU 700 702 705 707 708 709 717 719 721 723 731 733 734 737 738
## T7_2 1 2 2 1 3 5 3 4 1 2 4 2 1 1 3
## V289 V290 V291 V292 V293 V294 V295 V296 V297 V298 V299 V300 V301 V302 V303
## OTU 739 743 744 745 754 757 758 761 765 771 772 787 788 789 794
## T7_2 1 1 1 1 2 3 1 2 1 1 2 1 1 1 4
## V304 V305 V306 V307 V308 V309 V310 V311 V312 V313 V314 V315 V316 V317 V318
## OTU 800 806 813 814 819 822 824 826 829 832 837 839 840 849 853
## T7_2 3 1 3 1 5 3 1 5 1 2 4 1 1 1 3 3
## V319 V320 V321 V322 V323 V324 V325 V326 V327 V328 V329 V330 V331 V332 V333
## OTU 854 857 860 867 868 869 874 876 881 885 886 888 890 893 894
## T7_2 1 1 1 2 1 3 5 5 2 3 5 1 1 1 3 1
## V334 V335 V336 V337 V338 V339 V340 V341 V342 V343 V344 V345 V346 V347 V348
## OTU 896 897 898 902 904 909 910 911 914 916 917 918 939 942 952
## T7_2 1 2 1 1 3 1 2 2 1 4 1 6 2 1 2
## V349 V350 V351 V352 V353 V354 V355 V356 V357 V358 V359 V360 V361 V362 V363
## OTU 954 961 962 965 966 973 986 988 993 995 997 1001 1002 1006 1008
## T7_2 4 6 1 6 1 4 1 1 7 2 1 3 6 1 2
## V364 V365 V366 V367 V368 V369 V370 V371 V372 V373 V374 V375 V376 V377 V378
## OTU 1020 1021 1025 1028 1029 1034 1037 1041 1051 1054 1057 1058 1070 1071 1077

```

```

## T7_2      1      1      2      1      1      3      2      1      2      2      2      1      2      1      1      1
##          V379  V380  V381  V382  V383  V384  V385  V386  V387  V388  V389  V390  V391  V392  V393
## OTU      1082 1086 1090 1096 1097 1101 1104 1108 1123 1125 1131 1134 1137 1140 1144
## T7_2      2      1      1      1      6      2      2      1      1      1      1      2      3      1      1      4
##          V394  V395  V396  V397  V398  V399  V400  V401  V402  V403  V404  V405  V406  V407  V408
## OTU      1145 1149 1158 1159 1162 1166 1169 1170 1172 1174 1177 1179 1185 1188 1193
## T7_2      1      1      1      1      1      2      1      1      1      2      1      3      1      1      1      2
##          V409  V410  V411  V412  V413  V414  V415  V416  V417  V418  V419  V420  V421  V422  V423
## OTU      1195 1200 1215 1217 1230 1232 1235 1241 1242 1243 1252 1255 1259 1269 1272
## T7_2      3      3      1      1      1      4      1      1      1      2      2      1      1      1      4      1
##          V424  V425  V426  V427  V428  V429  V430  V431  V432  V433  V434  V435  V436  V437  V438
## OTU      1274 1279 1280 1284 1285 1287 1288 1291 1294 1296 1297 1317 1325 1332 1335
## T7_2      1      2      2      2      1      2      1      1      1      2      1      1      2      1      1      3
##          V439  V440  V441  V442  V443  V444  V445  V446  V447  V448  V449  V450  V451  V452  V453
## OTU      1340 1344 1348 1350 1351 1353 1355 1360 1361 1365 1370 1371 1374 1375 1377
## T7_2      3      1      5      2      2      2      3      3      3      1      4      2      3      2      4      1
##          V454  V455  V456  V457  V458  V459  V460  V461  V462  V463  V464  V465  V466  V467  V468
## OTU      1385 1388 1393 1395 1398 1401 1411 1412 1414 1429 1440 1441 1445 1449 1451
## T7_2      7      1      1      4      1      2      4      3      4      1      4      1      4      1      2      4
##          V469  V470  V471  V472  V473  V474  V475  V476  V477  V478  V479  V480  V481  V482  V483
## OTU      1456 1459 1464 1467 1469 1471 1472 1476 1481 1484 1485 1489 1494 1495 1501
## T7_2      1     14      1      1      3      1      1      1      5      1      4      1      4      1      3
##          V484  V485  V486  V487  V488  V489  V490  V491  V492  V493  V494  V495  V496  V497  V498
## OTU      1506 1516 1517 1519 1522 1529 1536 1543 1552 1555 1559 1561 1571 1573 1577
## T7_2      1     3      1      1      3      2      4      4      4      2      1      2      5      3      2      4
##          V499  V500  V501  V502  V503  V504  V505  V506  V507  V508  V509  V510  V511  V512  V513
## OTU      1592 1604 1605 1609 1623 1632 1641 1647 1663 1670 1673 1674 1676 1701 1711
## T7_2      4     1      1      1      2      3      1      1      1      2      1      3      2      2      1      4
##          V514  V515  V516  V517  V518  V519  V520  V521  V522  V523  V524  V525  V526  V527  V528
## OTU      1725 1726 1727 1732 1733 1734 1741 1760 1765 1766 1770 1774 1781 1792 1803
## T7_2      6     3      2      1      3      2      1      2      2      2      1      3      1      2      2      2
##          V529  V530  V531  V532  V533  V534  V535  V536  V537  V538  V539  V540  V541  V542  V543
## OTU      1807 1815 1820 1825 1830 1844 1863 1864 1865 1871 1879 1885 1888 1891 1900
## T7_2      4     4      1      1      1      1      2      3      2      1      2      1      2      2      2      3
##          V544  V545  V546  V547  V548  V549  V550  V551  V552  V553  V554  V555  V556  V557  V558
## OTU      1904 1914 1916 1925 1928 1944 1946 1947 1950 1956 1957 1959 1973 1974 2006
## T7_2      3     1      1      1      1      3      2      2      2      2      2      3      2      3      3      2
##          V559  V560  V561  V562  V563  V564  V565  V566  V567  V568  V569  V570  V571  V572  V573
## OTU      2008 2013 2020 2023 2027 2028 2033 2034 2036 2037 2046 2051 2053 2055 2057
## T7_2      2     1      3      2      3      1      1      1      1      1      1      3      1      1      1      1
##          V574  V575  V576  V577  V578  V579  V580  V581  V582  V583  V584  V585  V586  V587  V588
## OTU      2060 2064 2080 2085 2093 2095 2099 2101 2103 2104 2112 2116 2123 2130 2137
## T7_2      1     1      1      6      1      2      2      3      1      3      1      1      1      1      1      3
##          V589  V590  V591  V592  V593  V594  V595  V596  V597  V598  V599  V600  V601  V602  V603
## OTU      2148 2164 2169 2196 2201 2205 2216 2222 2224 2245 2253 2266 2271 2302 2309
## T7_2      3     1      2      2      2      1      1      2      1      1      1      1      1      1      3      1
##          V604  V605  V606  V607  V608  V609  V610  V611  V612  V613  V614  V615  V616  V617  V618
## OTU      2342 2354 2360 2368 2377 2384 2386 2397 2421 2446 2455 2462 2467 2471 2478
## T7_2      1     3      3      1      3      1      1      3      1      1      2      1      2      1      2      1
##          V619  V620  V621  V622  V623  V624  V625  V626  V627  V628  V629  V630  V631  V632  V633
## OTU      2479 2499 2501 2504 2523 2537 2541 2544 2546 2550 2569 2588 2590 2609 2620
## T7_2      2     1      2      2      1      1      1      2      1      2      2      2      2      2      1      1
##          V634  V635  V636  V637  V638  V639  V640  V641  V642  V643  V644  V645  V646  V647  V648
## OTU      2625 2630 2635 2643 2653 2664 2674 2682 2691 2698 2702 2731 2739 2760 2767

```

```

## T7_2      1      1      2      2      2      2      2      1      2      1      2      1      1      1      1      2
##      V649 V650 V651 V652 V653 V654 V655 V656 V657 V658 V659 V660 V661 V662 V663
## OTU 2779 2784 2785 2787 2796 2798 2809 2812 2822 2823 2855 2858 2879 2897 2899
## T7_2      2      2      2      1      2      1      1      1      1      1      2      1      2      2      1
##      V664 V665 V666 V667 V668 V669 V670 V671 V672 V673 V674 V675 V676 V677 V678
## OTU 2900 2921 2947 2950 2963 2966 2985 2986 3001 3020 3038 3045 3049 3054 3077
## T7_2      1      1      2      2      1      2      2      3      2      2      1      1      3      1      1
##      V679 V680 V681 V682 V683 V684 V685 V686 V687 V688 V689 V690 V691 V692 V693
## OTU 3087 3092 3093 3096 3097 3125 3130 3175 3180 3184 3189 3190 3192 3193 3204
## T7_2      2      1      2      1      1      2      2      2      2      1      1      2      2      2      3      2
##      V694 V695 V696 V697 V698 V699 V700 V701 V702 V703 V704 V705 V706 V707 V708
## OTU 3206 3207 3211 3216 3224 3228 3247 3249 3276 3279 3281 3285 3289 3319 3324
## T7_2      2      3      2      2      2      1      2      2      2      1      2      2      1      1      4      1
##      V709 V710 V711 V712 V713 V714 V715 V716 V717 V718 V719 V720 V721 V722 V723
## OTU 3326 3331 3342 3347 3351 3356 3360 3372 3380 3409 3410 3443 3452 3480 3501
## T7_2      2      2      3      3      1      1      3      1      1      1      1      1      2      2      3      2
##      V724 V725 V726 V727 V728 V729 V730 V731 V732 V733 V734 V735 V736 V737 V738
## OTU 3508 3533 3540 3556 3569 3581 3606 3622 3642 3643 3645 3685 3704 3739 3762
## T7_2      2      2      1      1      2      1      1      1      1      2      2      2      2      2      1      3
##      V739 V740 V741 V742 V743 V744 V745 V746 V747 V748 V749 V750 V751 V752 V753
## OTU 3765 3766 3777 3788 3791 3810 3811 3821 3845 3849 3864 3874 3876 3880 3882
## T7_2      1      1      1      1      3      2      1      1      1      2      2      2      3      1      2      1
##      V754 V755 V756 V757 V758 V759 V760 V761 V762 V763 V764 V765 V766 V767 V768
## OTU 3919 3923 3925 3952 3957 3969 3970 3973 3983 3987 3999 4001 4021 4028 4029
## T7_2      1      2      2      1      2      1      1      2      1      1      1      1      1      2      1
##      V769 V770 V771 V772 V773 V774 V775 V776 V777 V778 V779 V780 V781 V782 V783
## OTU 4046 4059 4065 4077 4097 4115 4124 4131 4136 4139 4140 4141 4158 4168 4176
## T7_2      1      1      2      2      1      2      2      1      1      2      1      5      1      2      1      2
##      V784 V785 V786 V787 V788 V789 V790 V791 V792 V793 V794 V795 V796 V797 V798
## OTU 4180 4209 4218 4223 4227 4248 4257 4260 4265 4275 4287 4305 4307 4319 4345
## T7_2      1      1      2      1      2      2      1      1      1      2      1      1      1      2      1      1
##      V799 V800 V801 V802 V803 V804 V805 V806 V807 V808 V809 V810 V811 V812 V813
## OTU 4368 4384 4426 4449 4450 4462 4467 4478 4489 4509 4569 4611 4621 4631 4637
## T7_2      3      2      2      1      1      1      3      1      1      1      1      1      1      1      1      1
##      V814 V815 V816 V817 V818 V819 V820 V821 V822 V823 V824 V825 V826 V827 V828
## OTU 4641 4658 4716 4725 4728 4731 4735 4742 4751 4811 4864 4866 4869 4883 4891
## T7_2      1      1      1      1      1      2      1      1      1      1      1      1      1      1      1      1
##      V829 V830 V831 V832 V833 V834 V835 V836 V837 V838 V839 V840 V841 V842 V843
## OTU 4892 4896 4898 4923 4946 4968 4999 5027 5033 5034 5047 5051 5073 5085 5109
## T7_2      2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V844 V845 V846 V847 V848 V849 V850 V851 V852 V853 V854 V855 V856 V857 V858
## OTU 5128 5155 5174 5228 5231 5243 5244 5265 5266 5269 5274 5297 5303 5322 5373
## T7_2      2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V859 V860 V861 V862 V863 V864 V865 V866 V867 V868 V869 V870 V871 V872 V873
## OTU 5403 5413 5467 5509 5513 5538 5543 5557 5566 5594 5601 5610 5617 5625 5627
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V874 V875 V876 V877 V878 V879 V880 V881 V882 V883 V884 V885 V886 V887 V888
## OTU 5644 5701 5717 5718 5730 5741 5747 5754 5759 5841 5845 5871 5881 5891 5898
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V889 V890 V891 V892 V893 V894 V895 V896 V897 V898 V899 V900 V901 V902 V903
## OTU 5903 5905 5910 5916 5918 5933 5953 5956 5959 5975 6037 6043 6049 6085 6099
## T7_2      3      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V904 V905 V906 V907 V908 V909 V910 V911 V912 V913 V914 V915 V916 V917 V918
## OTU 6103 6107 6143 6148 6151 6152 6154 6200 6214 6216 6253 6272 6276 6366 6392

```

```

## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1      2      1
##      V919  V920  V921  V922  V923  V924  V925  V926  V927  V928  V929  V930  V931  V932  V933
## OTU  6404  6411  6417  6460  6464  6466  6479  6483  6489  6498  6514  6535  6536  6539  6552
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V934  V935  V936  V937  V938  V939  V940  V941  V942  V943  V944  V945  V946  V947  V948
## OTU  6573  6583  6594  6600  6604  6607  6615  6617  6629  6633  6644  6681  6682  6697  6715
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V949  V950  V951  V952  V953  V954  V955  V956  V957  V958  V959  V960  V961  V962  V963
## OTU  6734  6747  6749  6772  6775  6780  6781  6787  6792  6794  6814  6826  6853  6867  6887
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V964  V965  V966  V967  V968  V969  V970  V971  V972  V973  V974  V975  V976  V977  V978
## OTU  6908  6914  6930  6972  6973  6990  7003  7004  7023  7049  7054  7077  7156  7159  7167
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V979  V980  V981  V982  V983  V984  V985  V986  V987  V988  V989  V990  V991  V992  V993
## OTU  7234  7242  7252  7258  7288  7294  7307  7344  7355  7356  7403  7441  7471  7480  7498
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V994  V995  V996  V997  V998  V999  V1000 V1001 V1002 V1003 V1004 V1005 V1006
## OTU  7528  7537  7582  7609  7617  7626  7628  7635  7653  7654  7656  7695  7702
## T7_2      1      1      1      2      1      1      1      1      1      1      1      1      1      1      1      1
##      V1007 V1008 V1009 V1010 V1011 V1012 V1013 V1014 V1015 V1016 V1017 V1018
## OTU  7707  7715  7735  7736  7754  7755  7813  7817  7819  7839  7840  7841
## T7_2      1      1      1      1      2      1      1      1      1      1      1      1      1      1      1      1
##      V1019 V1020 V1021 V1022 V1023 V1024 V1025 V1026 V1027 V1028 V1029 V1030
## OTU  7856  7882  7885  7895  7941  7942  7943  7949  7984  7990  8009  8012
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V1031 V1032 V1033 V1034 V1035 V1036 V1037 V1038 V1039 V1040 V1041 V1042
## OTU  8020  8026  8121  8122  8146  8146  8155  8226  8236  8246  8257  8282  8324
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V1043 V1044 V1045 V1046 V1047 V1048 V1049 V1050 V1051 V1052 V1053 V1054
## OTU  8331  8332  8337  8354  8369  8389  8404  8448  8455  8497  8503  8512
## T7_2      1      1      1      2      1      1      1      1      1      1      1      1      1      1      1
##      V1055 V1056 V1057 V1058 V1059 V1060 V1061 V1062 V1063 V1064 V1065 V1066
## OTU  8535  8566  8568  8601  8609  8629  8653  8672  8674  8684  8696  8718
## T7_2      1      1      2      1      1      1      1      1      1      1      1      1      1      1      1
##      V1067 V1068 V1069 V1070 V1071 V1072 V1073 V1074 V1075 V1076 V1077 V1078
## OTU  8756  8765  8774  8798  8801  8823  8838  8873  8874  8876  8878  8879
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V1079 V1080 V1081 V1082 V1083 V1084 V1085 V1086 V1087 V1088 V1089 V1090
## OTU  8887  8889  8953  9003  9013  9051  9061  9062  9064  9085  9087  9111
## T7_2      1      1      1      1      1      3      1      1      1      1      1      1      1      1
##      V1091 V1092 V1093 V1094 V1095 V1096 V1097 V1098 V1099 V1100 V1101 V1102
## OTU  9113  9116  9122  9123  9172  9182  9186  9188  9204  9221  9227  9302
## T7_2      1      1      1      2      1      1      1      1      1      2      1      1
##      V1103 V1104 V1105 V1106 V1107 V1108 V1109 V1110 V1111 V1112 V1113 V1114
## OTU  9367  9373  9436  9527  9547  9556  9567  9579  9588  9597  9600  9607
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1
##      V1115 V1116 V1117 V1118 V1119 V1120 V1121 V1122 V1123 V1124 V1125 V1126
## OTU  9614  9642  9652  9665  9675  9692  9719  9733  9747  9750  9784  9810
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1
##      V1127 V1128 V1129 V1130 V1131 V1132 V1133 V1134 V1135 V1136 V1137 V1138
## OTU  9826  9839  9938  9944  9958  9969  9970  9980  9993  10014  10040  10048
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1
##      V1139 V1140 V1141 V1142 V1143 V1144 V1145 V1146 V1147 V1148 V1149 V1150
## OTU  10052 10062 10064 10078 10079 10086 10091 10097 10108 10110 10120 10123

```

```

## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V1151 V1152 V1153 V1154 V1155 V1156 V1157 V1158 V1159 V1160 V1161 V1162
## OTU 10125 10134 10166 10182 10183 10194 10215 10216 10220 10222 10223 10233
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      2
##      V1163 V1164 V1165 V1166 V1167 V1168 V1169 V1170 V1171 V1172 V1173 V1174
## OTU 10262 10266 10267 10294 10302 10303 10306 10309 10314 10320 10366 10375
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V1175 V1176 V1177 V1178 V1179 V1180 V1181 V1182 V1183 V1184 V1185 V1186
## OTU 10382 10412 10438 10439 10452 10472 10484 10489 10501 10527 10535 10550
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V1187 V1188 V1189 V1190 V1191 V1192 V1193 V1194 V1195 V1196 V1197 V1198
## OTU 10567 10606 10647 10651 10679 10688 10726 10744 10761 10764 10765 10771
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V1199 V1200 V1201 V1202 V1203 V1204 V1205 V1206 V1207 V1208 V1209 V1210
## OTU 10776 10782 10792 10811 10814 10837 10857 10864 10870 10873 10883 10885
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V1211 V1212 V1213 V1214 V1215 V1216 V1217 V1218 V1219 V1220 V1221 V1222
## OTU 10918 10944 10952 10958 10970 10982 10990 10999 11024 11084 11098 11126
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V1223 V1224 V1225 V1226 V1227 V1228 V1229 V1230 V1231 V1232 V1233 V1234
## OTU 11127 11134 11145 11151 11163 11173 11178 11191 11205 11214 11221 11224
## T7_2      2      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V1235 V1236 V1237 V1238 V1239 V1240 V1241 V1242 V1243 V1244 V1245 V1246
## OTU 11226 11239 11243 11249 11278 11280 11287 11293 11313 11316 11334 11340
## T7_2      1      1      1      1      1      1      1      1      2      1      1      1      1      1      1
##      V1247 V1248 V1249 V1250 V1251 V1252 V1253 V1254 V1255 V1256 V1257 V1258
## OTU 11353 11365 11409 11411 11413 11420 11456 11457 11474 11493 11498 11521
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      2
##      V1259 V1260 V1261 V1262 V1263 V1264 V1265 V1266 V1267 V1268 V1269 V1270
## OTU 11524 11532 11558 11567 11591 11622 11643 11664 11666 11708 11753 11758
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V1271 V1272 V1273 V1274 V1275 V1276 V1277 V1278 V1279 V1280 V1281 V1282
## OTU 11759 11779 11789 11804 11806 11808 11830 11845 11847 11852 11878 11911
## T7_2      2      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V1283 V1284 V1285 V1286 V1287 V1288 V1289 V1290 V1291 V1292 V1293 V1294
## OTU 11971 11986 11992 12005 12060 12103 12110 12131 12158 12181 12200 12203
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V1295 V1296 V1297 V1298 V1299 V1300 V1301 V1302 V1303 V1304 V1305 V1306
## OTU 12207 12216 12227 12230 12244 12290 12291 12295 12313 12315 12329 12340
## T7_2      1      1      1      1      1      1      1      1      1      1      2      1      1      1      1
##      V1307 V1308 V1309 V1310 V1311 V1312 V1313 V1314 V1315 V1316 V1317 V1318
## OTU 12355 12373 12387 12390 12400 12420 12445 12458 12462 12465 12472 12476
## T7_2      1      1      2      1      1      1      1      1      1      1      1      1      1      1      1
##      V1319 V1320 V1321 V1322 V1323 V1324 V1325 V1326 V1327 V1328 V1329 V1330
## OTU 12478 12479 12484 12511 12523 12531 12535 12548 12561 12579 12580 12589
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V1331 V1332 V1333 V1334 V1335 V1336 V1337 V1338 V1339 V1340 V1341 V1342
## OTU 12611 12619 12663 12687 12743 12769 12776 12802 12803 12804 12817 12832
## T7_2      1      1      1      1      1      1      1      1      2      3      1      1      1      1      1
##      V1343 V1344 V1345 V1346 V1347 V1348 V1349 V1350 V1351 V1352 V1353 V1354
## OTU 12833 12847 12850 12851 12856 12858 12859 12860 12865 12868 12869 12870
## T7_2      1      1      1      1      2      1      1      1      1      1      1      1      1      1      1
##      V1355 V1356 V1357 V1358 V1359 V1360 V1361 V1362 V1363 V1364 V1365 V1366
## OTU 12874 12880 12891 12894 12897 12905 12912 12916 12924 12945 12950 12975

```

```

## T7_2      1      2      1      1      1      1      1      1      1      1      2      1      1      1
##      V1367 V1368 V1369 V1370 V1371 V1372 V1373 V1374 V1375 V1376 V1377 V1378
## OTU  12997 13002 13028 13042 13043 13046 13063 13066 13069 13073 13074 13075
## T7_2      1      1      1      2      1      1      2      1      1      1      1      1      1
##      V1379 V1380 V1381 V1382 V1383 V1384 V1385 V1386 V1387 V1388 V1389 V1390
## OTU  13129 13131 13133 13134 13137 13141 13142 13143 13153 13155 13169 13199
## T7_2      1      1      1      1      2      1      1      1      1      1      2      1      1
##      V1391 V1392 V1393 V1394 V1395 V1396 V1397 V1398 V1399 V1400 V1401 V1402
## OTU  13207 13214 13215 13216 13239 13252 13253 13257 13265 13267 13277 13288
## T7_2      1      1      1      1      1      1      1      1      1      1      1      1      1
##      V1403 V1404 V1405 V1406
## OTU  13289 13291 13295 13296
## T7_2      1      1      1      1

```

#transpose mic

```
t_mic<-as.data.frame(t(mic))
```

mic

	OTU	T1_1	T1_2	T1_3	T7_1	T7_2	T7_3	DF_1	DF_2	CF_1	CF_2	CF_3
## 1	1	31	42	12	151	65	83	92	64	164	140	190
## 2	2	11	14	10	0	1	6	11	6	149	50	86
## 3	3	2	1	2	27	3	1	11	5	18	13	46
## 4	4	25	46	78	50	120	60	26	7	0	4	0
## 5	5	124	195	270	25	17	3	0	0	0	0	0
## 6	6	5	5	6	42	55	29	11	18	2	4	1
## 7	7	4	20	7	3	4	1	5	9	29	4	29
## 8	8	0	0	0	2	0	0	9	7	32	27	42
## 9	9	1	2	0	3	15	8	25	15	35	63	9
## 10	10	2	0	0	1	0	2	2	0	0	0	0
## 11	11	0	3	2	0	1	0	3	3	50	8	5
## 12	12	28	36	13	0	0	0	0	0	0	0	0
## 13	13	0	0	2	1	50	13	11	4	0	2	0
## 14	14	0	1	0	0	7	3	5	15	0	3	8
## 15	15	4	10	0	1	6	1	10	4	73	18	32
## 16	16	0	0	5	6	18	10	12	13	3	18	20
## 17	17	13	19	12	4	2	6	23	34	26	16	16
## 18	18	1	1	2	2	42	10	11	11	0	2	0
## 19	19	0	2	0	2	14	4	6	7	1	1	0
## 20	20	1	11	3	14	56	36	13	17	0	5	0
## 21	21	8	16	18	0	12	8	0	5	0	1	0
## 22	22	0	5	2	1	53	17	10	6	0	9	1
## 23	23	2	5	0	0	0	0	0	0	0	0	0
## 24	24	2	1	0	15	6	7	8	11	2	0	0
## 25	25	2	1	0	0	1	1	1	0	48	12	29
## 26	26	4	6	2	3	0	2	6	0	15	19	7
## 27	27	11	17	12	0	0	0	0	0	0	1	0
## 28	28	4	3	0	6	4	2	0	0	13	3	18
## 29	29	1	3	0	0	0	0	0	0	4	9	30
## 30	30	0	1	0	7	1	21	4	2	5	3	1
## 31	31	1	3	0	8	2	14	0	3	2	4	0
## 32	32	6	5	5	0	0	0	0	0	0	0	0
## 33	33	4	18	6	2	17	1	0	0	0	1	0

## 34	34	0	0	0	6	9	9	3	1	0	1	0
## 35	35	14	26	40	0	52	5	12	7	1	8	0
## 36	36	0	0	0	2	0	12	9	8	0	1	5
## 37	37	13	20	19	0	0	0	0	0	0	0	0
## 38	38	22	11	12	12	2	2	0	0	0	0	0
## 39	39	10	19	5	0	0	0	0	0	2	6	0
## 40	40	3	1	3	0	0	0	3	0	35	12	21
## 41	41	0	0	0	0	0	0	19	15	0	1	1
## 42	42	2	3	4	19	17	16	31	37	6	13	8
## 43	43	0	0	0	0	0	0	0	0	5	4	5
## 44	44	8	3	5	10	2	3	4	0	0	5	0
## 45	45	1	7	3	3	10	3	8	10	0	2	1
## 46	46	2	0	0	13	0	6	1	3	0	0	1
## 47	47	3	0	0	11	6	7	12	8	0	6	4
## 48	48	2	2	2	3	54	15	6	0	0	0	0
## 49	49	2	1	0	0	0	1	3	3	5	8	18
## 50	50	7	3	3	0	2	4	15	20	7	14	18
## 51	51	12	5	3	0	1	0	2	1	3	5	0
## 52	52	2	3	3	2	3	6	17	16	7	6	9
## 53	53	0	1	0	1	7	13	22	16	6	9	3
## 54	54	10	3	7	0	0	0	0	0	0	0	0
## 55	55	6	11	4	0	1	0	9	11	42	13	14
## 56	56	1	2	0	0	5	2	3	3	0	2	10
## 57	57	8	9	11	3	51	24	8	6	1	3	0
## 58	58	6	2	4	11	5	4	3	12	0	1	3
## 59	59	0	0	0	0	0	0	7	13	0	2	6
## 60	60	7	3	4	0	0	0	0	0	3	0	0
## 61	61	0	1	2	3	8	9	6	7	0	2	0
## 62	62	1	3	0	1	4	1	2	6	18	16	14
## 63	63	11	10	13	23	2	4	1	7	0	0	0
## 64	64	4	12	4	1	6	1	5	0	0	5	0
## 65	65	3	16	5	0	0	0	0	3	7	7	2
## 66	66	6	11	9	0	0	0	0	2	0	0	0
## 67	67	4	8	7	5	15	7	0	2	2	0	0
## 68	68	0	2	0	0	0	1	5	7	10	1	9
## 69	69	0	0	0	3	0	0	3	1	12	8	21
## 70	70	1	3	2	2	19	12	3	3	0	3	1
## 71	71	2	1	5	22	8	13	13	8	1	5	1
## 72	72	2	1	0	1	0	0	23	9	9	12	8
## 73	73	0	0	0	0	0	0	4	2	15	6	6
## 74	74	4	3	4	1	5	6	3	0	0	0	0
## 75	75	2	0	0	2	0	1	4	4	1	1	9
## 76	76	1	0	1	0	0	0	0	0	7	23	9
## 77	77	6	7	2	12	13	14	4	4	2	0	0
## 78	78	0	0	0	5	19	1	6	3	0	0	0
## 79	79	1	9	18	0	0	0	0	0	0	0	0
## 80	80	2	0	2	6	2	2	1	2	0	0	0
## 81	81	0	0	0	0	0	0	1	2	2	3	15
## 82	82	0	1	0	12	7	3	20	4	0	1	2
## 83	83	1	0	0	0	0	0	1	2	1	0	0
## 84	84	2	2	3	7	9	3	1	1	0	1	2
## 85	85	0	2	1	6	4	0	1	4	0	1	0
## 86	86	0	0	0	5	0	0	6	8	0	0	11
## 87	87	0	0	0	0	0	0	0	1	0	0	1

## 88	88	0	0	0	0	0	0	14	4	5	20	0
## 89	89	2	0	0	7	0	2	5	3	9	14	15
## 90	90	2	1	3	15	9	13	0	1	0	0	0
## 91	91	0	0	0	0	0	0	2	0	3	3	1
## 92	92	0	0	0	0	0	0	0	0	0	0	0
## 93	93	0	0	1	0	0	0	0	0	13	0	6
## 94	94	2	3	84	0	0	1	0	0	0	22	1
## 95	95	0	0	0	0	5	3	2	0	0	0	0
## 96	96	0	0	0	0	0	0	1	0	14	1	8
## 97	97	11	16	19	0	0	1	0	0	0	0	0
## 98	98	1	0	2	2	2	1	2	0	0	1	1
## 99	99	1	1	1	0	0	0	0	0	0	0	0
## 100	100	0	0	0	4	4	5	1	3	1	2	0
## 101	101	0	0	0	2	6	5	10	3	0	1	0
## 102	102	0	0	0	0	0	0	0	0	0	0	0
## 103	103	0	0	0	1	3	8	14	15	2	1	0
## 104	104	0	0	0	5	2	3	9	1	7	5	3
## 105	105	0	0	0	0	0	0	0	0	14	1	3
## 106	106	1	4	0	0	1	0	1	1	0	4	0
## 107	107	18	3	14	0	0	0	0	0	0	0	0
## 108	108	0	0	0	4	0	1	0	0	0	2	15
## 109	109	0	5	9	11	0	0	0	1	0	0	0
## 110	110	0	0	0	0	0	0	0	0	25	1	0
## 111	111	0	0	0	16	3	4	10	16	0	0	0
## 112	112	6	6	1	17	0	6	6	3	0	2	0
## 113	113	12	4	4	0	0	0	0	0	0	0	0
## 114	114	4	5	2	0	0	2	2	0	0	0	0
## 115	115	3	1	2	0	0	0	0	0	0	0	0
## 116	116	0	0	0	0	1	0	10	17	0	8	1
## 117	117	0	6	0	6	3	1	1	4	1	3	10
## 118	118	0	0	1	20	15	11	5	24	6	11	0
## 119	119	3	8	2	0	21	7	19	33	4	16	5
## 120	120	0	1	1	4	11	10	5	2	0	0	0
## 121	121	2	3	10	0	3	0	0	0	0	0	0
## 122	122	0	0	0	0	0	0	6	9	0	4	0
## 123	123	0	0	0	0	0	0	22	7	37	11	4
## 124	124	9	7	4	0	0	0	0	0	0	0	0
## 125	125	0	1	3	2	6	13	2	2	0	1	0
## 126	126	0	0	0	2	2	0	9	9	0	4	0
## 127	127	0	0	0	6	6	10	3	1	0	0	0
## 128	128	0	1	1	2	0	0	0	0	0	0	1
## 129	129	0	0	2	8	8	4	24	24	0	6	0
## 130	130	0	0	0	0	0	0	0	4	28	0	17
## 131	131	0	0	3	0	0	0	0	0	0	0	0
## 132	132	0	0	0	0	0	0	0	0	10	9	4
## 133	133	0	0	0	5	0	3	0	0	0	0	0
## 134	134	0	0	0	0	0	0	1	0	3	2	6
## 135	135	0	0	0	0	1	7	0	13	0	0	0
## 136	136	0	0	0	1	1	0	0	0	0	0	0
## 137	137	1	1	5	0	5	0	1	3	0	1	0
## 138	138	1	0	1	1	2	0	0	0	3	0	0
## 139	139	0	0	0	0	0	0	0	0	14	0	1
## 140	140	2	2	6	0	3	4	1	5	0	2	0
## 141	141	0	0	0	0	0	0	0	2	0	1	0

## 142	142	0	0	0	0	0	0	1	0	0	0	0
## 143	143	0	0	0	0	0	0	1	0	1	6	6
## 144	144	4	14	7	0	0	0	0	0	0	0	0
## 145	145	1	3	1	1	1	0	0	0	0	0	0
## 146	146	0	0	0	0	0	0	0	0	0	0	0
## 147	147	0	0	0	0	4	7	2	2	4	0	0
## 148	148	0	0	0	2	5	7	6	11	1	2	0
## 149	149	14	10	6	0	0	0	0	0	0	0	0
## 150	150	1	2	0	2	2	6	1	4	4	10	17
## 151	151	0	0	0	0	0	0	0	0	8	2	16
## 152	152	0	0	0	0	0	0	0	1	2	7	12
## 153	153	2	1	3	8	2	1	0	2	10	10	7
## 154	154	2	5	2	0	2	0	8	9	2	5	3
## 155	155	14	6	2	0	0	0	0	0	0	0	0
## 156	156	4	0	1	0	0	3	3	2	0	2	2
## 157	157	7	4	5	0	0	0	0	0	0	0	0
## 158	158	1	1	0	3	0	3	3	5	0	2	0
## 159	159	0	0	0	3	3	0	2	3	0	0	0
## 160	160	13	3	5	0	0	0	0	0	0	0	0
## 161	161	1	5	2	2	5	6	1	1	0	0	1
## 162	162	5	4	1	1	0	3	0	0	1	0	2
## 163	163	0	0	1	1	0	0	0	0	0	0	0
## 164	164	1	1	0	1	0	0	6	5	4	2	13
## 165	165	0	0	0	0	0	0	0	0	25	0	0
## 166	166	0	3	0	0	0	0	0	0	1	1	1
## 167	167	4	1	2	3	3	2	2	1	0	1	2
## 168	168	0	0	0	0	0	3	0	0	0	0	0
## 169	169	11	8	15	0	0	0	0	0	0	0	0
## 170	170	0	1	9	0	0	2	1	0	1	0	2
## 171	171	2	7	3	8	3	11	5	8	0	0	0
## 172	172	6	5	6	0	1	0	2	8	3	6	1
## 173	173	0	0	0	5	0	1	3	2	2	0	0
## 174	174	0	0	0	3	2	2	4	4	0	0	1
## 175	175	1	1	2	2	1	4	0	0	0	0	0
## 176	176	0	3	2	1	12	16	5	4	0	0	0
## 177	177	4	0	4	0	0	0	0	0	0	0	0
## 178	178	4	3	3	7	6	0	11	5	4	10	1
## 179	179	4	1	1	6	1	2	2	9	0	2	8
## 180	180	0	1	1	1	2	3	1	3	0	0	0
## 181	181	0	0	0	0	0	0	1	0	3	2	4
## 182	182	0	0	0	0	0	0	0	0	22	0	0
## 183	183	1	0	0	0	0	0	1	0	0	0	0
## 184	184	0	0	3	0	0	6	1	2	0	0	0
## 185	185	2	2	2	1	1	8	0	1	0	0	1
## 186	186	1	2	3	2	4	3	0	1	0	0	0
## 187	187	0	2	1	3	2	2	1	2	0	6	3
## 188	188	7	5	2	0	0	6	0	1	0	0	0
## 189	189	13	6	12	0	0	0	0	0	5	0	0
## 190	190	0	0	0	0	8	9	1	1	0	3	0
## 191	191	0	0	0	0	2	3	2	3	0	1	0
## 192	192	2	2	3	0	0	0	0	0	0	0	0
## 193	193	5	6	3	0	0	0	0	0	0	0	0
## 194	194	2	8	0	0	0	0	0	0	1	0	1
## 195	195	0	0	0	0	0	0	0	0	11	0	0

## 196	196	0	0	0	0	0	0	0	0	0	0	0	12
## 197	197	0	1	0	0	0	0	0	0	6	0	0	0
## 198	198	2	1	0	0	1	0	0	0	3	2	2	
## 199	199	0	0	0	0	3	3	1	1	0	0	1	
## 200	200	0	0	0	0	0	1	0	2	4	0	8	
## 201	201	2	5	7	0	0	1	0	0	0	0	0	
## 202	202	2	1	0	6	1	15	0	0	1	0	3	
## 203	203	0	1	0	1	1	1	9	5	18	10	7	
## 204	204	2	1	0	0	1	0	0	0	0	0	0	
## 205	205	0	8	4	2	0	6	5	5	0	2	0	
## 206	206	0	1	0	0	0	3	0	0	0	0	0	
## 207	207	1	2	2	1	9	4	4	0	0	0	0	
## 208	208	0	3	0	4	1	5	0	0	0	1	0	
## 209	209	0	0	0	0	2	0	0	1	2	0	0	
## 210	210	0	0	0	5	0	4	0	1	0	0	0	
## 211	211	4	3	6	0	0	0	0	0	0	0	0	
## 212	212	0	0	0	0	5	1	1	3	1	0	0	
## 213	213	0	8	2	3	0	0	0	0	0	0	0	
## 214	214	1	1	0	1	3	3	3	5	0	0	2	
## 215	215	0	0	0	0	0	0	1	0	0	0	0	
## 216	216	0	0	0	3	1	4	2	10	0	0	0	
## 217	217	0	3	2	1	0	0	7	11	12	5	16	
## 218	218	1	0	0	0	0	0	4	3	3	1	6	
## 219	219	0	4	1	2	0	3	2	6	0	2	0	
## 220	220	0	0	0	0	0	0	0	0	7	0	6	
## 221	221	10	13	8	0	10	0	1	0	0	0	0	
## 222	222	3	2	6	1	0	0	0	0	0	0	1	
## 223	223	0	0	0	0	0	0	0	0	4	0	0	
## 224	224	0	0	0	13	2	0	1	0	0	0	0	
## 225	225	3	2	0	0	3	0	3	2	0	0	0	
## 226	226	0	0	1	1	4	1	2	3	0	1	0	
## 227	227	0	0	0	3	2	3	0	6	2	2	0	
## 228	228	4	11	9	1	6	1	11	6	1	4	3	
## 229	229	0	2	0	0	0	0	0	0	0	3	2	
## 230	230	1	0	0	8	2	4	1	8	0	0	0	
## 231	231	7	10	4	2	0	1	1	0	0	0	0	
## 232	232	1	1	1	6	3	2	0	6	6	3	1	
## 233	233	1	0	0	2	0	0	4	0	1	5	13	
## 234	234	0	0	0	3	0	0	0	2	0	0	1	
## 235	235	8	8	3	1	0	0	0	0	0	0	0	
## 236	236	1	0	0	1	1	1	0	0	0	0	0	
## 237	237	0	0	0	0	0	0	1	0	4	7	1	
## 238	238	0	0	0	0	0	0	4	8	0	2	7	
## 239	239	6	2	9	1	5	6	0	3	0	0	0	
## 240	240	0	1	1	2	0	0	6	6	3	6	4	
## 241	241	0	0	0	1	0	0	5	0	0	0	0	
## 242	242	0	0	0	0	4	3	1	0	0	0	0	
## 243	243	0	0	0	0	0	0	0	0	1	0	0	
## 244	244	0	0	0	0	0	3	0	0	0	0	0	
## 245	245	0	0	0	0	0	0	5	0	0	6	3	
## 246	246	0	0	0	3	0	5	3	1	0	0	0	
## 247	247	0	0	0	1	10	3	2	3	0	1	0	
## 248	248	0	0	0	0	0	1	2	1	0	0	1	
## 249	249	0	2	0	0	6	0	1	1	0	0	0	

## 250	250	0	0	0	1	0	1	2	2	1	2	1
## 251	251	0	0	0	0	0	2	0	0	1	0	0
## 252	252	1	0	1	2	2	7	4	0	0	0	1
## 253	253	0	0	0	1	5	1	1	4	0	2	0
## 254	254	0	2	1	2	3	0	0	0	0	0	0
## 255	255	0	0	0	1	6	4	3	2	0	0	0
## 256	256	1	0	0	3	0	3	5	2	0	2	1
## 257	257	0	0	0	0	5	2	3	2	0	0	0
## 258	258	0	2	0	0	0	0	7	4	0	2	1
## 259	259	0	0	0	5	2	1	0	0	0	0	0
## 260	260	0	0	0	3	3	1	2	5	0	2	0
## 261	261	0	1	0	0	0	0	2	12	0	0	3
## 262	262	0	0	0	6	5	6	4	7	2	0	0
## 263	263	0	2	6	12	0	0	5	6	0	0	0
## 264	264	0	0	0	0	0	0	9	5	0	0	0
## 265	265	0	1	0	1	6	0	0	0	0	0	1
## 266	266	0	1	0	0	8	9	3	2	4	2	0
## 267	267	0	0	0	7	4	5	0	0	0	0	0
## 268	268	2	0	0	0	4	1	0	2	1	3	0
## 269	269	0	0	0	0	0	0	0	5	0	0	0
## 270	270	1	4	3	0	1	0	0	0	0	0	0
## 271	271	2	2	1	0	2	5	0	0	0	0	0
## 272	272	2	0	0	0	0	0	0	0	0	2	0
## 273	273	0	0	1	1	1	0	0	2	0	0	2
## 274	274	0	0	0	14	3	6	0	0	0	0	0
## 275	275	0	0	0	7	0	0	0	0	0	0	0
## 276	276	0	1	0	5	0	1	2	2	1	0	0
## 277	277	1	0	0	2	0	0	2	1	3	1	0
## 278	278	0	1	1	0	0	0	0	0	0	0	0
## 279	279	0	1	1	0	1	4	0	0	0	0	0
## 280	280	7	1	0	0	0	0	0	0	0	0	0
## 281	281	1	1	0	0	2	1	0	6	0	0	1
## 282	282	0	0	0	0	0	0	5	0	0	0	0
## 283	283	0	3	0	1	0	0	4	1	0	1	2
## 284	284	0	1	3	0	0	0	0	0	2	1	3
## 285	285	0	0	0	0	0	0	0	0	0	0	1
## 286	286	2	2	0	1	2	0	3	1	0	3	5
## 287	287	9	1	0	0	0	0	0	0	0	0	0
## 288	288	0	0	0	0	0	0	1	5	0	7	3
## 289	289	0	0	0	0	0	0	0	1	7	1	6
## 290	290	1	0	0	0	0	0	1	0	2	1	1
## 291	291	0	1	0	0	0	0	12	8	9	14	1
## 292	292	0	2	2	0	0	0	0	0	0	0	0
## 293	293	0	0	0	0	0	0	1	0	1	2	1
## 294	294	0	0	0	0	0	2	0	0	0	1	0
## 295	295	0	0	0	0	0	0	2	0	0	9	5
## 296	296	0	2	0	1	7	8	0	3	1	0	1
## 297	297	1	4	0	6	0	0	4	7	0	5	0
## 298	298	0	0	0	0	7	0	3	0	0	5	0
## 299	299	0	0	0	1	2	3	3	1	1	4	0
## 300	300	1	0	1	6	1	5	1	4	1	2	0
## 301	301	2	1	6	0	0	0	2	1	0	0	0
## 302	302	2	1	0	1	2	1	10	14	0	1	4
## 303	303	0	0	0	0	0	0	1	0	2	2	7

## 304	304	0	0	0	0	0	0	0	0	0	0	1	1
## 305	305	0	0	0	4	0	0	0	0	0	0	0	0
## 306	306	0	0	0	0	0	0	0	0	0	5	1	2
## 307	307	0	0	0	3	1	2	1	3	0	1	0	0
## 308	308	4	4	2	0	0	0	0	0	0	0	0	0
## 309	309	1	2	1	0	2	3	2	8	0	0	0	0
## 310	310	0	1	1	6	4	3	0	0	0	0	0	0
## 311	311	0	0	0	0	9	2	2	1	0	0	0	0
## 312	312	0	1	2	0	5	6	0	0	0	0	0	0
## 313	313	0	0	0	0	6	8	0	0	0	0	0	0
## 314	314	2	3	10	0	0	0	0	0	0	0	0	0
## 315	315	1	0	0	6	0	3	0	0	0	0	0	0
## 316	316	0	0	0	0	0	0	2	8	0	0	0	0
## 317	317	7	5	3	0	0	0	0	0	0	0	0	0
## 318	318	1	0	1	0	0	0	0	0	0	7	0	0
## 319	319	1	2	2	4	3	2	13	7	7	7	5	
## 320	320	0	2	0	0	0	0	0	10	1	1	0	1
## 321	321	0	1	0	0	0	0	0	3	1	0	1	0
## 322	322	0	0	0	4	2	1	1	0	2	2	0	
## 323	323	0	0	1	0	0	3	0	0	0	1	2	0
## 324	324	0	0	0	0	0	0	0	0	0	1	0	0
## 325	325	0	0	0	0	0	0	0	0	0	5	1	3
## 326	326	0	0	2	2	16	7	1	0	4	0	0	
## 327	327	0	0	0	0	0	0	0	2	3	3	0	0
## 328	328	0	0	0	2	0	0	5	3	1	6	0	
## 329	329	0	0	1	0	0	0	0	7	0	0	0	
## 330	330	2	1	2	1	0	0	0	0	0	0	0	
## 331	331	1	0	2	9	9	1	3	2	0	0	0	
## 332	332	0	0	0	0	2	4	0	0	0	0	0	
## 333	333	5	10	10	0	3	2	0	1	0	0	0	
## 334	334	0	0	0	0	0	0	0	0	0	0	0	
## 335	335	0	2	1	1	2	0	0	0	0	0	0	
## 336	336	0	0	0	0	6	0	1	0	0	0	0	
## 337	337	5	0	1	2	0	0	0	0	0	0	0	2
## 338	338	0	0	0	0	0	2	0	0	0	0	0	0
## 339	339	0	0	0	3	0	0	1	3	0	2	6	
## 340	340	0	0	1	5	1	2	0	0	0	0	0	
## 341	341	6	3	2	9	4	4	6	2	0	0	0	
## 342	342	0	0	0	0	0	0	0	0	6	0	0	
## 343	343	0	0	0	0	0	0	0	0	0	0	0	6
## 344	344	0	2	0	3	4	1	0	0	0	0	0	
## 345	345	2	1	1	0	0	1	0	1	0	0	0	
## 346	346	6	3	0	0	0	0	0	0	0	0	0	
## 347	347	1	0	1	0	0	2	7	7	5	2	13	
## 348	348	0	0	0	1	3	0	3	5	0	1	0	
## 349	349	0	0	0	1	0	4	0	2	0	0	0	
## 350	350	0	0	0	0	0	0	9	7	0	2	0	
## 351	351	0	0	0	0	1	3	0	0	0	0	0	
## 352	352	0	0	0	0	0	0	3	7	0	2	0	
## 353	353	0	2	2	0	0	3	0	1	0	0	0	
## 354	354	0	0	0	0	8	0	0	0	0	0	0	
## 355	355	1	0	1	0	0	0	2	3	3	2	4	
## 356	356	1	4	0	3	1	3	0	0	0	0	0	2
## 357	357	2	5	2	7	8	8	17	8	0	2	1	

## 358	358	0	0	0	0	0	0	1	0	0	1	1
## 359	359	3	4	2	0	0	0	0	0	0	0	3
## 360	360	0	0	0	0	0	0	0	0	0	0	0
## 361	361	2	1	2	0	0	0	0	0	0	0	0
## 362	362	1	4	0	0	0	3	23	10	1	3	3
## 363	363	1	0	2	1	3	0	4	1	2	4	5
## 364	364	4	0	0	0	0	3	0	0	0	0	0
## 365	365	1	0	0	0	0	0	0	0	0	0	7
## 366	366	0	1	0	3	0	10	0	0	1	1	0
## 367	367	1	0	0	1	1	0	0	0	0	0	0
## 368	368	0	1	0	1	0	0	1	4	1	2	3
## 369	369	0	0	0	1	1	3	2	2	1	3	0
## 370	370	0	1	2	1	3	1	1	5	0	2	0
## 371	371	0	2	3	4	0	1	11	17	6	2	2
## 372	372	0	1	0	4	0	2	2	2	1	1	6
## 373	373	2	1	7	0	0	0	0	0	0	0	0
## 374	374	2	1	2	8	4	12	0	4	0	1	1
## 375	375	0	1	1	0	0	0	0	0	7	1	3
## 376	376	1	1	0	0	0	0	1	2	0	0	0
## 377	377	0	1	0	2	0	1	1	1	0	0	0
## 378	378	7	6	0	0	0	0	0	0	0	0	0
## 379	379	0	0	0	2	0	1	9	0	0	0	0
## 380	380	1	0	2	0	0	0	0	0	0	0	0
## 381	381	2	0	6	0	0	0	0	0	0	0	0
## 382	382	0	0	0	0	0	0	0	0	0	0	0
## 383	383	10	1	17	0	0	0	0	0	0	0	0
## 384	384	0	1	1	1	0	0	3	3	0	0	0
## 385	385	0	0	3	0	10	0	0	2	0	0	0
## 386	386	0	0	0	0	0	0	5	1	0	4	0
## 387	387	0	0	0	0	0	0	1	0	6	0	0
## 388	388	0	0	0	0	0	0	0	0	0	0	0
## 389	389	0	0	0	0	0	0	0	1	3	1	0
## 390	390	0	0	0	0	0	0	1	1	0	3	2
## 391	391	2	0	0	1	0	1	3	5	2	4	5
## 392	392	0	0	0	2	0	1	1	0	0	2	0
## 393	393	3	3	1	2	1	0	0	0	0	0	0
## 394	394	0	0	0	0	0	0	0	0	8	1	0
## 395	395	0	3	0	0	0	0	0	0	0	0	0
## 396	396	1	2	1	0	0	0	0	0	0	1	0
## 397	397	0	0	0	0	0	0	0	0	0	0	5
## 398	398	0	0	0	1	0	1	1	1	0	0	0
## 399	399	0	0	0	0	0	0	0	6	0	0	0
## 400	400	0	0	0	0	0	0	4	0	12	3	1
## 401	401	0	0	0	0	0	0	0	0	0	0	0
## 402	402	0	0	0	10	0	0	0	0	0	0	0
## 403	403	2	6	0	2	0	0	4	4	0	0	3
## 404	404	0	2	2	0	2	7	1	3	0	0	0
## 405	405	0	0	0	1	0	2	10	7	0	0	0
## 406	406	0	0	0	1	2	2	1	0	0	0	0
## 407	407	0	0	0	0	0	0	0	0	7	0	0
## 408	408	2	0	0	0	1	0	0	0	2	0	0
## 409	409	0	0	0	1	1	0	0	0	0	0	0
## 410	410	0	0	0	0	0	0	0	0	0	0	0
## 411	411	0	0	0	0	0	0	0	1	13	4	9

## 412	412	0	2	0	1	0	0	4	0	0	2	4
## 413	413	6	1	8	0	0	0	0	0	0	0	0
## 414	414	0	0	0	1	1	0	1	0	0	0	1
## 415	415	0	0	0	0	1	4	0	2	0	0	0
## 416	416	0	1	0	0	4	3	0	0	0	0	0
## 417	417	0	2	0	0	0	0	0	0	0	0	0
## 418	418	0	0	0	1	2	0	1	4	5	0	1
## 419	419	0	1	0	0	0	0	1	1	2	0	5
## 420	420	0	0	0	0	0	0	2	0	0	0	1
## 421	421	0	0	0	2	0	0	0	0	0	0	0
## 422	422	0	0	0	1	2	0	0	5	0	0	0
## 423	423	0	0	0	0	1	0	0	0	1	0	0
## 424	424	0	0	0	0	0	1	4	0	0	3	0
## 425	425	0	0	1	2	0	0	0	0	0	1	2
## 426	426	0	0	0	0	0	0	0	0	0	0	0
## 427	427	0	3	0	0	0	0	0	0	0	0	0
## 428	428	0	1	0	9	0	0	0	0	0	0	0
## 429	429	0	0	0	0	0	0	0	0	0	0	0
## 430	430	0	0	0	1	0	0	3	1	6	0	1
## 431	431	1	0	0	0	0	0	0	1	1	0	0
## 432	432	0	0	0	0	0	0	0	0	3	0	0
## 433	433	0	0	0	0	0	0	2	0	1	4	1
## 434	434	0	0	0	0	0	0	0	0	0	0	0
## 435	435	0	1	1	0	0	2	0	0	0	0	0
## 436	436	0	0	0	0	5	2	0	4	0	0	0
## 437	437	0	1	1	5	10	0	0	1	0	3	0
## 438	438	1	0	3	1	4	0	0	0	0	0	0
## 439	439	0	0	0	0	0	0	0	0	11	0	0
## 440	440	0	1	0	0	4	1	2	4	0	0	0
## 441	441	0	0	0	0	0	0	0	0	0	0	0
## 442	442	0	0	0	0	0	0	2	0	0	8	4
## 443	443	0	0	0	1	2	1	1	0	1	2	0
## 444	444	0	0	0	0	0	0	8	0	1	4	4
## 445	445	0	0	10	0	0	0	0	0	0	0	0
## 446	446	0	0	0	0	0	0	0	3	0	2	0
## 447	447	0	0	0	1	0	3	0	0	1	0	0
## 448	448	1	0	1	2	1	10	1	0	0	0	0
## 449	449	0	0	0	0	0	0	0	1	3	1	2
## 450	450	0	0	0	0	0	0	0	0	4	3	4
## 451	451	7	0	1	0	0	0	0	0	0	0	0
## 452	452	0	0	0	2	3	1	2	2	0	0	0
## 453	453	0	0	0	2	0	2	9	1	0	0	0
## 454	454	0	4	1	0	1	0	0	5	0	0	0
## 455	455	0	0	0	0	0	0	2	7	0	1	1
## 456	456	1	2	1	0	0	0	0	0	0	0	0
## 457	457	0	0	2	0	3	1	2	2	0	0	0
## 458	458	0	0	0	1	6	0	4	3	4	4	1
## 459	459	1	0	0	1	0	0	0	1	3	1	0
## 460	460	0	0	1	1	0	0	0	0	0	2	0
## 461	461	0	0	0	0	0	0	1	3	3	7	3
## 462	462	0	0	0	0	0	0	0	0	1	3	0
## 463	463	1	2	3	0	1	0	0	0	0	0	0
## 464	464	0	0	1	2	0	0	2	5	5	0	11
## 465	465	0	0	7	0	1	0	0	0	0	0	0

## 466	466	0	0	0	0	3	2	0	3	0	0	0
## 467	467	0	0	0	3	0	0	5	1	0	0	0
## 468	468	0	6	2	0	2	1	3	0	0	1	0
## 469	469	0	0	0	0	0	0	0	0	0	0	1
## 470	470	0	0	0	0	0	0	0	0	1	1	0
## 471	471	0	1	0	1	0	5	0	0	0	0	0
## 472	472	0	0	0	0	0	0	0	0	2	0	1
## 473	473	0	0	0	0	0	0	0	0	0	0	0
## 474	474	0	0	0	3	0	0	0	0	1	0	0
## 475	475	3	5	2	0	0	0	0	0	0	1	0
## 476	476	0	0	0	0	0	0	0	0	3	1	1
## 477	477	0	0	0	1	1	0	3	3	1	1	1
## 478	478	0	0	0	0	0	0	9	1	0	0	0
## 479	479	0	0	0	0	0	0	0	0	4	0	0
## 480	480	0	0	0	0	1	0	0	0	4	0	0
## 481	481	0	0	0	1	2	2	1	1	0	0	0
## 482	482	1	1	0	0	0	1	2	0	0	1	0
## 483	483	0	0	0	4	0	0	0	0	0	0	0
## 484	484	0	0	0	0	4	0	1	0	0	1	0
## 485	485	0	0	0	5	0	1	0	0	0	0	0
## 486	486	3	0	0	0	0	2	1	0	0	1	0
## 487	487	0	1	0	0	3	0	3	1	0	0	0
## 488	488	1	0	1	0	0	4	1	0	0	0	0
## 489	489	2	13	0	0	0	0	0	0	0	0	0
## 490	490	0	3	3	5	21	8	2	4	0	0	0
## 491	491	0	0	0	0	1	1	1	9	0	1	0
## 492	492	0	0	0	0	0	0	0	2	0	1	0
## 493	493	0	0	0	0	0	0	0	0	0	0	0
## 494	494	1	0	1	2	0	0	0	1	0	0	0
## 495	495	0	0	0	1	0	3	1	0	0	0	0
## 496	496	0	0	0	2	0	1	3	2	0	0	0
## 497	497	0	3	0	0	0	0	0	0	0	0	0
## 498	498	0	0	0	5	0	0	0	0	0	0	0
## 499	499	0	0	0	0	0	0	0	0	6	0	3
## 500	500	4	3	2	0	0	0	0	0	3	3	3
## 501	501	0	0	0	4	0	0	5	1	0	0	0
## 502	502	0	0	0	0	0	0	2	0	4	6	5
## 503	503	0	0	0	3	6	1	1	0	0	1	0
## 504	504	1	0	0	2	1	0	1	7	1	0	0
## 505	505	0	0	0	0	3	0	3	0	0	0	0
## 506	506	0	0	0	0	0	1	1	0	0	1	0
## 507	507	7	1	3	0	0	0	0	0	0	0	0
## 508	508	0	0	0	0	0	0	9	0	0	0	0
## 509	509	0	0	0	0	0	0	0	0	0	0	2
## 510	510	0	1	0	0	0	1	2	0	0	0	0
## 511	511	0	0	0	1	2	2	2	1	0	1	2
## 512	512	0	1	1	6	1	0	4	0	0	0	2
## 513	513	0	0	1	0	2	0	2	1	0	2	0
## 514	514	0	0	0	0	0	0	0	0	0	0	0
## 515	515	0	0	0	0	0	0	0	0	0	0	0
## 516	516	0	0	0	0	0	0	0	0	0	0	0
## 517	517	0	0	1	0	0	0	0	0	0	0	0
## 518	518	2	3	0	0	0	0	0	0	1	2	1
## 519	519	0	0	1	0	0	0	1	0	0	0	0

##	520	520	3	5	0	0	0	0	3	0	0	0	0
##	521	521	4	11	3	0	0	0	0	0	0	0	0
##	522	522	0	0	3	0	2	3	0	1	0	0	0
##	523	523	0	2	3	2	0	0	2	5	0	0	0
##	524	524	0	0	0	1	4	1	1	1	0	0	0
##	525	525	0	1	0	0	0	0	0	0	0	0	0
##	526	526	2	0	1	0	0	0	0	0	0	0	0
##	527	527	0	0	0	0	0	0	5	0	0	0	0
##	528	528	0	0	1	0	1	2	0	0	1	0	0
##	529	529	0	0	0	3	0	2	0	0	0	0	0
##	530	530	2	0	0	0	0	0	0	0	0	0	0
##	531	531	0	0	0	0	0	0	0	0	0	0	0
##	532	532	4	0	0	0	0	0	0	0	0	0	0
##	533	533	0	2	0	0	0	3	1	0	0	1	1
##	534	534	0	0	0	0	0	0	0	0	0	0	9
##	535	535	0	0	0	0	0	0	0	0	0	0	0
##	536	536	2	0	0	0	9	4	2	0	0	0	0
##	537	537	0	0	0	0	0	0	0	0	4	1	5
##	538	538	0	1	1	0	1	5	2	6	0	0	0
##	539	539	0	0	0	0	0	0	0	3	0	1	2
##	540	540	1	0	0	4	0	0	0	1	0	0	0
##	541	541	3	3	2	0	0	0	0	0	0	0	0
##	542	542	0	0	0	10	4	0	0	0	0	0	0
##	543	543	3	4	0	0	0	0	0	0	0	0	0
##	544	544	0	0	0	1	4	5	2	3	0	0	0
##	545	545	0	0	0	1	0	0	0	0	1	0	0
##	546	546	0	0	0	0	0	0	0	0	0	0	0
##	547	547	0	0	0	0	7	0	0	0	0	0	0
##	548	548	0	1	0	0	0	0	0	0	0	1	0
##	549	549	0	0	0	1	2	0	2	0	1	0	0
##	550	550	0	0	0	0	0	0	0	0	0	0	0
##	551	551	0	0	0	0	0	0	0	0	11	0	0
##	552	552	1	1	0	0	0	0	0	0	0	0	0
##	553	553	0	1	0	0	2	0	0	1	0	0	1
##	554	554	0	0	1	2	3	0	2	4	0	0	0
##	555	555	2	0	2	2	0	4	3	1	2	2	1
##	556	556	0	0	0	0	7	4	0	0	0	0	0
##	557	557	2	0	7	0	0	0	0	0	0	0	0
##	558	558	1	2	0	0	6	0	0	0	0	0	0
##	559	559	0	0	3	0	0	3	0	0	0	0	0
##	560	560	1	0	2	0	3	0	1	2	0	0	0
##	561	561	0	0	0	0	0	0	0	4	0	1	0
##	562	562	0	0	0	1	3	0	1	0	0	0	0
##	563	563	0	2	0	0	0	0	0	0	0	3	1
##	564	564	2	1	0	0	1	0	0	0	0	0	0
##	565	565	2	4	2	0	0	0	0	0	0	0	0
##	566	566	2	0	0	0	0	0	0	0	0	0	0
##	567	567	0	0	0	0	0	0	0	0	0	2	1
##	568	568	0	0	1	0	2	3	4	3	0	0	0
##	569	569	0	0	0	0	0	0	0	0	0	0	0
##	570	570	0	1	1	0	0	0	0	0	0	0	0
##	571	571	0	0	0	0	1	4	1	0	0	0	0
##	572	572	0	3	0	0	0	0	0	0	0	0	0
##	573	573	0	0	0	0	0	0	0	0	0	0	0

## 574	574	2	0	0	1	1	0	0	0	2	2	3
## 575	575	0	0	0	0	2	3	3	1	0	0	0
## 576	576	1	1	0	1	4	4	0	0	0	0	0
## 577	577	1	0	0	1	0	0	0	5	3	2	0
## 578	578	3	2	6	0	16	1	0	0	0	0	0
## 579	579	4	0	2	6	0	2	0	0	0	0	0
## 580	580	0	0	0	0	0	0	0	0	3	0	0
## 581	581	0	0	1	0	0	2	1	0	0	0	0
## 582	582	0	0	0	0	0	0	0	0	0	1	0
## 583	583	0	0	0	0	0	0	1	0	6	2	1
## 584	584	0	0	0	0	0	0	4	2	0	0	0
## 585	585	0	0	0	0	0	0	0	0	0	1	0
## 586	586	0	1	0	2	6	0	0	0	0	0	0
## 587	587	1	0	1	1	1	0	0	0	0	0	0
## 588	588	0	0	0	0	2	1	1	0	0	1	3
## 589	589	1	0	1	0	1	7	0	0	0	0	0
## 590	590	0	0	0	0	4	3	0	0	0	0	0
## 591	591	0	0	0	5	1	1	0	2	0	0	0
## 592	592	0	0	0	0	0	0	0	0	1	2	1
## 593	593	0	0	0	0	0	0	3	0	2	0	1
## 594	594	0	0	3	0	0	0	0	1	0	0	0
## 595	595	0	0	0	0	0	0	0	0	9	2	3
## 596	596	0	0	0	6	0	0	1	0	0	1	1
## 597	597	0	0	0	1	0	0	2	6	0	0	3
## 598	598	0	0	0	0	0	0	0	0	0	1	1
## 599	599	0	0	0	0	2	2	1	0	0	0	0
## 600	600	0	0	0	5	0	0	4	0	8	0	0
## 601	601	0	0	0	0	0	0	0	0	0	1	1
## 602	602	0	0	0	1	0	0	1	2	3	1	4
## 603	603	0	0	0	0	2	0	0	1	0	0	0
## 604	604	0	0	0	0	10	1	1	3	0	1	0
## 605	605	0	0	1	7	0	0	0	0	0	0	0
## 606	606	0	2	1	3	0	0	6	2	0	2	1
## 607	607	1	1	1	0	0	0	0	0	0	0	0
## 608	608	0	0	0	0	0	0	0	1	0	0	0
## 609	609	0	0	0	0	0	0	1	0	5	0	4
## 610	610	2	2	0	2	0	1	0	0	1	0	3
## 611	611	0	0	0	3	2	1	0	0	0	0	0
## 612	612	0	0	0	2	0	5	3	4	0	0	0
## 613	613	0	0	0	0	0	0	0	0	1	4	4
## 614	614	0	0	0	0	0	0	0	0	4	0	0
## 615	615	0	0	0	0	0	0	2	0	1	0	0
## 616	616	0	0	0	0	0	1	0	0	0	0	0
## 617	617	0	0	0	2	2	1	0	1	3	0	5
## 618	618	1	4	0	0	0	0	0	0	0	0	0
## 619	619	0	0	0	0	5	3	1	0	0	0	0
## 620	620	0	1	0	0	1	0	0	0	8	2	0
## 621	621	2	2	4	0	0	0	0	0	0	0	0
## 622	622	0	0	0	0	1	2	0	5	0	0	0
## 623	623	0	0	0	0	0	0	2	1	1	0	1
## 624	624	0	0	0	6	3	3	2	0	0	0	0
## 625	625	0	0	0	0	0	0	0	0	4	0	4
## 626	626	1	4	3	0	0	0	0	0	0	0	0
## 627	627	0	0	0	1	0	0	0	7	0	0	0

## 628	628	0	0	0	0	0	0	0	0	0	0	0	0
## 629	629	0	0	0	0	0	0	1	0	5	2	12	
## 630	630	0	0	0	0	0	0	0	0	3	0	0	
## 631	631	0	0	0	1	2	9	0	0	0	0	0	
## 632	632	0	0	0	0	0	8	0	0	0	0	0	
## 633	633	0	0	0	10	3	2	2	2	0	1	0	
## 634	634	0	1	0	2	0	0	3	0	0	0	0	
## 635	635	0	0	0	0	0	3	1	1	0	0	0	
## 636	636	0	0	0	0	0	0	0	0	9	1	0	
## 637	637	0	0	0	2	5	4	3	2	0	0	0	
## 638	638	0	1	1	0	0	0	0	0	0	0	0	
## 639	639	0	0	0	4	0	0	2	2	0	0	1	
## 640	640	0	0	1	0	0	0	0	2	0	0	0	
## 641	641	0	0	0	0	5	0	1	0	0	0	0	
## 642	642	0	2	1	2	1	3	5	0	0	0	3	
## 643	643	0	2	0	0	0	0	0	2	0	0	0	
## 644	644	1	2	0	0	3	0	0	0	0	0	0	
## 645	645	0	0	0	0	0	0	1	1	3	2	1	
## 646	646	0	0	0	0	0	0	0	0	0	0	0	
## 647	647	0	0	0	0	2	0	1	0	0	0	0	
## 648	648	0	0	0	1	3	2	0	2	2	0	0	
## 649	649	0	0	0	0	0	0	0	0	0	0	0	
## 650	650	0	0	0	0	0	0	0	0	0	0	0	
## 651	651	0	0	0	0	4	0	1	0	0	0	0	
## 652	652	0	0	0	0	0	5	0	0	0	0	1	
## 653	653	0	1	0	0	0	0	3	3	0	0	0	
## 654	654	0	0	0	0	2	5	0	0	0	0	0	
## 655	655	0	0	0	0	0	0	0	0	0	0	1	
## 656	656	0	0	0	0	0	0	0	0	6	1	1	
## 657	657	0	0	0	0	0	0	0	0	1	1	0	
## 658	658	0	0	0	0	1	0	1	3	0	0	0	
## 659	659	2	1	3	1	3	0	0	0	0	0	0	
## 660	660	0	0	0	1	0	1	1	6	0	3	4	
## 661	661	0	0	0	7	0	0	0	0	0	0	0	
## 662	662	0	0	1	0	0	0	0	0	0	0	0	
## 663	663	0	2	0	4	0	0	0	1	0	0	0	
## 664	664	1	0	0	0	1	0	1	0	1	0	0	
## 665	665	0	0	0	0	0	0	1	0	1	1	1	
## 666	666	0	0	0	0	0	2	0	0	0	0	0	
## 667	667	0	0	3	1	4	0	0	0	0	0	0	
## 668	668	0	0	0	0	0	0	0	0	3	0	0	
## 669	669	0	0	0	0	0	0	8	0	0	1	0	
## 670	670	0	1	0	3	0	5	0	2	0	2	2	
## 671	671	0	0	0	0	1	0	1	0	0	2	0	
## 672	672	0	0	0	0	0	0	1	0	0	0	0	
## 673	673	0	0	4	1	5	4	0	0	2	1	0	
## 674	674	0	0	0	0	0	0	4	2	8	4	3	
## 675	675	4	2	0	0	0	0	0	0	0	0	0	
## 676	676	0	0	0	0	0	0	13	2	2	5	0	
## 677	677	0	0	0	0	0	0	3	1	10	4	0	
## 678	678	5	0	1	0	0	0	0	0	0	0	0	
## 679	679	0	1	1	1	0	3	1	2	0	0	0	
## 680	680	0	0	0	2	1	0	2	0	0	0	0	
## 681	681	0	0	0	0	0	0	0	0	0	0	0	

##	682	682	0	0	0	0	0	0	0	0	0	1	0
##	683	683	1	1	0	0	0	7	0	0	0	0	0
##	684	684	0	0	0	0	0	0	0	0	0	0	0
##	685	685	0	0	0	1	0	0	0	0	0	0	0
##	686	686	0	0	0	4	1	6	0	0	0	0	0
##	687	687	0	0	0	0	0	0	0	0	0	0	0
##	688	688	0	1	0	0	2	5	1	0	0	2	0
##	689	689	0	0	0	0	0	0	0	0	0	1	3
##	690	690	0	0	0	0	0	0	0	0	4	0	0
##	691	691	1	1	0	2	0	0	2	2	0	0	0
##	692	692	1	2	1	0	0	0	0	0	0	0	1
##	693	693	0	1	0	1	1	2	0	3	0	0	1
##	694	694	0	0	0	0	0	1	1	0	0	0	0
##	695	695	0	0	0	0	0	0	0	0	0	0	0
##	696	696	2	4	1	0	0	0	0	0	0	0	0
##	697	697	0	0	0	0	6	2	0	0	0	0	0
##	698	698	0	0	1	1	0	8	1	0	0	0	0
##	699	699	0	1	0	1	0	0	1	1	0	0	0
##	700	700	0	0	0	0	1	4	4	0	0	1	0
##	701	701	0	0	0	0	0	0	0	0	0	0	0
##	702	702	0	0	0	0	2	0	0	2	0	2	0
##	703	703	0	1	0	4	0	0	0	1	0	0	0
##	704	704	2	7	0	0	0	0	0	0	0	0	0
##	705	705	0	0	0	1	2	1	2	0	3	0	0
##	706	706	0	0	0	1	0	0	6	6	2	3	1
##	707	707	0	0	0	5	1	0	4	0	0	3	0
##	708	708	0	0	1	0	3	0	1	0	0	1	0
##	709	709	0	0	0	3	5	4	0	0	0	0	0
##	710	710	0	0	0	1	0	0	0	0	0	0	0
##	711	711	0	0	0	0	0	0	0	0	4	0	3
##	712	712	0	2	0	1	0	0	5	1	4	0	0
##	713	713	0	7	0	0	0	0	0	0	0	0	0
##	714	714	0	0	0	0	0	0	0	0	0	0	0
##	715	715	0	0	0	0	0	0	0	0	0	0	0
##	716	716	0	0	3	0	0	0	0	0	0	0	0
##	717	717	0	0	1	2	3	1	1	0	5	1	0
##	718	718	0	0	0	0	0	0	0	4	0	0	0
##	719	719	4	0	0	0	4	4	0	3	0	0	0
##	720	720	2	4	0	0	0	3	0	2	0	0	2
##	721	721	0	1	0	1	1	8	1	0	0	0	0
##	722	722	0	0	0	0	0	0	0	0	0	0	0
##	723	723	0	0	0	1	2	0	0	2	0	1	0
##	724	724	0	0	1	0	0	0	0	0	0	1	0
##	725	725	2	2	0	1	0	0	0	0	0	0	0
##	726	726	0	0	0	0	0	0	1	0	0	0	0
##	727	727	0	0	0	4	0	1	0	0	0	0	0
##	728	728	2	1	1	0	0	0	0	0	5	3	0
##	729	729	0	0	0	0	0	0	5	0	1	4	0
##	730	730	0	0	1	0	0	0	0	0	0	0	1
##	731	731	0	1	0	1	4	0	1	0	0	0	0
##	732	732	4	0	1	1	0	0	0	0	0	0	0
##	733	733	2	0	2	0	2	0	1	0	3	1	0
##	734	734	0	0	0	1	1	0	0	0	0	0	0
##	735	735	1	1	1	0	0	0	2	0	0	1	0

##	736	736	2	3	1	1	0	0	0	0	0	0	0
##	737	737	0	0	0	0	1	0	1	0	1	0	0
##	738	738	0	0	1	0	3	5	2	0	0	1	0
##	739	739	0	0	0	1	1	3	0	0	0	0	1
##	740	740	0	0	0	0	0	0	0	0	0	5	3
##	741	741	0	0	0	0	0	0	1	0	2	0	0
##	742	742	0	0	0	0	0	0	0	0	9	0	1
##	743	743	0	0	0	0	1	0	1	4	0	2	0
##	744	744	0	0	1	4	1	0	3	2	0	1	1
##	745	745	0	0	0	0	1	3	0	1	1	1	0
##	746	746	0	1	1	6	0	6	0	0	0	0	0
##	747	747	0	0	0	0	0	0	0	0	0	0	0
##	748	748	0	0	0	0	0	0	0	0	0	0	0
##	749	749	1	0	0	5	0	0	3	0	0	0	0
##	750	750	0	0	0	0	0	0	0	0	0	0	0
##	751	751	0	0	0	0	0	1	2	5	0	1	0
##	752	752	0	0	0	0	0	0	3	0	0	0	0
##	753	753	1	2	1	0	0	0	0	0	1	0	0
##	754	754	0	0	1	0	2	0	0	0	0	0	0
##	755	755	0	0	0	0	0	0	1	4	0	0	0
##	756	756	0	0	0	0	0	0	0	0	0	0	0
##	757	757	0	1	1	0	3	0	0	0	0	2	0
##	758	758	1	0	0	1	1	2	0	0	3	0	0
##	759	759	0	0	0	0	0	0	0	0	0	0	0
##	760	760	0	0	0	0	0	0	0	0	0	5	0
##	761	761	1	0	1	1	2	0	0	0	1	0	0
##	762	762	0	0	0	2	0	0	0	3	0	0	0
##	763	763	0	0	2	2	0	1	0	0	0	0	0
##	764	764	0	0	0	0	0	0	0	0	6	1	0
##	765	765	0	3	1	0	1	1	0	1	0	0	0
##	766	766	0	0	0	0	0	0	0	0	0	0	1
##	767	767	0	0	0	0	0	0	0	0	4	0	2
##	768	768	1	0	0	0	0	0	6	0	0	4	2
##	769	769	0	0	0	0	0	0	1	0	3	3	3
##	770	770	0	0	0	0	0	3	1	2	0	0	0
##	771	771	3	3	3	2	1	0	2	0	0	1	0
##	772	772	0	0	0	0	2	3	0	1	0	0	0
##	773	773	0	0	0	0	0	0	2	1	0	0	2
##	774	774	0	0	0	1	0	3	6	0	0	1	0
##	775	775	0	0	0	0	0	0	0	0	0	1	6
##	776	776	0	0	0	0	0	0	1	3	4	2	4
##	777	777	0	0	0	0	0	0	0	0	0	0	0
##	778	778	0	0	0	0	0	0	0	0	0	0	0
##	779	779	1	3	3	4	0	2	0	0	0	0	0
##	780	780	0	0	0	0	0	0	2	4	2	1	0
##	781	781	0	0	0	0	0	0	0	0	2	1	0
##	782	782	2	2	12	0	0	0	1	0	0	0	0
##	783	783	0	0	0	0	0	0	0	0	0	0	0
##	784	784	0	0	0	0	0	0	1	0	3	0	0
##	785	785	4	4	8	0	0	1	1	0	0	0	0
##	786	786	1	2	1	0	0	0	6	6	0	0	0
##	787	787	0	0	0	4	1	0	0	0	0	0	0
##	788	788	0	2	1	0	1	0	3	6	0	1	0
##	789	789	0	0	0	3	1	0	0	0	1	0	1

## 790	790	0	0	0	0	0	0	0	0	0	2	2
## 791	791	0	0	1	0	0	0	0	0	0	0	0
## 792	792	4	0	4	0	0	0	0	0	0	0	0
## 793	793	0	0	0	4	0	0	2	2	0	1	5
## 794	794	0	0	0	0	4	1	0	2	0	1	1
## 795	795	3	2	0	1	0	0	0	0	0	0	0
## 796	796	1	0	0	0	0	1	1	0	0	1	0
## 797	797	1	2	0	1	0	0	0	0	0	1	0
## 798	798	0	0	0	0	0	0	0	2	1	4	0
## 799	799	0	0	0	0	0	0	0	0	4	1	5
## 800	800	0	0	1	0	3	0	2	0	0	0	0
## 801	801	0	0	1	4	0	2	0	1	0	0	1
## 802	802	0	0	0	0	0	0	1	0	1	0	1
## 803	803	0	3	0	0	0	0	0	0	3	3	4
## 804	804	0	0	0	0	0	1	0	0	0	0	0
## 805	805	0	0	0	0	0	0	2	0	0	0	0
## 806	806	0	0	0	0	1	2	0	0	0	0	0
## 807	807	0	0	0	0	0	0	0	2	0	0	0
## 808	808	0	0	0	0	0	3	0	0	0	0	0
## 809	809	0	2	0	0	0	0	0	0	3	0	0
## 810	810	0	0	1	3	0	0	8	6	0	0	0
## 811	811	3	0	4	0	0	0	0	0	0	0	0
## 812	812	2	1	0	0	0	0	0	0	0	0	0
## 813	813	1	1	0	0	3	1	0	0	0	1	1
## 814	814	0	0	0	0	1	5	0	0	0	0	0
## 815	815	2	0	2	0	0	0	0	0	0	0	0
## 816	816	0	0	0	0	0	0	1	0	0	0	1
## 817	817	0	0	0	0	0	0	0	0	0	4	0
## 818	818	0	0	0	0	0	0	0	0	0	0	0
## 819	819	0	0	0	0	5	3	1	0	0	0	0
## 820	820	2	1	0	0	0	0	0	0	0	0	0
## 821	821	0	0	0	0	0	0	0	0	0	0	6
## 822	822	0	0	1	0	3	2	0	0	0	0	0
## 823	823	0	8	0	0	0	0	0	0	0	0	0
## 824	824	0	4	1	0	1	0	0	0	0	0	0
## 825	825	0	0	0	0	0	6	0	1	0	0	0
## 826	826	0	0	1	3	5	0	1	1	0	0	0
## 827	827	0	0	0	0	0	0	0	0	0	0	0
## 828	828	2	2	3	0	0	0	0	0	0	0	0
## 829	829	0	1	4	0	1	9	0	0	0	0	0
## 830	830	0	1	0	0	0	0	0	0	0	0	0
## 831	831	0	0	0	2	0	0	3	4	0	0	0
## 832	832	0	0	1	0	2	1	2	0	0	3	0
## 833	833	0	0	0	0	0	0	1	0	3	1	8
## 834	834	0	0	0	0	0	0	0	0	2	2	2
## 835	835	0	0	1	0	0	0	0	0	0	0	0
## 836	836	0	0	0	0	0	0	1	3	0	0	0
## 837	837	0	1	0	0	4	3	1	1	0	0	0
## 838	838	0	0	0	2	0	0	0	0	0	0	0
## 839	839	0	0	1	0	1	0	2	0	0	0	1
## 840	840	0	0	0	0	1	1	2	1	0	1	0
## 841	841	1	0	2	2	0	0	0	0	0	0	0
## 842	842	0	1	1	0	0	2	0	0	0	0	0
## 843	843	0	0	0	0	0	0	6	0	0	0	0

## 844	844	0	0	0	0	0	0	0	0	0	0	0	0
## 845	845	0	0	0	0	0	0	0	0	2	0	0	0
## 846	846	0	2	0	2	0	2	1	3	0	2	0	0
## 847	847	0	0	0	0	0	0	0	0	2	1	0	0
## 848	848	0	0	0	0	0	3	0	0	0	0	0	0
## 849	849	0	0	1	4	3	0	0	0	0	0	0	0
## 850	850	0	5	2	0	0	0	0	0	0	0	0	0
## 851	851	1	0	0	2	0	5	4	4	1	0	0	0
## 852	852	0	0	0	0	0	0	0	0	2	1	2	
## 853	853	0	0	0	2	3	1	0	0	0	0	0	0
## 854	854	0	0	0	0	1	3	1	0	0	0	0	0
## 855	855	1	1	2	0	0	0	0	0	0	0	0	3
## 856	856	0	0	0	0	0	0	0	0	0	3	2	0
## 857	857	0	0	0	1	1	3	0	0	0	0	0	1
## 858	858	0	0	0	0	0	1	0	0	0	0	1	1
## 859	859	0	0	1	0	0	0	0	0	0	0	0	0
## 860	860	0	3	0	1	1	0	1	0	0	0	0	0
## 861	861	1	0	0	0	0	1	1	0	0	0	0	0
## 862	862	7	0	1	0	0	0	0	0	0	0	0	0
## 863	863	0	0	0	3	0	0	1	0	0	0	3	0
## 864	864	0	0	0	0	0	0	0	0	0	0	0	0
## 865	865	0	0	0	0	0	2	0	0	0	0	0	0
## 866	866	0	0	0	0	0	0	1	0	1	0	1	
## 867	867	0	1	0	0	2	2	4	0	0	9	0	
## 868	868	0	0	0	0	1	0	0	5	0	0	0	
## 869	869	0	0	0	8	3	3	1	2	0	2	1	
## 870	870	0	0	0	0	0	0	1	0	0	1	0	
## 871	871	2	0	1	3	0	0	0	0	0	0	0	
## 872	872	1	0	0	0	0	0	1	6	1	1	1	
## 873	873	0	0	1	0	0	0	0	0	0	0	0	
## 874	874	0	0	0	0	5	0	1	0	0	0	0	
## 875	875	0	0	0	0	0	6	0	0	0	0	0	
## 876	876	0	0	0	3	5	2	1	0	0	0	1	
## 877	877	0	0	1	0	0	0	0	0	0	0	0	
## 878	878	0	0	0	0	0	0	0	0	0	1	1	
## 879	879	0	0	0	4	0	7	1	0	0	0	0	
## 880	880	0	0	0	2	0	0	0	0	0	2	0	
## 881	881	0	0	0	1	2	0	0	0	0	0	0	
## 882	882	0	1	0	0	0	0	0	0	0	0	0	
## 883	883	0	0	0	0	0	0	0	2	0	0	0	
## 884	884	1	0	0	0	0	0	0	0	0	0	0	
## 885	885	1	3	0	0	3	1	0	0	0	0	0	
## 886	886	0	0	1	1	5	1	4	2	1	1	0	
## 887	887	0	0	0	0	0	0	0	0	0	4	1	
## 888	888	0	0	1	0	1	0	0	0	0	0	0	
## 889	889	0	1	1	2	0	0	0	0	2	0	1	
## 890	890	0	1	0	0	1	2	0	1	0	1	0	
## 891	891	0	0	0	0	0	1	1	7	0	0	0	
## 892	892	1	3	0	0	0	0	0	0	0	0	0	
## 893	893	1	0	0	0	3	0	0	0	0	0	0	
## 894	894	0	0	0	0	1	0	0	0	0	0	0	
## 895	895	1	1	0	0	0	0	0	0	0	0	0	
## 896	896	0	0	1	1	1	3	0	1	0	0	0	
## 897	897	2	0	3	2	2	0	3	0	0	0	0	

## 898	898	0	1	3	2	1	0	0	0	0	0	0	0
## 899	899	0	0	0	0	0	0	0	1	0	0	0	1
## 900	900	0	0	0	0	0	0	1	0	0	0	0	0
## 901	901	7	1	6	0	0	0	0	0	0	0	0	0
## 902	902	0	2	0	1	1	0	1	0	0	0	0	0
## 903	903	0	2	0	1	0	1	2	0	0	3	0	0
## 904	904	0	0	0	0	3	1	5	0	0	0	0	0
## 905	905	0	0	0	0	0	0	0	0	0	0	0	0
## 906	906	0	0	0	1	0	0	0	0	0	0	0	0
## 907	907	0	0	0	0	0	1	0	0	0	0	0	0
## 908	908	0	0	0	0	0	0	0	0	7	0	0	0
## 909	909	0	0	0	0	1	0	0	2	0	0	0	0
## 910	910	0	0	0	0	2	0	1	2	0	2	0	0
## 911	911	0	4	0	0	2	6	3	0	0	0	0	0
## 912	912	1	0	0	0	0	0	0	0	3	2	0	0
## 913	913	0	0	0	0	0	0	0	0	0	1	0	0
## 914	914	0	0	0	0	1	1	1	2	0	0	0	0
## 915	915	1	1	0	0	0	0	1	3	0	0	0	0
## 916	916	0	1	0	2	4	0	0	2	0	0	0	0
## 917	917	0	0	0	0	1	0	2	3	0	0	0	0
## 918	918	0	0	0	0	6	5	2	4	0	0	0	0
## 919	919	0	0	0	2	0	1	0	0	0	0	0	0
## 920	920	0	0	0	0	0	0	3	0	0	0	0	0
## 921	921	1	2	3	0	0	0	0	0	0	0	0	0
## 922	922	0	0	0	0	0	0	0	1	0	0	0	0
## 923	923	0	0	0	0	0	0	0	0	1	0	0	0
## 924	924	0	1	0	0	0	0	0	0	0	0	0	0
## 925	925	0	0	0	0	0	0	0	0	0	0	0	0
## 926	926	0	0	0	0	0	0	1	1	1	1	1	1
## 927	927	0	0	0	1	0	0	0	0	5	0	0	0
## 928	928	0	0	0	0	0	0	0	1	2	0	1	0
## 929	929	0	0	0	0	0	0	1	0	0	0	0	0
## 930	930	0	0	0	0	0	0	0	0	0	0	0	0
## 931	931	4	0	2	0	0	0	0	0	0	0	0	0
## 932	932	1	0	0	1	0	0	0	0	0	0	0	0
## 933	933	1	1	1	10	0	0	0	0	0	0	0	0
## 934	934	0	0	0	0	0	0	0	0	0	0	0	0
## 935	935	1	0	0	0	0	0	0	0	0	0	0	0
## 936	936	0	0	0	1	0	2	0	0	0	0	0	0
## 937	937	0	1	1	1	0	6	2	1	0	0	0	0
## 938	938	1	1	0	0	0	0	0	0	0	0	0	0
## 939	939	0	0	0	1	2	1	0	0	0	0	0	0
## 940	940	0	0	0	0	0	0	0	0	0	0	0	0
## 941	941	0	2	0	0	0	0	0	0	0	0	0	0
## 942	942	3	1	0	1	1	1	1	2	0	3	11	0
## 943	943	0	0	0	0	0	0	0	0	0	0	0	0
## 944	944	0	0	0	0	0	0	0	0	0	0	0	0
## 945	945	0	0	0	0	0	0	1	1	2	0	0	0
## 946	946	0	0	0	5	0	0	0	0	0	0	0	0
## 947	947	0	3	2	0	0	0	0	0	0	0	0	0
## 948	948	0	3	0	0	0	0	0	0	0	0	0	0
## 949	949	0	0	2	0	0	0	0	0	0	0	0	0
## 950	950	0	0	0	0	0	0	1	0	3	0	0	0
## 951	951	0	1	1	0	0	0	1	0	6	2	0	0

##	952	952	1	0	0	1	2	0	0	2	0	0	0
##	953	953	0	5	0	0	0	0	0	0	0	0	0
##	954	954	0	1	2	2	4	2	1	1	0	0	0
##	955	955	0	0	0	0	0	0	1	2	0	3	0
##	956	956	0	0	0	0	0	0	3	0	0	0	0
##	957	957	0	0	0	0	0	0	0	0	0	0	0
##	958	958	0	0	0	0	0	0	0	0	0	0	3
##	959	959	0	1	0	0	0	0	2	3	0	0	0
##	960	960	0	0	0	0	0	0	0	0	0	0	1
##	961	961	1	1	10	2	6	1	2	0	0	0	0
##	962	962	1	2	2	0	1	0	1	2	0	1	2
##	963	963	0	0	0	1	0	1	2	8	0	0	0
##	964	964	0	0	0	0	0	0	0	0	0	0	0
##	965	965	0	1	2	3	6	0	0	0	0	3	0
##	966	966	0	0	0	2	1	1	0	5	0	0	0
##	967	967	0	0	0	0	0	0	0	0	0	0	0
##	968	968	0	1	0	0	0	0	0	0	0	0	0
##	969	969	0	0	1	0	0	0	0	0	0	0	0
##	970	970	0	0	0	1	0	1	0	0	0	0	0
##	971	971	0	0	0	0	0	0	0	1	0	2	0
##	972	972	0	0	0	0	0	0	0	0	3	1	0
##	973	973	0	3	0	0	4	0	2	1	0	2	0
##	974	974	0	0	0	5	0	0	1	0	0	0	0
##	975	975	0	0	0	0	0	4	0	0	0	1	0
##	976	976	0	0	0	2	0	1	1	0	0	0	0
##	977	977	0	0	0	0	0	0	0	0	0	0	0
##	978	978	0	0	0	0	0	0	0	0	0	0	0
##	979	979	0	0	0	4	0	0	7	0	0	0	0
##	980	980	0	1	0	2	0	0	0	1	0	0	0
##	981	981	0	0	0	1	0	0	1	0	0	0	0
##	982	982	3	0	3	0	0	0	0	0	0	0	0
##	983	983	0	0	0	1	0	0	0	0	0	0	0
##	984	984	0	0	0	0	0	0	0	0	1	0	0
##	985	985	0	0	0	0	0	0	0	0	3	3	1
##	986	986	0	0	0	0	1	0	0	0	3	0	0
##	987	987	0	0	0	0	0	0	0	0	0	0	0
##	988	988	0	0	0	1	1	2	0	0	0	0	0
##	989	989	0	2	0	0	0	0	0	0	0	2	3
##	990	990	0	0	0	0	0	0	0	0	3	0	0
##	991	991	0	0	0	0	0	0	0	0	0	0	0
##	992	992	0	0	0	0	0	0	0	0	1	0	0
##	993	993	0	0	0	0	7	2	1	0	0	0	0
##	994	994	0	0	0	0	0	0	1	0	4	0	0
##	995	995	0	0	0	0	2	0	2	0	3	0	0
##	996	996	3	4	7	0	0	0	1	0	0	1	0
##	997	997	0	0	0	0	1	1	0	0	0	0	0
##	998	998	0	2	0	0	0	3	0	0	0	0	0
##	999	999	0	0	0	0	0	1	0	2	0	0	0
##	1000	1000	1	1	1	3	0	2	0	0	0	2	1
##	1001	1001	0	0	0	0	3	2	0	0	0	0	0
##	1002	1002	0	1	0	0	6	1	5	1	0	0	0
##	1003	1003	2	1	0	0	0	0	0	0	0	0	0
##	1004	1004	3	1	1	0	0	0	0	0	0	0	0
##	1005	1005	1	1	3	0	0	0	0	1	0	0	0

## 1006 1006	1	3	0	0	1	0	0	0	0	0	0
## 1007 1007	0	0	0	0	0	0	0	0	0	0	0
## 1008 1008	0	0	0	0	2	0	0	0	4	1	0
## 1009 1009	0	0	0	0	0	0	0	0	0	0	0
## 1010 1010	0	0	0	1	0	0	0	0	0	0	0
## 1011 1011	0	0	0	0	0	0	0	0	3	0	0
## 1012 1012	1	2	0	0	0	0	0	0	0	0	0
## 1013 1013	0	0	0	0	0	0	0	0	0	0	0
## 1014 1014	0	0	0	0	0	0	0	3	0	0	0
## 1015 1015	0	0	0	0	0	0	2	2	0	0	0
## 1016 1016	0	0	0	0	0	0	5	0	0	0	0
## 1017 1017	0	0	0	0	0	0	0	0	0	0	0
## 1018 1018	3	0	3	0	0	0	0	0	0	0	0
## 1019 1019	0	0	0	0	0	0	0	0	6	0	0
## 1020 1020	0	0	0	1	1	0	0	0	0	0	0
## 1021 1021	0	0	0	0	1	3	0	0	0	0	0
## 1022 1022	0	0	0	0	0	0	0	0	0	0	0
## 1023 1023	0	0	0	0	0	0	0	0	0	0	0
## 1024 1024	2	1	2	0	0	0	0	0	0	0	0
## 1025 1025	0	0	0	0	2	1	1	0	0	0	0
## 1026 1026	0	0	0	0	0	0	0	0	2	0	0
## 1027 1027	0	0	0	0	0	0	0	0	0	0	0
## 1028 1028	0	0	0	0	1	0	0	1	0	1	0
## 1029 1029	0	0	0	2	1	2	0	0	0	0	0
## 1030 1030	0	1	0	0	0	0	0	0	0	0	0
## 1031 1031	3	1	0	0	0	0	0	0	0	1	0
## 1032 1032	0	1	0	0	0	0	0	0	0	0	0
## 1033 1033	0	0	0	0	0	0	2	2	0	0	0
## 1034 1034	0	0	0	1	3	1	3	0	3	3	0
## 1035 1035	0	0	0	0	0	0	0	0	0	0	0
## 1036 1036	0	0	0	0	0	0	2	1	0	0	0
## 1037 1037	2	11	4	0	2	6	2	2	0	4	1
## 1038 1038	0	0	0	0	0	5	0	0	0	0	0
## 1039 1039	0	0	0	0	0	0	0	0	0	0	0
## 1040 1040	0	0	0	0	0	0	0	0	0	0	0
## 1041 1041	0	0	0	3	1	3	1	3	1	0	1
## 1042 1042	0	0	0	3	0	1	0	0	0	1	0
## 1043 1043	0	0	0	0	0	0	0	1	0	0	0
## 1044 1044	0	0	0	0	0	0	0	0	0	0	0
## 1045 1045	0	0	0	0	0	0	0	0	0	1	0
## 1046 1046	0	0	0	0	0	0	0	0	0	0	0
## 1047 1047	0	0	5	0	0	0	0	0	0	0	0
## 1048 1048	0	0	0	0	0	5	0	0	0	0	0
## 1049 1049	0	4	0	0	0	0	0	0	0	0	0
## 1050 1050	1	1	0	2	0	3	3	3	0	0	0
## 1051 1051	0	0	0	1	2	5	1	2	0	0	0
## 1052 1052	0	0	0	0	0	0	0	0	0	0	0
## 1053 1053	0	0	0	0	0	0	1	2	1	0	0
## 1054 1054	0	0	0	1	2	1	1	0	0	0	0
## 1055 1055	1	0	1	0	0	0	0	0	0	0	0
## 1056 1056	0	2	0	0	0	0	0	0	0	0	0
## 1057 1057	0	0	2	0	1	5	0	0	2	3	0
## 1058 1058	0	1	1	0	2	4	9	8	0	2	0
## 1059 1059	1	0	0	0	0	3	0	1	0	0	1

## 1060 1060	0	0	0	0	0	0	1	4	0	1	0
## 1061 1061	0	0	0	0	0	0	0	5	0	3	0
## 1062 1062	0	0	0	0	0	0	0	0	0	0	0
## 1063 1063	0	0	0	1	0	0	0	1	1	2	0
## 1064 1064	0	0	0	0	0	0	2	0	0	0	0
## 1065 1065	0	0	0	0	0	0	0	0	0	0	0
## 1066 1066	0	0	0	0	0	0	0	0	0	0	0
## 1067 1067	4	1	2	0	0	1	0	0	0	0	0
## 1068 1068	0	0	0	0	0	0	0	0	0	0	0
## 1069 1069	0	0	0	0	0	0	0	0	0	0	0
## 1070 1070	0	1	3	0	1	0	0	0	0	0	0
## 1071 1071	0	0	0	0	1	0	0	0	0	0	0
## 1072 1072	0	0	0	0	0	0	0	1	0	0	0
## 1073 1073	0	0	0	0	0	0	0	0	0	0	0
## 1074 1074	0	0	0	0	0	0	0	0	0	0	0
## 1075 1075	0	0	0	0	0	0	0	0	0	0	0
## 1076 1076	0	0	0	0	0	0	0	0	0	0	0
## 1077 1077	3	1	0	0	1	0	1	0	0	0	0
## 1078 1078	0	0	0	0	0	0	0	0	2	0	0
## 1079 1079	0	0	0	0	0	0	5	0	0	0	0
## 1080 1080	0	1	0	0	0	0	0	0	0	0	0
## 1081 1081	0	2	0	0	0	0	0	0	0	0	0
## 1082 1082	0	0	0	1	2	2	0	0	0	0	0
## 1083 1083	0	0	0	0	0	0	0	5	0	0	0
## 1084 1084	0	1	0	0	0	0	0	1	1	1	4
## 1085 1085	0	0	0	0	0	0	0	0	0	0	0
## 1086 1086	0	0	0	1	1	1	0	0	0	0	0
## 1087 1087	0	0	0	0	0	0	0	0	1	0	1
## 1088 1088	0	0	1	3	0	1	0	0	0	0	0
## 1089 1089	0	0	0	0	0	0	0	0	0	0	0
## 1090 1090	0	0	0	0	1	3	0	0	2	1	0
## 1091 1091	0	0	0	0	0	0	0	0	0	1	0
## 1092 1092	0	0	0	1	0	1	0	2	0	0	1
## 1093 1093	1	0	1	0	0	0	0	0	0	0	0
## 1094 1094	1	3	0	0	0	0	0	0	0	0	0
## 1095 1095	0	0	0	0	0	0	0	0	0	0	0
## 1096 1096	0	0	2	0	1	0	0	0	0	0	0
## 1097 1097	0	0	0	0	6	0	3	2	1	0	5
## 1098 1098	0	0	0	0	0	0	3	2	0	3	0
## 1099 1099	0	0	0	0	0	0	0	0	2	0	0
## 1100 1100	0	0	0	0	0	3	3	0	0	0	0
## 1101 1101	1	1	0	2	2	2	2	1	0	0	0
## 1102 1102	0	0	0	0	0	0	0	2	0	0	0
## 1103 1103	0	0	0	0	0	0	3	0	0	1	0
## 1104 1104	0	0	0	0	2	1	1	0	0	0	0
## 1105 1105	0	0	0	0	0	0	0	0	0	0	0
## 1106 1106	0	0	0	0	0	5	0	0	0	0	0
## 1107 1107	0	0	0	0	0	0	2	0	0	0	0
## 1108 1108	0	2	0	1	1	0	0	0	0	0	0
## 1109 1109	0	0	5	0	0	0	0	0	0	0	0
## 1110 1110	0	0	0	1	0	0	1	3	0	0	0
## 1111 1111	0	0	0	0	0	0	0	0	0	0	0
## 1112 1112	0	0	0	0	0	0	0	0	0	0	0
## 1113 1113	0	0	1	0	0	3	0	0	1	0	0

## 1114 1114	0	0	0	0	0	0	0	0	3	0	7
## 1115 1115	0	0	0	0	0	0	0	0	0	2	0
## 1116 1116	0	0	0	0	0	0	1	0	0	0	0
## 1117 1117	5	1	0	0	0	0	0	0	0	0	0
## 1118 1118	2	1	0	0	0	0	0	0	0	0	0
## 1119 1119	0	0	0	0	0	0	2	2	0	0	0
## 1120 1120	0	3	1	0	0	1	2	7	0	1	0
## 1121 1121	0	2	0	0	0	0	0	0	0	0	0
## 1122 1122	1	1	0	0	0	0	0	0	0	0	0
## 1123 1123	1	1	1	1	1	0	0	0	0	0	0
## 1124 1124	0	0	0	0	0	0	0	0	3	0	0
## 1125 1125	0	0	0	0	1	0	1	2	0	0	1
## 1126 1126	0	0	0	0	0	0	0	0	4	0	1
## 1127 1127	1	0	1	3	0	3	4	0	0	0	0
## 1128 1128	0	0	0	0	0	0	0	0	0	0	5
## 1129 1129	3	3	0	0	0	0	0	0	0	0	0
## 1130 1130	1	2	0	0	0	0	0	0	2	0	1
## 1131 1131	0	1	1	1	2	3	0	0	0	0	0
## 1132 1132	0	0	0	0	0	0	1	0	2	0	0
## 1133 1133	2	1	1	2	0	4	0	0	0	0	0
## 1134 1134	0	0	0	0	3	0	0	0	1	0	0
## 1135 1135	0	5	0	0	0	0	0	0	0	0	0
## 1136 1136	0	0	0	0	0	1	0	0	0	0	0
## 1137 1137	0	0	0	5	1	0	1	0	0	1	0
## 1138 1138	0	0	0	1	0	0	2	0	0	1	0
## 1139 1139	0	0	2	1	0	3	0	3	0	0	0
## 1140 1140	0	0	0	0	1	0	1	2	0	0	0
## 1141 1141	1	1	0	0	0	0	0	0	0	0	0
## 1142 1142	0	0	0	0	0	0	0	1	0	0	0
## 1143 1143	0	0	0	0	0	0	0	0	0	0	0
## 1144 1144	0	0	0	0	4	3	0	0	0	0	0
## 1145 1145	0	0	0	0	1	5	1	0	4	3	0
## 1146 1146	0	0	0	0	0	0	0	0	0	0	0
## 1147 1147	0	0	1	0	0	0	0	0	0	0	0
## 1148 1148	0	0	0	0	0	0	1	0	0	0	0
## 1149 1149	1	0	0	0	1	1	0	1	0	0	0
## 1150 1150	0	1	0	0	0	0	0	0	0	0	0
## 1151 1151	0	1	0	0	0	0	0	0	3	4	2
## 1152 1152	0	3	2	1	0	1	0	3	0	0	0
## 1153 1153	1	2	0	2	0	0	0	0	0	0	0
## 1154 1154	3	2	2	0	0	0	0	0	0	0	0
## 1155 1155	0	1	1	0	0	0	0	0	0	0	0
## 1156 1156	0	0	0	0	0	0	0	0	0	0	0
## 1157 1157	0	1	0	0	0	0	0	0	0	2	0
## 1158 1158	0	0	0	0	1	0	0	0	0	0	1
## 1159 1159	0	1	0	5	1	3	2	0	0	0	2
## 1160 1160	0	0	0	1	0	2	0	2	2	0	3
## 1161 1161	0	2	0	0	0	0	0	0	0	0	0
## 1162 1162	0	0	0	1	1	2	2	1	0	0	0
## 1163 1163	0	0	0	0	0	0	0	0	1	3	0
## 1164 1164	0	0	1	1	0	0	1	0	0	0	0
## 1165 1165	1	1	1	0	0	0	0	0	0	0	0
## 1166 1166	0	0	0	0	2	0	0	0	0	1	0
## 1167 1167	0	0	1	0	0	0	0	0	0	0	1

## 1168 1168	1	2	0	1	0	2	0	0	1	0	0
## 1169 1169	0	0	0	0	1	0	0	6	0	0	0
## 1170 1170	0	3	0	1	1	3	1	4	0	1	0
## 1171 1171	1	0	0	1	0	0	1	0	0	0	0
## 1172 1172	0	1	4	0	1	0	0	1	0	0	0
## 1173 1173	0	0	0	0	0	0	0	0	0	0	0
## 1174 1174	0	0	0	0	2	2	0	1	0	1	0
## 1175 1175	0	0	0	0	0	0	0	0	0	0	0
## 1176 1176	0	2	1	0	0	0	0	0	0	0	0
## 1177 1177	0	0	1	0	1	1	1	0	0	0	0
## 1178 1178	0	0	0	0	0	1	1	1	0	0	0
## 1179 1179	0	1	0	0	3	0	0	0	0	0	0
## 1180 1180	0	0	0	0	0	1	0	0	0	0	0
## 1181 1181	0	0	0	0	0	5	0	0	0	0	0
## 1182 1182	1	0	0	0	0	0	0	0	0	0	0
## 1183 1183	0	0	0	0	0	0	0	0	0	0	0
## 1184 1184	0	1	4	0	0	0	0	0	0	0	0
## 1185 1185	0	0	0	1	1	0	0	0	0	0	0
## 1186 1186	0	1	0	1	0	0	1	0	0	0	1
## 1187 1187	0	0	0	1	0	0	1	1	0	0	0
## 1188 1188	0	1	0	0	1	3	0	0	0	0	0
## 1189 1189	0	0	0	0	0	0	0	0	0	0	0
## 1190 1190	1	0	0	0	0	0	0	0	0	0	0
## 1191 1191	0	0	0	0	0	0	0	0	0	0	0
## 1192 1192	0	0	0	0	0	0	1	1	0	0	2
## 1193 1193	0	0	1	0	2	0	2	2	0	0	0
## 1194 1194	0	0	0	0	0	0	0	0	0	0	0
## 1195 1195	0	2	0	0	3	0	0	0	0	0	0
## 1196 1196	0	0	0	0	0	0	1	2	0	0	0
## 1197 1197	1	1	0	0	0	0	0	0	0	0	0
## 1198 1198	1	0	0	0	0	0	0	0	0	0	0
## 1199 1199	0	0	0	0	0	0	0	0	0	0	0
## 1200 1200	0	0	0	0	3	0	1	0	0	0	0
## 1201 1201	0	0	0	0	0	0	0	0	0	0	0
## 1202 1202	0	0	0	4	0	2	0	0	0	0	0
## 1203 1203	2	0	0	0	0	0	0	0	0	0	0
## 1204 1204	1	0	1	0	0	1	0	0	0	0	0
## 1205 1205	0	0	0	0	0	4	0	0	0	0	0
## 1206 1206	1	1	0	0	0	0	0	0	0	0	0
## 1207 1207	3	1	0	0	0	0	0	0	0	0	0
## 1208 1208	0	0	0	0	0	0	0	0	0	0	0
## 1209 1209	4	0	1	0	0	0	0	0	0	0	0
## 1210 1210	0	0	0	0	0	0	0	0	0	0	0
## 1211 1211	0	0	0	0	0	0	0	0	0	0	0
## 1212 1212	1	6	0	0	0	0	0	0	0	0	0
## 1213 1213	0	0	0	0	0	0	0	0	0	1	0
## 1214 1214	0	0	0	0	0	1	1	0	0	0	0
## 1215 1215	0	1	0	0	1	3	0	0	0	0	0
## 1216 1216	0	0	0	0	0	0	0	0	0	0	0
## 1217 1217	0	0	0	0	1	2	0	0	0	0	0
## 1218 1218	0	4	0	0	0	0	0	0	0	0	0
## 1219 1219	0	0	0	0	0	0	0	0	0	0	0
## 1220 1220	0	0	0	0	0	2	0	0	0	0	0
## 1221 1221	0	0	0	0	0	0	0	0	0	0	0

```

## 1222 1222 0 0 0 0 0 0 0 0 0 0 0 0
## 1223 1223 0 1 1 0 0 0 0 0 0 0 0 0
## 1224 1224 0 0 0 0 0 1 0 0 0 0 2 1
## 1225 1225 0 0 0 0 0 0 0 0 2 0 0 0
## 1226 1226 1 0 0 0 0 0 0 0 0 0 0 0
## 1227 1227 0 0 0 0 0 0 0 0 0 0 0 0
## 1228 1228 0 0 0 0 0 0 0 0 0 0 0 0
## 1229 1229 1 0 2 0 0 0 0 0 0 0 0 0
## 1230 1230 0 0 0 0 1 0 0 0 0 3 1 0
## 1231 1231 0 1 0 0 0 0 0 0 0 0 0 0
## 1232 1232 0 0 0 0 4 2 1 0 0 0 0 0
## 1233 1233 0 0 0 2 0 0 0 0 0 0 0 0
## 1234 1234 0 0 0 0 0 0 0 0 0 0 0 1
## 1235 1235 0 0 0 0 1 1 2 0 0 0 0 0
## 1236 1236 1 1 0 0 0 0 0 0 0 0 0 0
## 1237 1237 0 1 0 0 0 0 0 0 0 0 0 0
## 1238 1238 0 0 0 0 0 0 0 0 0 0 0 0
## 1239 1239 0 0 0 0 0 0 0 0 0 0 0 0
## 1240 1240 0 2 0 0 0 0 0 0 0 0 0 0
## 1241 1241 0 0 2 0 1 0 0 0 0 1 0 0
## 1242 1242 2 3 2 1 2 0 0 0 1 0 1 1
## 1243 1243 1 4 0 2 2 0 3 0 0 0 0 0
## 1244 1244 0 0 0 0 0 0 0 0 0 0 0 0
## 1245 1245 1 0 0 0 0 0 0 0 0 0 0 0
## 1246 1246 0 0 0 0 0 0 0 0 0 0 0 0
## 1247 1247 0 0 0 0 0 0 0 0 0 0 0 0
## 1248 1248 0 0 1 0 0 0 0 0 0 0 0 0
## 1249 1249 1 3 0 0 0 0 0 0 0 0 0 0
## 1250 1250 0 0 0 0 0 0 0 0 0 0 0 0
## 1251 1251 0 2 0 0 0 0 0 0 0 0 0 0
## 1252 1252 0 0 0 0 1 0 1 3 0 0 0 0
## 1253 1253 0 1 0 0 0 0 0 2 0 4 2 1
## 1254 1254 0 0 0 0 0 2 0 0 0 0 0 0
## 1255 1255 0 0 0 2 1 0 0 0 1 0 0 0
## 1256 1256 3 2 2 0 0 0 0 0 0 0 0 0
## 1257 1257 0 0 1 1 0 0 0 0 0 0 0 0
## 1258 1258 0 4 0 0 0 0 0 0 0 0 0 0
## 1259 1259 1 0 1 0 1 0 0 0 0 0 0 0
## 1260 1260 0 0 0 0 0 0 0 0 0 0 1 0
## 1261 1261 0 0 0 0 0 0 1 0 0 0 0 0
## 1262 1262 0 0 0 0 0 0 0 0 0 0 0 0
## 1263 1263 0 0 0 4 0 0 0 0 0 0 0 0
## 1264 1264 0 1 0 0 0 0 0 0 0 0 0 0
## 1265 1265 0 0 0 0 0 0 0 0 0 0 0 0
## 1266 1266 0 0 0 0 0 1 2 0 0 0 0 0
## 1267 1267 0 0 0 0 0 0 0 0 1 0 0 0
## 1268 1268 0 0 0 2 0 1 0 0 0 0 0 0
## 1269 1269 0 0 0 0 4 1 2 0 0 0 0 0
## 1270 1270 0 0 0 0 0 0 0 0 0 1 0 0
## 1271 1271 0 0 0 0 0 0 1 0 1 0 0 0
## 1272 1272 1 0 0 0 1 0 1 0 0 0 0 1
## 1273 1273 0 0 0 1 0 0 0 0 1 0 0 0
## 1274 1274 0 0 0 4 1 2 1 0 0 0 1 0
## 1275 1275 1 0 0 0 0 1 0 0 0 0 0 0

```

## 1276	1276	0	0	0	0	0	0	1	3	0	0	0
## 1277	1277	0	0	0	0	0	0	0	0	0	0	0
## 1278	1278	0	0	0	0	0	4	0	0	0	0	0
## 1279	1279	0	0	0	0	2	0	0	0	0	0	0
## 1280	1280	0	0	0	0	2	2	0	0	0	0	0
## 1281	1281	0	0	0	0	0	0	2	1	0	0	0
## 1282	1282	0	0	0	0	0	0	0	0	0	0	0
## 1283	1283	0	0	0	0	0	0	0	0	0	0	0
## 1284	1284	1	2	2	1	2	0	0	0	0	0	0
## 1285	1285	0	0	0	1	1	2	0	0	0	0	0
## 1286	1286	1	1	0	0	0	0	3	0	0	0	0
## 1287	1287	0	0	0	0	2	0	0	0	0	0	0
## 1288	1288	0	2	0	0	1	0	0	0	0	0	0
## 1289	1289	0	0	1	1	0	0	0	0	0	0	0
## 1290	1290	0	0	0	0	0	0	0	0	0	0	0
## 1291	1291	0	3	0	0	1	0	1	0	2	0	0
## 1292	1292	0	2	3	0	0	0	0	0	0	0	0
## 1293	1293	0	0	0	0	0	0	0	0	0	0	0
## 1294	1294	0	0	0	0	1	0	0	0	0	1	0
## 1295	1295	0	0	0	0	0	0	0	0	4	0	0
## 1296	1296	2	0	0	0	2	1	1	3	0	0	0
## 1297	1297	0	0	0	0	1	0	2	0	0	0	0
## 1298	1298	0	0	0	0	0	0	1	0	0	0	0
## 1299	1299	0	0	0	0	0	0	0	0	0	0	0
## 1300	1300	4	0	0	0	0	0	0	0	0	0	0
## 1301	1301	0	0	0	0	0	0	3	1	0	0	0
## 1302	1302	0	0	0	0	0	0	0	0	0	0	0
## 1303	1303	0	0	0	0	0	0	0	0	0	1	1
## 1304	1304	0	0	0	0	0	0	0	0	1	0	0
## 1305	1305	0	0	0	0	0	0	0	0	0	0	0
## 1306	1306	0	0	0	0	0	0	0	1	0	1	0
## 1307	1307	0	0	0	0	0	0	0	0	1	0	2
## 1308	1308	0	4	0	0	0	0	0	0	0	0	0
## 1309	1309	0	0	0	4	0	0	0	0	0	0	0
## 1310	1310	0	0	4	0	0	0	0	0	0	0	0
## 1311	1311	0	0	0	0	0	0	0	0	0	0	0
## 1312	1312	0	1	0	0	0	0	0	0	0	0	0
## 1313	1313	0	0	0	0	0	0	0	0	4	0	0
## 1314	1314	0	0	0	1	0	0	1	0	2	1	0
## 1315	1315	2	1	3	0	0	0	0	0	0	0	0
## 1316	1316	0	1	0	3	0	5	0	0	0	0	0
## 1317	1317	2	1	0	1	1	1	0	4	0	0	0
## 1318	1318	0	0	1	0	0	0	0	0	0	0	0
## 1319	1319	0	1	1	0	0	1	0	0	0	0	0
## 1320	1320	0	0	0	0	0	0	0	4	0	0	0
## 1321	1321	2	0	0	0	0	0	0	0	0	0	0
## 1322	1322	0	0	0	0	0	0	3	0	1	0	0
## 1323	1323	0	0	0	0	0	0	0	2	3	0	0
## 1324	1324	0	0	0	0	0	0	0	0	0	6	1
## 1325	1325	0	0	0	6	2	1	6	0	0	1	0
## 1326	1326	1	2	5	0	0	0	0	0	0	0	0
## 1327	1327	0	0	0	0	0	0	2	0	0	0	5
## 1328	1328	2	0	0	0	0	0	0	0	0	0	0
## 1329	1329	0	0	0	0	0	0	0	4	0	0	0

## 1330 1330	0	0	0	0	0	0	0	2	0	1	0
## 1331 1331	0	0	0	0	0	0	4	0	0	0	0
## 1332 1332	0	0	2	0	1	0	0	0	0	2	0
## 1333 1333	0	0	0	1	0	0	2	0	4	7	0
## 1334 1334	0	2	2	1	0	0	0	0	0	0	0
## 1335 1335	1	2	3	0	3	0	0	0	1	0	0
## 1336 1336	0	0	0	0	0	0	0	0	1	0	0
## 1337 1337	0	0	0	0	0	0	0	0	0	0	2
## 1338 1338	5	2	3	0	0	0	0	0	0	0	0
## 1339 1339	0	0	0	0	0	0	0	0	1	2	3
## 1340 1340	0	0	1	0	3	0	0	0	0	0	0
## 1341 1341	0	0	0	0	0	0	0	0	0	1	0
## 1342 1342	0	0	0	0	0	0	0	0	0	0	3
## 1343 1343	0	0	0	0	0	0	0	0	0	4	0
## 1344 1344	0	0	0	0	1	0	0	0	0	0	0
## 1345 1345	1	0	0	1	0	0	0	1	3	0	0
## 1346 1346	0	0	0	0	0	0	0	0	0	0	0
## 1347 1347	0	0	0	0	0	0	0	3	0	4	11
## 1348 1348	0	0	0	0	5	0	0	0	0	0	0
## 1349 1349	0	0	0	0	0	0	0	0	0	0	1
## 1350 1350	0	0	1	1	2	1	0	5	0	0	0
## 1351 1351	0	0	0	0	2	1	2	1	0	0	0
## 1352 1352	0	1	0	0	0	0	0	0	0	0	0
## 1353 1353	2	0	0	0	2	0	0	0	0	0	0
## 1354 1354	0	0	0	1	0	1	1	0	0	0	0
## 1355 1355	0	0	0	0	3	2	4	1	0	1	1
## 1356 1356	3	0	0	0	0	0	0	0	0	0	0
## 1357 1357	1	0	1	0	0	0	0	0	0	0	1
## 1358 1358	0	0	0	0	0	0	0	1	0	0	3
## 1359 1359	0	4	0	0	0	0	0	0	0	1	0
## 1360 1360	0	0	0	0	3	0	0	0	0	0	0
## 1361 1361	0	0	0	0	1	0	0	1	0	2	0
## 1362 1362	0	0	0	0	0	0	0	0	2	0	0
## 1363 1363	0	0	0	0	0	2	0	0	0	0	0
## 1364 1364	0	0	0	0	0	0	0	1	0	3	6
## 1365 1365	0	1	1	3	4	4	8	3	0	0	0
## 1366 1366	0	0	0	0	0	0	0	0	0	0	0
## 1367 1367	0	0	0	0	0	0	0	0	0	3	0
## 1368 1368	0	0	0	0	0	0	0	2	3	0	0
## 1369 1369	0	0	0	0	0	0	0	0	0	1	1
## 1370 1370	0	0	0	0	2	0	0	0	0	0	1
## 1371 1371	0	0	0	0	3	0	0	0	0	0	0
## 1372 1372	0	0	0	0	0	0	0	0	0	0	3
## 1373 1373	0	0	0	0	0	1	0	0	0	0	0
## 1374 1374	0	0	0	0	2	0	0	0	0	0	0
## 1375 1375	0	0	0	0	4	0	0	0	0	0	0
## 1376 1376	2	1	1	0	0	0	0	0	0	0	0
## 1377 1377	0	0	0	2	1	0	0	1	0	0	0
## 1378 1378	0	0	0	0	0	0	0	0	0	0	0
## 1379 1379	0	0	0	1	0	0	1	0	0	0	0
## 1380 1380	0	2	2	1	0	1	0	1	0	0	0
## 1381 1381	0	0	0	0	0	0	0	0	0	2	0
## 1382 1382	0	0	0	0	0	4	0	0	2	0	0
## 1383 1383	0	0	0	0	0	0	0	0	2	0	0

## 1384 1384	2	0	0	0	0	0	0	0	0	0	0	0
## 1385 1385	1	0	1	0	7	4	0	0	0	0	1	0
## 1386 1386	0	0	0	1	0	0	0	0	0	0	0	0
## 1387 1387	0	0	0	1	0	0	0	0	1	0	0	1
## 1388 1388	0	0	0	0	1	2	1	0	0	0	0	0
## 1389 1389	0	0	0	0	0	0	0	0	0	0	0	0
## 1390 1390	0	0	0	0	0	0	0	0	0	0	0	0
## 1391 1391	1	1	0	0	0	0	0	0	0	0	0	0
## 1392 1392	0	0	0	3	0	2	0	1	0	0	0	0
## 1393 1393	1	0	0	5	1	8	7	1	0	0	0	0
## 1394 1394	0	0	0	0	0	0	0	0	0	0	0	0
## 1395 1395	0	0	0	0	4	0	0	0	0	0	0	0
## 1396 1396	1	0	1	0	0	0	2	5	0	0	0	1
## 1397 1397	0	0	0	0	0	0	0	0	0	0	0	2
## 1398 1398	0	0	0	2	1	0	0	0	0	0	0	0
## 1399 1399	0	0	0	0	0	0	0	0	0	0	0	0
## 1400 1400	1	0	0	0	0	0	0	0	0	0	0	0
## 1401 1401	0	0	0	1	2	0	0	2	0	0	0	0
## 1402 1402	0	0	0	0	0	4	0	0	0	0	0	0
## 1403 1403	0	0	0	0	0	0	0	0	0	0	0	0
## 1404 1404	0	0	0	0	0	0	0	0	0	0	0	0
## 1405 1405	0	0	0	0	0	0	0	0	0	0	0	0
## 1406 1406	0	0	0	2	0	0	0	0	0	0	0	0
## 1407 1407	0	0	0	0	0	0	0	0	0	0	0	0
## 1408 1408	0	0	0	0	0	0	0	0	0	0	0	3
## 1409 1409	0	0	0	0	0	0	0	0	0	0	0	0
## 1410 1410	0	1	0	3	0	0	0	0	0	0	1	0
## 1411 1411	0	0	0	0	4	0	0	0	0	0	0	0
## 1412 1412	0	0	0	0	3	0	0	0	0	0	0	0
## 1413 1413	1	0	1	0	0	0	0	0	0	0	0	0
## 1414 1414	0	0	0	0	4	0	0	0	0	0	0	0
## 1415 1415	0	0	0	1	0	5	2	1	0	0	0	0
## 1416 1416	0	0	0	0	0	0	0	0	0	0	0	0
## 1417 1417	0	0	0	0	0	0	0	2	0	1	0	0
## 1418 1418	0	0	0	0	0	0	0	0	0	0	0	3
## 1419 1419	0	0	0	5	0	0	0	1	0	0	0	0
## 1420 1420	0	4	1	0	0	0	0	0	0	0	0	0
## 1421 1421	1	3	0	0	0	0	0	2	0	0	0	0
## 1422 1422	0	0	0	0	0	0	0	0	0	0	0	0
## 1423 1423	0	0	0	0	0	0	0	0	0	1	4	0
## 1424 1424	5	0	2	0	0	0	0	0	0	0	0	0
## 1425 1425	0	0	1	1	0	0	0	0	0	0	1	2
## 1426 1426	0	0	0	0	0	0	0	0	3	1	6	0
## 1427 1427	0	3	0	1	0	0	0	0	0	0	0	0
## 1428 1428	0	0	0	0	0	0	0	0	0	0	0	0
## 1429 1429	1	0	0	2	1	0	0	0	0	0	0	7
## 1430 1430	0	0	0	0	0	0	0	0	0	1	0	0
## 1431 1431	0	0	0	0	0	0	4	0	0	0	0	0
## 1432 1432	0	0	0	0	0	0	0	6	0	0	0	0
## 1433 1433	0	0	0	0	0	0	0	0	0	0	0	0
## 1434 1434	0	0	0	2	0	0	0	0	0	0	1	0
## 1435 1435	0	0	0	0	0	0	0	0	0	0	0	0
## 1436 1436	1	1	0	1	0	0	0	2	0	0	0	0
## 1437 1437	0	2	2	3	0	0	0	0	0	0	0	0

## 1438	1438	0	0	0	0	0	3	0	0	0	0	0
## 1439	1439	0	0	0	0	0	0	0	0	0	0	0
## 1440	1440	0	0	0	0	4	0	0	0	0	0	0
## 1441	1441	0	0	0	1	1	1	1	9	0	1	0
## 1442	1442	0	0	0	5	0	0	0	0	0	1	3
## 1443	1443	0	0	0	0	0	0	0	0	0	0	0
## 1444	1444	0	0	0	0	0	0	4	1	0	0	0
## 1445	1445	0	0	0	0	4	0	0	0	0	0	0
## 1446	1446	0	0	2	0	0	0	0	0	0	0	0
## 1447	1447	0	0	0	0	0	0	6	2	0	0	3
## 1448	1448	0	0	0	0	0	0	0	0	3	0	1
## 1449	1449	1	1	0	3	2	0	2	0	0	0	0
## 1450	1450	0	0	1	0	0	1	0	0	0	0	0
## 1451	1451	0	0	0	0	4	0	0	0	0	0	0
## 1452	1452	0	0	0	0	0	0	1	0	0	1	1
## 1453	1453	0	0	0	0	0	0	0	0	0	0	0
## 1454	1454	0	0	0	0	0	0	0	0	0	0	0
## 1455	1455	0	0	0	0	0	0	0	0	0	0	0
## 1456	1456	0	0	0	1	1	2	0	1	0	0	0
## 1457	1457	0	0	0	0	0	0	0	0	0	1	3
## 1458	1458	0	0	0	0	0	4	0	0	0	0	0
## 1459	1459	2	2	0	1	14	0	0	0	0	0	0
## 1460	1460	0	0	0	0	0	0	2	1	0	0	0
## 1461	1461	0	0	0	5	0	0	0	1	0	0	0
## 1462	1462	1	1	0	0	0	0	0	0	0	0	0
## 1463	1463	0	0	0	0	0	0	0	0	3	0	0
## 1464	1464	0	0	0	1	1	1	2	2	0	0	0
## 1465	1465	0	0	0	0	0	0	0	0	0	0	0
## 1466	1466	1	0	0	0	0	0	0	0	0	0	0
## 1467	1467	0	0	0	0	1	0	0	0	0	0	0
## 1468	1468	2	0	4	0	0	0	0	0	0	0	0
## 1469	1469	2	1	0	0	1	0	0	0	0	0	0
## 1470	1470	1	0	0	1	0	0	0	0	0	0	0
## 1471	1471	0	1	0	0	3	0	1	1	0	1	0
## 1472	1472	1	1	1	0	1	0	5	2	0	0	1
## 1473	1473	0	0	0	0	0	0	0	0	0	1	1
## 1474	1474	0	0	0	0	0	0	0	1	0	0	0
## 1475	1475	4	1	0	0	0	0	0	0	0	0	0
## 1476	1476	0	0	0	0	1	1	0	0	0	0	0
## 1477	1477	0	0	0	0	0	0	1	2	0	0	0
## 1478	1478	0	2	0	1	0	1	0	0	0	0	0
## 1479	1479	0	0	0	0	0	0	3	0	0	0	0
## 1480	1480	0	0	0	0	0	0	1	0	0	0	0
## 1481	1481	0	0	0	0	1	0	0	0	0	0	0
## 1482	1482	0	0	0	0	0	0	1	0	0	0	0
## 1483	1483	0	0	0	4	0	0	1	1	0	0	0
## 1484	1484	0	0	0	0	5	0	0	0	0	0	0
## 1485	1485	1	0	0	0	1	0	0	0	0	0	0
## 1486	1486	1	1	0	1	0	0	0	0	0	0	0
## 1487	1487	0	0	0	0	0	0	0	0	1	0	0
## 1488	1488	0	5	0	0	0	0	0	1	0	1	0
## 1489	1489	0	0	0	0	4	4	1	0	0	0	0
## 1490	1490	1	0	0	0	0	0	0	0	0	0	0
## 1491	1491	0	0	0	0	0	0	0	0	0	0	0

## 1492 1492	0	0	0	0	0	0	1	0	0	0	0
## 1493 1493	0	0	0	0	0	0	8	2	0	1	0
## 1494 1494	0	0	0	2	1	1	2	0	0	0	0
## 1495 1495	1	4	2	3	4	0	0	0	0	0	0
## 1496 1496	0	0	0	0	0	2	0	0	1	0	2
## 1497 1497	0	0	0	0	0	0	1	2	0	0	0
## 1498 1498	0	0	0	0	0	0	0	0	0	0	0
## 1499 1499	0	1	0	4	0	1	0	3	0	0	0
## 1500 1500	1	0	0	0	0	0	0	0	0	0	0
## 1501 1501	0	0	0	0	3	0	0	1	0	2	0
## 1502 1502	0	0	0	0	0	4	0	0	0	0	0
## 1503 1503	0	0	0	0	0	0	0	0	5	0	0
## 1504 1504	1	0	0	0	0	0	0	0	0	0	0
## 1505 1505	0	0	0	0	0	4	0	0	0	0	0
## 1506 1506	0	0	0	0	1	0	0	0	0	0	0
## 1507 1507	0	0	0	0	0	1	0	0	0	0	0
## 1508 1508	0	2	1	0	0	0	0	0	0	0	0
## 1509 1509	0	0	0	0	0	0	0	0	0	0	0
## 1510 1510	0	0	0	0	0	0	1	1	0	0	0
## 1511 1511	0	0	0	0	0	0	0	0	0	0	1
## 1512 1512	0	0	0	0	0	0	0	0	1	0	0
## 1513 1513	0	0	0	0	0	0	0	0	0	0	2
## 1514 1514	0	0	0	0	0	0	0	0	4	0	0
## 1515 1515	0	0	0	0	0	5	0	0	0	0	0
## 1516 1516	0	0	0	0	3	2	1	0	0	0	0
## 1517 1517	0	3	2	1	1	0	0	0	0	0	0
## 1518 1518	0	0	0	0	0	4	0	0	0	0	0
## 1519 1519	0	0	0	1	1	0	0	1	0	0	0
## 1520 1520	0	0	0	1	0	3	0	1	0	0	0
## 1521 1521	0	0	0	0	0	0	0	0	0	0	0
## 1522 1522	0	0	0	0	3	0	0	0	0	0	0
## 1523 1523	0	2	0	0	0	1	1	0	0	0	0
## 1524 1524	0	0	0	0	0	0	0	1	2	3	0
## 1525 1525	0	0	0	0	0	0	0	0	0	0	0
## 1526 1526	0	0	0	0	0	0	1	0	0	0	0
## 1527 1527	0	0	0	0	0	0	3	0	0	0	0
## 1528 1528	0	0	0	0	0	0	3	0	0	0	0
## 1529 1529	1	0	0	5	2	1	2	0	1	0	0
## 1530 1530	0	0	1	0	0	4	0	0	0	0	1
## 1531 1531	0	0	0	0	0	0	0	0	0	0	0
## 1532 1532	0	0	0	0	0	0	0	0	0	0	0
## 1533 1533	0	0	0	0	0	0	0	0	0	0	0
## 1534 1534	0	0	0	0	0	0	0	0	0	0	0
## 1535 1535	0	0	0	0	0	3	0	0	0	0	0
## 1536 1536	0	0	1	0	4	3	0	0	0	0	0
## 1537 1537	0	0	0	0	0	0	0	0	1	0	0
## 1538 1538	0	0	0	0	0	0	0	0	0	0	0
## 1539 1539	0	0	0	0	0	0	0	1	0	1	0
## 1540 1540	0	0	0	0	0	0	0	4	0	0	1
## 1541 1541	0	0	0	0	0	2	0	0	0	0	0
## 1542 1542	0	0	0	0	0	0	1	0	0	0	0
## 1543 1543	0	0	0	0	4	0	0	0	0	0	0
## 1544 1544	0	0	0	0	0	0	0	0	0	0	0
## 1545 1545	0	0	0	0	0	0	1	3	1	0	0

## 1546	1546	0	1	3	0	0	0	0	0	0	0	0
## 1547	1547	0	0	0	0	0	0	0	5	0	0	0
## 1548	1548	0	0	0	0	0	0	0	0	2	3	
## 1549	1549	1	1	2	0	0	0	0	0	0	0	0
## 1550	1550	0	0	0	0	0	0	0	4	0	0	0
## 1551	1551	1	2	0	0	0	0	0	0	0	0	0
## 1552	1552	0	1	0	1	2	0	2	0	0	0	0
## 1553	1553	0	0	0	0	0	0	0	0	0	0	0
## 1554	1554	0	0	0	0	0	0	0	0	1	0	2
## 1555	1555	0	0	0	0	1	1	1	0	0	0	0
## 1556	1556	0	0	0	0	0	0	0	1	4	0	1
## 1557	1557	0	1	0	0	0	2	0	0	0	0	0
## 1558	1558	0	0	0	0	0	0	0	0	0	0	0
## 1559	1559	0	0	1	0	2	1	0	0	0	0	0
## 1560	1560	0	0	0	0	0	0	0	0	0	0	0
## 1561	1561	0	0	0	0	5	0	0	0	0	2	0
## 1562	1562	0	4	1	1	0	0	0	1	0	1	0
## 1563	1563	0	0	0	1	0	0	0	0	0	0	1
## 1564	1564	1	4	0	0	0	0	0	0	0	0	0
## 1565	1565	0	4	0	1	0	0	0	0	0	0	0
## 1566	1566	0	0	0	0	0	0	0	0	2	3	2
## 1567	1567	0	4	0	0	0	0	0	0	0	0	0
## 1568	1568	1	1	2	0	0	1	1	3	0	0	0
## 1569	1569	0	0	0	0	0	0	0	0	3	1	1
## 1570	1570	0	0	0	0	0	1	0	0	0	0	0
## 1571	1571	0	0	0	4	3	3	2	2	0	0	0
## 1572	1572	0	0	0	2	0	0	0	1	0	1	3
## 1573	1573	0	1	0	1	2	1	2	0	0	0	0
## 1574	1574	0	0	0	0	0	0	2	4	0	0	0
## 1575	1575	0	0	0	0	0	0	2	0	0	0	0
## 1576	1576	1	0	3	0	0	0	0	0	0	0	0
## 1577	1577	0	0	0	0	4	0	0	0	0	0	0
## 1578	1578	0	0	0	0	0	0	0	0	0	0	0
## 1579	1579	0	0	0	0	0	1	0	0	0	0	0
## 1580	1580	0	0	0	0	0	0	4	0	3	1	0
## 1581	1581	0	0	0	0	0	0	0	0	0	0	0
## 1582	1582	0	0	0	0	0	0	0	1	0	0	0
## 1583	1583	0	2	0	0	0	0	0	0	0	0	0
## 1584	1584	0	0	0	0	0	0	0	0	0	2	0
## 1585	1585	0	1	3	2	0	0	0	0	0	0	0
## 1586	1586	0	0	0	0	0	0	0	0	0	0	3
## 1587	1587	0	0	0	0	0	0	0	0	0	0	0
## 1588	1588	0	3	0	0	0	0	1	0	0	1	0
## 1589	1589	0	1	1	0	0	0	0	0	0	0	0
## 1590	1590	0	0	0	0	0	0	0	0	2	0	0
## 1591	1591	0	0	0	0	0	0	0	0	0	0	0
## 1592	1592	0	0	1	0	4	2	0	0	0	0	0
## 1593	1593	0	0	0	0	0	0	0	0	0	0	0
## 1594	1594	0	3	0	0	0	0	0	0	0	0	0
## 1595	1595	0	0	0	0	0	0	0	0	0	0	0
## 1596	1596	0	0	0	4	0	0	0	0	0	0	0
## 1597	1597	1	0	0	0	0	3	0	0	2	0	0
## 1598	1598	0	0	0	1	0	0	0	1	0	0	0
## 1599	1599	0	0	0	0	0	0	0	0	0	0	0

## 1600	1600	0	0	0	0	0	0	0	0	0	0
## 1601	1601	0	0	0	0	0	1	0	0	0	0
## 1602	1602	0	0	0	2	0	0	3	0	0	0
## 1603	1603	0	0	0	0	0	0	0	0	0	0
## 1604	1604	0	0	0	0	1	0	0	0	0	1
## 1605	1605	0	1	0	0	1	0	0	0	0	0
## 1606	1606	1	0	0	0	0	0	0	0	0	0
## 1607	1607	0	0	1	0	0	0	0	0	0	0
## 1608	1608	0	0	0	0	0	0	0	0	0	0
## 1609	1609	0	0	0	0	1	0	0	0	0	0
## 1610	1610	0	0	3	0	0	0	0	0	0	0
## 1611	1611	0	0	0	4	0	1	1	0	0	0
## 1612	1612	0	0	0	0	0	0	0	0	0	0
## 1613	1613	0	0	0	0	0	0	0	0	0	0
## 1614	1614	2	2	2	0	0	0	2	0	1	0
## 1615	1615	0	0	0	0	0	2	0	0	0	0
## 1616	1616	0	0	0	0	0	3	0	0	0	0
## 1617	1617	0	0	0	0	0	0	0	0	0	0
## 1618	1618	0	0	0	0	0	0	0	0	0	0
## 1619	1619	0	0	0	0	0	0	0	0	0	3
## 1620	1620	0	0	0	0	0	0	0	0	0	3
## 1621	1621	0	0	0	0	0	0	0	0	0	0
## 1622	1622	0	0	0	0	0	0	1	0	0	0
## 1623	1623	0	0	0	0	2	0	0	0	0	0
## 1624	1624	0	0	0	0	0	0	0	3	0	0
## 1625	1625	0	0	0	0	0	0	0	0	0	0
## 1626	1626	1	1	0	0	0	0	0	0	0	0
## 1627	1627	0	0	0	0	0	0	0	0	0	1
## 1628	1628	0	1	0	0	0	0	0	0	0	0
## 1629	1629	0	0	0	0	0	0	0	0	0	0
## 1630	1630	0	0	0	0	0	0	0	0	0	0
## 1631	1631	3	0	0	0	0	0	0	0	0	0
## 1632	1632	1	0	0	0	3	0	0	0	0	0
## 1633	1633	0	1	0	0	0	0	0	0	2	0
## 1634	1634	0	0	0	0	0	0	0	0	0	0
## 1635	1635	0	1	0	0	0	0	0	0	0	0
## 1636	1636	0	0	0	1	0	4	0	0	0	0
## 1637	1637	0	0	0	1	0	2	0	0	0	0
## 1638	1638	0	0	0	0	0	0	0	0	0	0
## 1639	1639	0	0	0	0	0	0	0	0	0	0
## 1640	1640	0	0	0	0	0	0	0	0	0	0
## 1641	1641	0	0	0	0	1	0	0	0	0	0
## 1642	1642	0	0	0	0	0	0	0	0	0	0
## 1643	1643	0	0	0	0	0	0	0	0	0	0
## 1644	1644	0	0	0	0	0	0	3	0	0	0
## 1645	1645	0	1	0	0	0	1	0	0	0	0
## 1646	1646	0	0	0	0	0	0	0	0	0	0
## 1647	1647	2	1	1	1	1	1	1	0	0	0
## 1648	1648	0	0	0	0	0	0	2	0	0	0
## 1649	1649	2	2	0	0	0	0	0	0	0	0
## 1650	1650	0	0	0	0	0	3	0	0	0	0
## 1651	1651	0	0	0	1	0	2	1	1	0	1
## 1652	1652	2	0	1	0	0	0	0	0	0	0
## 1653	1653	0	0	0	0	0	0	2	0	2	1

## 1654 1654	0	0	0	0	0	0	1	0	0	0	0
## 1655 1655	0	0	0	1	0	1	0	0	0	0	0
## 1656 1656	0	0	0	0	0	0	0	0	2	0	0
## 1657 1657	0	0	0	0	0	0	0	0	0	0	0
## 1658 1658	0	0	0	3	0	0	0	0	0	0	0
## 1659 1659	0	0	0	0	0	1	3	1	0	1	0
## 1660 1660	0	0	0	0	0	0	0	0	0	0	0
## 1661 1661	0	0	0	0	0	0	0	0	0	0	0
## 1662 1662	0	0	0	0	0	0	0	0	0	0	0
## 1663 1663	0	0	0	0	2	0	0	0	0	0	0
## 1664 1664	1	1	2	0	0	0	0	0	0	0	0
## 1665 1665	0	0	0	0	0	0	0	0	0	0	0
## 1666 1666	0	0	0	2	0	0	0	0	0	0	0
## 1667 1667	0	0	0	0	0	0	0	0	5	0	2
## 1668 1668	0	0	0	0	0	0	0	0	0	0	0
## 1669 1669	0	0	0	1	0	0	0	0	0	0	0
## 1670 1670	0	0	0	1	1	0	0	0	0	0	0
## 1671 1671	0	0	1	0	0	0	0	0	0	0	0
## 1672 1672	0	0	0	0	0	0	0	0	0	0	0
## 1673 1673	0	0	0	0	3	3	2	0	1	0	0
## 1674 1674	0	0	0	0	2	2	1	2	0	0	0
## 1675 1675	0	0	0	0	0	0	0	0	0	0	0
## 1676 1676	1	0	0	1	2	1	0	0	0	0	0
## 1677 1677	0	0	0	0	0	0	0	1	0	2	0
## 1678 1678	0	0	1	0	0	0	0	0	0	0	0
## 1679 1679	0	0	0	0	0	0	0	4	0	0	0
## 1680 1680	0	0	0	0	0	0	0	0	0	0	0
## 1681 1681	0	0	0	3	0	0	0	0	0	0	0
## 1682 1682	0	0	0	0	0	0	2	0	0	0	0
## 1683 1683	2	0	0	0	0	0	0	0	0	0	0
## 1684 1684	0	0	0	3	0	0	0	0	0	0	0
## 1685 1685	0	0	0	0	0	0	0	0	0	0	2
## 1686 1686	0	0	0	0	0	0	0	3	0	0	0
## 1687 1687	0	0	0	0	0	0	0	3	2	1	0
## 1688 1688	0	0	0	3	0	0	0	0	0	0	0
## 1689 1689	0	3	0	0	0	0	0	0	0	0	0
## 1690 1690	0	0	0	1	0	0	2	1	0	0	0
## 1691 1691	0	3	0	0	0	0	0	0	0	0	0
## 1692 1692	0	0	0	0	0	0	0	1	0	0	0
## 1693 1693	0	0	0	0	0	0	0	0	0	0	0
## 1694 1694	0	0	0	3	0	0	0	0	0	0	0
## 1695 1695	0	3	0	0	0	0	0	0	0	0	0
## 1696 1696	0	0	0	1	0	0	1	0	0	0	0
## 1697 1697	0	0	0	0	0	3	0	0	0	0	0
## 1698 1698	0	0	0	0	0	0	0	0	0	0	0
## 1699 1699	0	0	0	0	0	0	0	0	2	0	0
## 1700 1700	1	1	2	0	0	0	0	0	0	0	1
## 1701 1701	0	0	0	0	1	0	0	0	0	0	0
## 1702 1702	0	1	0	0	0	0	1	0	3	3	1
## 1703 1703	0	0	0	0	0	0	0	0	2	0	0
## 1704 1704	0	0	0	0	0	4	0	0	0	0	0
## 1705 1705	0	0	0	1	0	0	3	7	0	0	0
## 1706 1706	0	0	0	0	0	0	0	0	0	0	0
## 1707 1707	0	0	0	1	0	0	0	0	1	0	0

## 1708	1708	0	0	0	0	0	0	0	0	0	0	0
## 1709	1709	0	0	0	0	0	1	0	0	0	0	0
## 1710	1710	0	0	0	0	0	0	0	0	0	0	0
## 1711	1711	1	1	1	0	4	0	0	0	0	0	0
## 1712	1712	1	0	0	0	0	0	0	0	0	0	0
## 1713	1713	0	0	1	0	0	0	0	0	0	0	0
## 1714	1714	0	0	0	0	0	0	0	0	0	0	0
## 1715	1715	0	0	0	0	0	0	1	0	0	0	0
## 1716	1716	0	0	0	0	0	0	0	0	0	1	1
## 1717	1717	0	0	0	0	0	0	0	1	3	0	1
## 1718	1718	0	0	0	0	0	0	0	3	0	0	0
## 1719	1719	0	0	0	0	0	0	0	4	0	0	0
## 1720	1720	0	1	0	0	0	0	1	0	0	1	0
## 1721	1721	0	0	0	0	0	0	0	0	0	0	0
## 1722	1722	0	0	0	0	0	0	0	0	0	0	0
## 1723	1723	0	0	0	0	0	0	0	0	0	0	0
## 1724	1724	0	0	1	1	0	0	0	0	0	0	0
## 1725	1725	0	0	0	0	6	0	0	0	0	0	0
## 1726	1726	0	0	0	0	3	0	0	5	1	0	2
## 1727	1727	0	0	0	0	2	1	4	0	0	0	0
## 1728	1728	0	0	0	0	0	0	0	0	0	0	0
## 1729	1729	0	0	0	2	0	0	0	0	0	0	0
## 1730	1730	0	0	0	0	0	0	0	0	0	0	0
## 1731	1731	0	0	0	0	0	0	0	0	0	0	0
## 1732	1732	0	0	0	0	1	0	0	1	0	0	0
## 1733	1733	0	0	0	0	3	0	0	0	0	0	0
## 1734	1734	0	0	0	0	2	2	0	0	0	0	0
## 1735	1735	1	0	0	0	0	0	0	0	0	0	0
## 1736	1736	0	0	0	0	0	0	0	0	0	0	0
## 1737	1737	0	0	0	0	0	3	0	0	0	0	0
## 1738	1738	0	0	0	0	0	0	0	0	3	0	0
## 1739	1739	0	0	0	1	0	0	0	1	0	0	1
## 1740	1740	0	0	1	0	0	2	0	0	0	0	0
## 1741	1741	0	0	0	1	1	2	0	0	0	0	0
## 1742	1742	0	0	0	0	0	0	0	0	0	2	0
## 1743	1743	0	0	0	0	0	0	0	0	0	0	0
## 1744	1744	0	0	0	0	0	0	2	0	4	0	0
## 1745	1745	0	0	0	0	0	2	0	0	0	0	0
## 1746	1746	2	2	1	0	0	1	1	1	0	0	0
## 1747	1747	0	0	1	0	0	0	0	0	0	0	0
## 1748	1748	0	0	0	0	0	0	0	0	0	0	0
## 1749	1749	0	0	0	0	0	0	0	0	1	0	0
## 1750	1750	0	1	0	0	0	0	0	0	2	0	0
## 1751	1751	0	1	1	0	0	0	0	3	0	0	0
## 1752	1752	0	0	0	0	0	0	0	0	0	0	0
## 1753	1753	0	0	0	0	0	0	0	0	0	0	1
## 1754	1754	0	0	0	3	0	0	0	2	0	0	0
## 1755	1755	0	0	0	0	0	0	0	0	0	0	0
## 1756	1756	0	0	0	0	0	0	0	0	0	0	0
## 1757	1757	0	0	0	0	0	0	0	0	0	0	0
## 1758	1758	0	0	0	0	0	0	0	0	0	0	0
## 1759	1759	0	0	0	0	0	0	0	0	0	0	3
## 1760	1760	0	0	0	0	2	0	0	0	0	0	0
## 1761	1761	10	1	0	0	0	0	0	0	0	0	0

## 1762 1762	0	0	0	0	0	0	0	0	0	0	0
## 1763 1763	0	1	1	0	0	0	0	0	0	0	0
## 1764 1764	0	0	0	0	0	0	0	0	3	0	0
## 1765 1765	1	0	0	1	2	0	0	0	0	0	0
## 1766 1766	0	0	0	1	2	0	1	0	0	0	0
## 1767 1767	0	0	0	0	0	0	0	0	0	0	0
## 1768 1768	0	0	0	0	0	0	0	0	0	0	0
## 1769 1769	0	0	0	3	0	0	0	0	0	0	0
## 1770 1770	0	0	0	0	1	1	0	2	0	0	0
## 1771 1771	0	0	0	0	0	0	0	0	4	0	1
## 1772 1772	0	2	0	0	0	0	0	0	0	0	0
## 1773 1773	0	0	0	4	0	0	1	0	0	0	1
## 1774 1774	0	0	0	0	3	0	0	0	0	0	0
## 1775 1775	1	0	0	0	0	0	0	0	0	0	0
## 1776 1776	0	0	0	0	0	4	0	0	0	0	0
## 1777 1777	0	0	0	0	0	0	0	0	0	0	0
## 1778 1778	0	0	0	0	0	0	0	0	0	1	0
## 1779 1779	0	0	0	0	0	0	0	0	0	0	0
## 1780 1780	0	0	0	0	0	0	0	0	0	0	3
## 1781 1781	0	0	0	0	1	1	0	0	0	0	0
## 1782 1782	0	0	0	0	0	0	0	0	1	0	0
## 1783 1783	0	0	0	0	0	0	0	0	0	0	1
## 1784 1784	0	0	0	0	0	1	0	0	0	0	0
## 1785 1785	0	0	0	0	0	1	0	0	0	0	0
## 1786 1786	0	0	0	0	0	0	0	0	0	0	0
## 1787 1787	0	0	0	0	0	0	2	1	0	0	0
## 1788 1788	0	0	0	1	0	0	0	0	0	0	0
## 1789 1789	0	0	0	0	0	0	0	0	0	0	0
## 1790 1790	0	0	0	0	0	0	0	0	0	0	0
## 1791 1791	0	0	0	1	0	0	3	0	0	0	0
## 1792 1792	0	0	0	6	2	0	0	0	0	0	0
## 1793 1793	0	0	0	0	0	0	0	0	0	0	0
## 1794 1794	0	0	0	0	0	0	0	3	1	0	0
## 1795 1795	0	0	0	1	0	0	2	0	1	0	0
## 1796 1796	0	0	0	0	0	1	0	0	0	0	2
## 1797 1797	0	0	0	0	0	0	0	1	0	0	0
## 1798 1798	0	0	0	0	0	0	0	0	0	0	0
## 1799 1799	0	0	0	0	0	0	0	0	0	0	0
## 1800 1800	0	0	0	0	0	0	0	0	0	0	0
## 1801 1801	0	0	0	0	0	0	0	0	0	0	0
## 1802 1802	0	0	0	0	0	0	0	0	0	0	0
## 1803 1803	0	0	0	0	2	0	0	0	0	1	0
## 1804 1804	0	0	0	0	0	0	0	0	0	1	0
## 1805 1805	0	0	0	0	0	0	0	0	0	0	0
## 1806 1806	0	0	0	0	0	0	0	4	0	0	0
## 1807 1807	0	0	0	0	4	0	0	0	0	0	0
## 1808 1808	0	0	0	0	0	0	1	0	3	0	0
## 1809 1809	0	2	2	0	0	0	0	0	0	0	0
## 1810 1810	0	0	0	0	0	0	0	2	0	1	0
## 1811 1811	0	1	0	0	0	0	0	0	0	0	0
## 1812 1812	0	0	0	0	0	0	0	0	0	0	0
## 1813 1813	0	0	0	0	0	0	0	0	0	0	0
## 1814 1814	0	0	1	0	0	0	0	0	0	0	0
## 1815 1815	0	0	0	0	4	0	2	0	0	0	0

## 1816	1816	0	0	0	0	0	2	0	0	0	0	0
## 1817	1817	0	0	0	0	0	0	0	3	0	0	0
## 1818	1818	0	1	0	0	0	0	0	0	0	0	0
## 1819	1819	0	3	0	0	0	0	0	0	0	0	0
## 1820	1820	0	1	1	0	1	0	0	0	0	1	0
## 1821	1821	0	0	1	3	0	0	1	0	0	0	0
## 1822	1822	0	0	0	0	0	0	0	0	0	0	0
## 1823	1823	0	0	0	0	0	0	0	0	0	0	0
## 1824	1824	3	2	0	0	0	0	0	0	0	0	0
## 1825	1825	0	0	0	1	1	0	0	0	0	0	0
## 1826	1826	0	0	0	1	0	3	0	0	0	0	0
## 1827	1827	0	0	0	0	0	0	0	0	0	0	0
## 1828	1828	0	2	0	0	0	0	0	0	0	0	0
## 1829	1829	0	0	0	0	0	0	0	0	0	0	0
## 1830	1830	0	0	0	0	1	0	1	1	0	0	0
## 1831	1831	0	0	0	0	0	0	0	0	0	0	0
## 1832	1832	0	0	0	1	0	0	0	0	0	0	0
## 1833	1833	0	0	0	0	0	3	0	0	0	0	0
## 1834	1834	0	0	0	0	0	0	0	0	0	0	0
## 1835	1835	0	0	0	0	0	0	0	0	0	0	0
## 1836	1836	0	0	0	0	0	0	0	0	0	0	0
## 1837	1837	0	0	0	0	0	0	0	0	0	0	0
## 1838	1838	0	0	0	3	0	0	0	0	0	0	0
## 1839	1839	0	3	0	0	0	0	0	0	0	0	0
## 1840	1840	0	0	0	0	0	5	0	0	0	0	0
## 1841	1841	0	0	0	0	0	3	0	0	0	0	0
## 1842	1842	0	0	0	0	0	0	0	0	0	0	0
## 1843	1843	0	0	0	0	0	0	0	0	0	0	0
## 1844	1844	0	0	0	0	1	2	1	1	0	0	0
## 1845	1845	0	0	0	0	0	0	0	0	0	0	0
## 1846	1846	0	0	0	0	0	0	0	0	0	0	0
## 1847	1847	0	0	0	0	0	0	0	0	0	0	0
## 1848	1848	0	0	0	0	0	0	0	0	0	0	0
## 1849	1849	0	0	0	0	0	0	0	1	0	0	0
## 1850	1850	0	0	0	0	0	2	0	0	0	0	0
## 1851	1851	0	0	0	0	0	0	0	0	0	0	0
## 1852	1852	0	0	0	0	0	0	0	1	0	1	0
## 1853	1853	0	0	0	0	0	0	0	0	1	0	0
## 1854	1854	0	0	0	0	0	0	0	0	0	0	0
## 1855	1855	0	0	0	0	0	0	0	0	0	0	0
## 1856	1856	0	0	0	0	0	0	0	4	0	0	0
## 1857	1857	3	1	0	0	0	0	0	0	0	0	0
## 1858	1858	0	0	0	0	0	0	0	0	0	0	0
## 1859	1859	0	0	0	0	0	0	1	3	0	0	0
## 1860	1860	0	0	0	0	0	0	0	0	0	0	0
## 1861	1861	1	0	0	0	0	0	0	0	0	0	0
## 1862	1862	0	0	0	0	0	3	0	0	0	0	1
## 1863	1863	0	1	0	0	2	0	1	0	0	0	0
## 1864	1864	0	0	0	0	3	0	0	0	0	0	0
## 1865	1865	0	0	0	0	2	0	1	0	0	0	0
## 1866	1866	0	0	0	0	0	0	0	0	3	0	0
## 1867	1867	0	0	0	0	0	0	0	0	0	0	0
## 1868	1868	0	0	0	0	0	0	4	3	0	1	0
## 1869	1869	0	0	0	3	0	0	0	0	0	0	0

## 1870 1870	0	0	0	0	0	1	0	0	0	0	0
## 1871 1871	0	0	0	0	1	1	1	0	0	0	0
## 1872 1872	0	0	0	0	0	0	0	0	0	0	0
## 1873 1873	0	0	0	0	0	0	0	0	0	0	0
## 1874 1874	0	0	3	0	0	0	0	0	0	0	0
## 1875 1875	0	0	0	0	0	0	0	0	1	0	5
## 1876 1876	0	0	1	0	0	0	0	0	0	0	0
## 1877 1877	0	0	0	0	0	0	0	0	0	0	0
## 1878 1878	1	0	0	0	0	0	0	0	0	0	0
## 1879 1879	0	0	0	0	2	0	0	0	0	0	0
## 1880 1880	0	0	0	0	0	0	0	2	0	0	0
## 1881 1881	2	0	3	0	0	2	2	0	0	0	0
## 1882 1882	0	0	0	8	0	0	1	0	0	0	0
## 1883 1883	1	0	1	0	0	0	0	0	0	0	0
## 1884 1884	0	0	0	0	0	0	0	0	0	0	0
## 1885 1885	0	0	0	1	1	0	0	1	0	0	1
## 1886 1886	0	0	0	0	0	0	0	0	3	0	0
## 1887 1887	0	0	0	0	0	0	0	0	0	0	0
## 1888 1888	0	0	0	1	2	0	0	0	0	0	0
## 1889 1889	0	0	0	3	0	0	0	0	0	0	0
## 1890 1890	0	0	0	0	0	0	0	0	2	0	0
## 1891 1891	0	0	0	0	2	1	0	0	0	0	0
## 1892 1892	0	0	0	0	0	0	0	0	0	0	0
## 1893 1893	0	0	0	0	0	0	1	0	0	0	0
## 1894 1894	0	0	0	0	0	0	0	0	0	0	0
## 1895 1895	0	0	0	2	0	0	0	0	0	0	1
## 1896 1896	0	0	0	0	0	0	0	0	0	0	0
## 1897 1897	0	0	0	0	0	0	0	0	0	0	0
## 1898 1898	0	1	0	0	0	0	0	0	0	0	0
## 1899 1899	0	3	1	0	0	0	0	0	0	0	0
## 1900 1900	0	0	0	0	3	0	0	0	0	0	0
## 1901 1901	0	0	0	0	0	0	0	0	4	0	0
## 1902 1902	0	1	0	0	0	0	0	0	0	0	0
## 1903 1903	2	0	2	0	0	0	0	0	0	0	0
## 1904 1904	0	0	0	0	3	0	0	0	0	0	0
## 1905 1905	0	0	0	0	0	0	0	0	0	0	0
## 1906 1906	0	0	0	0	0	0	0	0	0	0	0
## 1907 1907	0	0	0	1	0	3	0	0	0	0	0
## 1908 1908	0	0	0	0	0	0	0	0	0	0	0
## 1909 1909	0	0	0	0	0	3	0	0	0	0	0
## 1910 1910	0	0	0	0	0	0	0	0	0	0	0
## 1911 1911	0	0	0	0	0	0	1	0	0	0	0
## 1912 1912	0	0	0	0	0	4	0	0	0	0	0
## 1913 1913	0	0	0	0	0	0	0	0	0	0	0
## 1914 1914	1	1	1	1	1	1	0	1	2	0	0
## 1915 1915	0	0	0	0	0	2	0	0	0	0	0
## 1916 1916	0	0	0	0	1	0	0	0	0	0	0
## 1917 1917	0	0	0	0	0	0	0	0	0	0	0
## 1918 1918	3	0	0	0	0	0	0	0	0	0	0
## 1919 1919	0	0	1	0	0	0	0	0	0	0	0
## 1920 1920	0	0	0	0	0	0	0	0	3	0	0
## 1921 1921	0	0	0	0	0	0	0	0	0	0	0
## 1922 1922	1	0	0	0	0	0	2	0	0	0	0
## 1923 1923	0	0	0	2	0	2	0	0	0	0	0

## 1924 1924	0	0	0	0	0	0	2	0	0	0	0
## 1925 1925	0	0	0	0	1	0	0	0	0	0	0
## 1926 1926	0	0	0	0	0	1	0	3	0	0	0
## 1927 1927	0	0	0	0	0	0	0	0	0	0	0
## 1928 1928	0	2	1	0	1	1	0	1	0	0	0
## 1929 1929	0	0	0	0	0	0	0	0	0	0	0
## 1930 1930	0	0	1	1	0	1	0	0	0	0	0
## 1931 1931	0	0	0	2	0	1	0	0	0	0	0
## 1932 1932	0	0	0	0	0	0	1	0	0	0	0
## 1933 1933	0	0	0	0	0	0	0	0	0	0	1
## 1934 1934	0	0	0	0	0	0	0	0	0	0	0
## 1935 1935	0	0	0	0	0	1	0	0	0	0	0
## 1936 1936	0	0	0	0	0	0	0	0	0	0	0
## 1937 1937	0	0	0	0	0	0	0	0	0	0	0
## 1938 1938	0	0	0	0	0	0	0	0	0	0	0
## 1939 1939	2	1	1	0	0	0	0	0	0	0	0
## 1940 1940	0	0	0	0	0	2	0	0	0	0	0
## 1941 1941	1	0	0	0	0	0	0	0	0	1	0
## 1942 1942	1	0	0	0	0	0	0	0	0	0	0
## 1943 1943	0	0	0	0	0	0	0	0	0	1	0
## 1944 1944	0	0	0	0	3	2	0	0	0	0	0
## 1945 1945	0	0	0	0	0	0	3	0	0	1	0
## 1946 1946	0	0	0	2	2	4	2	4	0	0	0
## 1947 1947	0	0	0	0	2	3	0	0	0	1	0
## 1948 1948	0	0	0	0	0	0	1	3	0	1	2
## 1949 1949	0	0	0	0	0	0	0	0	0	0	0
## 1950 1950	0	0	0	0	2	4	0	0	0	2	0
## 1951 1951	0	0	0	0	0	0	0	0	0	0	0
## 1952 1952	0	0	0	0	0	0	0	0	0	0	0
## 1953 1953	0	0	0	0	0	0	0	0	0	0	0
## 1954 1954	0	0	0	0	0	0	0	0	0	0	0
## 1955 1955	0	0	0	0	0	0	1	0	1	0	0
## 1956 1956	0	0	0	0	2	0	0	0	0	0	0
## 1957 1957	0	0	0	0	3	0	0	0	0	0	0
## 1958 1958	1	1	0	1	0	0	0	1	0	0	0
## 1959 1959	0	0	0	0	2	0	0	0	0	0	0
## 1960 1960	0	0	0	0	0	0	0	0	0	0	0
## 1961 1961	0	0	0	0	0	0	0	3	0	0	0
## 1962 1962	0	1	1	0	0	0	0	0	0	0	0
## 1963 1963	0	0	1	0	0	0	0	0	0	0	0
## 1964 1964	0	0	0	0	0	0	0	0	0	0	0
## 1965 1965	0	1	0	0	0	0	0	0	0	0	0
## 1966 1966	2	1	1	1	0	0	0	0	0	0	0
## 1967 1967	0	2	0	1	0	0	0	0	0	0	0
## 1968 1968	0	0	0	2	0	0	0	0	0	0	0
## 1969 1969	0	0	0	0	0	0	0	0	0	0	0
## 1970 1970	0	0	0	0	0	0	0	0	0	0	0
## 1971 1971	0	0	0	0	0	3	0	0	0	0	0
## 1972 1972	0	0	0	0	0	0	3	0	0	0	0
## 1973 1973	0	0	0	0	3	0	0	0	0	0	0
## 1974 1974	0	0	0	1	3	0	1	0	0	0	0
## 1975 1975	0	0	0	0	0	0	0	0	0	0	0
## 1976 1976	0	0	0	0	0	0	0	0	0	0	0
## 1977 1977	0	0	0	0	0	0	0	0	0	0	0

## 1978 1978	0	0	0	0	0	4	0	0	0	0	0
## 1979 1979	0	0	0	1	0	2	0	0	0	0	0
## 1980 1980	0	0	0	0	0	0	0	0	0	0	1
## 1981 1981	0	0	0	0	0	0	0	3	0	0	0
## 1982 1982	0	0	0	0	0	6	0	0	0	0	0
## 1983 1983	0	0	0	0	0	0	2	1	0	1	0
## 1984 1984	0	0	0	0	0	0	0	0	0	0	0
## 1985 1985	0	0	0	0	0	3	0	0	0	0	0
## 1986 1986	2	0	0	0	0	0	0	0	2	1	0
## 1987 1987	0	0	0	0	0	3	0	0	0	0	0
## 1988 1988	0	0	0	0	0	0	0	0	0	0	1
## 1989 1989	0	0	0	0	0	0	0	1	0	0	1
## 1990 1990	0	0	0	0	0	0	0	0	0	0	0
## 1991 1991	0	0	0	0	0	0	0	0	5	0	0
## 1992 1992	0	0	0	0	0	2	0	0	0	0	0
## 1993 1993	0	0	0	0	0	0	0	0	0	0	0
## 1994 1994	0	0	0	0	0	0	0	0	0	0	0
## 1995 1995	0	0	0	0	0	2	1	0	0	0	0
## 1996 1996	0	0	0	0	0	0	0	1	0	0	0
## 1997 1997	3	0	1	0	0	0	0	0	0	0	0
## 1998 1998	0	1	0	0	0	0	0	0	0	0	0
## 1999 1999	0	0	0	0	0	0	0	0	0	0	0
## 2000 2000	0	0	0	0	0	0	0	0	0	0	0
## 2001 2001	0	0	0	0	0	0	0	0	0	0	0
## 2002 2002	0	0	0	0	0	0	0	0	0	0	0
## 2003 2003	0	3	0	0	0	0	0	0	0	0	0
## 2004 2004	1	0	0	0	0	0	0	0	0	0	0
## 2005 2005	1	0	0	0	0	0	0	0	0	0	0
## 2006 2006	0	0	0	0	2	0	0	0	0	0	0
## 2007 2007	0	0	0	0	0	0	3	0	1	0	0
## 2008 2008	0	1	0	0	2	3	0	0	0	0	0
## 2009 2009	0	0	0	0	0	4	0	0	0	0	0
## 2010 2010	0	0	0	0	0	0	0	0	0	2	0
## 2011 2011	0	0	0	0	0	0	0	0	3	0	0
## 2012 2012	0	0	0	0	0	0	0	0	0	3	0
## 2013 2013	0	0	0	1	1	0	2	1	1	0	1
## 2014 2014	0	0	0	0	0	0	0	0	0	0	0
## 2015 2015	4	1	1	0	0	1	0	0	0	0	0
## 2016 2016	0	0	0	0	0	0	3	3	0	0	0
## 2017 2017	0	0	0	0	0	0	0	0	0	0	0
## 2018 2018	0	0	0	2	0	1	2	1	0	0	0
## 2019 2019	0	0	0	0	0	1	0	0	0	0	0
## 2020 2020	0	0	0	0	3	0	0	0	0	0	0
## 2021 2021	0	0	0	0	0	0	0	0	0	0	0
## 2022 2022	0	3	0	0	0	0	0	0	0	0	0
## 2023 2023	0	0	0	0	2	0	0	0	0	0	0
## 2024 2024	0	0	0	0	0	0	0	0	0	0	0
## 2025 2025	0	0	0	0	0	3	0	0	0	0	0
## 2026 2026	0	0	0	0	0	0	0	0	0	0	0
## 2027 2027	0	0	0	0	3	0	0	0	0	0	0
## 2028 2028	0	0	0	0	1	1	0	0	0	0	0
## 2029 2029	0	0	0	0	0	0	0	0	0	0	0
## 2030 2030	0	0	0	0	0	0	2	0	2	0	0
## 2031 2031	2	1	3	0	0	0	0	0	0	0	0

## 2032 2032	0	0	0	0	0	0	0	0	0	0	0
## 2033 2033	0	0	0	0	1	0	0	0	0	0	0
## 2034 2034	0	0	1	0	1	0	1	0	0	3	0
## 2035 2035	0	0	0	0	0	0	0	0	0	2	0
## 2036 2036	0	0	0	0	1	0	0	0	0	0	0
## 2037 2037	0	0	0	0	1	0	1	2	0	0	0
## 2038 2038	0	0	0	0	0	0	0	0	0	0	0
## 2039 2039	0	0	0	0	0	0	0	0	0	0	0
## 2040 2040	0	0	0	0	0	0	2	0	0	0	0
## 2041 2041	0	0	0	0	0	0	0	0	0	0	0
## 2042 2042	2	1	0	0	0	0	0	0	0	0	0
## 2043 2043	0	0	0	0	0	0	0	0	0	0	0
## 2044 2044	2	1	1	0	0	0	0	0	0	0	0
## 2045 2045	0	0	0	0	0	0	0	0	0	0	0
## 2046 2046	0	0	0	0	3	0	0	0	0	0	0
## 2047 2047	0	0	0	0	0	0	0	0	0	0	0
## 2048 2048	0	0	0	0	0	0	0	0	0	0	3
## 2049 2049	1	0	0	0	0	0	0	0	0	0	0
## 2050 2050	0	0	0	0	0	0	0	0	0	0	0
## 2051 2051	0	0	0	0	1	0	0	0	0	0	0
## 2052 2052	0	0	0	0	0	0	2	0	0	0	0
## 2053 2053	0	0	0	0	1	0	0	0	0	0	0
## 2054 2054	0	0	0	0	0	0	0	0	0	4	0
## 2055 2055	0	0	0	0	1	0	0	0	0	1	0
## 2056 2056	0	0	0	0	0	2	0	0	0	0	0
## 2057 2057	0	0	0	0	1	0	0	0	0	0	0
## 2058 2058	0	0	0	0	0	0	0	0	0	0	0
## 2059 2059	1	0	0	0	0	0	0	0	0	0	0
## 2060 2060	1	0	1	0	1	0	0	0	0	0	0
## 2061 2061	0	0	0	3	0	0	0	0	0	0	0
## 2062 2062	0	0	0	1	0	0	0	0	0	0	0
## 2063 2063	0	0	0	0	0	0	3	0	0	0	0
## 2064 2064	0	0	0	2	1	0	0	0	0	0	0
## 2065 2065	0	0	0	0	0	3	0	0	0	0	0
## 2066 2066	0	0	0	0	0	0	0	0	0	0	0
## 2067 2067	0	0	0	0	0	0	0	0	3	0	0
## 2068 2068	1	0	2	0	0	0	0	0	0	0	0
## 2069 2069	0	0	0	0	0	0	0	0	0	0	0
## 2070 2070	0	0	0	0	0	0	0	0	3	0	0
## 2071 2071	0	0	1	0	0	0	0	0	0	0	0
## 2072 2072	0	0	0	0	0	2	0	0	0	0	0
## 2073 2073	1	0	0	0	0	2	0	0	0	1	0
## 2074 2074	0	0	0	1	0	0	0	0	0	0	0
## 2075 2075	0	0	0	0	0	0	0	0	0	0	0
## 2076 2076	0	0	0	0	0	0	0	0	0	0	0
## 2077 2077	0	0	0	0	0	0	1	0	0	0	0
## 2078 2078	0	0	0	0	0	0	0	0	0	0	0
## 2079 2079	0	0	0	0	0	0	0	0	3	0	0
## 2080 2080	0	0	0	0	1	0	0	0	0	3	0
## 2081 2081	0	0	2	0	0	0	0	0	0	0	0
## 2082 2082	0	0	0	0	0	0	0	0	0	0	0
## 2083 2083	0	0	3	0	0	0	0	0	0	0	0
## 2084 2084	1	0	4	0	0	0	0	0	0	0	0
## 2085 2085	0	0	0	0	6	0	0	1	0	0	0

## 2086 2086	1	1	0	0	0	0	0	0	0	0	0
## 2087 2087	0	0	0	3	0	0	2	0	0	1	1
## 2088 2088	0	0	0	0	0	0	0	0	0	0	0
## 2089 2089	0	0	0	1	0	0	0	0	0	0	0
## 2090 2090	0	0	2	0	0	0	0	0	0	0	0
## 2091 2091	0	0	0	0	0	0	0	0	0	0	0
## 2092 2092	0	0	0	0	0	0	0	0	1	0	1
## 2093 2093	0	0	0	3	1	0	0	0	0	0	0
## 2094 2094	0	0	0	0	0	0	0	0	0	0	0
## 2095 2095	0	2	0	0	2	0	0	0	0	1	1
## 2096 2096	0	0	0	0	0	0	0	0	0	0	0
## 2097 2097	0	0	0	0	0	0	0	0	0	0	0
## 2098 2098	0	0	0	0	0	0	0	0	0	0	0
## 2099 2099	0	0	0	1	2	0	0	0	0	0	0
## 2100 2100	0	0	0	0	0	0	0	0	0	0	0
## 2101 2101	0	0	0	0	3	0	0	0	0	0	0
## 2102 2102	0	0	0	0	0	0	0	0	0	0	0
## 2103 2103	0	1	1	0	1	0	0	0	0	1	0
## 2104 2104	0	0	0	0	3	0	0	0	0	0	0
## 2105 2105	0	0	0	0	0	0	0	4	0	0	0
## 2106 2106	0	0	0	0	0	0	0	0	3	0	0
## 2107 2107	1	0	1	0	0	0	0	0	0	0	0
## 2108 2108	0	0	0	0	0	0	0	0	0	0	1
## 2109 2109	0	1	0	0	0	0	0	0	0	0	0
## 2110 2110	0	0	0	0	0	0	0	3	0	0	0
## 2111 2111	0	0	0	0	0	0	0	0	0	3	0
## 2112 2112	0	0	0	0	1	0	1	0	0	0	0
## 2113 2113	0	0	0	0	0	0	0	0	0	0	0
## 2114 2114	0	0	0	0	0	0	0	0	1	0	0
## 2115 2115	0	0	0	0	0	0	3	0	0	0	0
## 2116 2116	0	0	0	0	1	0	0	4	0	0	0
## 2117 2117	0	0	0	0	0	0	1	1	0	0	1
## 2118 2118	0	1	0	0	0	0	0	0	0	0	0
## 2119 2119	3	0	0	0	0	0	0	3	0	0	0
## 2120 2120	0	0	0	0	0	0	0	0	0	0	0
## 2121 2121	0	5	0	0	0	0	0	0	0	0	0
## 2122 2122	0	0	0	0	0	0	0	0	0	0	0
## 2123 2123	0	0	0	0	1	0	0	0	0	0	0
## 2124 2124	1	0	1	0	0	0	0	0	0	0	0
## 2125 2125	0	0	0	0	0	0	0	0	0	0	0
## 2126 2126	0	0	0	0	0	0	0	0	0	0	0
## 2127 2127	0	0	0	0	0	0	0	0	0	0	0
## 2128 2128	0	0	0	3	0	0	0	0	0	0	0
## 2129 2129	0	0	0	0	0	0	0	0	0	0	0
## 2130 2130	0	0	0	0	1	0	0	0	0	0	0
## 2131 2131	0	0	0	0	0	0	0	0	6	0	3
## 2132 2132	0	0	0	0	0	0	0	0	0	0	0
## 2133 2133	0	0	0	1	0	0	0	0	0	0	0
## 2134 2134	0	0	0	0	0	0	0	0	0	0	3
## 2135 2135	2	1	0	0	0	0	0	0	0	0	0
## 2136 2136	0	0	0	0	0	0	0	0	0	0	0
## 2137 2137	0	0	0	0	3	0	0	0	0	0	0
## 2138 2138	0	0	0	0	0	0	0	0	2	0	0
## 2139 2139	0	0	0	0	0	0	0	0	0	0	0

## 2140	2140	0	0	0	0	0	0	0	2	1	0
## 2141	2141	1	5	1	0	0	1	3	0	0	0
## 2142	2142	0	0	0	0	0	0	0	0	0	0
## 2143	2143	0	0	0	0	0	0	0	0	0	1
## 2144	2144	0	1	1	0	0	0	0	0	0	0
## 2145	2145	0	0	0	0	0	0	0	0	0	0
## 2146	2146	0	0	0	0	0	0	1	1	0	0
## 2147	2147	0	0	0	0	0	0	0	0	0	0
## 2148	2148	1	0	1	0	3	0	0	0	0	0
## 2149	2149	0	0	0	0	0	0	0	0	0	0
## 2150	2150	0	0	0	0	0	0	0	0	0	0
## 2151	2151	0	0	0	0	0	0	0	3	0	1
## 2152	2152	5	0	0	0	0	0	0	0	0	0
## 2153	2153	0	0	0	2	0	0	0	1	0	0
## 2154	2154	0	0	0	4	0	0	0	0	0	0
## 2155	2155	0	0	0	0	0	0	0	0	0	0
## 2156	2156	0	0	0	1	0	0	1	0	0	0
## 2157	2157	0	0	0	0	0	0	1	0	0	3
## 2158	2158	0	0	0	0	0	0	1	0	0	0
## 2159	2159	0	0	0	0	0	2	0	0	0	0
## 2160	2160	0	0	0	0	0	0	0	0	0	0
## 2161	2161	0	0	1	0	0	0	0	0	0	2
## 2162	2162	0	0	0	0	0	0	0	1	0	0
## 2163	2163	0	0	3	0	0	0	0	0	0	0
## 2164	2164	0	0	0	0	1	0	0	0	0	0
## 2165	2165	0	0	0	0	0	0	1	0	3	0
## 2166	2166	0	0	0	0	0	0	0	0	2	0
## 2167	2167	1	0	3	0	0	0	0	0	0	0
## 2168	2168	0	0	0	0	0	0	0	0	0	0
## 2169	2169	0	0	1	0	2	0	0	0	0	0
## 2170	2170	0	0	0	0	0	0	0	0	0	2
## 2171	2171	0	0	0	0	0	0	0	0	0	0
## 2172	2172	0	0	0	0	0	0	0	0	0	0
## 2173	2173	0	0	0	0	0	0	0	0	0	0
## 2174	2174	2	0	0	0	0	0	0	0	2	0
## 2175	2175	0	0	0	0	0	0	0	0	3	0
## 2176	2176	0	0	0	0	0	0	0	0	0	0
## 2177	2177	0	1	0	4	0	0	0	0	0	0
## 2178	2178	0	0	0	0	0	0	0	1	0	0
## 2179	2179	0	1	0	1	0	0	1	0	0	2
## 2180	2180	0	0	1	0	0	0	0	0	0	0
## 2181	2181	0	1	0	0	0	0	0	0	0	0
## 2182	2182	0	2	0	1	0	0	0	0	0	0
## 2183	2183	0	0	0	2	0	0	0	2	0	0
## 2184	2184	0	0	0	1	0	0	1	0	0	1
## 2185	2185	0	1	0	0	0	0	0	0	0	0
## 2186	2186	0	0	0	0	0	0	0	1	0	0
## 2187	2187	0	0	0	2	0	0	0	0	0	0
## 2188	2188	0	0	0	0	0	0	0	0	0	0
## 2189	2189	0	0	0	0	0	0	2	1	0	0
## 2190	2190	0	0	0	1	0	0	0	0	0	0
## 2191	2191	0	0	0	5	0	0	0	0	0	0
## 2192	2192	0	0	0	0	0	0	0	0	0	0
## 2193	2193	0	1	0	1	0	1	0	0	0	0

## 2194 2194	0	0	0	0	0	0	0	3	0	0	0
## 2195 2195	0	0	0	1	0	0	0	0	0	0	0
## 2196 2196	0	0	0	1	2	2	0	0	0	0	0
## 2197 2197	0	0	0	0	0	0	0	0	1	0	1
## 2198 2198	0	0	0	0	0	0	0	0	0	0	0
## 2199 2199	0	0	0	0	0	0	2	0	0	1	0
## 2200 2200	0	0	0	3	0	0	0	0	2	1	0
## 2201 2201	0	2	0	0	2	0	0	0	0	0	0
## 2202 2202	0	0	0	0	0	1	0	0	0	0	0
## 2203 2203	0	0	0	0	0	0	0	0	0	1	1
## 2204 2204	0	0	0	0	0	0	0	1	0	3	1
## 2205 2205	0	0	0	0	2	0	0	0	0	0	0
## 2206 2206	0	0	0	0	0	0	0	0	0	0	0
## 2207 2207	0	0	0	0	0	2	0	0	0	0	0
## 2208 2208	0	0	0	0	0	0	3	0	0	0	0
## 2209 2209	0	0	0	0	0	0	0	2	0	0	0
## 2210 2210	0	0	0	0	0	3	0	0	0	0	0
## 2211 2211	0	0	0	0	0	0	0	0	0	0	0
## 2212 2212	0	0	0	0	0	0	0	0	0	0	0
## 2213 2213	0	0	0	0	0	0	0	0	0	0	0
## 2214 2214	0	0	0	0	0	0	1	0	0	1	0
## 2215 2215	0	0	0	3	0	0	0	0	0	0	0
## 2216 2216	0	0	2	0	1	0	0	0	0	0	0
## 2217 2217	0	2	0	0	0	0	0	0	0	0	0
## 2218 2218	0	0	0	0	0	0	0	0	0	2	1
## 2219 2219	0	2	0	1	0	0	1	1	0	1	0
## 2220 2220	0	0	0	1	0	1	0	0	0	0	2
## 2221 2221	0	0	0	0	0	0	0	0	0	0	0
## 2222 2222	0	0	0	0	2	1	0	0	0	0	0
## 2223 2223	0	0	0	0	0	0	0	0	0	0	0
## 2224 2224	0	0	0	0	1	2	0	0	0	0	0
## 2225 2225	0	0	0	0	0	0	0	0	1	0	0
## 2226 2226	0	0	0	0	0	0	0	0	0	0	0
## 2227 2227	0	0	0	0	0	0	0	0	0	1	0
## 2228 2228	0	0	0	1	0	3	0	0	0	0	0
## 2229 2229	0	0	0	0	0	2	0	0	0	0	0
## 2230 2230	0	0	0	0	0	0	3	0	0	0	0
## 2231 2231	0	0	0	0	0	0	0	0	0	0	0
## 2232 2232	0	0	1	2	0	1	0	1	0	0	0
## 2233 2233	3	0	0	0	0	0	0	0	0	0	0
## 2234 2234	0	0	0	0	0	1	0	0	0	0	0
## 2235 2235	0	0	0	0	0	0	1	2	0	0	0
## 2236 2236	0	0	0	0	0	3	0	0	1	1	1
## 2237 2237	1	3	0	0	0	0	0	0	0	0	0
## 2238 2238	0	1	0	0	0	0	0	0	0	0	0
## 2239 2239	0	0	2	1	0	1	1	2	0	0	0
## 2240 2240	0	0	0	0	0	0	0	0	0	0	0
## 2241 2241	0	0	0	0	0	0	2	0	0	1	0
## 2242 2242	0	0	0	0	0	0	2	0	0	0	0
## 2243 2243	0	0	0	0	0	0	0	0	0	0	0
## 2244 2244	0	1	0	0	0	0	0	0	0	0	0
## 2245 2245	1	0	0	0	1	0	0	0	0	0	0
## 2246 2246	0	0	0	0	0	3	0	0	0	0	0
## 2247 2247	1	0	0	0	0	0	0	0	0	0	0

## 2248 2248	0	0	0	0	0	0	1	2	0	0	0
## 2249 2249	0	0	0	0	0	0	0	0	0	0	0
## 2250 2250	0	0	0	1	0	2	0	1	0	0	0
## 2251 2251	0	0	0	0	0	0	0	0	0	0	0
## 2252 2252	0	0	0	0	0	0	0	0	0	0	0
## 2253 2253	0	0	0	1	1	0	0	0	0	0	0
## 2254 2254	0	0	2	4	0	1	2	0	0	0	0
## 2255 2255	0	0	0	0	0	1	1	0	0	0	0
## 2256 2256	0	0	0	0	0	0	1	0	0	0	0
## 2257 2257	0	0	0	0	0	3	0	0	0	0	0
## 2258 2258	0	0	0	0	0	0	0	1	0	0	0
## 2259 2259	0	0	0	0	0	0	0	0	0	0	0
## 2260 2260	0	0	1	0	0	0	0	0	0	0	0
## 2261 2261	0	0	0	0	0	0	0	0	0	0	0
## 2262 2262	0	0	0	0	0	0	1	0	0	0	0
## 2263 2263	0	0	0	0	0	0	0	0	3	0	0
## 2264 2264	0	0	0	0	0	0	0	0	0	0	0
## 2265 2265	0	2	1	0	0	0	0	0	0	0	0
## 2266 2266	0	0	0	0	1	0	0	0	0	0	0
## 2267 2267	0	0	0	0	0	0	0	0	0	0	0
## 2268 2268	0	0	0	0	0	0	0	0	0	0	0
## 2269 2269	0	0	0	0	0	0	0	0	3	0	0
## 2270 2270	0	0	0	0	0	0	0	0	0	0	0
## 2271 2271	0	2	0	0	1	0	1	0	0	0	0
## 2272 2272	0	0	0	0	0	0	0	0	0	0	0
## 2273 2273	0	0	0	0	0	0	0	0	0	0	0
## 2274 2274	0	0	0	0	0	2	0	0	0	0	0
## 2275 2275	0	0	0	0	0	0	0	0	0	3	0
## 2276 2276	0	0	0	0	0	0	0	0	2	0	0
## 2277 2277	0	0	0	0	0	0	0	0	0	0	0
## 2278 2278	2	1	0	0	0	0	0	0	0	0	0
## 2279 2279	0	0	0	0	0	0	3	0	0	0	0
## 2280 2280	0	0	0	0	0	0	0	0	0	0	0
## 2281 2281	0	0	0	0	0	0	0	0	0	0	0
## 2282 2282	0	0	0	1	0	0	0	0	0	0	0
## 2283 2283	0	0	0	2	0	1	0	0	1	0	2
## 2284 2284	0	0	0	0	0	0	0	0	0	0	3
## 2285 2285	0	0	0	0	0	0	0	0	0	0	3
## 2286 2286	1	0	0	1	0	0	1	2	0	0	0
## 2287 2287	0	0	0	0	0	0	0	0	0	1	0
## 2288 2288	0	0	0	0	0	0	0	0	0	0	0
## 2289 2289	0	0	0	1	0	3	0	0	0	0	0
## 2290 2290	0	0	0	0	0	0	3	2	0	0	0
## 2291 2291	0	0	1	2	0	0	0	0	0	0	0
## 2292 2292	0	0	0	0	0	0	0	0	1	0	0
## 2293 2293	0	0	0	0	0	0	0	0	0	0	0
## 2294 2294	1	0	0	0	0	0	0	0	0	0	0
## 2295 2295	0	0	0	0	0	0	0	0	0	0	0
## 2296 2296	0	0	0	0	0	0	0	2	0	0	0
## 2297 2297	0	0	0	0	0	0	0	0	0	0	0
## 2298 2298	0	0	0	0	0	0	0	0	0	0	0
## 2299 2299	0	0	0	1	0	1	0	0	0	0	0
## 2300 2300	0	0	0	0	0	0	0	3	0	0	0
## 2301 2301	0	0	0	1	0	0	0	0	0	0	0

## 2302	2302	0	0	0	0	3	0	1	0	0	0	0
## 2303	2303	0	0	0	0	0	0	0	0	0	0	0
## 2304	2304	0	0	0	0	0	0	0	0	0	0	0
## 2305	2305	0	1	0	1	0	0	0	0	0	0	0
## 2306	2306	0	0	0	0	0	0	1	6	0	0	0
## 2307	2307	0	0	0	0	0	0	0	0	4	0	0
## 2308	2308	3	0	0	0	0	0	0	0	0	0	0
## 2309	2309	0	0	0	2	1	0	0	0	0	0	0
## 2310	2310	0	0	0	0	0	3	0	0	0	0	0
## 2311	2311	0	0	0	0	0	0	0	3	0	0	0
## 2312	2312	0	0	0	0	0	0	0	0	0	0	0
## 2313	2313	0	0	0	0	0	0	0	0	0	0	1
## 2314	2314	0	0	0	0	0	0	0	0	0	3	0
## 2315	2315	0	0	0	0	0	0	0	3	0	0	0
## 2316	2316	4	5	0	0	0	0	0	0	0	0	0
## 2317	2317	0	0	0	0	0	0	0	0	0	1	0
## 2318	2318	0	0	0	0	0	0	3	0	0	0	0
## 2319	2319	0	0	0	3	0	0	4	0	0	0	0
## 2320	2320	0	0	0	0	0	0	0	1	0	0	0
## 2321	2321	0	0	0	0	0	0	1	1	0	1	0
## 2322	2322	0	0	0	0	0	0	0	2	0	0	0
## 2323	2323	0	0	0	0	0	2	1	0	0	0	0
## 2324	2324	0	0	0	0	0	0	0	0	0	0	0
## 2325	2325	0	0	0	0	0	0	0	0	0	0	0
## 2326	2326	0	1	0	0	0	0	5	5	0	0	0
## 2327	2327	0	0	0	0	0	0	2	0	0	0	0
## 2328	2328	0	0	0	0	0	0	0	0	0	0	1
## 2329	2329	0	0	0	0	0	0	0	0	0	0	0
## 2330	2330	0	0	0	0	0	0	0	0	0	0	1
## 2331	2331	0	0	0	0	0	0	0	0	0	0	0
## 2332	2332	0	0	0	2	0	0	0	0	0	0	0
## 2333	2333	0	0	0	0	0	0	0	0	4	0	0
## 2334	2334	0	0	0	0	0	0	0	0	3	0	0
## 2335	2335	0	0	0	1	0	0	0	0	0	0	0
## 2336	2336	3	1	1	0	0	0	0	0	0	0	0
## 2337	2337	0	0	0	0	0	1	0	0	0	1	0
## 2338	2338	0	0	0	1	0	0	0	0	0	0	0
## 2339	2339	0	0	0	0	0	0	0	0	0	2	1
## 2340	2340	0	0	0	0	0	0	0	0	0	0	0
## 2341	2341	0	0	0	2	0	0	0	0	0	0	0
## 2342	2342	0	0	0	1	1	0	0	1	0	0	0
## 2343	2343	0	0	0	0	0	0	0	0	0	0	0
## 2344	2344	0	0	0	0	0	0	0	0	0	0	0
## 2345	2345	0	3	0	0	0	0	0	0	0	0	0
## 2346	2346	3	0	0	0	0	0	0	0	0	0	0
## 2347	2347	0	0	0	0	0	0	0	0	2	0	1
## 2348	2348	0	0	0	0	0	0	0	0	0	0	0
## 2349	2349	2	1	0	0	0	0	0	0	0	0	0
## 2350	2350	0	0	0	0	0	0	0	0	0	0	0
## 2351	2351	0	0	0	0	0	0	0	0	2	3	0
## 2352	2352	0	0	0	0	0	0	0	0	0	0	0
## 2353	2353	0	0	0	0	0	0	0	0	0	0	0
## 2354	2354	0	0	0	0	3	0	0	0	0	0	0
## 2355	2355	0	1	0	0	0	0	0	0	0	0	0

## 2356	2356	0	0	0	0	0	0	0	0	0	0	0
## 2357	2357	2	0	3	0	0	0	0	0	0	0	0
## 2358	2358	0	1	0	0	0	0	0	0	0	0	0
## 2359	2359	0	0	0	0	0	0	0	1	0	0	0
## 2360	2360	0	0	1	0	3	1	0	5	0	0	0
## 2361	2361	3	0	0	0	0	0	0	0	0	0	0
## 2362	2362	0	0	0	0	0	0	0	0	0	0	1
## 2363	2363	0	2	0	2	0	1	0	0	0	0	0
## 2364	2364	0	0	0	0	0	0	1	4	0	0	0
## 2365	2365	0	0	0	0	0	2	0	0	0	0	0
## 2366	2366	0	0	0	0	0	0	0	0	0	0	0
## 2367	2367	0	0	0	3	0	0	0	0	0	0	0
## 2368	2368	0	0	2	0	1	0	0	0	0	0	0
## 2369	2369	1	0	0	1	0	0	0	0	0	0	0
## 2370	2370	0	0	0	0	0	0	0	0	0	0	0
## 2371	2371	0	0	0	0	0	0	0	0	0	0	0
## 2372	2372	0	0	0	1	0	0	0	0	0	0	0
## 2373	2373	0	0	0	2	0	0	2	1	0	0	0
## 2374	2374	0	0	0	0	0	0	0	0	0	0	0
## 2375	2375	0	0	0	0	0	0	0	0	0	0	0
## 2376	2376	0	0	0	0	0	0	0	0	0	0	0
## 2377	2377	0	0	0	0	3	0	0	0	0	0	0
## 2378	2378	0	0	0	0	0	0	0	0	3	0	0
## 2379	2379	0	0	0	1	0	1	0	0	0	0	0
## 2380	2380	0	0	0	0	0	0	0	0	0	3	1
## 2381	2381	0	0	0	0	0	0	0	0	0	0	0
## 2382	2382	0	0	0	0	0	0	4	0	0	0	0
## 2383	2383	0	0	0	0	0	0	0	2	0	0	0
## 2384	2384	0	0	0	1	1	2	0	1	0	0	0
## 2385	2385	0	0	0	0	0	0	0	0	0	0	0
## 2386	2386	0	0	0	0	1	0	0	0	0	0	1
## 2387	2387	0	0	0	0	0	0	0	0	0	0	0
## 2388	2388	0	0	0	0	0	3	0	0	0	0	0
## 2389	2389	1	0	0	0	0	1	0	0	0	0	0
## 2390	2390	0	0	0	0	0	0	0	0	0	0	0
## 2391	2391	0	0	0	0	0	0	0	0	0	0	0
## 2392	2392	0	0	0	0	0	0	0	3	0	0	0
## 2393	2393	0	0	0	3	0	0	0	0	0	0	1
## 2394	2394	0	0	0	0	0	0	0	1	0	1	0
## 2395	2395	0	0	0	0	0	0	0	0	0	0	0
## 2396	2396	0	0	0	0	0	0	0	0	0	0	0
## 2397	2397	0	0	0	1	3	0	0	0	0	0	0
## 2398	2398	0	0	1	0	0	0	0	0	0	0	0
## 2399	2399	0	0	0	0	0	2	0	1	0	0	0
## 2400	2400	0	0	0	2	0	0	0	0	0	0	0
## 2401	2401	0	0	0	0	0	0	0	0	0	0	0
## 2402	2402	0	0	0	0	0	0	0	0	2	0	0
## 2403	2403	2	1	0	0	0	0	0	0	0	0	1
## 2404	2404	1	2	0	0	0	0	0	0	0	0	0
## 2405	2405	0	0	0	0	0	0	0	1	3	0	0
## 2406	2406	0	0	0	0	0	0	1	0	0	0	0
## 2407	2407	0	0	0	0	0	0	0	2	0	0	0
## 2408	2408	0	0	2	0	0	0	0	0	0	0	0
## 2409	2409	0	0	0	3	0	0	0	0	0	0	0

## 2410	2410	0	0	0	0	0	0	0	1	1	0
## 2411	2411	0	0	2	0	0	0	0	0	0	0
## 2412	2412	0	0	0	0	0	0	0	0	1	0
## 2413	2413	1	0	0	2	0	0	0	0	0	0
## 2414	2414	0	0	0	0	0	0	0	0	0	0
## 2415	2415	0	0	0	0	0	0	0	0	0	0
## 2416	2416	0	0	0	0	0	0	0	4	0	0
## 2417	2417	0	0	0	0	0	0	0	0	0	0
## 2418	2418	0	0	0	0	0	0	0	2	0	0
## 2419	2419	1	0	1	0	0	0	0	0	0	0
## 2420	2420	0	0	0	0	0	0	0	0	0	0
## 2421	2421	0	0	0	0	1	0	0	0	0	0
## 2422	2422	0	0	0	0	0	0	0	4	1	0
## 2423	2423	0	0	1	2	0	0	0	0	0	0
## 2424	2424	0	0	0	0	0	2	0	0	0	0
## 2425	2425	0	0	1	0	0	0	0	0	0	0
## 2426	2426	0	0	0	0	0	0	0	2	0	0
## 2427	2427	0	0	0	0	0	0	0	0	2	0
## 2428	2428	0	0	0	0	0	0	0	0	0	0
## 2429	2429	0	0	0	0	0	0	0	0	0	0
## 2430	2430	0	0	0	0	0	0	0	0	2	0
## 2431	2431	1	0	1	1	0	0	0	0	0	0
## 2432	2432	0	0	0	0	0	0	2	0	0	0
## 2433	2433	0	3	0	0	0	0	0	0	0	0
## 2434	2434	0	1	0	1	0	0	0	0	0	0
## 2435	2435	0	0	0	0	0	2	0	0	0	0
## 2436	2436	0	0	0	2	0	0	1	1	1	0
## 2437	2437	0	0	0	2	0	0	0	0	0	0
## 2438	2438	0	0	0	0	0	0	1	0	0	0
## 2439	2439	0	0	0	0	0	0	0	0	0	0
## 2440	2440	0	0	0	0	0	2	0	0	0	0
## 2441	2441	0	0	0	0	0	0	0	3	0	0
## 2442	2442	0	0	1	0	0	0	0	0	0	0
## 2443	2443	0	0	0	0	0	0	0	0	0	0
## 2444	2444	0	0	0	0	0	0	0	0	2	0
## 2445	2445	0	0	0	0	0	0	1	1	0	0
## 2446	2446	0	0	0	0	1	0	0	0	0	0
## 2447	2447	0	0	0	1	0	0	0	3	0	0
## 2448	2448	0	2	0	0	0	0	0	0	0	0
## 2449	2449	0	0	0	0	0	0	0	0	0	0
## 2450	2450	0	0	0	0	0	0	0	0	0	0
## 2451	2451	0	0	2	0	0	0	0	0	0	0
## 2452	2452	0	0	0	0	0	0	0	0	0	0
## 2453	2453	0	0	0	0	0	0	0	0	0	0
## 2454	2454	1	0	0	0	0	0	0	0	0	0
## 2455	2455	0	0	0	0	2	0	0	0	0	0
## 2456	2456	0	0	0	0	0	2	0	0	0	0
## 2457	2457	0	0	0	0	0	0	0	0	0	0
## 2458	2458	0	0	0	0	0	0	0	0	0	3
## 2459	2459	0	2	1	0	0	0	0	0	0	0
## 2460	2460	0	0	0	0	0	0	0	0	0	0
## 2461	2461	0	2	0	0	0	0	0	0	0	0
## 2462	2462	0	0	0	0	1	1	0	0	0	0
## 2463	2463	0	0	0	0	0	0	0	0	0	0

## 2464 2464	2	0	0	0	0	0	0	0	0	0	0	0
## 2465 2465	0	0	0	0	0	0	1	0	0	0	1	0
## 2466 2466	0	0	0	0	0	0	0	0	0	0	0	0
## 2467 2467	0	0	0	0	2	0	0	0	0	0	2	0
## 2468 2468	0	0	0	0	0	0	0	0	0	0	0	2
## 2469 2469	0	0	0	0	0	0	0	0	0	0	0	0
## 2470 2470	0	0	0	0	0	0	0	0	0	0	0	0
## 2471 2471	1	2	0	0	1	0	6	2	0	1	0	0
## 2472 2472	0	0	0	0	0	0	0	0	1	0	2	0
## 2473 2473	0	0	0	0	0	0	0	0	0	0	0	0
## 2474 2474	0	0	2	0	0	0	0	0	0	0	0	0
## 2475 2475	0	0	0	0	0	0	0	0	2	0	0	0
## 2476 2476	0	0	0	1	0	0	0	0	0	0	0	0
## 2477 2477	0	0	0	0	0	0	3	0	0	1	0	0
## 2478 2478	0	0	0	0	2	0	1	0	0	0	0	0
## 2479 2479	0	0	0	0	2	0	0	0	0	0	0	0
## 2480 2480	0	0	0	0	0	0	0	2	0	0	0	0
## 2481 2481	0	0	0	0	0	0	0	0	0	0	0	0
## 2482 2482	0	0	2	0	0	0	0	0	0	0	0	0
## 2483 2483	0	0	0	0	0	0	0	0	0	0	0	0
## 2484 2484	0	0	0	0	0	2	0	0	0	0	0	0
## 2485 2485	0	0	0	0	0	2	0	0	0	0	0	0
## 2486 2486	0	0	0	0	0	0	0	0	1	0	0	0
## 2487 2487	0	0	0	0	0	0	0	3	0	0	0	0
## 2488 2488	0	1	1	0	0	0	0	0	2	0	0	0
## 2489 2489	0	0	0	0	0	4	0	0	0	0	0	0
## 2490 2490	0	1	2	1	0	1	0	0	0	0	0	0
## 2491 2491	0	0	0	0	0	0	0	0	0	0	0	0
## 2492 2492	1	0	0	0	0	0	0	0	0	0	0	0
## 2493 2493	0	0	0	0	0	0	0	0	0	0	0	0
## 2494 2494	0	0	0	0	0	1	0	3	0	0	0	0
## 2495 2495	0	2	0	0	0	0	0	0	0	0	0	0
## 2496 2496	0	0	0	0	0	0	2	0	0	0	0	0
## 2497 2497	0	0	0	0	0	0	0	0	0	0	0	0
## 2498 2498	0	0	0	0	0	0	0	0	0	0	0	0
## 2499 2499	0	1	1	0	1	0	0	0	0	0	0	0
## 2500 2500	0	0	0	0	0	0	2	0	0	0	0	0
## 2501 2501	0	0	0	0	2	0	0	0	0	0	0	0
## 2502 2502	0	0	0	0	0	0	0	0	0	0	0	0
## 2503 2503	0	0	0	0	0	0	0	2	0	0	0	0
## 2504 2504	0	0	0	0	2	0	0	0	0	0	0	0
## 2505 2505	0	0	0	0	0	0	1	0	0	0	1	0
## 2506 2506	0	0	0	0	0	0	0	0	0	0	0	0
## 2507 2507	0	0	0	2	0	0	0	0	0	0	0	0
## 2508 2508	1	0	0	0	0	0	0	0	0	0	0	0
## 2509 2509	0	0	0	0	0	0	0	0	0	0	0	0
## 2510 2510	0	0	0	0	0	0	0	0	0	0	0	0
## 2511 2511	0	1	0	0	0	1	0	2	0	0	0	0
## 2512 2512	0	0	0	0	0	0	0	0	0	0	0	0
## 2513 2513	0	0	0	0	0	0	1	0	0	0	0	0
## 2514 2514	0	0	0	0	0	0	0	0	0	0	0	0
## 2515 2515	0	0	0	0	0	0	0	0	0	0	0	0
## 2516 2516	0	0	0	0	0	0	0	0	0	0	0	0
## 2517 2517	0	0	2	0	0	0	0	0	0	0	0	0

## 2518	2518	0	0	0	0	0	1	1	3	0	0	0
## 2519	2519	0	0	0	0	0	0	0	0	0	0	0
## 2520	2520	0	0	0	0	0	0	0	0	0	0	0
## 2521	2521	0	0	0	0	0	0	0	0	0	0	0
## 2522	2522	0	0	0	0	0	0	0	0	0	0	0
## 2523	2523	0	0	0	0	1	0	0	0	0	0	0
## 2524	2524	0	0	0	0	0	0	0	0	0	0	0
## 2525	2525	0	1	1	0	0	0	0	0	0	0	0
## 2526	2526	0	0	0	0	0	0	0	0	0	0	0
## 2527	2527	0	0	0	0	0	0	0	0	0	0	0
## 2528	2528	0	0	0	0	0	0	0	0	0	0	0
## 2529	2529	0	0	0	0	0	0	0	0	0	2	0
## 2530	2530	0	0	0	0	0	0	0	2	2	0	0
## 2531	2531	1	0	0	0	0	0	0	0	0	0	0
## 2532	2532	0	0	1	0	0	1	0	0	0	0	0
## 2533	2533	0	0	0	0	0	0	0	0	0	0	0
## 2534	2534	0	0	0	0	0	0	0	0	0	1	0
## 2535	2535	1	0	0	0	0	0	0	0	0	0	0
## 2536	2536	2	0	0	0	0	0	0	0	0	0	0
## 2537	2537	0	0	0	0	1	0	0	0	0	0	0
## 2538	2538	0	0	0	1	0	0	0	0	0	0	0
## 2539	2539	0	0	0	0	0	0	0	2	0	0	0
## 2540	2540	0	0	0	0	0	0	0	0	0	0	0
## 2541	2541	0	0	0	0	1	0	0	0	0	0	0
## 2542	2542	0	1	0	0	0	0	0	0	0	0	0
## 2543	2543	0	0	0	0	0	0	0	0	0	0	0
## 2544	2544	0	0	0	0	2	0	0	0	0	0	0
## 2545	2545	0	0	0	0	0	0	0	0	0	0	1
## 2546	2546	0	0	0	1	1	0	2	0	0	0	0
## 2547	2547	0	0	0	0	0	0	0	0	0	0	0
## 2548	2548	0	0	0	0	0	0	0	0	0	0	0
## 2549	2549	0	1	1	0	0	0	0	0	0	0	0
## 2550	2550	0	0	0	0	2	0	0	0	0	0	0
## 2551	2551	0	0	0	0	0	0	0	0	3	0	0
## 2552	2552	0	0	0	0	0	0	0	0	0	0	0
## 2553	2553	0	0	0	0	0	0	0	0	0	0	0
## 2554	2554	0	0	0	0	0	0	0	3	0	0	0
## 2555	2555	0	0	0	0	0	0	0	0	0	0	0
## 2556	2556	0	0	0	0	0	0	0	0	0	0	0
## 2557	2557	0	0	0	0	0	0	0	0	0	0	0
## 2558	2558	0	1	0	0	0	0	0	0	1	0	0
## 2559	2559	0	0	0	0	0	0	2	0	0	0	0
## 2560	2560	2	0	0	0	0	0	0	0	0	0	0
## 2561	2561	0	0	0	2	0	0	0	0	0	0	0
## 2562	2562	0	0	0	0	0	0	0	0	0	0	0
## 2563	2563	0	0	0	0	0	0	0	0	0	0	0
## 2564	2564	0	0	0	0	0	0	0	0	0	0	2
## 2565	2565	0	0	0	0	0	0	0	0	0	0	0
## 2566	2566	0	0	0	0	0	0	0	2	0	0	0
## 2567	2567	0	0	0	0	0	2	0	0	0	0	0
## 2568	2568	0	0	0	0	0	0	0	2	0	0	0
## 2569	2569	0	0	0	0	2	0	0	0	0	0	0
## 2570	2570	0	0	0	0	0	0	0	0	0	0	0
## 2571	2571	0	0	0	1	0	0	0	0	0	0	0

## 2572	2572	0	0	0	0	0	0	0	0	0	0
## 2573	2573	0	0	0	0	0	0	1	0	0	0
## 2574	2574	0	1	0	0	0	0	0	0	0	0
## 2575	2575	0	0	0	0	0	0	2	0	0	0
## 2576	2576	0	0	0	0	0	0	0	0	0	0
## 2577	2577	0	1	0	1	0	0	0	0	0	0
## 2578	2578	0	0	0	0	0	0	0	0	0	0
## 2579	2579	0	0	0	0	0	0	0	0	1	1
## 2580	2580	0	2	0	0	0	0	0	0	0	1
## 2581	2581	0	0	0	0	0	0	0	0	0	0
## 2582	2582	0	0	0	0	0	2	0	0	0	0
## 2583	2583	5	1	0	0	0	0	0	0	0	0
## 2584	2584	0	0	0	0	0	0	0	0	0	0
## 2585	2585	1	0	0	0	0	0	0	0	0	0
## 2586	2586	0	0	0	0	0	0	2	0	0	0
## 2587	2587	0	0	0	0	0	0	0	2	0	0
## 2588	2588	0	0	0	0	2	0	0	0	0	0
## 2589	2589	0	0	0	0	0	0	0	0	0	0
## 2590	2590	0	0	0	0	2	0	0	0	0	0
## 2591	2591	0	0	0	0	0	0	0	0	0	0
## 2592	2592	0	0	0	0	0	0	0	0	0	0
## 2593	2593	0	1	0	0	0	0	0	0	0	2
## 2594	2594	1	1	1	2	0	3	0	0	0	0
## 2595	2595	0	0	0	0	0	0	0	0	0	2
## 2596	2596	0	0	0	0	0	0	0	0	0	2
## 2597	2597	0	0	0	0	0	0	0	0	0	1
## 2598	2598	0	0	1	2	0	0	1	0	0	0
## 2599	2599	0	0	0	0	0	0	0	0	0	0
## 2600	2600	0	2	0	0	0	0	0	0	0	0
## 2601	2601	0	0	0	0	0	0	0	0	0	0
## 2602	2602	2	0	0	0	0	0	0	0	0	0
## 2603	2603	0	0	0	0	0	0	0	0	0	0
## 2604	2604	0	0	0	0	0	0	0	0	0	0
## 2605	2605	0	0	0	2	0	1	0	0	0	0
## 2606	2606	0	0	0	2	0	0	0	0	0	0
## 2607	2607	0	0	0	0	0	0	1	0	0	0
## 2608	2608	0	0	0	0	0	0	0	2	0	0
## 2609	2609	0	0	0	1	1	1	0	0	1	0
## 2610	2610	0	0	0	0	0	0	0	0	0	0
## 2611	2611	0	0	0	0	0	0	0	0	0	0
## 2612	2612	0	0	0	0	0	0	0	0	0	0
## 2613	2613	0	0	0	0	0	0	0	0	0	0
## 2614	2614	0	0	0	0	0	0	0	0	0	0
## 2615	2615	2	1	0	0	0	0	0	0	0	0
## 2616	2616	0	0	0	2	0	1	0	0	0	0
## 2617	2617	0	0	0	2	0	0	0	0	0	0
## 2618	2618	0	0	0	0	0	0	0	0	0	0
## 2619	2619	0	0	0	2	0	0	0	0	0	0
## 2620	2620	0	0	0	1	1	0	0	0	0	0
## 2621	2621	0	0	0	0	0	0	0	0	0	0
## 2622	2622	0	0	0	0	0	0	1	0	0	0
## 2623	2623	0	0	0	0	0	0	1	0	0	0
## 2624	2624	0	0	0	0	0	0	0	0	0	0
## 2625	2625	0	0	0	0	1	1	0	0	0	0

## 2626	2626	0	0	0	2	0	0	0	0	0	0	0
## 2627	2627	0	0	0	0	0	0	0	1	0	0	0
## 2628	2628	0	0	0	0	0	0	0	0	0	0	0
## 2629	2629	0	0	0	0	0	0	1	0	0	0	1
## 2630	2630	0	0	0	0	1	0	0	1	0	2	0
## 2631	2631	0	3	1	0	0	0	0	0	0	0	0
## 2632	2632	0	0	0	0	0	1	0	0	0	0	0
## 2633	2633	0	0	0	2	0	0	0	0	0	0	0
## 2634	2634	2	1	0	0	0	0	0	0	0	0	0
## 2635	2635	0	0	0	1	2	0	0	0	0	0	0
## 2636	2636	0	0	0	0	0	1	0	0	0	0	0
## 2637	2637	0	0	0	1	0	0	0	0	0	0	0
## 2638	2638	0	0	0	2	0	2	0	0	0	0	0
## 2639	2639	0	0	0	0	0	0	0	0	0	2	0
## 2640	2640	0	2	0	0	0	0	0	0	0	0	0
## 2641	2641	2	1	0	0	0	0	0	0	0	0	0
## 2642	2642	0	0	0	0	0	0	0	0	3	0	0
## 2643	2643	0	0	0	0	2	0	0	0	0	0	0
## 2644	2644	0	0	0	0	0	0	0	0	0	0	0
## 2645	2645	0	0	0	0	0	0	0	0	0	0	0
## 2646	2646	0	0	0	0	0	0	2	0	0	0	0
## 2647	2647	0	0	0	0	0	0	1	0	0	0	0
## 2648	2648	1	0	1	0	0	0	0	0	0	0	0
## 2649	2649	0	0	0	0	0	0	0	0	0	0	0
## 2650	2650	0	0	0	0	0	0	0	0	0	0	0
## 2651	2651	0	0	0	0	0	0	0	0	0	0	0
## 2652	2652	0	0	0	0	0	0	0	0	0	0	1
## 2653	2653	0	0	0	0	2	0	0	0	0	0	0
## 2654	2654	0	0	0	0	0	0	1	1	0	0	0
## 2655	2655	0	2	0	0	0	0	0	0	0	0	0
## 2656	2656	0	0	0	0	0	0	0	0	0	0	2
## 2657	2657	0	0	3	1	0	0	0	0	0	0	0
## 2658	2658	0	0	0	0	0	0	0	0	0	0	0
## 2659	2659	0	0	0	0	0	0	0	0	1	0	0
## 2660	2660	1	0	1	0	0	0	0	0	0	0	0
## 2661	2661	0	0	0	1	0	0	0	0	0	0	0
## 2662	2662	0	0	0	0	0	0	0	0	0	0	0
## 2663	2663	0	0	0	0	0	0	0	0	0	0	0
## 2664	2664	0	0	1	0	2	0	0	0	0	0	0
## 2665	2665	0	0	0	0	0	0	0	0	0	0	0
## 2666	2666	0	0	0	0	0	0	0	0	0	0	0
## 2667	2667	0	0	0	0	0	0	2	0	0	0	0
## 2668	2668	0	0	0	0	0	0	0	0	0	0	0
## 2669	2669	0	0	0	0	0	0	0	0	0	0	0
## 2670	2670	0	0	0	0	0	0	2	0	0	0	0
## 2671	2671	0	0	2	0	0	0	0	0	0	0	0
## 2672	2672	0	0	0	0	0	2	0	0	0	0	0
## 2673	2673	0	0	0	0	0	0	0	0	0	0	0
## 2674	2674	0	0	0	0	2	0	0	0	0	0	0
## 2675	2675	0	0	0	0	0	1	0	0	0	0	0
## 2676	2676	0	0	0	0	0	0	0	1	0	0	0
## 2677	2677	0	0	0	0	0	0	0	0	0	0	0
## 2678	2678	0	0	0	0	0	0	0	0	0	0	0
## 2679	2679	0	0	0	0	0	0	0	0	0	0	0

## 2680	2680	0	0	0	0	0	0	0	0	0	0
## 2681	2681	0	0	0	0	0	0	0	0	0	0
## 2682	2682	0	0	0	0	1	0	3	0	0	0
## 2683	2683	0	0	0	0	0	0	0	0	0	0
## 2684	2684	2	0	0	0	0	0	0	0	0	0
## 2685	2685	0	0	0	2	0	0	0	0	0	0
## 2686	2686	0	0	0	0	0	0	2	0	0	1
## 2687	2687	0	0	0	0	0	0	0	0	0	0
## 2688	2688	0	0	0	0	0	0	0	0	0	0
## 2689	2689	0	0	0	0	0	2	0	0	0	0
## 2690	2690	0	0	0	0	0	0	0	0	0	0
## 2691	2691	0	0	0	1	2	1	1	0	0	0
## 2692	2692	0	0	0	0	0	0	0	2	0	0
## 2693	2693	0	0	0	0	0	0	0	0	0	0
## 2694	2694	0	0	0	0	0	0	0	0	0	0
## 2695	2695	0	0	0	0	0	0	0	0	0	0
## 2696	2696	2	0	0	0	0	0	0	0	0	0
## 2697	2697	0	2	0	0	0	0	0	0	0	0
## 2698	2698	0	0	0	2	1	0	0	0	0	0
## 2699	2699	0	0	0	0	0	0	0	0	0	0
## 2700	2700	0	0	0	0	0	0	0	1	0	0
## 2701	2701	0	0	0	0	0	0	2	0	0	0
## 2702	2702	0	0	0	0	2	0	0	0	0	0
## 2703	2703	0	0	0	0	0	0	0	0	0	0
## 2704	2704	0	0	0	0	0	0	0	1	0	0
## 2705	2705	0	0	0	0	0	0	0	0	2	0
## 2706	2706	0	0	0	0	0	0	0	0	0	0
## 2707	2707	1	0	0	0	0	0	0	0	0	0
## 2708	2708	0	0	0	0	0	0	0	0	0	0
## 2709	2709	0	0	0	0	0	0	2	0	0	1
## 2710	2710	0	0	0	0	0	0	0	2	0	0
## 2711	2711	0	0	0	0	0	0	0	0	0	3
## 2712	2712	0	0	2	0	0	0	0	0	0	0
## 2713	2713	0	0	0	1	0	0	1	0	3	0
## 2714	2714	0	0	0	0	0	0	0	1	0	0
## 2715	2715	0	1	1	0	0	0	0	0	0	0
## 2716	2716	0	2	0	0	0	0	0	0	0	0
## 2717	2717	0	0	0	0	0	0	0	0	2	0
## 2718	2718	0	0	0	0	0	0	0	0	0	0
## 2719	2719	0	0	0	0	0	0	0	0	2	0
## 2720	2720	0	0	0	0	0	0	0	0	0	0
## 2721	2721	0	0	0	0	0	0	0	0	0	0
## 2722	2722	0	2	0	0	0	0	0	0	0	0
## 2723	2723	0	0	0	1	0	0	1	0	0	0
## 2724	2724	0	1	0	0	0	0	0	0	0	0
## 2725	2725	0	0	0	0	0	0	0	0	0	0
## 2726	2726	0	0	0	0	0	0	0	0	0	0
## 2727	2727	0	1	0	0	0	0	0	0	0	0
## 2728	2728	0	0	0	0	0	0	2	0	0	0
## 2729	2729	0	1	0	0	0	0	0	0	0	0
## 2730	2730	0	1	2	0	0	0	0	0	0	0
## 2731	2731	1	0	3	1	1	0	0	0	0	0
## 2732	2732	0	1	0	0	0	0	0	0	0	0
## 2733	2733	0	0	0	0	0	0	0	0	0	0

## 2734	2734	0	0	0	0	0	0	0	0	0	0	0
## 2735	2735	0	0	0	0	0	2	0	0	0	0	0
## 2736	2736	0	0	0	0	0	0	0	0	0	0	0
## 2737	2737	0	0	0	0	0	1	0	0	0	0	0
## 2738	2738	0	0	0	0	0	0	0	0	4	0	0
## 2739	2739	0	0	0	0	1	0	0	1	1	0	0
## 2740	2740	0	0	0	0	0	0	0	0	0	0	2
## 2741	2741	0	0	0	1	0	1	0	1	1	0	0
## 2742	2742	0	0	0	0	0	0	1	1	0	0	0
## 2743	2743	0	0	0	0	0	0	0	0	0	0	0
## 2744	2744	0	0	2	0	0	0	0	0	0	0	0
## 2745	2745	0	0	0	0	0	0	2	0	0	0	0
## 2746	2746	0	0	0	0	0	0	2	0	0	0	0
## 2747	2747	0	0	3	0	0	0	0	0	0	0	0
## 2748	2748	1	0	0	0	0	0	0	0	0	0	0
## 2749	2749	0	0	0	0	0	0	2	0	0	0	0
## 2750	2750	0	0	3	0	0	0	0	0	0	0	0
## 2751	2751	0	0	0	0	0	0	0	0	0	0	0
## 2752	2752	0	0	0	0	0	2	0	0	0	0	0
## 2753	2753	0	2	0	0	0	0	0	0	0	0	0
## 2754	2754	0	0	0	0	0	2	0	0	0	0	0
## 2755	2755	0	0	0	0	0	0	0	0	0	0	0
## 2756	2756	0	0	0	0	0	0	0	0	0	0	0
## 2757	2757	2	0	0	0	0	0	0	0	0	0	0
## 2758	2758	0	0	0	0	0	1	0	0	0	0	0
## 2759	2759	0	0	0	0	0	0	0	2	0	0	0
## 2760	2760	0	0	0	0	1	0	0	0	1	0	0
## 2761	2761	0	0	0	0	0	0	0	0	0	0	0
## 2762	2762	0	0	0	0	0	0	0	0	0	0	0
## 2763	2763	0	2	0	0	0	0	0	0	0	0	0
## 2764	2764	0	0	0	0	0	0	0	0	0	0	0
## 2765	2765	1	0	0	0	0	0	1	1	0	0	0
## 2766	2766	0	0	0	0	0	0	2	1	0	0	0
## 2767	2767	0	0	0	0	2	0	0	0	0	0	0
## 2768	2768	0	0	0	0	0	0	0	0	0	0	0
## 2769	2769	0	0	0	0	0	2	0	0	0	0	0
## 2770	2770	0	1	0	0	0	0	0	1	0	0	0
## 2771	2771	0	0	0	0	0	0	2	0	0	0	1
## 2772	2772	0	0	0	0	0	2	0	0	0	0	0
## 2773	2773	0	0	0	0	0	0	0	2	0	0	0
## 2774	2774	0	0	0	0	0	0	0	0	0	2	1
## 2775	2775	0	0	0	0	0	0	0	0	0	0	0
## 2776	2776	0	1	0	1	0	0	0	0	0	0	0
## 2777	2777	0	0	0	0	0	0	0	0	0	0	0
## 2778	2778	0	0	0	0	0	0	0	0	0	0	0
## 2779	2779	0	0	0	0	2	0	0	0	0	0	0
## 2780	2780	0	0	0	0	0	0	0	0	0	0	0
## 2781	2781	1	2	0	0	0	0	0	0	0	0	0
## 2782	2782	0	0	0	0	0	1	0	0	0	0	0
## 2783	2783	0	0	0	0	0	0	0	0	0	0	0
## 2784	2784	0	0	0	0	2	0	0	0	0	0	0
## 2785	2785	0	0	0	0	2	1	0	0	0	0	0
## 2786	2786	0	0	0	0	0	2	0	0	0	0	0
## 2787	2787	0	0	0	1	1	0	0	0	0	0	0

## 2788	2788	0	0	0	0	0	1	1	0	0	0	0
## 2789	2789	0	0	0	0	0	0	0	0	0	0	2
## 2790	2790	0	0	0	0	0	0	2	0	0	0	0
## 2791	2791	0	0	3	0	0	0	0	0	0	0	0
## 2792	2792	0	0	0	0	0	0	0	0	0	0	0
## 2793	2793	0	0	0	0	0	0	1	0	0	0	0
## 2794	2794	0	0	0	0	0	0	0	0	2	0	0
## 2795	2795	1	0	0	0	0	0	0	0	0	0	0
## 2796	2796	0	0	0	0	2	0	0	0	0	0	0
## 2797	2797	0	0	0	1	0	0	0	0	0	0	0
## 2798	2798	0	1	0	0	1	0	0	0	0	0	0
## 2799	2799	0	0	0	0	0	0	0	1	0	0	0
## 2800	2800	0	1	0	0	0	0	0	0	0	2	0
## 2801	2801	0	0	0	0	0	0	1	0	0	0	0
## 2802	2802	0	0	0	0	0	0	0	0	0	0	0
## 2803	2803	0	0	2	0	0	0	0	0	0	0	0
## 2804	2804	0	0	0	0	0	0	0	0	0	0	0
## 2805	2805	0	0	1	1	0	0	1	1	0	0	0
## 2806	2806	0	0	0	0	0	0	0	0	0	0	0
## 2807	2807	0	0	0	0	0	0	0	0	2	0	0
## 2808	2808	0	0	2	0	0	0	0	0	0	0	0
## 2809	2809	0	0	0	0	1	0	0	0	0	0	0
## 2810	2810	0	0	0	0	0	0	0	0	0	0	0
## 2811	2811	0	0	0	0	0	0	0	0	0	0	0
## 2812	2812	0	0	0	0	1	0	0	0	0	0	0
## 2813	2813	0	0	0	0	0	0	0	0	0	0	0
## 2814	2814	0	0	0	2	0	0	0	0	0	0	0
## 2815	2815	0	0	0	3	0	0	0	0	0	2	0
## 2816	2816	0	0	0	0	0	0	0	0	0	0	0
## 2817	2817	1	0	0	0	0	0	0	0	0	0	0
## 2818	2818	2	0	0	0	0	0	0	0	0	0	0
## 2819	2819	0	0	0	0	0	0	2	0	0	0	0
## 2820	2820	1	0	1	5	0	0	0	0	0	0	0
## 2821	2821	0	0	0	0	0	0	0	0	0	0	0
## 2822	2822	1	0	0	0	1	0	0	0	0	1	0
## 2823	2823	0	0	0	0	1	0	0	0	0	0	0
## 2824	2824	0	0	0	0	0	0	0	0	1	1	0
## 2825	2825	0	0	0	0	0	0	0	0	0	0	1
## 2826	2826	0	0	0	0	0	0	2	0	0	0	0
## 2827	2827	0	0	0	0	0	0	0	0	0	0	0
## 2828	2828	0	0	0	0	0	0	0	0	0	0	0
## 2829	2829	2	0	0	1	0	0	1	0	1	0	0
## 2830	2830	0	0	0	0	0	0	0	0	2	0	1
## 2831	2831	2	0	0	0	0	0	0	0	0	0	0
## 2832	2832	0	0	0	0	0	0	1	0	0	0	0
## 2833	2833	0	0	0	0	0	0	0	0	3	0	0
## 2834	2834	0	0	0	2	0	0	0	0	0	0	0
## 2835	2835	0	0	0	0	0	0	0	0	0	0	0
## 2836	2836	0	0	0	0	0	0	0	0	0	1	0
## 2837	2837	0	0	0	0	0	0	1	0	0	0	1
## 2838	2838	0	0	0	0	0	0	0	0	0	0	0
## 2839	2839	0	0	0	0	0	0	1	0	0	0	0
## 2840	2840	0	0	0	0	0	0	0	0	0	0	0
## 2841	2841	0	0	0	0	0	0	0	0	1	0	0

## 2842	2842	0	0	0	0	0	0	2	0	0	0	0
## 2843	2843	0	0	2	0	0	0	0	0	0	0	0
## 2844	2844	0	0	0	0	0	0	0	0	0	0	0
## 2845	2845	0	0	0	0	0	0	0	0	0	0	0
## 2846	2846	2	0	0	0	0	0	0	0	0	0	0
## 2847	2847	0	0	0	0	0	0	0	0	0	0	0
## 2848	2848	0	0	0	0	0	0	0	0	0	0	0
## 2849	2849	0	0	0	0	0	0	0	0	0	0	0
## 2850	2850	0	0	0	1	0	1	0	0	0	0	0
## 2851	2851	0	0	0	0	0	0	0	0	0	0	0
## 2852	2852	0	1	0	0	0	0	0	0	0	0	0
## 2853	2853	0	0	0	0	0	0	0	0	0	0	0
## 2854	2854	0	0	0	0	0	0	0	0	0	2	0
## 2855	2855	0	0	0	0	2	0	0	0	0	0	0
## 2856	2856	0	0	0	0	0	2	0	0	0	0	0
## 2857	2857	0	0	2	0	0	0	0	0	0	0	0
## 2858	2858	1	0	0	0	1	0	0	0	0	0	0
## 2859	2859	0	0	0	0	0	2	0	0	0	0	0
## 2860	2860	0	0	0	0	0	0	0	0	0	0	0
## 2861	2861	0	0	0	0	0	1	0	1	0	0	2
## 2862	2862	0	0	0	0	0	0	0	0	0	0	0
## 2863	2863	0	2	0	0	0	0	0	0	0	0	0
## 2864	2864	0	0	0	0	0	0	0	0	0	0	3
## 2865	2865	0	0	0	0	0	0	0	0	0	0	0
## 2866	2866	0	0	0	0	0	0	0	0	0	0	0
## 2867	2867	0	0	0	0	0	0	0	0	0	0	0
## 2868	2868	0	0	0	0	0	0	0	0	0	0	0
## 2869	2869	0	0	0	0	0	0	0	0	0	0	0
## 2870	2870	0	0	2	0	0	0	0	0	0	0	0
## 2871	2871	0	0	0	0	0	0	0	0	0	0	2
## 2872	2872	0	0	0	0	0	0	0	0	2	0	0
## 2873	2873	0	0	0	0	0	0	0	0	0	0	0
## 2874	2874	0	0	0	0	0	0	0	0	0	0	0
## 2875	2875	0	0	0	0	0	0	0	0	3	0	0
## 2876	2876	0	0	0	0	0	0	0	1	0	0	0
## 2877	2877	0	0	0	0	0	0	0	0	4	0	0
## 2878	2878	0	0	0	0	0	0	0	0	1	0	0
## 2879	2879	0	0	0	0	2	0	0	0	0	0	0
## 2880	2880	0	0	0	0	0	0	0	0	0	0	1
## 2881	2881	0	0	2	0	0	0	0	0	0	0	0
## 2882	2882	0	0	0	0	0	1	0	2	0	0	0
## 2883	2883	0	0	0	0	0	0	0	0	0	0	0
## 2884	2884	0	0	0	0	0	0	0	0	0	0	2
## 2885	2885	0	0	0	0	0	0	0	0	0	0	0
## 2886	2886	0	0	0	0	0	0	1	0	0	0	0
## 2887	2887	0	0	0	0	0	0	1	1	0	0	0
## 2888	2888	0	0	0	0	0	0	2	0	0	0	0
## 2889	2889	0	0	0	0	0	0	0	0	1	0	0
## 2890	2890	0	0	0	0	0	0	0	0	3	0	0
## 2891	2891	0	0	2	0	0	0	0	0	0	0	0
## 2892	2892	0	0	0	0	0	0	0	0	0	1	2
## 2893	2893	0	0	0	0	0	0	0	0	0	0	0
## 2894	2894	1	0	1	0	0	0	0	0	0	0	0
## 2895	2895	0	0	0	0	0	0	0	0	1	0	2

## 2896	2896	0	0	0	0	0	0	0	0	2	0	0
## 2897	2897	0	0	0	3	2	0	0	0	0	0	0
## 2898	2898	0	0	0	0	0	0	2	0	0	0	0
## 2899	2899	0	1	1	1	1	0	0	0	0	0	0
## 2900	2900	0	0	0	0	1	1	0	0	0	0	0
## 2901	2901	0	0	0	0	0	0	0	1	0	0	0
## 2902	2902	0	0	0	0	0	0	0	0	0	0	0
## 2903	2903	0	0	0	0	0	0	0	0	0	0	0
## 2904	2904	0	0	0	0	0	0	1	0	0	0	0
## 2905	2905	0	0	0	0	0	0	0	0	0	0	0
## 2906	2906	0	0	0	0	0	2	0	0	0	0	0
## 2907	2907	0	1	0	0	0	0	0	0	0	0	0
## 2908	2908	0	1	0	1	0	0	0	0	0	0	0
## 2909	2909	0	0	0	0	0	1	0	0	0	0	0
## 2910	2910	0	0	0	0	0	0	0	0	0	0	0
## 2911	2911	0	1	0	0	0	0	0	0	0	0	0
## 2912	2912	0	0	1	0	0	1	0	0	0	0	0
## 2913	2913	0	0	0	0	0	0	0	0	0	0	0
## 2914	2914	0	0	0	1	0	0	0	4	0	0	0
## 2915	2915	0	0	0	0	0	0	0	0	2	0	0
## 2916	2916	0	0	0	0	0	0	0	0	0	0	0
## 2917	2917	0	0	0	0	0	0	0	0	0	0	0
## 2918	2918	0	0	0	2	0	0	0	0	0	0	0
## 2919	2919	0	0	0	0	0	0	0	0	1	0	0
## 2920	2920	0	1	0	0	0	0	0	0	0	0	0
## 2921	2921	0	0	0	0	1	1	0	0	0	0	0
## 2922	2922	0	0	0	0	0	0	0	0	0	0	0
## 2923	2923	0	0	0	0	0	0	0	0	0	0	0
## 2924	2924	0	0	0	0	0	0	0	2	0	0	0
## 2925	2925	0	0	0	4	0	0	0	0	0	0	0
## 2926	2926	0	0	0	0	0	0	0	0	0	0	0
## 2927	2927	0	0	0	0	0	0	0	0	0	0	0
## 2928	2928	0	0	0	0	0	0	2	0	0	0	0
## 2929	2929	0	0	0	1	0	0	0	2	0	0	0
## 2930	2930	0	0	0	2	0	0	0	0	0	0	0
## 2931	2931	0	0	2	0	0	0	0	0	0	2	0
## 2932	2932	0	1	0	0	0	0	0	0	0	0	0
## 2933	2933	0	0	1	0	0	0	0	0	0	0	0
## 2934	2934	0	0	0	0	0	0	0	0	0	0	0
## 2935	2935	0	0	0	1	0	2	0	0	0	0	0
## 2936	2936	0	0	0	0	0	0	0	0	0	0	0
## 2937	2937	0	0	0	0	0	0	0	0	0	0	0
## 2938	2938	0	0	0	0	0	0	0	0	1	0	1
## 2939	2939	0	0	0	0	0	0	0	0	0	0	0
## 2940	2940	0	0	0	0	0	0	0	0	0	0	0
## 2941	2941	0	0	0	0	0	0	0	0	2	0	0
## 2942	2942	0	0	0	0	0	0	0	0	0	0	0
## 2943	2943	0	0	0	0	0	0	0	0	1	0	1
## 2944	2944	0	0	0	0	0	0	0	0	0	0	0
## 2945	2945	0	0	0	0	0	0	0	2	0	0	0
## 2946	2946	0	1	0	0	0	0	2	1	0	0	0
## 2947	2947	0	0	0	0	2	0	0	0	0	0	0
## 2948	2948	0	0	0	0	0	0	0	0	0	0	0
## 2949	2949	0	0	0	1	0	0	0	0	0	0	0

## 2950 2950	1	0	0	0	2	0	0	0	0	0	0
## 2951 2951	0	0	0	0	0	0	0	0	0	0	2
## 2952 2952	0	0	0	0	0	0	0	0	0	0	0
## 2953 2953	0	0	0	0	0	0	0	0	0	0	2
## 2954 2954	0	0	0	0	0	0	0	0	1	0	0
## 2955 2955	0	0	0	0	0	0	0	0	0	0	0
## 2956 2956	2	0	0	0	0	0	0	0	0	0	0
## 2957 2957	0	0	0	0	0	0	0	0	0	0	0
## 2958 2958	0	2	0	0	0	0	0	0	0	0	0
## 2959 2959	0	0	0	0	0	0	0	0	0	0	0
## 2960 2960	0	0	0	0	0	0	0	0	0	0	0
## 2961 2961	0	0	0	0	0	0	2	1	0	0	0
## 2962 2962	0	0	2	0	0	0	0	0	0	0	0
## 2963 2963	0	0	0	0	1	0	1	0	0	0	0
## 2964 2964	0	0	0	0	0	0	0	0	0	0	0
## 2965 2965	1	0	0	0	0	0	0	0	0	0	0
## 2966 2966	0	0	0	0	2	0	0	0	0	0	0
## 2967 2967	0	0	0	0	0	0	0	0	0	0	2
## 2968 2968	0	0	0	0	0	0	0	0	0	0	1
## 2969 2969	0	0	0	0	0	0	0	0	0	0	0
## 2970 2970	0	1	0	0	0	0	0	0	0	0	0
## 2971 2971	0	0	0	0	0	0	0	0	0	0	0
## 2972 2972	0	0	0	0	0	0	0	0	0	0	0
## 2973 2973	0	0	0	0	0	0	0	0	0	0	0
## 2974 2974	0	0	0	2	0	0	0	0	0	0	0
## 2975 2975	0	0	0	2	0	2	0	0	0	0	0
## 2976 2976	0	2	0	0	0	0	0	0	0	0	0
## 2977 2977	0	0	2	0	0	0	0	0	0	0	0
## 2978 2978	0	0	0	0	0	0	0	2	0	0	0
## 2979 2979	0	0	0	0	0	0	0	0	0	0	0
## 2980 2980	0	0	0	0	0	0	0	1	0	1	0
## 2981 2981	0	0	2	0	0	0	0	0	0	0	0
## 2982 2982	0	0	1	1	0	1	0	0	0	0	0
## 2983 2983	0	0	0	0	0	0	1	0	0	0	0
## 2984 2984	0	1	1	0	0	0	0	0	0	0	0
## 2985 2985	0	0	0	0	2	0	0	0	0	0	0
## 2986 2986	0	0	0	0	3	1	1	0	0	0	0
## 2987 2987	1	1	0	0	0	0	1	0	0	0	0
## 2988 2988	0	0	0	0	0	0	0	0	0	0	2
## 2989 2989	0	0	0	0	0	0	0	0	3	0	0
## 2990 2990	0	0	0	0	0	0	2	0	0	0	0
## 2991 2991	0	0	0	0	0	0	0	0	0	0	0
## 2992 2992	1	1	0	0	0	0	0	0	0	0	0
## 2993 2993	0	0	0	0	0	0	0	0	0	0	0
## 2994 2994	0	0	0	0	0	0	0	0	0	0	2
## 2995 2995	0	0	0	1	0	1	0	0	0	0	0
## 2996 2996	0	0	0	0	0	0	0	0	0	2	0
## 2997 2997	0	0	1	0	0	0	0	0	0	0	0
## 2998 2998	0	0	0	0	0	0	0	0	0	0	0
## 2999 2999	0	0	1	1	0	0	0	0	0	0	0
## 3000 3000	0	1	1	0	0	0	0	0	0	0	0
## 3001 3001	0	0	0	0	2	0	0	0	0	0	0
## 3002 3002	0	0	0	2	0	0	1	0	0	0	0
## 3003 3003	1	0	0	2	0	0	0	0	0	0	0

## 3004 3004	0	0	0	0	0	0	0	0	0	0	0	0
## 3005 3005	0	0	0	0	0	0	0	0	0	0	0	0
## 3006 3006	0	0	0	0	0	0	2	0	0	0	0	0
## 3007 3007	0	1	2	0	0	0	0	0	0	0	0	0
## 3008 3008	0	0	0	0	0	0	0	0	2	0	0	0
## 3009 3009	0	0	0	0	0	0	0	0	0	0	0	0
## 3010 3010	0	0	0	0	0	0	0	0	0	0	0	0
## 3011 3011	0	0	0	0	0	0	0	0	1	1	0	0
## 3012 3012	0	0	0	0	0	0	0	0	2	0	0	0
## 3013 3013	0	0	0	0	0	0	0	2	0	0	0	0
## 3014 3014	0	0	0	0	0	0	2	0	0	0	0	1
## 3015 3015	0	0	0	0	0	2	0	0	0	0	0	0
## 3016 3016	0	0	0	0	0	0	0	3	0	1	1	0
## 3017 3017	0	0	0	0	0	2	0	0	0	0	0	0
## 3018 3018	0	0	0	0	0	0	2	2	0	0	0	0
## 3019 3019	0	0	0	0	0	0	0	0	0	0	0	0
## 3020 3020	1	0	2	1	2	0	0	0	0	0	0	0
## 3021 3021	0	0	0	0	0	0	0	0	0	0	0	0
## 3022 3022	0	0	0	0	0	0	0	0	0	0	0	0
## 3023 3023	0	0	0	0	0	0	0	0	1	0	0	0
## 3024 3024	0	0	0	0	0	2	0	0	0	0	0	0
## 3025 3025	0	0	0	0	0	0	0	0	0	0	0	0
## 3026 3026	0	0	0	0	0	0	0	0	1	1	0	0
## 3027 3027	0	2	0	0	0	0	0	0	0	0	0	0
## 3028 3028	0	0	0	0	0	0	2	0	0	0	0	0
## 3029 3029	0	0	0	0	0	0	0	0	0	0	0	0
## 3030 3030	0	0	0	0	0	0	0	3	0	0	0	0
## 3031 3031	0	0	0	1	0	0	0	0	2	0	0	0
## 3032 3032	0	0	0	0	0	0	0	0	0	0	0	0
## 3033 3033	0	0	2	0	0	0	0	0	0	0	0	0
## 3034 3034	0	0	0	0	0	0	0	0	0	0	0	0
## 3035 3035	2	0	0	0	0	0	0	0	0	0	0	0
## 3036 3036	0	0	0	0	0	0	0	0	0	0	0	0
## 3037 3037	0	0	0	0	0	0	0	0	0	0	0	0
## 3038 3038	0	0	0	0	1	0	0	0	0	0	0	0
## 3039 3039	0	0	0	0	0	0	0	1	0	0	0	0
## 3040 3040	0	0	0	0	0	0	0	0	2	0	0	0
## 3041 3041	0	0	0	0	0	0	0	0	3	0	0	0
## 3042 3042	0	0	0	0	0	0	0	0	0	0	0	0
## 3043 3043	0	0	0	0	0	0	0	0	0	0	0	0
## 3044 3044	0	0	0	2	0	0	0	0	0	0	0	0
## 3045 3045	0	0	0	0	1	0	0	0	0	0	0	0
## 3046 3046	0	0	2	0	0	0	0	0	0	0	0	0
## 3047 3047	0	0	0	0	0	1	0	0	0	0	0	0
## 3048 3048	0	0	0	0	0	0	0	4	0	0	0	0
## 3049 3049	0	0	0	0	3	0	0	0	0	0	0	0
## 3050 3050	0	0	0	0	0	0	0	0	0	0	1	0
## 3051 3051	0	0	0	0	0	1	0	0	0	0	0	0
## 3052 3052	0	0	0	0	0	0	0	0	0	0	0	0
## 3053 3053	0	0	0	2	0	3	0	0	0	0	0	0
## 3054 3054	1	0	0	1	1	0	0	0	0	0	0	0
## 3055 3055	0	0	0	0	0	2	0	0	0	0	0	0
## 3056 3056	0	0	0	0	0	0	0	0	0	0	0	0
## 3057 3057	0	0	0	0	0	0	0	0	0	0	0	0

## 3058 3058	0	0	0	2	0	0	0	0	0	0	0
## 3059 3059	0	2	0	0	0	0	0	0	0	0	0
## 3060 3060	1	0	2	0	0	0	0	0	0	0	0
## 3061 3061	0	2	0	0	0	0	0	0	0	0	0
## 3062 3062	0	0	0	0	0	0	0	0	1	0	0
## 3063 3063	0	0	0	0	0	0	0	0	0	0	1
## 3064 3064	0	0	0	1	0	1	3	0	0	1	0
## 3065 3065	0	0	0	0	0	0	0	0	1	0	0
## 3066 3066	0	0	0	1	0	1	0	0	0	0	0
## 3067 3067	1	0	3	0	0	0	0	0	0	0	0
## 3068 3068	0	0	0	0	0	0	2	0	0	0	0
## 3069 3069	0	2	0	0	0	0	0	0	0	0	0
## 3070 3070	1	1	0	0	0	0	0	0	0	0	0
## 3071 3071	0	0	4	0	0	0	0	0	0	0	0
## 3072 3072	0	0	0	0	0	0	0	0	0	0	0
## 3073 3073	0	0	0	0	0	0	0	0	0	0	0
## 3074 3074	0	0	0	4	0	0	0	0	0	1	0
## 3075 3075	0	0	1	0	0	0	0	0	0	0	0
## 3076 3076	0	0	0	0	0	0	0	0	0	0	0
## 3077 3077	0	0	0	0	1	1	1	0	0	0	0
## 3078 3078	0	0	0	0	0	0	0	0	0	2	0
## 3079 3079	0	0	0	0	0	0	0	0	0	0	0
## 3080 3080	0	0	0	0	0	0	0	0	0	0	2
## 3081 3081	0	0	0	0	0	3	0	0	0	0	0
## 3082 3082	0	0	0	0	0	0	0	0	0	1	0
## 3083 3083	0	0	1	0	0	0	0	0	0	0	0
## 3084 3084	2	0	0	0	0	0	0	0	0	0	0
## 3085 3085	0	0	3	0	0	0	0	0	0	0	0
## 3086 3086	1	1	0	0	0	0	0	0	0	0	0
## 3087 3087	0	0	0	0	2	1	2	0	1	0	0
## 3088 3088	0	0	0	0	0	0	0	0	2	0	0
## 3089 3089	0	0	0	0	0	0	0	0	0	0	0
## 3090 3090	0	0	0	0	0	0	0	0	0	0	0
## 3091 3091	0	0	0	0	0	0	0	0	0	0	0
## 3092 3092	0	0	0	0	1	0	0	0	1	0	2
## 3093 3093	0	0	0	0	2	0	0	0	0	0	0
## 3094 3094	0	0	0	0	0	0	0	0	0	0	0
## 3095 3095	0	0	0	0	0	0	0	0	0	0	0
## 3096 3096	0	2	1	0	1	0	0	0	0	0	0
## 3097 3097	0	0	0	0	1	0	0	0	0	0	0
## 3098 3098	0	0	0	0	0	0	0	0	0	0	0
## 3099 3099	0	0	0	0	0	0	0	0	0	0	0
## 3100 3100	0	0	0	0	0	0	0	0	0	0	0
## 3101 3101	0	0	0	2	0	0	0	0	0	0	0
## 3102 3102	0	0	0	0	0	0	0	3	0	0	0
## 3103 3103	0	0	0	0	0	0	0	0	2	0	0
## 3104 3104	0	0	0	0	0	0	0	0	2	0	0
## 3105 3105	0	0	0	1	0	2	0	0	0	0	0
## 3106 3106	0	0	0	0	0	0	0	0	0	0	2
## 3107 3107	1	0	0	0	0	0	0	0	0	0	0
## 3108 3108	0	0	0	0	0	0	0	1	0	1	0
## 3109 3109	0	0	0	0	0	0	0	0	0	0	0
## 3110 3110	0	0	0	0	0	0	0	0	4	0	0
## 3111 3111	1	2	0	0	0	0	0	0	0	0	0

```

## 3112 3112 0 0 0 2 0 0 0 0 0 0 0 0
## 3113 3113 0 0 0 0 0 0 2 0 0 0 0 0
## 3114 3114 0 0 0 0 0 0 1 0 0 0 0 0
## 3115 3115 0 0 0 0 0 0 0 0 0 0 0 1 0
## 3116 3116 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3117 3117 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3118 3118 0 0 0 0 0 2 0 0 0 0 0 0 0
## 3119 3119 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3120 3120 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3121 3121 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3122 3122 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3123 3123 0 0 0 3 0 0 0 0 0 0 0 0 0
## 3124 3124 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3125 3125 0 0 0 0 2 0 0 0 0 0 0 0 0
## 3126 3126 0 0 2 0 0 0 0 0 0 0 0 0 0
## 3127 3127 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3128 3128 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3129 3129 0 0 0 0 0 0 2 0 0 0 0 0 0
## 3130 3130 0 0 0 0 2 0 0 0 0 0 0 0 0
## 3131 3131 0 0 0 0 0 0 0 0 0 0 0 2 0
## 3132 3132 0 0 0 0 0 0 0 1 2 0 0 0 0
## 3133 3133 0 0 0 0 0 2 0 0 0 0 0 0 0
## 3134 3134 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3135 3135 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3136 3136 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3137 3137 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3138 3138 0 0 0 0 0 0 0 0 0 0 0 1 0
## 3139 3139 0 0 0 2 0 0 0 0 0 0 0 0 0
## 3140 3140 0 1 0 0 0 0 0 0 0 0 0 0 0
## 3141 3141 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3142 3142 0 0 0 2 0 0 0 0 0 0 0 0 0
## 3143 3143 0 0 0 0 0 0 0 0 2 0 0 0 0
## 3144 3144 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3145 3145 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3146 3146 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3147 3147 0 0 0 0 0 0 0 3 0 0 0 0 0
## 3148 3148 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3149 3149 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3150 3150 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3151 3151 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3152 3152 0 0 0 0 0 0 2 0 0 0 0 0 0
## 3153 3153 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3154 3154 0 0 0 0 0 2 0 0 0 0 0 0 0
## 3155 3155 0 2 0 0 0 0 0 0 0 0 0 0 0
## 3156 3156 0 2 0 0 0 0 0 0 0 0 0 0 0
## 3157 3157 0 0 0 0 0 0 2 2 2 2 0 0 0
## 3158 3158 0 1 0 0 0 1 0 0 0 0 2 0 0
## 3159 3159 0 0 0 0 0 0 0 0 0 0 0 0 0
## 3160 3160 0 0 0 0 0 0 1 0 0 0 0 0 0
## 3161 3161 0 0 0 2 0 1 0 0 0 0 0 0 0
## 3162 3162 0 0 0 0 0 0 3 0 0 0 0 0 0
## 3163 3163 0 0 0 0 0 0 2 0 0 0 0 0 0
## 3164 3164 2 0 0 0 0 0 0 0 0 0 0 0 0
## 3165 3165 0 0 0 0 0 2 0 0 0 0 0 0 0

```

## 3166 3166	0	0	1	0	0	0	0	0	0	0	0	0
## 3167 3167	0	0	0	0	0	0	0	0	0	0	0	0
## 3168 3168	0	0	0	0	0	0	0	2	0	0	0	0
## 3169 3169	0	0	0	0	0	0	2	0	0	0	0	0
## 3170 3170	0	0	0	0	0	0	0	0	0	0	0	0
## 3171 3171	2	0	0	0	0	0	1	0	0	0	0	0
## 3172 3172	0	0	0	0	0	0	0	0	0	0	0	0
## 3173 3173	0	0	0	0	0	0	0	0	0	0	0	0
## 3174 3174	0	0	0	0	0	0	2	5	0	0	0	0
## 3175 3175	0	0	0	0	2	0	0	0	0	0	0	0
## 3176 3176	0	0	0	0	0	3	0	0	0	0	0	0
## 3177 3177	1	1	1	1	0	0	0	0	0	0	0	0
## 3178 3178	1	1	1	0	0	0	0	0	0	0	0	0
## 3179 3179	0	0	0	0	0	0	0	2	0	0	0	0
## 3180 3180	0	0	1	0	1	0	0	0	0	0	0	0
## 3181 3181	0	0	0	0	0	0	0	0	0	0	0	0
## 3182 3182	0	0	0	0	0	0	0	0	0	0	0	2
## 3183 3183	0	0	0	0	0	0	0	0	0	0	0	0
## 3184 3184	0	0	0	0	1	1	0	0	0	0	0	0
## 3185 3185	1	1	0	1	0	0	0	0	0	0	0	0
## 3186 3186	0	1	0	0	0	0	0	0	0	0	0	0
## 3187 3187	0	0	0	0	0	0	0	0	0	0	0	0
## 3188 3188	0	0	2	0	0	0	0	0	0	0	0	0
## 3189 3189	0	0	0	0	2	0	0	1	0	0	0	0
## 3190 3190	0	0	0	0	2	0	0	0	0	0	0	0
## 3191 3191	0	0	0	0	0	2	0	0	0	0	0	0
## 3192 3192	0	0	0	0	2	0	0	0	0	0	0	0
## 3193 3193	0	1	0	1	3	2	0	0	1	0	0	0
## 3194 3194	0	0	0	0	0	0	0	0	0	1	2	0
## 3195 3195	0	0	0	0	0	2	0	0	0	0	1	0
## 3196 3196	0	0	0	0	0	0	0	0	0	0	0	0
## 3197 3197	0	0	0	0	0	0	0	0	2	0	0	0
## 3198 3198	0	0	0	0	0	0	0	0	0	0	0	0
## 3199 3199	0	0	0	0	0	0	0	0	0	0	0	1
## 3200 3200	0	0	0	0	0	0	0	0	0	0	0	0
## 3201 3201	0	0	0	0	0	0	0	0	0	0	0	0
## 3202 3202	0	0	0	0	0	0	0	0	0	0	0	0
## 3203 3203	0	0	0	0	0	0	1	0	0	0	0	0
## 3204 3204	0	0	0	0	2	1	0	0	0	1	0	0
## 3205 3205	0	0	0	0	0	0	0	0	0	0	1	0
## 3206 3206	0	0	0	0	2	0	0	0	0	0	0	0
## 3207 3207	0	0	0	0	3	0	0	0	0	0	0	0
## 3208 3208	0	1	0	0	0	1	0	0	0	0	0	0
## 3209 3209	0	0	0	0	0	0	2	0	1	0	0	0
## 3210 3210	1	1	0	0	0	0	0	0	0	0	0	0
## 3211 3211	0	0	0	0	2	0	0	0	0	0	0	0
## 3212 3212	0	0	0	0	0	0	0	0	0	0	0	0
## 3213 3213	0	0	0	0	0	0	0	0	0	0	0	0
## 3214 3214	0	0	0	0	0	0	0	0	0	0	0	0
## 3215 3215	0	0	0	0	0	0	0	0	0	0	0	0
## 3216 3216	0	0	0	0	2	0	0	0	0	0	0	0
## 3217 3217	0	0	0	0	0	0	0	0	0	0	0	0
## 3218 3218	0	0	0	0	0	0	0	0	0	0	0	0
## 3219 3219	0	0	0	0	0	0	2	0	0	0	0	0

```

## 3220 3220 0 0 0 0 0 0 0 0 0 0 0 0
## 3221 3221 0 0 0 0 0 0 1 0 2 0 0 0
## 3222 3222 0 0 0 0 0 0 0 0 0 0 0 0
## 3223 3223 1 0 2 0 0 0 0 0 0 0 0 0
## 3224 3224 0 0 0 0 2 0 0 0 0 0 0 0
## 3225 3225 0 0 0 0 0 0 0 0 0 0 0 0
## 3226 3226 0 0 0 0 0 0 0 0 0 2 0 0
## 3227 3227 0 0 0 0 0 0 0 0 0 2 0 0
## 3228 3228 0 0 0 2 1 0 0 0 0 0 0 0
## 3229 3229 0 0 1 0 0 0 0 0 0 0 0 0
## 3230 3230 0 0 0 0 0 0 1 0 0 0 0 0
## 3231 3231 0 0 0 0 0 0 0 0 0 0 0 2
## 3232 3232 3 0 2 0 0 0 0 0 0 0 0 0
## 3233 3233 0 0 0 0 0 0 0 0 0 0 0 0
## 3234 3234 0 0 0 0 0 0 0 0 0 0 0 0
## 3235 3235 1 0 0 0 0 4 1 0 1 2 0 0
## 3236 3236 0 0 0 0 0 0 0 0 2 0 0 0
## 3237 3237 0 0 0 0 0 0 0 2 0 0 0 0
## 3238 3238 0 0 0 0 0 0 0 0 0 0 0 0
## 3239 3239 0 0 0 0 0 0 0 0 0 0 0 0
## 3240 3240 0 1 0 0 0 0 0 0 1 0 0 0
## 3241 3241 0 0 0 0 0 0 0 0 0 0 0 0
## 3242 3242 0 0 0 0 0 0 0 0 3 0 0 0
## 3243 3243 0 0 0 0 0 0 1 0 0 0 0 0
## 3244 3244 0 0 0 0 0 0 0 0 0 0 0 0
## 3245 3245 0 0 0 0 0 0 0 0 0 0 0 0
## 3246 3246 0 1 2 0 0 0 0 0 0 0 0 0
## 3247 3247 0 0 0 0 2 0 0 0 0 0 0 0
## 3248 3248 0 0 0 0 0 0 0 0 0 0 2 0
## 3249 3249 0 0 0 0 2 0 0 0 0 0 0 0
## 3250 3250 0 0 0 0 0 0 0 0 0 0 0 0
## 3251 3251 2 0 0 0 0 0 0 0 0 0 0 0
## 3252 3252 0 0 0 0 0 0 0 2 0 0 0 0
## 3253 3253 0 0 0 0 0 0 0 0 0 0 0 0
## 3254 3254 0 0 0 0 0 0 0 0 0 0 0 0
## 3255 3255 0 0 0 0 0 0 0 0 0 0 0 0
## 3256 3256 0 0 0 1 0 0 0 0 0 0 0 0
## 3257 3257 0 0 0 0 0 0 0 0 0 2 0 0
## 3258 3258 0 0 0 0 0 0 0 0 0 0 0 0
## 3259 3259 0 0 0 0 0 0 1 0 0 0 1 0
## 3260 3260 1 2 1 0 0 0 0 0 0 0 0 0
## 3261 3261 0 0 0 0 0 0 0 0 0 0 0 0
## 3262 3262 0 0 0 0 0 0 0 0 0 0 0 0
## 3263 3263 1 0 0 0 0 0 0 0 0 0 0 0
## 3264 3264 2 0 0 0 0 0 0 0 0 0 0 0
## 3265 3265 0 0 0 0 0 0 0 0 0 0 0 0
## 3266 3266 0 0 0 0 0 0 0 0 0 0 0 0
## 3267 3267 0 0 0 0 0 0 0 0 0 0 0 0
## 3268 3268 0 0 0 0 0 0 0 0 0 0 0 0
## 3269 3269 0 0 0 0 0 0 0 0 0 0 0 0
## 3270 3270 0 0 0 2 0 0 0 0 0 0 0 0
## 3271 3271 0 0 0 0 0 0 0 0 0 0 0 0
## 3272 3272 0 2 0 0 0 0 0 0 0 0 0 0
## 3273 3273 0 0 0 0 0 0 0 0 0 0 0 0

```

## 3274 3274	0	0	0	0	0	0	0	0	0	0	0	0
## 3275 3275	0	0	0	0	0	0	0	0	0	0	0	2
## 3276 3276	0	0	0	0	1	1	0	1	0	0	0	0
## 3277 3277	0	0	0	3	0	0	1	0	0	0	0	0
## 3278 3278	0	0	0	0	0	0	2	0	0	0	0	0
## 3279 3279	0	0	0	0	2	0	0	0	0	0	0	0
## 3280 3280	0	2	0	1	0	2	0	0	0	0	0	0
## 3281 3281	0	0	0	0	2	0	0	0	0	0	0	0
## 3282 3282	0	0	0	0	0	0	0	0	0	0	0	0
## 3283 3283	0	0	1	2	0	0	0	0	0	0	0	0
## 3284 3284	0	0	0	0	0	0	1	0	0	0	0	0
## 3285 3285	0	0	0	0	1	0	0	0	0	0	0	0
## 3286 3286	0	0	0	0	0	0	0	0	0	0	0	0
## 3287 3287	0	2	0	0	0	0	0	0	0	0	0	0
## 3288 3288	0	0	0	0	0	0	0	0	0	0	0	0
## 3289 3289	0	0	0	0	1	0	0	0	0	0	0	0
## 3290 3290	0	1	0	0	0	0	0	0	0	0	0	0
## 3291 3291	0	0	3	0	0	0	0	0	0	0	0	0
## 3292 3292	0	0	0	0	0	0	0	0	0	0	0	0
## 3293 3293	0	0	0	0	0	0	0	0	0	0	0	0
## 3294 3294	0	0	0	0	0	0	2	0	0	0	0	0
## 3295 3295	0	0	0	1	0	0	0	0	0	0	0	0
## 3296 3296	0	0	0	0	0	0	0	0	0	0	2	0
## 3297 3297	0	0	0	0	0	0	0	0	0	0	0	0
## 3298 3298	0	0	0	0	0	2	0	0	0	0	0	0
## 3299 3299	0	0	0	0	0	0	0	0	0	0	0	0
## 3300 3300	0	0	0	0	0	0	0	0	0	0	0	0
## 3301 3301	0	0	0	1	0	0	0	0	0	0	0	0
## 3302 3302	0	0	1	0	0	0	0	0	0	0	0	0
## 3303 3303	0	0	0	0	0	1	0	1	0	0	0	0
## 3304 3304	0	0	1	0	0	0	0	0	0	0	0	0
## 3305 3305	0	0	0	0	0	2	0	0	0	0	0	0
## 3306 3306	0	0	0	0	0	0	0	0	0	1	1	1
## 3307 3307	0	2	0	0	0	0	0	0	0	0	0	0
## 3308 3308	0	0	0	0	0	0	0	0	0	0	0	0
## 3309 3309	0	0	0	0	0	3	0	0	0	0	0	0
## 3310 3310	0	0	0	0	0	0	0	0	0	0	0	0
## 3311 3311	0	0	0	0	0	0	0	0	0	0	0	0
## 3312 3312	0	0	0	0	0	0	0	1	0	0	0	0
## 3313 3313	0	0	0	0	0	0	0	0	2	0	0	0
## 3314 3314	0	0	0	0	0	0	0	0	0	0	0	0
## 3315 3315	0	0	0	0	0	0	0	0	0	0	0	0
## 3316 3316	0	0	0	0	0	0	0	0	0	0	0	0
## 3317 3317	0	0	0	0	0	0	0	0	0	0	0	0
## 3318 3318	0	0	0	0	0	0	0	0	2	0	0	0
## 3319 3319	0	0	0	0	4	1	0	0	0	0	0	0
## 3320 3320	0	0	0	0	0	0	0	0	0	0	1	1
## 3321 3321	0	0	0	0	0	0	0	0	0	0	0	0
## 3322 3322	0	0	0	0	0	0	0	0	2	0	0	1
## 3323 3323	0	0	0	0	0	0	0	3	0	0	0	0
## 3324 3324	0	0	0	0	1	0	0	0	0	0	0	0
## 3325 3325	0	0	0	0	0	0	0	0	0	0	0	0
## 3326 3326	0	0	0	0	2	0	0	0	0	0	0	0
## 3327 3327	0	0	0	0	0	0	0	2	0	0	0	0

## 3328	3328	0	0	0	0	0	0	0	0	1	0
## 3329	3329	0	0	0	0	0	0	0	0	0	0
## 3330	3330	0	0	0	0	0	0	0	0	2	0
## 3331	3331	0	0	0	0	2	0	0	1	0	0
## 3332	3332	0	0	0	0	0	0	0	0	3	0
## 3333	3333	0	0	0	0	0	0	0	0	0	1
## 3334	3334	0	0	0	0	0	0	1	0	0	0
## 3335	3335	0	0	0	0	0	2	0	0	0	0
## 3336	3336	0	0	0	0	0	0	0	0	0	0
## 3337	3337	0	0	0	0	0	0	0	0	0	0
## 3338	3338	0	0	0	0	0	0	0	0	0	0
## 3339	3339	0	0	0	0	0	0	1	2	0	0
## 3340	3340	0	0	2	0	0	0	0	0	0	0
## 3341	3341	0	0	0	0	0	2	0	0	0	0
## 3342	3342	0	0	0	2	3	0	2	0	0	0
## 3343	3343	0	0	0	0	0	0	3	0	0	1
## 3344	3344	0	0	0	0	0	0	0	0	2	0
## 3345	3345	0	0	0	0	0	2	0	0	0	0
## 3346	3346	0	0	0	0	0	0	0	0	0	0
## 3347	3347	0	0	0	0	3	0	0	0	0	0
## 3348	3348	0	0	0	0	0	1	0	0	0	0
## 3349	3349	0	0	0	0	0	0	0	0	0	2
## 3350	3350	0	0	0	0	0	0	2	0	0	0
## 3351	3351	0	0	2	0	1	0	0	0	0	2
## 3352	3352	0	0	0	0	0	0	0	0	0	0
## 3353	3353	0	1	1	0	0	0	0	0	0	0
## 3354	3354	0	0	0	0	0	0	0	0	0	2
## 3355	3355	0	0	0	0	0	1	0	0	0	0
## 3356	3356	0	0	0	0	1	0	0	0	0	0
## 3357	3357	0	0	0	0	0	0	0	0	0	0
## 3358	3358	0	0	0	0	0	0	0	0	0	0
## 3359	3359	0	0	0	0	0	0	0	0	0	0
## 3360	3360	0	0	0	0	3	0	0	0	0	0
## 3361	3361	0	0	0	0	0	0	0	0	0	0
## 3362	3362	0	0	0	2	0	0	0	0	2	0
## 3363	3363	0	0	0	2	0	0	0	0	0	0
## 3364	3364	0	0	0	0	0	0	2	0	0	0
## 3365	3365	0	0	0	1	0	0	0	0	0	0
## 3366	3366	0	0	0	0	0	3	0	0	0	0
## 3367	3367	0	0	0	0	0	0	0	0	0	0
## 3368	3368	0	0	0	0	0	0	1	0	0	0
## 3369	3369	0	0	0	0	0	0	0	0	0	0
## 3370	3370	0	0	0	0	0	0	0	0	0	0
## 3371	3371	0	0	0	0	0	0	1	0	0	1
## 3372	3372	1	0	0	0	1	2	0	0	0	0
## 3373	3373	0	2	0	0	0	0	0	0	0	0
## 3374	3374	0	0	0	0	0	0	0	0	3	0
## 3375	3375	0	1	0	0	0	0	0	0	0	0
## 3376	3376	0	0	0	0	0	4	0	0	0	0
## 3377	3377	0	0	1	0	0	0	0	0	0	0
## 3378	3378	0	0	0	0	0	0	0	0	0	0
## 3379	3379	0	0	0	0	0	0	2	0	0	0
## 3380	3380	0	0	2	0	1	0	0	0	0	0
## 3381	3381	0	0	0	1	0	0	0	0	0	0

## 3382 3382	0	0	0	0	0	0	0	0	0	0	0	0
## 3383 3383	0	0	0	0	0	0	2	0	0	0	0	0
## 3384 3384	0	0	0	0	0	0	0	2	0	0	0	0
## 3385 3385	0	0	0	0	0	1	0	0	0	0	0	0
## 3386 3386	0	0	0	0	0	0	0	0	0	0	0	0
## 3387 3387	0	0	0	0	0	0	0	0	0	0	0	0
## 3388 3388	0	0	0	2	0	0	0	0	0	0	0	0
## 3389 3389	0	0	0	0	0	0	0	1	0	0	0	0
## 3390 3390	0	0	0	0	0	0	0	0	1	0	2	0
## 3391 3391	0	2	0	0	0	0	0	0	0	0	0	0
## 3392 3392	0	0	0	0	0	0	1	0	0	0	0	0
## 3393 3393	0	0	0	0	0	0	2	2	0	0	0	0
## 3394 3394	0	0	0	0	0	0	0	0	0	1	0	0
## 3395 3395	0	0	0	0	0	0	0	2	0	0	0	0
## 3396 3396	0	0	0	0	0	0	0	0	0	0	0	0
## 3397 3397	0	0	0	0	0	0	0	0	0	0	0	0
## 3398 3398	1	2	0	1	0	0	0	0	0	0	0	0
## 3399 3399	0	0	0	0	0	0	0	0	0	0	0	0
## 3400 3400	0	0	0	0	0	0	0	0	0	0	0	0
## 3401 3401	0	0	0	0	0	0	0	0	0	0	0	0
## 3402 3402	0	0	0	2	0	0	0	0	0	0	0	0
## 3403 3403	0	0	0	1	0	0	0	0	0	0	0	0
## 3404 3404	0	2	0	0	0	0	0	0	0	0	0	0
## 3405 3405	0	2	0	0	0	0	0	0	0	0	0	0
## 3406 3406	0	0	0	0	0	0	2	0	0	0	0	0
## 3407 3407	0	0	0	0	0	0	0	3	0	0	0	0
## 3408 3408	0	0	2	0	0	0	0	0	0	0	0	0
## 3409 3409	0	0	0	1	1	0	0	0	0	0	0	0
## 3410 3410	0	0	0	2	1	0	0	1	0	0	0	0
## 3411 3411	0	0	0	1	0	0	0	0	0	0	0	0
## 3412 3412	0	0	0	0	0	0	0	1	2	0	0	0
## 3413 3413	0	0	0	0	0	0	0	0	0	0	0	0
## 3414 3414	2	0	0	0	0	1	0	0	0	0	0	0
## 3415 3415	0	0	0	0	0	0	0	0	0	0	2	0
## 3416 3416	0	1	0	0	0	0	0	0	1	0	0	0
## 3417 3417	0	0	0	0	0	0	0	0	0	0	0	0
## 3418 3418	0	0	0	0	0	3	1	0	0	0	0	0
## 3419 3419	0	2	0	0	0	0	0	0	0	0	0	0
## 3420 3420	0	0	0	0	0	0	0	0	0	0	0	0
## 3421 3421	1	0	0	0	0	0	0	0	0	0	0	0
## 3422 3422	0	0	0	0	0	0	0	0	0	0	0	0
## 3423 3423	0	0	0	0	0	0	0	0	0	0	0	0
## 3424 3424	0	0	0	0	0	0	0	0	0	0	0	0
## 3425 3425	0	0	0	0	0	0	0	1	0	1	0	0
## 3426 3426	0	0	0	0	0	0	0	0	0	0	0	0
## 3427 3427	0	0	0	0	0	0	1	0	0	0	0	0
## 3428 3428	0	0	2	0	0	0	0	0	0	0	0	0
## 3429 3429	0	0	0	0	0	0	0	0	0	0	0	0
## 3430 3430	0	0	0	0	0	2	0	0	0	0	0	0
## 3431 3431	0	0	0	0	0	0	0	0	0	0	0	0
## 3432 3432	0	0	0	0	0	0	0	0	0	0	0	0
## 3433 3433	0	0	0	1	0	0	0	0	0	0	0	0
## 3434 3434	0	0	0	0	0	0	0	0	0	0	0	0
## 3435 3435	0	0	0	0	0	0	0	0	0	0	0	1

## 3436 3436	0	0	0	0	0	0	0	0	0	0	0
## 3437 3437	0	0	0	0	0	0	0	0	0	0	0
## 3438 3438	0	0	0	0	0	0	0	0	0	2	0
## 3439 3439	0	0	0	0	0	0	0	0	0	0	0
## 3440 3440	0	0	0	0	0	0	0	0	2	0	0
## 3441 3441	0	0	0	2	0	0	0	0	0	0	0
## 3442 3442	0	0	0	0	0	2	0	0	0	0	0
## 3443 3443	0	0	0	0	2	0	0	0	0	0	0
## 3444 3444	0	0	0	0	0	0	0	0	0	0	0
## 3445 3445	0	0	0	2	0	0	0	0	0	0	0
## 3446 3446	0	0	0	0	0	0	0	0	2	1	0
## 3447 3447	2	0	0	0	0	0	0	0	0	0	0
## 3448 3448	0	0	1	0	0	0	0	0	0	0	0
## 3449 3449	0	0	0	0	0	0	0	0	0	0	0
## 3450 3450	0	0	0	2	0	0	0	0	1	0	0
## 3451 3451	0	0	2	0	0	0	0	0	0	0	0
## 3452 3452	0	0	0	0	2	0	0	0	0	0	0
## 3453 3453	0	0	0	0	0	0	0	0	0	0	0
## 3454 3454	0	0	0	0	0	0	0	0	2	0	1
## 3455 3455	0	0	0	0	0	0	0	0	0	0	0
## 3456 3456	0	1	0	0	0	0	0	0	0	0	0
## 3457 3457	0	0	0	0	0	0	0	0	0	0	0
## 3458 3458	0	0	0	0	0	0	0	0	0	0	0
## 3459 3459	0	0	0	0	0	0	2	0	0	0	0
## 3460 3460	1	3	0	0	0	0	0	0	0	0	0
## 3461 3461	0	0	0	0	0	0	0	0	0	0	0
## 3462 3462	0	0	0	0	0	0	0	0	0	1	0
## 3463 3463	0	0	1	0	0	0	0	0	0	0	0
## 3464 3464	0	0	0	0	0	0	0	0	0	0	2
## 3465 3465	0	2	0	0	0	0	0	0	0	0	0
## 3466 3466	1	0	0	0	0	0	0	0	0	0	0
## 3467 3467	0	1	3	0	0	0	0	0	0	0	0
## 3468 3468	0	0	0	0	0	2	0	0	0	0	0
## 3469 3469	0	0	0	0	0	0	1	0	0	0	0
## 3470 3470	0	1	0	0	0	0	0	0	0	0	0
## 3471 3471	0	0	0	0	0	0	0	0	1	0	0
## 3472 3472	0	0	0	1	0	1	0	0	0	0	0
## 3473 3473	0	0	0	0	0	0	0	0	0	0	0
## 3474 3474	0	1	0	0	0	0	1	0	0	0	0
## 3475 3475	0	0	0	0	0	0	0	0	3	0	0
## 3476 3476	0	0	0	0	0	0	0	0	0	0	0
## 3477 3477	0	0	0	1	0	0	0	0	0	0	0
## 3478 3478	0	0	0	0	0	0	0	0	0	0	0
## 3479 3479	0	1	1	0	0	0	1	0	0	0	0
## 3480 3480	0	0	0	0	3	0	0	0	0	0	0
## 3481 3481	1	0	0	0	0	0	0	0	0	0	0
## 3482 3482	0	0	0	0	0	0	0	0	0	0	0
## 3483 3483	0	0	0	0	0	0	0	0	0	0	0
## 3484 3484	0	0	0	0	0	0	0	0	0	0	0
## 3485 3485	0	0	0	3	0	0	0	0	0	0	0
## 3486 3486	0	2	0	0	0	0	0	0	0	0	0
## 3487 3487	1	0	0	0	0	0	0	0	0	0	0
## 3488 3488	0	0	0	0	0	0	0	0	0	0	0
## 3489 3489	0	1	0	1	0	0	0	0	0	0	0

## 3490	3490	0	0	0	0	0	0	0	0	0	0	0
## 3491	3491	0	0	0	0	0	0	0	0	0	0	0
## 3492	3492	0	0	0	0	0	0	1	0	0	0	0
## 3493	3493	0	0	0	0	0	0	0	2	0	0	0
## 3494	3494	0	0	0	0	0	1	0	0	0	0	0
## 3495	3495	0	0	0	0	0	0	0	0	0	0	0
## 3496	3496	0	0	0	0	0	0	0	0	3	0	2
## 3497	3497	0	0	0	1	0	0	0	0	0	1	0
## 3498	3498	1	1	0	0	0	0	0	0	0	0	0
## 3499	3499	0	0	0	0	0	0	0	0	0	0	0
## 3500	3500	0	0	0	0	0	0	0	0	0	0	0
## 3501	3501	0	0	0	0	2	0	0	0	0	0	0
## 3502	3502	0	0	0	0	0	0	0	0	0	1	1
## 3503	3503	0	0	0	2	0	0	0	0	0	0	0
## 3504	3504	0	0	0	0	0	0	1	0	1	0	0
## 3505	3505	0	0	0	0	0	3	0	0	0	0	0
## 3506	3506	0	0	0	0	0	0	1	0	0	0	0
## 3507	3507	0	0	0	0	0	0	0	0	0	0	0
## 3508	3508	0	0	1	0	2	0	0	0	0	0	0
## 3509	3509	0	0	0	0	0	0	0	0	0	0	0
## 3510	3510	0	0	0	0	0	0	0	0	0	0	0
## 3511	3511	0	1	0	0	0	0	0	0	0	0	0
## 3512	3512	0	0	0	0	0	0	0	0	0	0	0
## 3513	3513	0	0	0	0	0	2	0	0	0	0	0
## 3514	3514	1	0	0	0	0	0	1	0	0	0	0
## 3515	3515	0	0	0	0	0	0	0	0	0	0	0
## 3516	3516	0	0	0	0	0	0	0	0	0	0	0
## 3517	3517	0	0	0	0	0	3	0	0	0	0	0
## 3518	3518	0	0	0	0	0	2	0	0	0	0	0
## 3519	3519	0	0	0	0	0	0	0	0	0	0	2
## 3520	3520	0	0	0	0	0	0	0	0	0	0	0
## 3521	3521	0	0	0	0	0	0	0	0	0	0	0
## 3522	3522	0	0	0	1	0	0	0	0	0	0	0
## 3523	3523	0	0	0	0	0	0	0	0	0	0	0
## 3524	3524	0	0	0	2	0	0	0	0	0	0	0
## 3525	3525	0	0	0	0	0	0	0	0	0	0	0
## 3526	3526	0	0	0	0	0	0	0	0	0	0	3
## 3527	3527	0	0	0	0	0	1	0	0	0	0	0
## 3528	3528	0	0	0	0	0	0	0	0	0	4	0
## 3529	3529	0	0	0	0	0	0	0	0	0	0	1
## 3530	3530	0	0	0	0	0	0	0	0	0	0	0
## 3531	3531	0	0	0	0	0	0	0	0	0	0	1
## 3532	3532	0	0	2	0	0	0	0	0	0	0	0
## 3533	3533	0	0	0	0	2	0	0	0	0	0	0
## 3534	3534	0	2	0	0	0	0	0	0	0	0	0
## 3535	3535	0	0	0	0	0	0	0	0	0	0	0
## 3536	3536	2	0	0	0	0	0	0	0	0	0	0
## 3537	3537	0	0	0	0	0	0	2	0	0	0	0
## 3538	3538	0	0	0	0	0	0	0	0	0	0	0
## 3539	3539	0	0	0	0	0	0	0	0	0	1	0
## 3540	3540	0	0	0	0	1	0	0	0	0	0	0
## 3541	3541	0	0	0	0	0	0	0	0	0	0	0
## 3542	3542	0	0	0	0	0	0	0	0	0	1	1
## 3543	3543	0	0	0	0	0	0	0	0	0	0	2

## 3544 3544	0	0	2	0	0	0	0	0	0	0	0
## 3545 3545	0	0	0	0	0	0	0	0	0	1	0
## 3546 3546	0	0	2	0	0	0	0	0	0	0	0
## 3547 3547	0	0	0	0	0	0	0	0	0	0	0
## 3548 3548	0	0	0	0	0	0	0	0	0	0	0
## 3549 3549	0	0	0	0	0	0	0	0	2	0	0
## 3550 3550	0	0	0	0	0	0	0	0	0	0	0
## 3551 3551	0	0	0	0	0	0	2	0	0	0	0
## 3552 3552	0	0	0	0	0	0	0	0	0	0	0
## 3553 3553	0	0	0	0	0	0	2	0	0	0	0
## 3554 3554	0	0	0	0	0	0	0	0	0	0	0
## 3555 3555	0	0	2	0	0	0	0	0	0	0	0
## 3556 3556	0	0	0	0	1	0	2	0	0	0	0
## 3557 3557	0	0	0	0	0	0	1	0	0	0	0
## 3558 3558	0	0	0	0	0	0	0	0	0	0	0
## 3559 3559	0	0	0	0	0	6	0	0	0	0	0
## 3560 3560	0	0	0	0	0	0	0	0	0	0	0
## 3561 3561	0	0	0	0	0	0	0	0	0	0	0
## 3562 3562	0	0	0	0	0	0	0	0	0	0	0
## 3563 3563	0	0	0	0	0	0	0	0	0	0	0
## 3564 3564	0	0	0	0	0	0	0	0	0	0	0
## 3565 3565	0	1	0	0	0	0	0	0	0	0	0
## 3566 3566	0	1	0	0	0	0	0	0	0	0	0
## 3567 3567	0	0	0	1	0	0	0	0	0	0	1
## 3568 3568	0	0	0	1	0	0	0	0	0	0	0
## 3569 3569	0	0	0	0	2	2	0	0	0	0	0
## 3570 3570	0	0	0	0	0	0	2	0	0	0	0
## 3571 3571	0	0	0	0	0	0	0	0	0	0	0
## 3572 3572	0	0	0	0	0	1	0	0	0	0	0
## 3573 3573	0	0	0	0	0	0	0	0	0	0	2
## 3574 3574	0	0	0	0	0	0	0	0	0	0	0
## 3575 3575	0	0	0	1	0	0	1	1	0	1	0
## 3576 3576	0	0	0	0	0	0	0	0	0	0	1
## 3577 3577	0	0	0	0	0	0	2	0	0	0	0
## 3578 3578	0	0	0	0	0	0	0	0	0	0	0
## 3579 3579	0	0	0	0	0	0	0	0	0	0	0
## 3580 3580	0	0	2	0	0	0	0	0	0	0	0
## 3581 3581	0	1	0	0	1	0	0	1	0	0	0
## 3582 3582	0	0	0	0	0	0	0	0	0	0	0
## 3583 3583	0	0	0	0	0	0	0	0	0	0	0
## 3584 3584	0	2	0	0	0	0	0	0	0	0	0
## 3585 3585	0	0	0	0	0	0	0	0	0	2	0
## 3586 3586	0	0	0	0	0	0	0	0	0	0	0
## 3587 3587	0	0	0	0	0	0	0	0	0	2	0
## 3588 3588	0	0	0	0	0	0	0	0	2	1	0
## 3589 3589	0	0	0	0	0	0	0	0	0	0	0
## 3590 3590	0	0	0	0	0	0	0	2	0	0	0
## 3591 3591	0	0	0	0	0	0	2	0	0	0	0
## 3592 3592	0	0	0	0	0	0	0	0	0	0	0
## 3593 3593	0	2	0	0	0	0	0	0	0	0	0
## 3594 3594	0	0	0	0	0	0	0	0	0	0	0
## 3595 3595	1	0	1	0	0	0	0	0	0	0	0
## 3596 3596	0	0	0	2	0	0	0	0	0	0	0
## 3597 3597	0	0	0	0	0	0	0	1	0	0	1

```

## 3598 3598 0 0 0 0 0 0 0 0 0 0 0 0
## 3599 3599 0 0 0 0 0 0 0 0 0 0 0 0
## 3600 3600 0 0 0 1 0 0 0 0 0 0 0 0
## 3601 3601 0 0 0 0 0 0 0 0 2 0 0 0
## 3602 3602 0 0 0 0 0 0 0 0 2 0 0 0
## 3603 3603 0 0 0 0 0 0 0 0 2 0 0 0
## 3604 3604 0 0 0 0 0 0 0 0 0 2 0 0
## 3605 3605 0 0 0 0 0 0 0 0 0 3 0 0
## 3606 3606 0 0 0 0 1 0 1 0 1 0 1 0
## 3607 3607 0 0 0 0 0 0 0 1 2 0 0 0
## 3608 3608 0 0 0 0 0 0 2 0 0 0 0 0
## 3609 3609 0 0 0 0 0 0 0 0 0 0 0 0
## 3610 3610 0 0 0 0 0 0 0 0 0 0 0 0
## 3611 3611 0 0 2 0 0 0 0 0 0 0 0 0
## 3612 3612 1 1 0 2 0 0 0 0 2 0 0 0
## 3613 3613 0 0 0 0 0 0 0 0 0 0 0 0
## 3614 3614 0 0 0 0 0 0 0 0 0 0 0 0
## 3615 3615 0 0 0 0 0 2 0 0 0 0 0 0
## 3616 3616 0 0 0 0 0 0 0 0 0 0 0 0
## 3617 3617 0 0 0 0 0 0 0 2 0 0 0 0
## 3618 3618 1 0 0 1 0 0 3 0 0 0 0 0
## 3619 3619 0 0 0 0 0 0 0 0 0 2 0 0
## 3620 3620 0 0 0 0 0 0 0 0 0 0 0 0
## 3621 3621 0 0 1 0 0 0 0 0 0 0 0 0
## 3622 3622 0 0 0 0 1 0 0 0 0 0 0 0
## 3623 3623 0 0 0 0 0 0 0 0 0 0 0 0
## 3624 3624 0 0 0 0 0 0 0 0 0 0 0 0
## 3625 3625 1 0 0 0 0 0 0 0 0 0 0 0
## 3626 3626 0 0 0 0 0 0 0 0 0 2 0 0
## 3627 3627 0 0 0 0 0 0 0 0 2 0 0 0
## 3628 3628 0 0 0 0 0 0 0 0 0 0 0 0
## 3629 3629 2 0 0 0 0 0 0 0 0 0 0 0
## 3630 3630 0 0 0 0 0 0 0 0 0 0 0 0
## 3631 3631 0 0 0 0 0 0 0 0 0 0 0 0
## 3632 3632 0 1 0 0 0 3 0 0 0 0 0 0
## 3633 3633 0 0 0 0 0 0 0 0 0 0 0 0
## 3634 3634 0 0 0 0 0 0 0 0 0 0 0 0
## 3635 3635 0 0 0 2 0 0 0 0 0 0 0 0
## 3636 3636 0 1 0 0 0 0 0 0 0 0 0 0
## 3637 3637 0 0 0 0 0 0 0 0 0 0 0 0
## 3638 3638 0 0 0 0 0 0 0 0 0 0 0 0
## 3639 3639 0 0 0 0 0 0 0 0 0 0 0 0
## 3640 3640 0 0 0 1 0 2 0 0 0 0 0 0
## 3641 3641 0 0 0 0 0 0 0 0 0 0 0 0
## 3642 3642 0 0 0 0 2 0 0 0 0 0 0 0
## 3643 3643 0 0 0 0 2 0 0 0 0 0 0 0
## 3644 3644 0 2 0 0 0 0 0 0 0 0 0 0
## 3645 3645 0 0 0 0 2 0 0 0 0 0 0 0
## 3646 3646 0 0 0 0 0 0 0 0 0 0 0 0
## 3647 3647 0 2 0 0 0 0 0 0 0 0 0 0
## 3648 3648 0 0 0 0 0 0 0 0 0 0 0 0
## 3649 3649 0 0 2 0 0 0 0 0 0 0 0 0
## 3650 3650 0 0 0 0 0 0 0 0 0 0 0 0
## 3651 3651 0 2 0 0 0 0 0 0 0 0 0 0

```

```

## 3652 3652 0 0 0 1 0 0 0 0 0 0 0 0
## 3653 3653 0 0 3 0 0 0 0 0 0 0 0 0
## 3654 3654 0 0 0 0 0 0 0 2 0 0 0 0
## 3655 3655 2 0 0 0 0 0 0 0 0 0 0 0
## 3656 3656 0 0 0 0 0 0 0 0 2 0 0 0
## 3657 3657 0 0 0 0 0 0 0 2 0 0 0 0
## 3658 3658 0 0 0 0 0 0 0 0 0 0 0 0
## 3659 3659 0 0 0 0 0 0 0 0 0 0 0 0
## 3660 3660 0 0 0 0 0 0 0 0 3 0 0 0
## 3661 3661 0 2 0 0 0 0 0 0 0 0 0 0
## 3662 3662 0 0 0 0 0 0 0 0 0 0 0 0
## 3663 3663 1 0 0 0 0 0 0 0 0 0 0 0
## 3664 3664 0 0 0 1 0 0 0 0 0 0 0 0
## 3665 3665 1 1 1 0 0 0 0 0 0 0 0 0
## 3666 3666 0 0 2 0 0 0 0 0 0 0 0 0
## 3667 3667 0 0 0 2 0 0 0 0 0 0 0 0
## 3668 3668 0 0 2 0 0 0 0 0 0 0 0 0
## 3669 3669 0 2 1 0 0 0 0 1 0 1 0 0
## 3670 3670 0 0 0 0 0 0 0 0 0 0 0 0
## 3671 3671 0 0 2 0 0 0 0 0 0 0 0 0
## 3672 3672 0 0 0 0 0 0 1 0 0 0 0 0
## 3673 3673 0 0 1 0 0 0 0 0 0 0 0 0
## 3674 3674 0 0 0 0 0 0 0 0 0 0 0 0
## 3675 3675 0 0 0 0 0 0 0 0 0 0 0 0
## 3676 3676 1 0 0 0 0 0 0 0 0 0 0 0
## 3677 3677 0 2 0 0 0 0 0 0 0 0 0 0
## 3678 3678 3 0 0 0 0 0 0 0 0 0 0 0
## 3679 3679 0 0 0 0 0 0 0 0 0 0 0 0
## 3680 3680 0 0 0 0 0 0 0 0 0 0 0 0
## 3681 3681 0 0 0 0 0 0 0 0 1 0 0 0
## 3682 3682 0 0 0 0 0 0 0 0 0 0 0 0
## 3683 3683 2 0 1 0 0 0 0 0 0 0 0 0
## 3684 3684 0 0 0 0 0 0 0 0 2 0 0 0
## 3685 3685 0 0 0 0 2 0 0 0 0 0 0 0
## 3686 3686 0 0 0 0 0 0 0 2 0 0 0 0
## 3687 3687 0 0 0 0 0 0 0 2 0 0 0 0
## 3688 3688 0 1 1 0 0 0 0 0 0 0 0 0
## 3689 3689 0 0 0 0 0 0 0 0 0 0 0 0
## 3690 3690 0 0 0 0 0 0 0 0 0 0 0 0
## 3691 3691 0 2 0 0 0 0 0 0 0 0 0 0
## 3692 3692 0 0 0 0 0 0 0 0 0 0 0 0
## 3693 3693 0 0 0 0 0 0 0 1 0 0 0 0
## 3694 3694 0 3 0 0 0 0 0 0 0 0 0 0
## 3695 3695 0 0 0 0 0 0 0 0 0 0 0 0
## 3696 3696 0 0 0 0 0 0 0 2 0 0 0 0
## 3697 3697 0 0 0 0 0 0 0 0 3 0 0 2
## 3698 3698 0 0 0 1 0 0 0 0 0 0 0 0
## 3699 3699 0 0 0 0 0 0 0 0 0 2 0 0
## 3700 3700 0 0 0 0 0 0 0 0 0 2 0 0
## 3701 3701 2 0 0 0 0 0 0 0 0 0 0 0
## 3702 3702 0 0 0 0 0 0 0 0 2 0 0 0
## 3703 3703 0 0 0 0 0 0 0 0 0 0 0 0
## 3704 3704 0 0 0 0 2 0 0 0 0 0 0 0
## 3705 3705 0 0 0 0 0 0 0 0 0 2 0 0

```

```

## 3706 3706 0 0 0 1 0 0 0 0 0 0 0 0
## 3707 3707 0 0 0 0 0 0 0 0 0 0 0 0
## 3708 3708 0 0 0 0 0 0 0 0 0 0 0 0
## 3709 3709 0 0 0 0 0 0 0 1 2 0 0 0
## 3710 3710 0 0 0 0 0 0 0 2 0 0 0 0
## 3711 3711 0 0 0 0 0 0 0 0 0 0 0 0
## 3712 3712 0 0 0 0 0 0 0 2 0 0 0 0
## 3713 3713 0 0 0 0 0 0 0 0 0 0 0 0
## 3714 3714 0 0 0 0 0 0 0 0 2 0 0 0
## 3715 3715 0 0 0 0 0 0 0 0 0 0 0 0
## 3716 3716 0 0 0 0 0 0 0 0 0 0 0 0
## 3717 3717 0 0 0 0 0 1 0 0 0 0 2 0
## 3718 3718 0 0 0 0 0 0 0 0 3 0 0 0
## 3719 3719 0 0 0 0 0 0 0 0 0 0 0 1
## 3720 3720 0 0 0 0 0 0 0 0 0 0 0 0
## 3721 3721 0 0 0 0 0 1 0 0 0 0 0 0
## 3722 3722 0 0 0 0 0 0 0 0 0 0 0 0
## 3723 3723 0 0 0 0 0 0 0 0 0 0 0 0
## 3724 3724 0 1 0 0 0 0 0 0 0 0 0 0
## 3725 3725 0 0 0 0 0 0 0 0 0 0 0 0
## 3726 3726 0 0 0 0 0 0 2 0 0 0 0 0
## 3727 3727 0 0 0 0 0 0 0 0 0 0 0 0
## 3728 3728 0 2 0 0 0 0 0 0 0 0 0 0
## 3729 3729 0 0 0 0 0 0 0 0 0 0 0 0
## 3730 3730 0 0 0 0 0 0 0 0 0 0 0 0
## 3731 3731 0 0 0 0 0 0 0 0 0 0 0 0
## 3732 3732 0 0 0 0 0 0 0 0 0 0 0 0
## 3733 3733 0 2 0 0 0 0 0 0 0 0 0 0
## 3734 3734 0 1 1 0 0 0 0 0 0 0 0 0
## 3735 3735 0 0 0 0 0 0 0 0 0 0 0 0
## 3736 3736 0 0 0 0 0 0 0 0 0 0 0 0
## 3737 3737 0 0 0 0 0 2 0 0 0 0 0 0
## 3738 3738 0 0 0 0 0 0 0 2 0 0 0 0
## 3739 3739 0 0 0 0 1 0 1 0 0 0 0 0
## 3740 3740 0 0 0 0 0 0 0 0 0 0 0 0
## 3741 3741 0 0 0 2 0 0 0 0 0 0 0 0
## 3742 3742 0 0 0 0 0 1 0 0 0 0 0 0
## 3743 3743 0 0 0 2 0 0 0 0 0 0 0 0
## 3744 3744 0 0 0 0 0 0 0 0 0 0 0 0
## 3745 3745 1 0 1 2 0 0 0 0 0 0 0 0
## 3746 3746 0 2 0 0 0 0 0 0 0 0 0 0
## 3747 3747 0 1 1 0 0 0 0 0 0 0 0 0
## 3748 3748 0 0 0 0 0 0 0 1 0 0 0 0
## 3749 3749 0 0 0 0 0 0 0 0 0 0 0 0
## 3750 3750 0 0 0 0 0 2 0 0 0 0 0 0
## 3751 3751 0 0 0 0 0 0 0 0 0 0 0 0
## 3752 3752 0 0 0 0 0 0 0 0 0 0 0 1
## 3753 3753 1 0 0 0 0 2 0 0 0 0 0 0
## 3754 3754 0 0 0 0 0 0 0 0 0 2 0 0
## 3755 3755 0 0 0 0 0 0 0 0 0 0 0 0
## 3756 3756 0 0 1 0 0 0 0 0 0 0 0 0
## 3757 3757 0 0 0 0 0 0 0 0 0 0 0 0
## 3758 3758 0 0 0 1 0 0 0 0 0 0 0 0
## 3759 3759 0 0 0 0 0 2 0 0 0 0 0 0

```

## 3760 3760	0	0	0	0	0	0	0	2	0	0	0
## 3761 3761	0	2	0	0	0	0	0	0	0	0	0
## 3762 3762	0	0	0	0	3	0	0	0	0	1	0
## 3763 3763	2	0	0	0	0	1	0	0	0	0	0
## 3764 3764	0	1	0	2	0	0	0	0	0	0	1
## 3765 3765	0	0	0	0	1	0	0	2	0	0	0
## 3766 3766	0	0	0	0	1	1	0	0	0	0	0
## 3767 3767	0	0	0	0	0	0	2	0	0	0	0
## 3768 3768	0	0	0	0	0	0	2	0	0	0	0
## 3769 3769	0	0	0	0	0	0	0	0	0	0	0
## 3770 3770	0	0	0	1	0	0	0	0	0	0	0
## 3771 3771	0	0	0	0	0	0	0	0	0	1	0
## 3772 3772	0	0	0	0	0	0	0	0	0	0	0
## 3773 3773	0	0	0	0	0	0	0	0	0	0	0
## 3774 3774	1	0	2	0	0	0	1	0	0	0	0
## 3775 3775	0	0	0	2	0	0	0	0	0	0	0
## 3776 3776	0	2	0	0	0	0	0	0	0	0	0
## 3777 3777	0	0	0	0	1	0	0	0	0	0	0
## 3778 3778	0	0	0	0	0	0	0	0	0	0	0
## 3779 3779	0	0	0	0	0	0	0	1	0	0	1
## 3780 3780	0	0	0	2	0	0	0	0	0	0	0
## 3781 3781	2	0	0	0	0	0	0	0	0	0	0
## 3782 3782	1	0	0	0	0	0	0	0	0	0	0
## 3783 3783	0	0	0	0	0	0	0	0	0	0	0
## 3784 3784	0	0	0	0	0	0	2	0	0	0	0
## 3785 3785	0	0	0	0	0	0	0	0	1	0	0
## 3786 3786	0	0	0	0	0	1	0	0	0	0	0
## 3787 3787	0	0	0	2	0	0	0	0	0	0	0
## 3788 3788	0	0	0	0	1	0	0	0	0	0	0
## 3789 3789	0	0	0	0	0	0	0	0	0	0	0
## 3790 3790	0	0	0	0	0	0	0	0	0	0	0
## 3791 3791	0	0	0	0	1	1	0	0	0	0	0
## 3792 3792	0	0	0	0	0	2	0	0	0	0	0
## 3793 3793	0	0	0	0	0	0	0	0	0	1	7
## 3794 3794	0	0	0	0	0	0	0	0	0	0	0
## 3795 3795	0	0	0	0	0	0	1	0	0	0	1
## 3796 3796	0	0	0	0	0	2	0	0	0	0	0
## 3797 3797	0	0	0	0	0	0	0	0	0	0	0
## 3798 3798	0	0	0	0	0	0	0	0	0	0	0
## 3799 3799	0	0	0	0	0	0	0	0	0	0	0
## 3800 3800	0	1	0	0	0	0	0	0	0	0	0
## 3801 3801	0	1	0	0	0	0	0	1	0	0	0
## 3802 3802	0	0	0	0	0	0	0	0	0	0	0
## 3803 3803	2	0	0	0	0	0	0	0	0	0	0
## 3804 3804	0	0	0	0	0	0	0	0	0	0	1
## 3805 3805	0	0	0	0	0	0	0	0	0	1	0
## 3806 3806	0	0	0	0	0	0	0	0	0	0	0
## 3807 3807	0	0	0	0	0	0	0	0	0	0	0
## 3808 3808	0	0	0	0	0	0	0	0	0	0	2
## 3809 3809	0	0	0	0	0	0	0	0	0	0	0
## 3810 3810	0	0	1	0	3	0	0	0	0	0	0
## 3811 3811	0	0	0	0	2	4	0	0	0	1	0
## 3812 3812	0	0	0	0	0	0	0	0	0	0	0
## 3813 3813	0	0	0	0	0	1	1	0	0	0	0

```

## 3814 3814 0 0 0 0 0 0 0 0 0 0 0 0
## 3815 3815 0 0 0 0 0 0 0 0 0 0 0 0
## 3816 3816 0 0 0 0 0 0 0 0 0 3 0 0
## 3817 3817 0 1 1 0 0 0 0 0 0 0 0 0
## 3818 3818 0 0 0 1 0 0 0 0 0 0 0 0
## 3819 3819 0 0 0 0 0 2 0 0 0 0 0 0
## 3820 3820 1 0 0 0 0 1 0 0 0 0 0 0
## 3821 3821 0 0 0 0 1 0 1 0 0 0 0 0
## 3822 3822 0 0 0 0 0 0 0 0 0 0 0 0
## 3823 3823 0 0 0 0 0 0 0 0 0 0 0 0
## 3824 3824 0 0 0 0 0 0 1 2 0 0 0 0
## 3825 3825 0 0 0 0 0 0 0 0 0 0 1 0
## 3826 3826 0 0 0 0 0 0 0 0 2 0 0 0
## 3827 3827 0 0 0 1 0 1 1 0 0 0 0 0
## 3828 3828 0 0 0 0 0 0 0 0 0 0 1 0
## 3829 3829 0 0 0 0 0 0 0 0 0 0 0 0
## 3830 3830 0 0 0 0 0 0 0 0 0 0 0 0
## 3831 3831 0 0 0 0 0 0 0 0 0 0 0 0
## 3832 3832 0 0 0 0 0 0 2 0 0 0 0 0
## 3833 3833 0 0 0 0 0 0 0 0 0 2 0 0
## 3834 3834 0 0 0 0 0 0 0 0 0 0 0 0
## 3835 3835 0 0 0 0 0 0 0 0 0 0 0 0
## 3836 3836 0 0 0 0 0 0 1 0 0 0 0 0
## 3837 3837 0 0 0 0 0 0 0 0 0 0 0 0
## 3838 3838 0 0 0 0 0 2 0 0 0 0 0 0
## 3839 3839 0 0 0 0 0 2 0 0 0 0 0 0
## 3840 3840 0 0 0 0 0 0 0 0 0 0 0 0
## 3841 3841 0 1 0 0 0 0 0 0 0 0 0 0
## 3842 3842 0 0 0 0 0 0 0 0 0 0 0 0
## 3843 3843 0 0 0 0 0 0 0 0 2 0 0 0
## 3844 3844 0 0 0 0 0 0 0 0 0 0 0 2
## 3845 3845 0 0 0 0 1 0 0 0 0 0 0 0
## 3846 3846 0 2 0 0 0 0 0 0 0 0 0 0
## 3847 3847 0 0 0 0 0 0 0 0 0 0 0 0
## 3848 3848 0 0 0 0 0 0 0 0 0 0 0 0
## 3849 3849 0 0 0 0 2 0 0 0 0 0 0 0
## 3850 3850 0 0 0 0 0 0 0 0 0 0 0 0
## 3851 3851 0 0 0 0 0 0 0 2 0 0 0 0
## 3852 3852 1 1 0 2 0 0 0 0 0 0 0 0
## 3853 3853 0 0 0 0 0 0 0 0 0 0 0 0
## 3854 3854 0 0 0 2 0 0 0 0 0 0 0 0
## 3855 3855 0 0 0 1 0 1 2 0 0 0 0 0
## 3856 3856 0 0 0 0 0 0 0 1 0 0 0 0
## 3857 3857 0 0 0 0 0 0 0 0 0 0 0 0
## 3858 3858 0 2 0 0 0 0 0 0 0 0 0 0
## 3859 3859 0 0 0 0 0 0 0 0 0 0 0 0
## 3860 3860 0 0 0 0 0 0 0 0 0 0 0 0
## 3861 3861 0 0 0 0 0 0 1 0 0 0 0 0
## 3862 3862 1 1 0 0 0 0 0 0 0 0 0 0
## 3863 3863 0 0 2 0 0 0 0 0 0 0 0 0
## 3864 3864 0 0 0 0 2 0 0 0 0 0 0 0
## 3865 3865 0 0 0 0 0 0 0 2 0 0 0 0
## 3866 3866 0 0 2 0 0 0 0 0 0 0 0 0
## 3867 3867 0 0 1 0 0 0 0 0 0 0 0 0

```

```

## 3868 3868 0 0 2 0 0 0 0 0 0 0 0 0
## 3869 3869 0 0 0 0 0 2 0 0 0 0 0 0
## 3870 3870 0 0 0 1 0 0 0 1 0 0 0 0
## 3871 3871 0 0 0 0 0 0 0 2 0 0 0 0
## 3872 3872 0 0 0 2 0 0 0 0 0 0 0 0
## 3873 3873 0 1 0 0 0 0 0 0 1 0 0 0
## 3874 3874 0 0 0 0 3 0 0 0 0 0 0 0
## 3875 3875 0 0 0 0 0 0 0 0 0 0 0 0
## 3876 3876 0 0 0 0 1 0 1 4 0 0 0 0
## 3877 3877 0 0 0 0 0 0 0 2 0 0 0 0
## 3878 3878 0 0 0 0 0 0 0 0 0 0 0 0
## 3879 3879 0 0 0 2 0 0 0 0 0 0 0 0
## 3880 3880 4 0 0 1 2 0 0 0 0 0 0 0
## 3881 3881 0 0 0 0 0 0 0 0 0 1 0 0
## 3882 3882 0 0 0 1 1 0 0 1 0 1 0 0
## 3883 3883 0 0 0 0 0 0 0 0 0 0 0 0
## 3884 3884 0 0 0 0 0 0 0 0 0 0 2 0
## 3885 3885 0 1 0 1 0 0 0 0 0 0 0 0
## 3886 3886 0 0 0 0 0 0 0 0 0 1 1 0
## 3887 3887 0 0 0 0 0 1 0 0 0 0 0 0
## 3888 3888 0 0 0 2 0 0 0 0 0 0 0 0
## 3889 3889 0 4 0 0 0 0 0 0 0 0 0 0
## 3890 3890 1 1 0 0 0 0 0 0 0 0 0 0
## 3891 3891 0 0 0 1 0 2 0 0 0 0 0 0
## 3892 3892 0 0 0 0 0 0 0 0 0 0 0 0
## 3893 3893 0 0 0 0 0 0 0 0 0 0 0 0
## 3894 3894 0 0 0 0 0 0 0 0 0 0 0 0
## 3895 3895 0 0 0 0 0 0 0 0 0 0 0 0
## 3896 3896 0 0 0 0 0 0 0 0 0 0 0 0
## 3897 3897 0 0 0 0 0 0 0 0 0 0 0 0
## 3898 3898 0 0 0 0 0 0 0 0 0 0 0 2
## 3899 3899 0 0 0 0 0 0 0 0 0 0 0 0
## 3900 3900 0 0 0 0 0 2 0 0 0 0 0 0
## 3901 3901 0 0 0 0 0 0 0 0 0 0 0 0
## 3902 3902 1 0 2 1 0 0 0 0 0 0 0 0
## 3903 3903 0 0 0 0 0 0 0 0 0 0 0 0
## 3904 3904 0 0 0 0 0 0 0 0 0 0 0 0
## 3905 3905 0 0 0 0 0 0 0 0 0 0 0 0
## 3906 3906 0 0 0 0 0 0 0 0 0 0 0 0
## 3907 3907 0 0 0 4 0 0 0 0 1 0 0 0
## 3908 3908 0 0 0 0 0 0 0 0 0 0 0 0
## 3909 3909 0 0 0 1 0 0 0 0 0 0 0 0
## 3910 3910 0 0 0 0 0 0 0 0 0 0 0 0
## 3911 3911 0 0 0 0 0 0 0 0 0 0 0 0
## 3912 3912 0 0 0 0 0 0 0 0 0 0 0 1
## 3913 3913 0 0 0 0 0 0 0 0 0 0 0 0
## 3914 3914 0 0 0 0 0 0 0 0 0 0 0 0
## 3915 3915 1 0 0 0 0 0 0 0 0 0 0 0
## 3916 3916 0 0 0 0 0 0 0 0 0 0 2 1
## 3917 3917 0 0 0 0 0 0 0 0 0 0 0 0
## 3918 3918 0 0 0 2 0 0 1 1 0 0 0 0
## 3919 3919 0 0 0 0 1 0 0 0 0 0 0 0
## 3920 3920 0 0 0 0 0 0 1 0 0 0 0 0
## 3921 3921 0 0 2 0 0 0 0 0 0 0 0 0

```

## 3922 3922	0	0	0	0	0	0	0	0	0	0	2
## 3923 3923	0	0	0	0	2	0	0	0	0	0	0
## 3924 3924	0	0	0	0	0	0	0	1	0	0	0
## 3925 3925	0	0	0	0	2	0	0	0	1	0	0
## 3926 3926	0	0	0	2	0	0	0	0	0	0	0
## 3927 3927	0	0	0	0	0	0	0	0	2	0	0
## 3928 3928	2	1	0	0	0	0	0	0	0	0	0
## 3929 3929	0	0	0	2	0	0	0	0	0	0	0
## 3930 3930	0	2	0	0	0	0	0	0	0	0	0
## 3931 3931	0	0	0	2	0	0	0	0	0	0	0
## 3932 3932	0	0	0	0	0	0	0	0	0	0	0
## 3933 3933	0	0	0	0	0	1	0	0	0	0	0
## 3934 3934	0	0	0	0	0	0	0	0	2	0	0
## 3935 3935	0	0	0	0	0	0	0	0	0	0	0
## 3936 3936	0	0	0	0	0	0	0	0	0	0	0
## 3937 3937	0	0	0	0	0	0	0	0	0	2	0
## 3938 3938	0	0	0	0	0	0	0	0	0	0	0
## 3939 3939	0	0	0	0	0	2	0	0	0	0	0
## 3940 3940	1	2	2	0	0	0	0	0	0	0	0
## 3941 3941	0	0	0	0	0	0	0	0	0	0	0
## 3942 3942	0	0	0	0	0	0	0	2	0	0	0
## 3943 3943	0	0	0	0	0	0	0	0	0	0	0
## 3944 3944	0	0	0	0	0	0	0	0	0	1	0
## 3945 3945	0	0	0	0	0	0	0	0	0	0	0
## 3946 3946	0	0	0	0	0	0	0	0	0	0	0
## 3947 3947	0	0	0	1	0	0	0	0	0	0	0
## 3948 3948	0	0	0	0	0	0	0	0	0	0	0
## 3949 3949	0	0	2	0	0	0	0	0	0	0	0
## 3950 3950	0	0	0	1	0	1	0	0	0	0	0
## 3951 3951	0	0	0	0	0	0	0	0	0	0	0
## 3952 3952	0	0	0	0	1	1	0	0	0	0	0
## 3953 3953	0	0	0	0	0	0	0	0	0	0	0
## 3954 3954	0	0	0	0	0	0	0	0	0	0	0
## 3955 3955	0	0	0	0	0	0	0	0	0	0	0
## 3956 3956	0	0	0	0	0	0	0	0	0	0	0
## 3957 3957	0	0	0	0	2	0	0	0	0	0	0
## 3958 3958	0	0	0	0	0	0	0	0	2	0	0
## 3959 3959	0	0	0	0	0	0	2	0	0	0	0
## 3960 3960	0	0	0	0	0	0	0	2	0	0	0
## 3961 3961	0	0	0	0	0	0	1	0	0	0	0
## 3962 3962	0	0	0	0	0	0	0	0	0	0	0
## 3963 3963	0	0	0	0	0	0	0	1	0	0	0
## 3964 3964	0	0	0	0	0	0	0	0	0	0	0
## 3965 3965	0	1	0	2	0	0	0	0	0	0	0
## 3966 3966	0	0	0	2	0	0	0	0	0	0	0
## 3967 3967	0	2	0	0	0	0	0	0	0	0	0
## 3968 3968	1	0	0	0	0	0	0	0	0	0	1
## 3969 3969	0	0	0	0	1	0	0	0	0	0	0
## 3970 3970	0	0	0	0	1	0	0	0	1	0	0
## 3971 3971	0	0	0	0	0	0	2	0	0	0	0
## 3972 3972	0	0	0	0	0	0	3	1	0	0	0
## 3973 3973	0	0	0	0	2	0	0	0	0	0	0
## 3974 3974	0	0	0	0	0	0	0	0	4	0	0
## 3975 3975	0	1	2	0	0	0	0	0	0	0	0

## 3976 3976	0	0	0	0	0	0	0	0	0	0	0	0
## 3977 3977	0	0	0	0	0	0	0	0	0	0	0	0
## 3978 3978	0	0	0	0	0	0	0	3	0	0	0	0
## 3979 3979	0	0	0	0	0	0	2	0	0	0	0	0
## 3980 3980	0	0	0	0	0	0	0	0	3	0	0	0
## 3981 3981	0	0	0	0	0	0	0	1	0	0	0	0
## 3982 3982	0	0	0	0	0	2	0	0	0	0	0	0
## 3983 3983	0	0	0	0	1	0	2	0	0	0	0	0
## 3984 3984	0	0	0	0	0	0	0	0	0	0	0	0
## 3985 3985	0	0	0	0	0	0	1	0	0	0	0	0
## 3986 3986	1	0	0	0	0	0	1	0	0	0	0	0
## 3987 3987	0	0	0	1	1	0	0	0	0	0	0	0
## 3988 3988	1	0	0	0	0	0	0	0	0	0	0	0
## 3989 3989	0	0	0	0	0	0	0	0	0	0	0	0
## 3990 3990	0	0	0	3	0	0	0	0	0	0	0	0
## 3991 3991	0	0	0	0	0	0	0	0	1	2	1	
## 3992 3992	1	1	0	0	0	0	0	0	0	0	0	0
## 3993 3993	0	0	0	0	0	0	1	0	0	0	0	0
## 3994 3994	0	0	0	1	0	0	1	1	0	0	0	0
## 3995 3995	0	0	0	0	0	0	0	2	0	0	0	0
## 3996 3996	0	0	0	0	0	0	0	0	0	0	0	0
## 3997 3997	1	1	0	0	0	0	0	0	0	0	0	0
## 3998 3998	0	0	0	0	0	0	0	0	0	0	0	0
## 3999 3999	0	0	0	1	1	1	0	1	0	0	0	0
## 4000 4000	0	0	0	0	0	0	0	2	0	0	0	0
## 4001 4001	0	0	0	1	1	1	0	1	0	0	0	0
## 4002 4002	1	0	0	0	0	0	0	0	0	0	0	0
## 4003 4003	0	2	0	0	0	0	0	0	0	0	0	0
## 4004 4004	0	0	0	0	0	0	2	0	0	0	0	0
## 4005 4005	0	0	1	0	0	0	0	0	0	0	0	0
## 4006 4006	0	0	0	0	0	0	0	0	0	0	0	0
## 4007 4007	0	0	0	0	0	0	0	0	0	0	0	0
## 4008 4008	0	0	0	0	0	0	0	0	0	0	0	0
## 4009 4009	0	0	0	0	0	0	0	0	0	0	0	0
## 4010 4010	0	0	0	0	0	0	0	0	0	0	0	2
## 4011 4011	0	0	0	0	0	0	0	0	0	0	0	0
## 4012 4012	0	0	0	0	0	0	0	0	2	0	0	
## 4013 4013	0	0	0	0	0	0	0	0	0	0	0	0
## 4014 4014	0	0	0	0	0	0	0	0	0	0	0	0
## 4015 4015	0	2	0	0	0	0	0	0	0	0	0	0
## 4016 4016	0	0	0	0	0	0	0	0	0	0	2	0
## 4017 4017	0	0	0	0	0	0	2	0	0	0	0	0
## 4018 4018	0	0	0	0	0	0	0	0	0	0	0	0
## 4019 4019	0	0	0	0	0	0	0	3	0	0	0	0
## 4020 4020	0	0	0	0	0	0	0	0	0	0	0	0
## 4021 4021	0	0	0	0	1	0	2	0	0	0	0	0
## 4022 4022	0	0	1	1	0	0	0	0	0	0	0	0
## 4023 4023	0	0	0	0	0	0	0	0	0	0	0	0
## 4024 4024	0	0	0	0	0	0	0	0	0	0	0	0
## 4025 4025	0	0	0	0	0	0	2	0	0	0	0	0
## 4026 4026	0	0	0	0	0	0	0	0	1	0	0	0
## 4027 4027	0	0	0	0	0	0	0	0	0	0	0	0
## 4028 4028	0	0	0	0	2	0	0	0	0	0	2	0
## 4029 4029	0	0	1	0	1	2	0	0	0	0	0	0

```

## 4030 4030 0 0 0 0 0 0 0 0 0 0 0 0
## 4031 4031 0 0 0 0 0 0 0 0 0 0 0 0
## 4032 4032 0 0 0 0 0 0 0 0 0 0 0 0
## 4033 4033 0 1 0 0 0 0 0 0 0 0 0 0
## 4034 4034 0 0 0 0 0 0 0 0 0 0 0 0
## 4035 4035 0 0 0 0 0 0 0 1 0 0 0 0
## 4036 4036 0 0 0 0 0 0 0 0 0 0 0 0
## 4037 4037 0 0 0 0 0 0 0 0 0 0 0 0
## 4038 4038 0 0 0 0 0 0 0 0 0 3 2 0
## 4039 4039 0 0 0 0 0 3 0 0 0 0 0 0
## 4040 4040 0 0 1 0 0 0 0 0 0 0 0 0
## 4041 4041 0 0 2 0 0 0 0 0 0 0 0 0
## 4042 4042 0 0 0 1 0 1 0 0 0 0 0 0
## 4043 4043 0 0 0 0 0 0 0 0 1 0 0 1
## 4044 4044 0 0 0 0 0 0 0 0 0 0 0 0
## 4045 4045 2 0 0 0 0 0 0 0 0 0 0 0
## 4046 4046 0 0 0 0 1 0 0 0 0 0 0 0
## 4047 4047 0 0 0 1 0 0 0 0 0 0 0 0
## 4048 4048 0 0 0 0 0 0 1 0 0 0 1 0
## 4049 4049 0 0 0 0 0 0 0 0 0 0 0 0
## 4050 4050 0 0 0 1 0 0 0 0 0 0 0 0
## 4051 4051 1 0 0 0 0 0 0 0 0 0 0 0
## 4052 4052 0 1 0 0 0 0 0 0 0 0 0 0
## 4053 4053 0 0 0 0 0 0 0 0 0 1 1 2
## 4054 4054 0 0 0 0 0 0 0 0 0 0 0 0
## 4055 4055 0 0 0 2 0 0 0 0 0 0 0 0
## 4056 4056 0 0 0 0 0 0 0 0 0 2 0 0
## 4057 4057 0 1 1 0 0 0 0 0 0 1 0 0
## 4058 4058 0 0 0 1 0 0 0 0 0 0 0 0
## 4059 4059 0 2 0 1 1 0 0 0 0 0 0 0
## 4060 4060 0 0 0 0 0 0 0 0 0 0 0 1
## 4061 4061 0 0 0 0 0 0 0 0 0 0 0 0
## 4062 4062 0 0 0 0 0 0 0 0 0 0 0 0
## 4063 4063 0 0 0 0 0 0 0 0 0 0 0 0
## 4064 4064 0 0 0 2 0 0 0 0 1 0 0 0
## 4065 4065 0 0 0 0 2 0 0 0 0 1 0 0
## 4066 4066 0 0 0 2 0 0 0 0 0 0 0 0
## 4067 4067 0 0 0 0 0 1 0 0 0 0 0 0
## 4068 4068 0 0 0 0 0 0 0 0 0 0 0 0
## 4069 4069 1 0 0 1 0 0 0 0 0 0 0 0
## 4070 4070 0 0 0 0 0 0 0 0 0 2 0 0
## 4071 4071 0 0 0 0 0 0 0 0 0 3 0 0
## 4072 4072 0 0 0 0 0 0 0 0 4 0 0 0
## 4073 4073 0 0 0 1 0 2 0 0 0 0 0 0
## 4074 4074 0 0 0 0 0 0 1 0 0 0 0 1
## 4075 4075 0 0 0 0 0 1 0 0 0 0 0 0
## 4076 4076 0 0 0 0 0 0 0 2 0 0 0 1
## 4077 4077 0 0 0 0 2 0 0 0 0 0 0 0
## 4078 4078 0 0 0 0 0 0 0 0 0 0 2 0
## 4079 4079 0 0 0 0 0 0 0 0 0 3 0 0
## 4080 4080 0 0 0 0 0 0 0 0 0 0 0 0
## 4081 4081 0 1 0 0 0 0 1 0 0 0 0 0
## 4082 4082 0 0 0 0 0 0 0 1 0 0 0 0
## 4083 4083 0 0 0 0 0 0 0 0 0 0 0 0

```

## 4084 4084	0	0	0	1	0	0	0	2	0	0	0
## 4085 4085	0	0	2	0	0	0	0	0	0	0	0
## 4086 4086	0	0	0	0	0	0	0	0	0	0	0
## 4087 4087	0	0	0	0	0	0	0	0	0	0	0
## 4088 4088	0	0	0	0	0	0	0	0	0	0	0
## 4089 4089	0	0	0	0	0	0	0	0	0	0	0
## 4090 4090	0	0	1	0	0	0	0	0	0	0	0
## 4091 4091	0	1	0	0	0	0	1	0	0	3	2
## 4092 4092	0	0	0	0	0	0	2	1	0	0	0
## 4093 4093	0	1	0	0	0	0	0	0	0	0	0
## 4094 4094	2	0	0	0	0	0	0	0	0	0	0
## 4095 4095	0	0	0	0	0	0	0	0	0	0	0
## 4096 4096	0	0	0	0	0	0	0	0	0	0	0
## 4097 4097	0	0	0	0	1	0	0	0	0	0	0
## 4098 4098	0	0	0	2	0	0	0	0	0	0	0
## 4099 4099	0	0	0	0	0	0	0	0	0	0	0
## 4100 4100	0	0	1	0	0	0	0	0	0	0	0
## 4101 4101	0	0	0	0	0	0	1	0	0	1	0
## 4102 4102	0	0	0	0	0	0	0	0	0	0	1
## 4103 4103	0	0	0	0	0	0	0	0	0	2	0
## 4104 4104	0	0	0	0	0	0	0	0	0	0	0
## 4105 4105	0	0	0	0	0	0	0	0	0	2	0
## 4106 4106	0	0	2	0	0	0	0	0	0	0	0
## 4107 4107	2	0	0	0	0	1	0	0	0	0	0
## 4108 4108	0	1	0	0	0	0	0	0	0	0	0
## 4109 4109	1	1	0	0	0	0	0	0	0	0	0
## 4110 4110	0	0	0	0	0	0	0	0	0	1	0
## 4111 4111	0	0	0	0	0	0	2	0	0	0	0
## 4112 4112	0	0	0	2	0	0	0	0	0	0	0
## 4113 4113	0	0	0	0	0	0	0	0	0	1	0
## 4114 4114	0	0	0	0	0	0	0	0	0	0	0
## 4115 4115	0	0	0	0	2	0	0	0	0	0	0
## 4116 4116	2	0	0	0	0	2	1	0	0	0	0
## 4117 4117	0	0	0	0	0	0	0	0	0	0	0
## 4118 4118	0	0	0	0	0	0	0	0	0	0	0
## 4119 4119	0	0	0	0	0	0	0	0	0	0	0
## 4120 4120	0	0	0	0	0	0	0	0	0	2	0
## 4121 4121	0	0	0	0	0	0	0	0	0	0	0
## 4122 4122	0	0	0	0	0	0	0	0	0	1	0
## 4123 4123	0	0	0	0	0	0	0	0	0	0	0
## 4124 4124	0	0	0	0	2	0	0	0	0	0	0
## 4125 4125	0	0	0	0	0	0	3	0	0	0	0
## 4126 4126	0	0	0	0	0	0	0	0	0	1	0
## 4127 4127	0	0	0	0	0	0	0	0	0	0	0
## 4128 4128	0	0	0	0	0	0	0	0	0	0	0
## 4129 4129	0	0	0	0	0	0	0	0	0	0	0
## 4130 4130	0	0	0	1	0	0	1	0	0	0	0
## 4131 4131	0	0	0	0	1	1	0	0	0	0	0
## 4132 4132	0	0	0	0	0	0	2	0	0	0	0
## 4133 4133	0	0	0	0	0	0	0	0	0	2	0
## 4134 4134	0	0	0	2	0	0	0	0	0	0	0
## 4135 4135	0	2	0	2	0	0	0	0	0	0	0
## 4136 4136	0	0	0	0	2	0	0	0	0	0	0
## 4137 4137	0	0	0	0	0	0	0	0	0	0	0

## 4138 4138	0	0	0	0	0	0	0	2	0	0	0
## 4139 4139	0	0	0	0	1	0	1	1	0	0	1
## 4140 4140	0	0	0	1	5	1	0	0	0	2	0
## 4141 4141	0	0	0	1	1	0	0	0	0	1	1
## 4142 4142	0	0	0	0	0	0	0	0	0	0	0
## 4143 4143	0	0	0	0	0	0	0	0	0	0	0
## 4144 4144	0	0	0	2	0	0	0	0	0	0	0
## 4145 4145	0	0	2	0	0	0	0	0	0	0	0
## 4146 4146	0	0	0	1	0	2	0	0	0	1	0
## 4147 4147	0	0	0	0	0	0	1	0	0	0	0
## 4148 4148	0	2	0	0	0	0	0	0	0	0	0
## 4149 4149	0	0	0	0	0	0	0	0	0	0	0
## 4150 4150	0	0	0	0	0	0	0	0	0	0	2
## 4151 4151	0	0	0	0	0	0	0	0	0	0	0
## 4152 4152	0	0	0	0	0	0	0	0	0	0	0
## 4153 4153	0	0	0	0	0	0	0	0	0	1	0
## 4154 4154	1	0	0	0	0	0	0	0	0	0	0
## 4155 4155	0	0	0	0	0	0	0	0	0	1	0
## 4156 4156	0	0	0	2	0	0	0	0	0	0	0
## 4157 4157	0	0	0	0	0	0	0	1	0	0	0
## 4158 4158	0	0	0	0	2	0	0	0	0	0	0
## 4159 4159	0	0	0	0	0	0	0	0	0	0	0
## 4160 4160	0	0	0	0	0	0	0	0	0	0	0
## 4161 4161	0	2	0	0	0	0	0	0	0	0	0
## 4162 4162	0	0	0	0	0	0	0	0	1	0	0
## 4163 4163	0	0	0	1	0	0	0	0	0	0	0
## 4164 4164	0	0	0	0	0	0	0	0	1	1	0
## 4165 4165	0	0	0	0	0	0	0	2	0	1	0
## 4166 4166	0	0	0	0	0	0	0	0	0	0	0
## 4167 4167	0	0	0	0	0	0	0	0	4	0	0
## 4168 4168	1	0	0	0	1	1	0	0	0	0	0
## 4169 4169	2	0	0	0	0	0	0	0	0	0	0
## 4170 4170	0	0	2	0	0	0	0	0	0	0	0
## 4171 4171	0	0	0	0	0	0	0	0	0	0	0
## 4172 4172	0	0	1	0	0	0	0	0	0	0	0
## 4173 4173	0	0	0	0	0	0	0	0	2	0	0
## 4174 4174	0	0	0	0	0	0	1	0	0	0	0
## 4175 4175	0	0	0	0	0	0	0	0	0	0	0
## 4176 4176	0	0	0	0	2	2	1	2	0	1	0
## 4177 4177	0	0	0	0	0	0	0	0	0	2	0
## 4178 4178	0	0	0	0	0	0	0	0	0	0	0
## 4179 4179	0	0	0	0	0	0	2	0	0	0	0
## 4180 4180	0	0	0	0	1	0	0	0	0	0	0
## 4181 4181	0	0	0	1	0	0	0	0	0	0	0
## 4182 4182	0	0	0	0	0	0	0	0	0	0	0
## 4183 4183	0	0	0	0	0	0	0	0	2	0	0
## 4184 4184	0	0	0	0	0	2	0	0	0	1	0
## 4185 4185	0	1	2	0	0	0	0	0	0	0	0
## 4186 4186	0	0	0	0	0	0	2	0	0	0	0
## 4187 4187	0	0	0	0	0	0	0	0	0	0	0
## 4188 4188	0	0	0	0	0	0	0	0	0	0	0
## 4189 4189	0	1	0	0	0	0	0	0	0	0	0
## 4190 4190	0	0	0	1	0	0	0	0	0	0	0
## 4191 4191	0	0	0	0	0	0	0	0	3	0	0

## 4192 4192	0	0	0	0	0	0	2	0	0	0	0
## 4193 4193	0	0	0	0	0	0	1	0	1	0	0
## 4194 4194	0	1	0	0	0	0	0	0	0	2	0
## 4195 4195	0	0	0	0	0	0	0	0	1	0	2
## 4196 4196	0	0	0	0	0	0	0	1	0	0	1
## 4197 4197	0	0	0	0	0	0	0	0	0	0	0
## 4198 4198	0	0	0	0	0	0	0	0	0	1	1
## 4199 4199	0	0	0	0	0	0	0	1	2	0	0
## 4200 4200	0	0	0	0	0	0	0	0	0	0	0
## 4201 4201	0	0	0	0	0	0	0	0	0	0	0
## 4202 4202	0	0	0	0	0	0	0	0	0	0	0
## 4203 4203	0	0	0	0	0	0	0	0	0	0	0
## 4204 4204	0	0	0	0	0	0	0	0	0	0	0
## 4205 4205	0	0	0	0	0	2	0	0	0	0	0
## 4206 4206	0	0	0	0	0	0	0	0	0	0	0
## 4207 4207	0	0	0	0	0	0	0	0	0	0	0
## 4208 4208	0	0	0	0	0	3	0	0	0	0	0
## 4209 4209	0	2	0	0	1	0	0	0	0	0	0
## 4210 4210	0	0	0	0	0	0	0	0	0	0	0
## 4211 4211	0	0	0	0	0	0	2	0	0	0	0
## 4212 4212	0	0	0	0	0	0	2	0	0	0	0
## 4213 4213	0	0	0	0	0	0	0	0	0	0	0
## 4214 4214	0	0	0	0	0	0	0	0	0	0	0
## 4215 4215	0	0	0	0	0	2	0	0	0	0	0
## 4216 4216	0	2	0	0	0	0	0	0	0	0	0
## 4217 4217	0	0	0	0	0	0	0	0	0	0	0
## 4218 4218	0	0	1	0	2	0	0	0	0	0	0
## 4219 4219	0	0	0	0	0	0	0	0	1	0	2
## 4220 4220	0	0	0	0	0	0	0	0	0	0	0
## 4221 4221	0	0	0	0	0	0	0	0	0	0	0
## 4222 4222	0	0	0	0	0	0	0	0	0	0	0
## 4223 4223	0	0	0	0	1	0	0	0	0	0	0
## 4224 4224	0	0	0	0	0	0	0	0	0	0	0
## 4225 4225	1	1	0	0	0	0	0	0	0	0	0
## 4226 4226	1	0	0	0	0	0	0	0	0	0	0
## 4227 4227	0	0	0	0	2	0	0	1	0	0	0
## 4228 4228	0	0	0	0	0	0	0	0	0	0	2
## 4229 4229	0	0	0	0	0	0	0	0	0	0	2
## 4230 4230	0	0	0	1	0	0	0	0	0	0	0
## 4231 4231	0	0	0	0	0	0	0	0	0	0	0
## 4232 4232	0	0	0	0	0	0	1	0	0	0	0
## 4233 4233	0	0	0	0	0	0	0	0	0	0	0
## 4234 4234	1	0	0	0	0	0	0	0	0	0	0
## 4235 4235	0	0	0	0	0	0	0	0	0	0	0
## 4236 4236	0	0	0	0	0	0	4	0	0	0	0
## 4237 4237	0	0	0	0	0	0	0	0	0	0	0
## 4238 4238	0	0	0	2	0	0	0	0	0	0	0
## 4239 4239	0	1	0	1	0	0	0	0	0	0	0
## 4240 4240	0	2	0	0	0	0	0	0	0	0	0
## 4241 4241	0	0	0	1	0	2	0	0	0	0	0
## 4242 4242	0	0	0	0	0	0	0	0	0	0	0
## 4243 4243	2	0	0	0	0	0	0	0	0	0	0
## 4244 4244	0	0	0	0	0	0	2	0	1	0	0
## 4245 4245	0	0	0	0	0	0	0	0	0	0	0

## 4246 4246	0	0	0	0	0	0	0	0	0	0	0
## 4247 4247	0	0	0	0	0	0	0	0	0	2	0
## 4248 4248	0	0	0	0	2	0	0	0	0	0	0
## 4249 4249	0	0	0	0	0	0	0	0	0	3	0
## 4250 4250	0	0	0	0	0	0	0	0	0	0	1
## 4251 4251	0	0	0	0	0	0	0	0	0	0	0
## 4252 4252	0	0	0	0	0	0	0	0	0	0	0
## 4253 4253	0	2	0	1	0	0	0	0	0	0	0
## 4254 4254	0	0	0	1	0	1	0	0	0	0	0
## 4255 4255	3	0	0	2	0	0	0	0	0	0	0
## 4256 4256	0	0	0	0	0	0	0	0	0	0	0
## 4257 4257	0	0	0	0	1	0	1	0	0	0	0
## 4258 4258	0	0	0	1	0	0	0	0	0	0	0
## 4259 4259	0	0	0	0	0	0	2	0	0	0	0
## 4260 4260	0	0	0	0	1	0	0	1	0	1	0
## 4261 4261	0	0	0	0	0	0	0	4	0	0	0
## 4262 4262	0	0	0	0	0	0	0	0	0	0	0
## 4263 4263	0	0	0	0	0	0	0	0	0	0	0
## 4264 4264	4	0	0	0	0	0	0	0	0	0	0
## 4265 4265	0	0	0	0	2	0	0	0	0	0	0
## 4266 4266	0	0	0	2	0	0	0	0	0	0	0
## 4267 4267	0	1	0	0	0	0	1	0	0	0	0
## 4268 4268	0	0	0	0	0	2	0	0	0	0	0
## 4269 4269	1	0	0	0	0	0	0	0	0	0	0
## 4270 4270	0	0	0	0	0	0	5	0	0	0	0
## 4271 4271	0	0	0	0	0	0	0	0	0	0	0
## 4272 4272	0	2	0	0	0	0	0	0	0	0	0
## 4273 4273	0	0	0	0	0	0	0	0	0	0	0
## 4274 4274	0	0	2	0	0	0	0	0	0	0	0
## 4275 4275	0	0	0	0	1	0	3	0	0	0	0
## 4276 4276	0	0	0	0	0	0	0	0	0	0	0
## 4277 4277	0	0	1	0	0	0	0	0	0	0	0
## 4278 4278	0	0	0	0	0	0	2	0	0	0	1
## 4279 4279	0	0	0	0	0	0	0	0	0	0	0
## 4280 4280	0	0	0	0	0	0	0	0	2	1	0
## 4281 4281	0	0	0	0	0	0	2	2	0	0	0
## 4282 4282	2	0	0	0	0	0	0	0	0	0	0
## 4283 4283	0	2	0	0	0	0	0	0	0	0	0
## 4284 4284	0	0	0	0	0	0	0	0	2	1	0
## 4285 4285	0	0	1	0	0	1	0	0	0	0	0
## 4286 4286	0	0	0	0	0	0	0	0	0	0	0
## 4287 4287	2	1	0	0	1	0	0	0	0	0	0
## 4288 4288	0	0	0	0	0	3	0	0	0	0	0
## 4289 4289	0	2	0	0	0	0	0	0	0	0	1
## 4290 4290	0	0	0	0	0	0	0	0	0	2	0
## 4291 4291	0	0	0	2	0	0	0	0	0	0	0
## 4292 4292	0	0	0	0	0	0	0	0	2	0	0
## 4293 4293	0	0	0	0	0	0	0	6	0	0	0
## 4294 4294	0	0	0	0	0	0	0	0	0	0	0
## 4295 4295	0	0	0	0	0	0	0	2	0	0	0
## 4296 4296	1	0	1	0	0	0	0	0	0	0	0
## 4297 4297	0	0	0	0	0	0	0	2	0	0	0
## 4298 4298	0	0	0	0	0	0	0	0	0	0	0
## 4299 4299	0	0	0	0	0	0	0	0	0	0	0

## 4300	4300	0	0	0	0	0	0	0	2	0	0
## 4301	4301	0	0	0	0	0	0	0	0	0	0
## 4302	4302	0	0	0	0	0	0	0	0	0	0
## 4303	4303	0	0	0	0	0	3	0	0	0	0
## 4304	4304	0	0	0	0	0	0	0	0	0	0
## 4305	4305	0	0	0	0	2	0	0	0	0	0
## 4306	4306	0	0	0	0	0	0	0	0	0	0
## 4307	4307	0	0	0	0	1	0	1	0	0	0
## 4308	4308	0	0	0	0	0	0	1	0	0	0
## 4309	4309	0	0	2	0	0	0	0	0	0	0
## 4310	4310	0	0	0	0	0	0	0	0	0	0
## 4311	4311	1	1	0	0	0	0	1	0	0	0
## 4312	4312	0	0	0	0	0	0	0	0	0	0
## 4313	4313	0	0	0	1	0	0	0	0	0	0
## 4314	4314	0	2	0	1	0	0	0	0	0	0
## 4315	4315	0	0	0	0	0	0	0	0	1	0
## 4316	4316	0	0	0	0	0	0	0	2	0	0
## 4317	4317	2	0	0	0	0	2	0	0	0	0
## 4318	4318	0	0	0	0	0	0	0	0	0	0
## 4319	4319	0	0	0	1	1	0	0	0	0	0
## 4320	4320	0	0	0	0	0	0	2	0	0	0
## 4321	4321	0	0	0	0	0	0	0	0	0	0
## 4322	4322	0	0	0	0	0	0	0	0	0	0
## 4323	4323	0	0	0	0	0	0	0	0	0	0
## 4324	4324	0	0	0	0	0	0	0	0	0	0
## 4325	4325	0	0	0	0	0	0	0	0	0	0
## 4326	4326	0	0	0	0	0	1	0	0	0	0
## 4327	4327	0	0	0	0	0	0	0	0	0	0
## 4328	4328	0	0	0	0	0	0	2	1	0	0
## 4329	4329	0	0	0	0	0	0	0	1	2	0
## 4330	4330	0	0	1	0	0	0	0	0	0	0
## 4331	4331	0	0	0	0	0	0	0	0	0	0
## 4332	4332	0	0	0	0	0	0	0	0	0	0
## 4333	4333	0	0	0	0	0	0	0	0	2	0
## 4334	4334	0	2	0	0	0	0	0	0	0	0
## 4335	4335	0	0	0	0	0	0	0	0	0	0
## 4336	4336	2	0	0	0	0	0	0	0	0	0
## 4337	4337	0	0	0	0	0	0	0	0	0	0
## 4338	4338	0	0	0	0	0	0	0	0	0	0
## 4339	4339	0	0	0	0	0	0	0	0	0	0
## 4340	4340	0	0	0	1	0	0	0	0	0	0
## 4341	4341	0	0	0	0	0	0	0	0	0	0
## 4342	4342	0	0	0	0	0	0	0	0	0	0
## 4343	4343	0	0	0	0	0	0	0	0	0	0
## 4344	4344	0	0	0	0	0	0	0	0	0	0
## 4345	4345	0	0	0	0	1	0	0	0	0	2
## 4346	4346	0	0	2	0	0	0	0	0	0	0
## 4347	4347	0	0	0	0	0	0	0	0	0	0
## 4348	4348	0	0	0	0	0	0	0	0	0	0
## 4349	4349	0	0	0	0	0	0	1	1	0	0
## 4350	4350	0	0	0	2	0	0	0	0	0	0
## 4351	4351	2	0	0	0	0	0	0	0	0	0
## 4352	4352	0	0	0	0	0	0	0	0	1	0
## 4353	4353	0	0	0	0	0	0	0	0	0	0

## 4354 4354	0	0	0	0	0	0	1	1	0	0	0
## 4355 4355	0	0	0	0	0	3	0	0	0	0	0
## 4356 4356	0	0	0	2	0	2	1	2	0	0	0
## 4357 4357	0	0	0	1	0	0	0	0	0	0	0
## 4358 4358	0	0	0	0	0	0	1	0	0	0	0
## 4359 4359	0	0	0	0	0	0	0	0	0	0	0
## 4360 4360	0	0	0	0	0	0	0	0	0	0	0
## 4361 4361	0	0	0	0	0	0	0	0	0	0	0
## 4362 4362	0	0	0	0	0	0	0	0	0	0	0
## 4363 4363	0	0	0	1	0	2	0	0	0	0	0
## 4364 4364	0	0	0	0	0	0	0	0	0	0	0
## 4365 4365	0	0	0	0	0	0	2	0	0	0	0
## 4366 4366	0	0	0	0	0	2	0	0	0	0	0
## 4367 4367	0	0	0	0	0	0	0	0	0	0	0
## 4368 4368	0	0	0	0	3	0	0	0	0	0	0
## 4369 4369	0	0	0	0	0	1	0	0	1	0	0
## 4370 4370	2	0	0	0	0	0	0	0	0	0	0
## 4371 4371	0	0	0	0	0	0	0	0	0	0	0
## 4372 4372	0	0	0	0	0	0	0	0	0	0	2
## 4373 4373	0	0	0	0	0	0	0	0	0	0	0
## 4374 4374	0	2	0	0	0	0	0	0	0	0	0
## 4375 4375	0	0	0	0	0	0	0	0	0	0	0
## 4376 4376	0	0	0	0	0	0	0	0	3	0	0
## 4377 4377	0	0	0	0	0	0	0	0	0	0	0
## 4378 4378	0	0	0	0	0	0	0	0	0	0	0
## 4379 4379	2	0	0	0	0	0	0	0	0	0	0
## 4380 4380	0	2	0	0	0	0	0	0	0	0	0
## 4381 4381	0	0	0	0	0	3	0	0	0	0	0
## 4382 4382	0	0	0	0	0	0	0	0	0	0	0
## 4383 4383	0	0	0	0	0	0	0	0	0	0	2
## 4384 4384	0	0	0	0	2	0	0	0	0	0	0
## 4385 4385	0	0	0	0	0	2	0	0	0	0	0
## 4386 4386	0	0	0	0	0	0	1	0	0	0	0
## 4387 4387	0	0	0	0	0	0	0	0	0	0	0
## 4388 4388	0	0	0	0	0	0	0	0	0	0	0
## 4389 4389	0	0	0	0	0	0	1	1	1	0	0
## 4390 4390	0	0	0	0	0	1	0	0	0	0	0
## 4391 4391	0	1	1	0	0	0	0	0	0	0	0
## 4392 4392	1	0	3	0	0	0	0	0	0	0	0
## 4393 4393	0	0	0	2	0	0	0	0	0	0	0
## 4394 4394	0	0	0	0	0	0	0	0	0	0	0
## 4395 4395	0	0	0	0	0	0	2	0	0	0	0
## 4396 4396	0	0	0	1	0	2	0	0	0	0	0
## 4397 4397	0	0	0	0	0	0	0	2	0	0	0
## 4398 4398	0	0	0	0	0	0	0	0	0	0	0
## 4399 4399	0	0	0	0	0	0	0	0	0	0	0
## 4400 4400	1	1	0	0	0	0	0	0	0	0	0
## 4401 4401	0	0	0	0	0	0	1	0	0	0	0
## 4402 4402	0	0	0	0	0	0	0	0	0	0	0
## 4403 4403	3	0	0	0	0	0	0	0	0	0	0
## 4404 4404	0	0	0	0	0	0	0	0	0	0	0
## 4405 4405	0	0	0	0	0	0	2	0	0	0	0
## 4406 4406	0	0	0	0	0	0	0	0	0	0	0
## 4407 4407	0	0	0	0	0	0	0	0	0	0	0

## 4408 4408	0	0	0	0	0	0	2	0	0	0	0
## 4409 4409	0	0	0	0	0	0	1	0	0	2	2
## 4410 4410	0	1	1	0	0	0	0	0	0	0	0
## 4411 4411	0	0	0	2	0	0	0	0	0	0	0
## 4412 4412	0	0	0	0	0	0	0	0	0	0	0
## 4413 4413	0	0	0	0	0	0	0	0	0	0	0
## 4414 4414	0	0	2	0	0	0	0	0	0	0	0
## 4415 4415	0	0	0	0	0	0	0	0	0	0	0
## 4416 4416	0	2	1	0	0	0	0	0	0	0	0
## 4417 4417	0	0	0	0	0	0	0	0	0	0	0
## 4418 4418	0	0	0	0	0	0	0	1	0	0	3
## 4419 4419	0	0	0	0	0	0	2	0	0	0	0
## 4420 4420	0	0	1	4	0	0	0	0	0	0	0
## 4421 4421	0	0	0	0	0	0	0	0	0	0	0
## 4422 4422	0	0	0	0	0	0	0	1	0	0	0
## 4423 4423	0	1	0	0	0	0	0	0	0	0	0
## 4424 4424	0	0	0	0	0	0	0	0	1	1	0
## 4425 4425	0	0	2	0	0	0	0	0	0	0	0
## 4426 4426	0	0	0	2	2	0	0	0	0	0	0
## 4427 4427	0	0	0	0	0	0	0	0	0	1	0
## 4428 4428	0	0	0	0	0	0	0	0	0	0	0
## 4429 4429	2	0	0	0	0	0	0	0	0	0	0
## 4430 4430	0	0	0	0	0	0	2	0	0	0	0
## 4431 4431	0	0	0	0	0	0	0	0	2	0	0
## 4432 4432	0	0	0	1	0	0	0	0	0	0	0
## 4433 4433	0	0	0	0	0	0	0	0	0	0	0
## 4434 4434	0	0	0	0	0	0	0	0	0	0	0
## 4435 4435	0	0	0	0	0	0	0	0	0	0	0
## 4436 4436	0	0	0	0	0	0	0	0	0	0	0
## 4437 4437	0	0	0	0	0	0	0	0	0	0	0
## 4438 4438	0	0	0	0	0	0	0	0	0	0	0
## 4439 4439	0	0	0	0	0	0	0	0	0	2	0
## 4440 4440	0	0	0	0	0	2	0	0	0	0	0
## 4441 4441	0	0	0	0	0	0	0	0	2	0	0
## 4442 4442	0	0	0	0	0	0	0	0	0	0	0
## 4443 4443	0	0	0	0	0	0	0	0	0	0	0
## 4444 4444	0	0	0	0	0	0	0	0	0	0	1
## 4445 4445	0	0	0	0	0	3	0	0	0	0	0
## 4446 4446	0	0	0	0	0	0	0	0	0	0	0
## 4447 4447	0	0	0	0	0	0	0	0	0	0	0
## 4448 4448	0	1	0	0	0	0	0	0	0	0	0
## 4449 4449	0	0	0	0	1	0	0	0	0	0	0
## 4450 4450	0	0	0	1	1	0	0	0	0	0	0
## 4451 4451	2	0	0	0	0	1	0	0	0	0	0
## 4452 4452	0	0	0	0	0	0	0	0	0	0	0
## 4453 4453	2	0	0	0	0	0	0	0	0	0	0
## 4454 4454	0	0	0	0	0	2	1	0	0	0	0
## 4455 4455	0	0	1	2	0	0	0	0	0	0	0
## 4456 4456	0	0	0	2	0	0	0	0	0	0	0
## 4457 4457	2	0	1	0	0	0	0	0	0	0	0
## 4458 4458	0	0	0	0	0	0	0	0	0	0	0
## 4459 4459	0	0	0	0	0	0	0	0	0	1	0
## 4460 4460	0	0	0	0	0	0	0	2	0	0	0
## 4461 4461	0	0	0	1	0	0	0	0	2	0	0

## 4462 4462	0	0	0	0	1	0	0	0	0	0	0
## 4463 4463	0	0	0	0	0	0	2	0	0	0	0
## 4464 4464	0	0	0	0	0	0	0	0	0	0	0
## 4465 4465	1	2	0	0	0	0	0	0	0	0	0
## 4466 4466	0	0	0	0	0	0	2	0	0	0	0
## 4467 4467	0	0	0	0	3	0	1	2	3	1	0
## 4468 4468	0	0	0	0	0	0	0	0	0	0	0
## 4469 4469	0	0	0	0	0	0	0	2	0	0	0
## 4470 4470	0	0	0	0	0	0	1	0	0	0	1
## 4471 4471	0	1	0	0	0	0	0	0	0	0	0
## 4472 4472	0	0	0	0	0	0	0	0	0	0	0
## 4473 4473	0	0	0	0	0	0	0	0	0	0	0
## 4474 4474	0	0	2	0	0	0	0	0	0	0	0
## 4475 4475	0	1	0	0	0	0	0	0	0	0	0
## 4476 4476	0	0	0	0	0	2	0	0	0	0	0
## 4477 4477	0	0	0	1	0	0	0	0	0	0	0
## 4478 4478	0	0	0	0	1	0	0	0	0	0	0
## 4479 4479	0	0	0	0	0	0	0	0	0	0	0
## 4480 4480	0	0	0	0	0	0	0	0	0	0	0
## 4481 4481	0	0	0	0	0	0	0	0	0	1	3
## 4482 4482	0	0	0	0	0	2	0	0	0	0	0
## 4483 4483	0	0	0	0	0	0	0	0	0	0	0
## 4484 4484	0	0	0	3	0	0	0	0	0	0	0
## 4485 4485	0	0	0	0	0	0	0	0	0	0	0
## 4486 4486	0	0	0	0	0	0	0	0	0	0	0
## 4487 4487	0	0	0	0	0	0	0	0	0	2	0
## 4488 4488	0	3	0	0	0	0	0	0	0	0	0
## 4489 4489	0	0	1	0	1	0	0	0	0	0	0
## 4490 4490	0	0	0	1	0	0	0	0	0	0	0
## 4491 4491	0	0	0	0	0	0	0	0	0	0	0
## 4492 4492	0	0	0	0	0	0	0	0	0	0	0
## 4493 4493	0	0	0	0	0	0	0	0	0	0	0
## 4494 4494	0	0	0	0	0	0	2	0	0	0	0
## 4495 4495	0	2	2	0	0	0	0	1	0	0	0
## 4496 4496	0	0	0	0	0	0	0	0	0	0	0
## 4497 4497	0	0	0	0	0	0	1	0	0	0	0
## 4498 4498	0	0	0	0	0	0	0	0	2	0	0
## 4499 4499	1	1	0	0	0	0	0	0	0	0	0
## 4500 4500	0	0	0	0	0	0	2	0	0	0	0
## 4501 4501	0	0	1	0	0	0	1	0	0	0	0
## 4502 4502	0	0	0	0	0	0	0	0	0	0	0
## 4503 4503	0	0	0	0	0	0	0	0	0	0	0
## 4504 4504	1	0	1	0	0	0	0	0	0	0	0
## 4505 4505	0	0	0	0	0	0	0	0	0	0	0
## 4506 4506	0	0	0	0	0	0	0	0	0	0	0
## 4507 4507	0	0	0	0	0	0	1	0	0	0	0
## 4508 4508	0	0	0	0	0	0	1	0	0	0	0
## 4509 4509	0	0	0	0	1	0	0	0	0	0	0
## 4510 4510	0	0	0	0	0	0	0	0	0	0	0
## 4511 4511	0	0	0	0	0	0	0	0	0	0	0
## 4512 4512	0	0	0	0	0	0	0	2	0	0	0
## 4513 4513	1	0	0	0	0	0	0	0	0	0	0
## 4514 4514	0	0	0	0	0	0	0	0	0	0	0
## 4515 4515	0	0	0	0	0	0	0	0	0	0	0

## 4516	4516	0	0	0	0	0	1	0	0	0	0	0
## 4517	4517	0	0	0	0	0	0	0	0	0	0	0
## 4518	4518	0	0	0	0	0	0	0	0	0	0	0
## 4519	4519	0	0	0	1	0	0	0	0	0	0	0
## 4520	4520	0	0	0	1	0	0	0	0	0	0	0
## 4521	4521	0	0	0	1	0	0	0	0	0	0	0
## 4522	4522	0	0	0	0	0	0	0	0	0	0	0
## 4523	4523	0	0	0	0	0	0	1	0	0	0	0
## 4524	4524	0	0	0	0	0	0	0	0	0	0	0
## 4525	4525	0	0	0	0	0	0	0	0	0	0	1
## 4526	4526	0	0	0	0	0	0	1	0	0	0	0
## 4527	4527	0	0	0	0	0	0	0	0	0	0	1
## 4528	4528	0	0	0	0	0	0	0	0	0	0	0
## 4529	4529	0	0	0	0	0	0	0	0	0	0	0
## 4530	4530	0	0	0	2	0	0	0	0	0	0	0
## 4531	4531	0	0	0	1	0	0	0	0	0	0	0
## 4532	4532	0	0	0	0	0	0	0	1	0	0	0
## 4533	4533	0	1	0	0	0	0	1	0	1	0	1
## 4534	4534	0	0	0	0	0	0	2	0	0	0	0
## 4535	4535	0	0	0	0	0	0	0	0	0	0	0
## 4536	4536	0	0	0	0	0	0	0	0	0	0	0
## 4537	4537	0	0	0	0	0	0	1	0	0	0	0
## 4538	4538	0	0	0	0	0	0	0	0	0	0	2
## 4539	4539	0	0	0	0	0	0	0	0	0	0	0
## 4540	4540	0	1	0	2	0	0	0	0	0	0	0
## 4541	4541	0	0	0	0	0	0	0	0	0	0	1
## 4542	4542	0	0	0	0	0	0	0	3	0	0	0
## 4543	4543	0	0	0	0	0	0	0	0	0	0	0
## 4544	4544	0	0	0	0	0	0	0	0	0	0	0
## 4545	4545	0	0	0	0	0	1	0	0	0	0	0
## 4546	4546	0	0	0	0	0	0	0	0	0	0	0
## 4547	4547	0	0	0	0	0	0	0	0	0	0	0
## 4548	4548	0	0	0	1	0	0	0	0	0	0	0
## 4549	4549	0	0	0	0	0	0	0	0	0	0	0
## 4550	4550	0	0	1	0	0	0	0	0	0	0	0
## 4551	4551	0	0	0	1	0	0	0	0	0	0	0
## 4552	4552	0	0	0	0	0	0	0	0	0	0	0
## 4553	4553	0	0	0	0	0	0	0	0	0	0	0
## 4554	4554	0	0	0	0	0	1	0	0	0	0	0
## 4555	4555	0	0	0	0	0	0	0	0	0	0	1
## 4556	4556	0	0	0	0	0	0	0	0	0	0	1
## 4557	4557	0	1	0	0	0	0	0	0	0	0	0
## 4558	4558	0	0	0	0	0	0	0	1	0	0	0
## 4559	4559	0	0	0	0	0	0	0	0	0	0	0
## 4560	4560	0	0	0	0	0	0	0	0	0	0	0
## 4561	4561	0	1	0	0	0	0	0	0	0	0	0
## 4562	4562	0	0	0	0	0	0	0	0	0	0	1
## 4563	4563	0	0	0	0	0	0	0	0	0	0	0
## 4564	4564	0	0	0	0	0	0	1	0	0	0	0
## 4565	4565	0	0	0	0	0	1	0	0	0	0	0
## 4566	4566	1	0	0	0	0	0	0	0	0	0	0
## 4567	4567	0	0	0	0	0	1	0	0	0	0	0
## 4568	4568	0	0	0	0	0	0	1	0	0	0	0
## 4569	4569	0	0	0	0	1	0	0	0	0	0	0

## 4570	4570	0	0	0	1	0	0	0	0	1	0
## 4571	4571	0	0	0	0	0	0	2	0	0	0
## 4572	4572	0	0	0	0	0	0	0	0	0	0
## 4573	4573	0	0	0	1	0	0	0	0	0	0
## 4574	4574	0	0	0	1	0	0	0	0	0	0
## 4575	4575	0	0	0	0	0	0	0	0	0	0
## 4576	4576	0	0	0	0	0	0	0	1	0	0
## 4577	4577	0	0	0	0	0	0	1	0	0	0
## 4578	4578	0	0	0	0	0	0	0	0	0	0
## 4579	4579	0	0	0	0	0	0	0	0	1	0
## 4580	4580	0	0	0	0	0	0	0	0	0	0
## 4581	4581	0	0	0	0	0	0	1	0	0	0
## 4582	4582	0	0	0	1	0	0	0	0	0	0
## 4583	4583	0	1	0	0	0	0	1	0	0	0
## 4584	4584	0	0	0	0	0	0	0	0	0	1
## 4585	4585	0	0	0	0	0	0	0	0	0	0
## 4586	4586	0	0	0	0	0	0	1	0	0	0
## 4587	4587	0	0	0	0	0	0	1	0	0	0
## 4588	4588	0	0	0	0	0	0	2	0	0	0
## 4589	4589	0	0	0	0	0	0	0	0	0	0
## 4590	4590	0	0	1	1	0	0	0	0	0	0
## 4591	4591	0	0	0	1	0	0	0	0	0	0
## 4592	4592	0	0	0	0	0	0	0	0	0	0
## 4593	4593	0	0	0	0	0	0	0	0	0	0
## 4594	4594	0	0	0	0	0	0	0	0	0	0
## 4595	4595	0	0	0	0	0	0	0	0	0	0
## 4596	4596	0	0	0	0	0	0	0	0	0	0
## 4597	4597	0	0	0	0	0	0	0	0	0	1
## 4598	4598	0	0	0	0	0	0	0	0	0	0
## 4599	4599	0	0	0	0	0	0	0	0	0	0
## 4600	4600	0	0	0	0	0	0	0	0	2	2
## 4601	4601	0	0	0	0	0	0	0	0	0	0
## 4602	4602	0	0	0	0	0	0	0	0	0	0
## 4603	4603	0	0	0	0	0	0	0	0	0	0
## 4604	4604	0	0	0	0	0	1	0	0	0	0
## 4605	4605	0	0	0	0	0	0	0	1	0	0
## 4606	4606	0	0	0	0	0	0	0	0	0	0
## 4607	4607	0	0	0	0	0	0	0	0	0	0
## 4608	4608	0	0	0	0	0	0	0	0	0	0
## 4609	4609	0	0	0	0	0	0	0	0	0	0
## 4610	4610	0	0	0	2	0	0	0	0	0	1
## 4611	4611	0	0	0	0	1	0	0	0	0	0
## 4612	4612	0	0	0	0	0	0	0	0	0	0
## 4613	4613	0	0	0	0	0	0	1	0	0	0
## 4614	4614	0	0	0	0	0	0	0	0	0	1
## 4615	4615	0	0	0	1	0	0	0	0	0	0
## 4616	4616	0	0	0	0	0	0	0	0	0	0
## 4617	4617	0	0	0	0	0	0	0	0	0	0
## 4618	4618	0	0	0	0	0	1	0	0	0	0
## 4619	4619	0	0	0	0	0	0	0	0	0	0
## 4620	4620	0	0	0	0	0	0	0	0	0	0
## 4621	4621	0	0	0	0	1	0	0	0	0	0
## 4622	4622	0	0	0	0	0	0	1	0	0	0
## 4623	4623	0	0	0	0	0	0	0	1	0	0

## 4624 4624	0	0	0	0	0	0	0	0	0	0	0
## 4625 4625	0	0	0	0	0	1	0	0	0	0	0
## 4626 4626	0	0	0	0	0	0	0	0	0	0	0
## 4627 4627	0	0	0	0	0	0	0	0	0	0	0
## 4628 4628	0	0	1	0	0	0	0	0	0	0	0
## 4629 4629	0	0	0	0	0	0	1	0	0	0	0
## 4630 4630	0	0	0	0	0	0	0	0	0	0	0
## 4631 4631	0	0	0	0	1	0	0	0	0	0	0
## 4632 4632	0	0	0	0	0	0	0	0	0	0	0
## 4633 4633	0	0	0	0	0	0	0	0	0	0	0
## 4634 4634	1	0	0	0	0	0	0	0	0	0	0
## 4635 4635	1	0	0	0	0	0	0	0	0	0	0
## 4636 4636	0	0	0	0	0	0	1	0	0	0	0
## 4637 4637	0	0	0	0	1	0	0	0	0	0	0
## 4638 4638	0	0	0	1	0	0	0	0	0	0	0
## 4639 4639	0	0	0	0	0	0	0	0	0	0	0
## 4640 4640	0	0	0	0	0	0	0	0	0	0	0
## 4641 4641	0	0	0	0	1	0	0	0	0	0	0
## 4642 4642	0	0	0	0	0	0	0	0	0	0	0
## 4643 4643	0	0	0	0	0	0	1	0	0	0	0
## 4644 4644	0	0	0	0	0	0	0	0	0	0	1
## 4645 4645	0	0	0	0	0	0	0	1	0	0	0
## 4646 4646	0	0	0	1	0	0	0	0	0	0	0
## 4647 4647	0	0	1	0	0	0	0	0	0	0	0
## 4648 4648	0	0	0	0	0	0	0	0	0	0	0
## 4649 4649	0	1	0	0	0	0	0	0	0	0	0
## 4650 4650	0	0	0	0	0	0	0	0	0	0	1
## 4651 4651	0	0	0	0	0	1	0	0	0	0	0
## 4652 4652	0	0	0	0	0	0	0	0	0	0	0
## 4653 4653	0	0	0	1	0	0	0	0	0	0	0
## 4654 4654	0	0	0	0	0	0	0	0	0	0	0
## 4655 4655	0	0	0	0	0	0	0	0	0	0	0
## 4656 4656	0	0	0	0	0	0	0	0	0	0	0
## 4657 4657	0	0	0	0	0	0	0	1	0	0	0
## 4658 4658	0	0	0	0	1	0	0	0	0	0	0
## 4659 4659	0	0	0	0	0	0	1	0	0	0	0
## 4660 4660	0	0	0	0	0	0	1	0	1	0	0
## 4661 4661	0	0	0	0	0	0	0	0	0	0	1
## 4662 4662	0	0	0	0	0	0	1	0	0	0	0
## 4663 4663	0	0	0	0	0	0	0	1	0	0	0
## 4664 4664	0	0	0	0	0	0	0	0	0	0	0
## 4665 4665	0	0	1	0	0	0	0	0	0	0	0
## 4666 4666	0	0	0	0	0	0	0	0	0	0	0
## 4667 4667	0	0	1	0	0	0	0	0	0	0	0
## 4668 4668	0	0	0	1	0	0	0	0	0	1	2
## 4669 4669	0	0	0	0	0	0	0	0	0	0	0
## 4670 4670	0	0	0	0	0	0	0	0	0	0	0
## 4671 4671	0	0	0	0	0	0	0	0	0	0	1
## 4672 4672	1	0	0	0	0	0	0	0	0	0	0
## 4673 4673	0	0	0	0	0	0	0	0	0	0	0
## 4674 4674	0	0	0	0	0	0	0	0	0	0	0
## 4675 4675	0	0	0	2	0	1	0	0	0	0	0
## 4676 4676	0	0	0	0	0	0	0	0	0	1	0
## 4677 4677	0	0	0	0	0	0	0	0	0	0	0

## 4678 4678	0	1	0	0	0	0	0	0	0	0	0
## 4679 4679	0	0	0	0	0	0	0	0	0	0	0
## 4680 4680	0	0	0	0	0	0	0	1	0	0	0
## 4681 4681	0	1	0	0	0	0	0	0	0	0	0
## 4682 4682	0	0	0	0	0	0	0	0	1	0	0
## 4683 4683	0	0	0	0	0	0	0	0	0	0	0
## 4684 4684	0	0	0	0	0	0	0	0	0	0	0
## 4685 4685	1	0	0	1	0	0	0	0	0	0	0
## 4686 4686	0	1	0	0	0	0	0	0	0	0	0
## 4687 4687	0	0	0	0	0	0	0	0	0	0	0
## 4688 4688	0	0	0	1	0	0	0	0	0	0	0
## 4689 4689	0	0	0	0	0	0	0	0	0	0	0
## 4690 4690	0	0	0	0	0	0	0	0	0	0	0
## 4691 4691	0	0	0	0	0	0	0	0	0	0	0
## 4692 4692	0	0	0	0	0	0	0	0	0	0	0
## 4693 4693	0	0	0	0	0	0	0	0	0	0	0
## 4694 4694	0	0	0	0	0	0	0	0	0	0	0
## 4695 4695	0	0	0	0	0	0	0	0	0	0	0
## 4696 4696	1	0	0	0	0	0	0	0	0	0	0
## 4697 4697	0	1	1	0	0	0	0	0	0	0	0
## 4698 4698	0	0	0	0	0	0	0	2	0	0	0
## 4699 4699	0	0	0	0	0	0	1	0	0	0	0
## 4700 4700	2	0	0	0	0	0	0	0	0	0	0
## 4701 4701	0	0	0	0	0	0	0	0	0	1	0
## 4702 4702	0	0	0	0	0	0	0	0	0	0	0
## 4703 4703	0	0	0	0	0	0	0	1	0	0	0
## 4704 4704	0	0	0	0	0	0	0	0	0	0	0
## 4705 4705	0	0	0	0	0	0	1	0	0	0	0
## 4706 4706	0	0	0	0	0	0	0	0	0	0	0
## 4707 4707	0	0	0	0	0	0	0	0	0	0	0
## 4708 4708	0	0	0	0	0	0	0	0	0	0	0
## 4709 4709	0	0	0	0	0	1	0	0	0	0	0
## 4710 4710	0	2	0	0	0	0	0	0	0	0	0
## 4711 4711	0	0	0	0	0	0	0	0	0	0	0
## 4712 4712	0	0	0	0	0	0	0	0	0	0	0
## 4713 4713	0	1	0	0	0	0	1	0	0	0	0
## 4714 4714	1	0	0	0	0	0	0	0	0	0	0
## 4715 4715	0	0	0	0	0	0	0	0	0	0	0
## 4716 4716	0	0	0	0	1	0	0	0	0	0	0
## 4717 4717	0	0	0	0	0	0	0	0	1	0	0
## 4718 4718	0	0	0	0	0	0	0	2	0	2	0
## 4719 4719	0	0	0	0	0	0	0	0	0	0	0
## 4720 4720	0	0	0	0	0	0	0	0	0	0	0
## 4721 4721	0	0	0	0	0	0	0	0	0	1	0
## 4722 4722	0	0	0	0	0	0	0	0	0	0	0
## 4723 4723	0	0	0	0	0	0	1	0	0	0	0
## 4724 4724	0	0	1	0	0	0	0	0	0	0	0
## 4725 4725	0	0	0	0	1	0	0	0	1	0	0
## 4726 4726	0	0	0	0	0	0	0	0	0	1	0
## 4727 4727	0	0	0	0	0	0	0	0	0	0	0
## 4728 4728	0	0	0	0	1	0	0	0	0	0	0
## 4729 4729	0	0	0	0	0	0	0	0	0	0	0
## 4730 4730	0	0	0	0	0	0	0	0	0	0	0
## 4731 4731	0	0	0	0	2	0	0	0	0	0	0

## 4732 4732	0	0	0	1	0	0	0	0	0	0	0
## 4733 4733	0	0	0	0	0	0	0	0	0	1	0
## 4734 4734	1	0	0	1	0	0	0	0	0	0	0
## 4735 4735	0	0	0	0	1	0	0	0	0	0	0
## 4736 4736	0	0	0	0	0	0	1	0	0	0	0
## 4737 4737	0	0	0	0	0	0	1	0	0	0	0
## 4738 4738	0	0	0	0	0	0	0	0	0	0	0
## 4739 4739	0	1	1	0	0	0	0	0	0	0	0
## 4740 4740	0	0	0	0	0	0	1	0	0	0	0
## 4741 4741	0	0	0	0	0	0	0	1	0	0	0
## 4742 4742	0	0	0	0	1	0	0	0	0	0	0
## 4743 4743	0	0	0	0	0	0	1	0	0	0	0
## 4744 4744	0	0	0	1	0	0	0	0	0	0	0
## 4745 4745	1	0	0	0	0	0	0	0	0	0	0
## 4746 4746	0	0	0	0	0	0	0	0	0	0	0
## 4747 4747	0	0	0	0	0	0	0	0	0	0	0
## 4748 4748	0	0	0	0	0	0	0	0	0	0	0
## 4749 4749	0	0	0	0	0	0	1	0	0	0	0
## 4750 4750	0	0	0	0	0	0	0	0	0	0	1
## 4751 4751	0	0	0	0	1	0	2	1	0	0	0
## 4752 4752	0	0	0	0	0	0	1	0	0	0	0
## 4753 4753	0	0	0	0	0	0	0	0	0	1	0
## 4754 4754	0	0	0	0	0	0	0	0	0	0	0
## 4755 4755	0	0	0	0	0	0	0	0	1	0	0
## 4756 4756	0	0	0	0	0	0	0	0	0	0	0
## 4757 4757	0	0	0	0	0	0	0	0	0	0	0
## 4758 4758	0	0	0	0	0	0	0	0	0	0	0
## 4759 4759	0	0	0	0	0	0	0	0	0	0	0
## 4760 4760	0	0	0	0	0	0	0	0	0	0	0
## 4761 4761	0	0	0	0	0	0	0	0	0	0	0
## 4762 4762	1	0	0	0	0	0	0	0	0	0	0
## 4763 4763	1	0	0	0	0	0	0	0	0	0	0
## 4764 4764	1	0	0	0	0	0	0	0	0	0	0
## 4765 4765	0	0	0	0	0	0	0	0	0	0	0
## 4766 4766	0	0	1	0	0	0	0	0	0	0	0
## 4767 4767	0	0	0	0	0	0	0	0	0	0	0
## 4768 4768	0	0	0	0	0	0	1	0	0	0	0
## 4769 4769	0	0	0	0	0	0	0	0	2	0	0
## 4770 4770	0	0	0	0	0	0	0	0	0	0	0
## 4771 4771	0	0	0	0	0	1	0	0	0	0	0
## 4772 4772	0	0	0	0	0	0	0	0	0	0	0
## 4773 4773	0	0	0	0	0	0	0	0	0	0	0
## 4774 4774	0	1	0	0	0	0	0	0	0	0	0
## 4775 4775	0	0	0	0	0	0	0	0	0	0	0
## 4776 4776	0	0	0	0	0	1	0	0	0	0	0
## 4777 4777	0	0	0	0	0	0	1	0	0	0	0
## 4778 4778	0	0	0	0	0	0	1	0	0	0	0
## 4779 4779	0	0	0	0	0	0	0	0	0	1	0
## 4780 4780	0	0	0	0	0	0	0	0	0	0	0
## 4781 4781	0	0	0	0	0	0	0	0	0	0	0
## 4782 4782	0	0	0	0	0	0	0	0	0	1	0
## 4783 4783	1	0	0	0	0	0	0	0	0	0	0
## 4784 4784	0	0	0	0	0	0	1	0	0	0	0
## 4785 4785	0	0	0	0	0	0	0	0	0	0	0

## 4786 4786	0	0	0	1	0	0	0	0	0	0	0	0
## 4787 4787	0	0	0	0	0	0	0	1	0	0	0	0
## 4788 4788	0	0	0	0	0	0	0	0	0	0	0	0
## 4789 4789	0	0	0	0	0	0	0	0	1	0	0	0
## 4790 4790	0	0	0	0	0	0	0	0	0	0	0	0
## 4791 4791	0	0	0	0	0	0	0	0	0	1	0	0
## 4792 4792	0	0	0	0	0	0	0	0	0	0	0	0
## 4793 4793	0	0	0	0	0	0	0	0	0	0	0	0
## 4794 4794	0	1	0	0	0	0	0	0	0	0	0	0
## 4795 4795	0	0	0	0	0	0	2	0	0	0	0	0
## 4796 4796	0	0	0	0	0	1	0	0	0	0	0	0
## 4797 4797	0	0	0	0	0	0	0	0	0	0	0	1
## 4798 4798	0	0	0	0	0	0	0	0	0	0	0	0
## 4799 4799	0	0	0	1	0	0	0	0	0	0	0	0
## 4800 4800	0	0	0	0	0	0	0	0	0	0	0	0
## 4801 4801	0	0	0	0	0	1	0	0	0	0	0	0
## 4802 4802	0	0	0	0	0	0	0	0	0	0	0	0
## 4803 4803	0	0	0	1	0	0	0	0	0	0	0	0
## 4804 4804	0	0	0	1	0	0	0	0	0	0	0	0
## 4805 4805	0	0	0	0	0	0	0	0	1	0	0	0
## 4806 4806	0	0	0	0	0	2	0	0	0	0	0	0
## 4807 4807	0	0	0	0	0	0	0	0	0	0	0	0
## 4808 4808	0	0	0	0	0	0	0	0	0	0	0	1
## 4809 4809	0	0	0	0	0	0	0	0	0	0	1	1
## 4810 4810	0	0	0	0	0	0	0	0	0	0	0	0
## 4811 4811	0	0	0	0	1	0	0	0	0	0	0	0
## 4812 4812	0	0	0	0	0	0	0	0	0	0	0	0
## 4813 4813	0	0	0	1	0	0	0	0	0	0	0	0
## 4814 4814	0	0	0	1	0	0	0	0	0	0	0	0
## 4815 4815	0	0	0	0	0	0	0	1	0	0	0	0
## 4816 4816	0	0	0	0	0	0	0	0	0	0	0	0
## 4817 4817	0	0	0	0	0	0	0	0	0	0	0	0
## 4818 4818	0	0	0	0	0	0	0	0	0	0	0	0
## 4819 4819	0	0	0	0	0	0	0	0	0	0	0	0
## 4820 4820	0	0	0	0	0	0	0	0	0	0	0	0
## 4821 4821	1	0	0	0	0	0	0	0	0	0	0	0
## 4822 4822	0	0	0	1	0	0	0	0	0	0	0	0
## 4823 4823	0	0	0	1	0	0	0	0	0	0	0	0
## 4824 4824	0	0	0	0	0	0	0	0	1	0	0	0
## 4825 4825	0	1	0	0	0	0	0	0	0	0	0	0
## 4826 4826	0	0	0	0	0	0	0	0	0	0	0	0
## 4827 4827	0	0	0	0	0	0	0	0	0	0	0	1
## 4828 4828	0	0	1	0	0	0	0	0	0	0	0	0
## 4829 4829	0	0	0	1	0	0	0	0	0	0	0	0
## 4830 4830	0	1	0	0	0	0	0	0	0	0	0	0
## 4831 4831	0	0	0	0	0	0	0	0	0	0	0	0
## 4832 4832	0	0	0	0	0	0	1	0	0	0	0	0
## 4833 4833	0	0	0	0	0	1	0	0	0	0	0	0
## 4834 4834	0	0	1	0	0	0	0	0	0	0	0	0
## 4835 4835	0	0	0	0	0	0	1	0	0	0	0	0
## 4836 4836	0	0	0	0	0	1	0	0	0	0	0	0
## 4837 4837	0	0	1	0	0	0	0	0	0	0	0	0
## 4838 4838	0	0	0	1	0	0	0	0	0	0	0	0
## 4839 4839	0	2	0	0	0	0	0	0	0	0	0	0

## 4840	4840	0	0	0	0	0	0	0	0	1	0
## 4841	4841	0	0	0	0	0	0	0	0	1	0
## 4842	4842	0	0	0	0	0	1	0	0	0	0
## 4843	4843	0	0	0	0	0	0	0	1	0	0
## 4844	4844	0	0	0	0	0	0	0	0	0	0
## 4845	4845	0	0	0	0	0	0	0	0	0	0
## 4846	4846	0	0	0	0	0	1	0	0	0	0
## 4847	4847	0	0	0	0	0	0	1	0	0	0
## 4848	4848	0	0	0	0	0	0	0	0	0	1
## 4849	4849	0	0	0	0	0	0	0	0	0	0
## 4850	4850	0	0	0	0	0	0	0	1	0	0
## 4851	4851	0	0	0	0	0	0	0	0	0	1
## 4852	4852	0	0	1	0	0	0	0	0	0	0
## 4853	4853	0	0	0	0	0	0	0	0	0	0
## 4854	4854	0	0	0	0	0	0	0	0	0	0
## 4855	4855	0	0	0	0	0	0	0	1	0	0
## 4856	4856	0	0	0	0	0	0	0	0	0	0
## 4857	4857	0	0	0	0	0	0	0	0	0	0
## 4858	4858	0	0	0	1	0	0	0	0	0	0
## 4859	4859	0	0	0	0	0	0	0	0	0	0
## 4860	4860	0	0	0	0	0	0	0	0	0	0
## 4861	4861	0	0	0	0	0	0	0	0	0	0
## 4862	4862	0	1	0	0	0	0	0	0	0	0
## 4863	4863	0	0	0	0	0	0	1	0	0	0
## 4864	4864	0	0	0	0	1	0	0	0	0	0
## 4865	4865	0	0	0	0	0	0	0	0	0	0
## 4866	4866	0	0	0	0	1	0	0	0	0	0
## 4867	4867	0	0	0	0	0	0	1	0	0	0
## 4868	4868	0	0	0	0	0	0	0	0	0	0
## 4869	4869	0	0	0	0	1	0	0	0	0	0
## 4870	4870	0	0	0	0	0	0	1	0	0	0
## 4871	4871	0	0	0	0	0	0	0	0	0	0
## 4872	4872	0	0	0	0	0	0	0	0	0	0
## 4873	4873	0	0	0	0	0	0	0	0	0	0
## 4874	4874	0	0	0	0	0	0	0	0	0	0
## 4875	4875	0	0	0	0	0	1	0	0	0	0
## 4876	4876	0	0	0	0	0	1	0	0	0	0
## 4877	4877	0	0	0	0	0	0	0	0	0	0
## 4878	4878	0	0	0	0	0	0	0	0	0	0
## 4879	4879	0	0	0	0	0	0	1	0	0	0
## 4880	4880	0	0	0	0	0	0	0	0	0	0
## 4881	4881	0	0	1	0	0	0	0	0	0	0
## 4882	4882	0	0	0	0	0	0	0	0	0	1
## 4883	4883	0	0	0	0	1	0	0	0	0	0
## 4884	4884	0	0	0	0	0	0	1	0	0	0
## 4885	4885	0	0	0	0	0	0	0	0	0	0
## 4886	4886	0	0	1	0	0	0	0	0	0	0
## 4887	4887	0	0	0	0	0	0	0	0	0	0
## 4888	4888	0	0	0	0	0	0	0	0	0	0
## 4889	4889	0	0	0	0	0	0	0	0	0	1
## 4890	4890	0	0	0	0	0	0	0	0	0	0
## 4891	4891	2	2	1	0	1	0	0	0	0	0
## 4892	4892	0	0	0	0	2	0	0	0	0	0
## 4893	4893	0	0	1	0	0	0	0	0	0	0

## 4894 4894	0	1	0	0	0	0	0	0	0	0	0
## 4895 4895	0	0	0	0	0	0	0	0	0	0	0
## 4896 4896	0	0	0	0	1	0	0	0	0	0	0
## 4897 4897	0	0	0	0	0	0	0	0	0	0	0
## 4898 4898	0	0	0	0	1	0	0	0	0	0	0
## 4899 4899	1	0	0	0	0	0	0	0	0	0	0
## 4900 4900	0	0	0	0	0	0	1	0	0	0	0
## 4901 4901	0	0	0	0	0	0	0	0	0	0	0
## 4902 4902	0	0	0	0	0	0	0	0	0	1	0
## 4903 4903	0	0	0	1	0	1	0	0	0	0	0
## 4904 4904	0	0	1	0	0	0	0	0	0	0	0
## 4905 4905	0	0	0	1	0	0	0	0	0	0	0
## 4906 4906	0	0	0	0	0	0	0	1	0	0	0
## 4907 4907	0	0	0	0	0	0	0	0	0	0	0
## 4908 4908	0	0	0	0	0	0	0	0	0	0	1
## 4909 4909	0	0	0	0	0	0	0	0	0	0	0
## 4910 4910	0	0	0	0	0	0	2	0	0	0	0
## 4911 4911	0	0	0	0	0	0	0	0	0	1	0
## 4912 4912	0	0	0	1	0	0	0	0	0	0	0
## 4913 4913	0	0	0	0	0	0	0	0	0	0	0
## 4914 4914	0	0	0	1	0	0	0	0	0	0	0
## 4915 4915	0	0	0	0	0	0	1	1	0	0	0
## 4916 4916	0	0	0	0	0	0	0	0	0	0	0
## 4917 4917	0	0	0	2	0	0	0	0	0	0	0
## 4918 4918	0	0	0	0	0	0	0	0	0	0	1
## 4919 4919	0	0	0	0	0	1	0	0	0	0	0
## 4920 4920	0	0	0	0	0	0	0	0	1	0	0
## 4921 4921	0	1	0	0	0	0	0	0	0	0	0
## 4922 4922	0	0	0	0	0	0	0	0	0	0	0
## 4923 4923	0	0	0	1	1	0	0	0	0	0	0
## 4924 4924	0	0	0	0	0	0	0	0	0	0	0
## 4925 4925	0	0	0	0	0	0	0	0	0	0	0
## 4926 4926	0	0	0	0	0	0	0	1	0	0	0
## 4927 4927	0	1	0	0	0	0	0	0	0	0	0
## 4928 4928	1	0	0	0	0	0	0	0	0	0	0
## 4929 4929	0	0	0	0	0	0	0	0	0	0	0
## 4930 4930	2	0	0	0	0	0	0	0	0	0	0
## 4931 4931	0	0	0	0	0	0	0	0	0	0	0
## 4932 4932	0	0	0	0	0	0	0	0	0	0	0
## 4933 4933	0	0	0	0	0	0	0	0	0	0	0
## 4934 4934	0	0	0	0	0	0	0	0	0	0	0
## 4935 4935	0	1	0	0	0	0	0	0	0	0	0
## 4936 4936	0	0	0	0	0	0	0	0	0	0	0
## 4937 4937	0	0	0	0	0	0	0	2	0	0	0
## 4938 4938	0	0	0	0	0	0	0	0	0	0	1
## 4939 4939	0	0	0	0	0	0	0	1	0	0	0
## 4940 4940	0	0	0	0	0	0	0	1	0	0	0
## 4941 4941	0	0	0	0	0	0	1	0	0	0	0
## 4942 4942	0	0	0	0	0	0	0	0	0	0	0
## 4943 4943	0	0	1	0	0	0	0	0	0	0	0
## 4944 4944	0	0	0	0	0	0	0	0	1	0	0
## 4945 4945	0	0	0	0	0	0	0	1	0	0	0
## 4946 4946	0	0	0	0	1	0	0	0	0	0	0
## 4947 4947	0	0	0	0	0	0	0	0	0	0	0

## 4948	4948	0	0	0	1	0	0	0	1	0	0	0
## 4949	4949	0	1	0	0	0	0	0	0	0	0	0
## 4950	4950	0	0	0	0	0	0	1	0	0	0	0
## 4951	4951	0	0	0	0	0	0	0	0	0	0	0
## 4952	4952	0	0	0	0	0	0	0	1	0	0	0
## 4953	4953	0	0	0	0	0	0	0	0	1	0	0
## 4954	4954	0	0	1	0	0	0	0	0	0	0	0
## 4955	4955	0	0	0	0	0	0	0	0	0	0	0
## 4956	4956	0	0	0	0	0	1	0	0	0	0	0
## 4957	4957	0	0	1	0	0	0	0	0	0	0	0
## 4958	4958	0	0	0	0	0	0	0	0	0	0	0
## 4959	4959	0	0	0	0	0	0	0	0	0	0	0
## 4960	4960	0	0	0	0	0	1	0	0	0	0	0
## 4961	4961	0	0	0	0	0	0	0	0	0	0	0
## 4962	4962	0	0	0	0	0	0	0	0	0	0	0
## 4963	4963	0	0	0	0	0	0	0	0	0	0	0
## 4964	4964	0	0	0	0	0	0	0	1	0	0	0
## 4965	4965	0	0	0	0	0	0	0	0	0	0	0
## 4966	4966	0	0	0	0	0	0	0	0	0	0	0
## 4967	4967	0	0	0	0	0	0	1	1	0	0	0
## 4968	4968	0	0	0	0	1	0	0	0	0	0	0
## 4969	4969	0	0	0	0	0	0	1	0	0	0	0
## 4970	4970	0	0	0	0	0	0	0	1	0	0	0
## 4971	4971	0	1	0	0	0	0	1	0	0	0	0
## 4972	4972	0	0	0	0	0	0	0	0	0	0	1
## 4973	4973	0	0	0	0	0	0	0	0	0	0	0
## 4974	4974	0	0	0	0	0	0	1	0	0	0	0
## 4975	4975	0	0	0	0	0	0	0	0	0	0	1
## 4976	4976	0	0	0	0	0	0	0	0	0	0	0
## 4977	4977	0	0	0	0	0	0	0	0	0	0	0
## 4978	4978	0	0	2	0	0	0	0	0	0	0	0
## 4979	4979	0	0	0	0	0	0	0	0	0	0	0
## 4980	4980	0	0	0	0	0	0	0	0	0	0	1
## 4981	4981	0	0	0	0	0	0	0	0	0	1	0
## 4982	4982	0	0	0	0	0	0	0	0	0	0	0
## 4983	4983	0	0	0	1	0	0	0	0	0	0	0
## 4984	4984	0	0	0	0	0	0	1	0	0	0	0
## 4985	4985	0	0	0	0	0	0	0	0	0	0	0
## 4986	4986	0	0	0	0	0	0	0	0	0	0	0
## 4987	4987	0	0	0	0	0	0	0	0	0	0	0
## 4988	4988	0	0	0	0	0	0	0	0	0	0	0
## 4989	4989	0	0	0	0	0	0	0	0	0	0	0
## 4990	4990	0	0	0	0	0	0	0	0	0	0	0
## 4991	4991	0	0	0	0	0	0	0	0	0	0	0
## 4992	4992	0	0	0	0	0	0	0	0	0	0	0
## 4993	4993	0	0	0	0	0	0	0	0	0	1	0
## 4994	4994	0	0	1	0	0	0	0	0	0	0	0
## 4995	4995	0	0	0	0	0	0	0	0	0	0	0
## 4996	4996	0	0	0	0	0	0	1	0	0	0	0
## 4997	4997	0	1	0	0	0	0	0	0	0	0	0
## 4998	4998	0	0	0	0	0	0	0	0	0	0	0
## 4999	4999	2	0	4	0	1	1	0	0	0	0	0
## 5000	5000	0	0	0	0	0	0	0	1	0	0	0
## 5001	5001	0	0	0	0	0	0	0	0	0	0	0

## 5002 5002	0	0	0	0	0	0	0	1	0	0	0
## 5003 5003	0	0	0	0	0	0	0	0	0	0	0
## 5004 5004	0	0	0	0	0	0	0	0	0	0	0
## 5005 5005	0	0	0	0	0	0	1	0	0	0	0
## 5006 5006	0	0	0	1	0	0	1	0	0	0	0
## 5007 5007	0	0	0	0	0	1	0	0	0	0	0
## 5008 5008	0	0	0	0	0	0	0	0	0	0	0
## 5009 5009	0	0	0	0	0	0	0	0	0	0	0
## 5010 5010	0	0	0	0	0	0	0	0	0	0	0
## 5011 5011	0	1	0	0	0	0	0	0	0	0	0
## 5012 5012	0	1	0	0	0	0	0	0	0	0	0
## 5013 5013	0	0	0	0	0	0	0	0	0	0	0
## 5014 5014	0	0	0	0	0	0	0	0	1	0	0
## 5015 5015	0	0	0	0	0	0	0	0	0	0	0
## 5016 5016	0	0	0	1	0	0	0	0	0	0	0
## 5017 5017	0	0	0	0	0	0	0	0	0	0	0
## 5018 5018	0	0	0	1	0	0	0	0	0	0	0
## 5019 5019	0	0	0	0	0	0	0	0	0	0	0
## 5020 5020	0	0	0	0	0	0	0	0	0	0	1
## 5021 5021	0	0	0	0	0	0	0	0	0	0	0
## 5022 5022	0	0	0	0	0	0	0	0	0	0	0
## 5023 5023	0	0	0	0	0	0	0	0	0	0	0
## 5024 5024	1	0	0	0	0	0	0	0	0	0	0
## 5025 5025	0	0	0	0	0	0	0	1	0	0	0
## 5026 5026	0	0	0	1	0	0	0	0	0	0	0
## 5027 5027	0	0	0	0	1	0	0	0	0	0	0
## 5028 5028	0	1	0	0	0	0	0	0	0	0	0
## 5029 5029	0	0	0	0	0	0	0	0	0	0	0
## 5030 5030	1	0	0	0	0	0	0	0	0	0	0
## 5031 5031	0	0	0	0	0	0	0	0	0	0	0
## 5032 5032	0	0	0	1	0	0	0	0	0	0	0
## 5033 5033	0	0	0	0	1	0	0	0	0	0	0
## 5034 5034	0	0	0	0	1	0	0	0	0	0	0
## 5035 5035	1	0	0	0	0	0	0	0	0	0	0
## 5036 5036	0	0	0	0	0	0	0	0	0	0	0
## 5037 5037	1	0	0	0	0	0	0	0	0	0	0
## 5038 5038	0	0	0	0	0	0	0	0	0	1	0
## 5039 5039	0	0	0	1	0	0	0	0	0	0	0
## 5040 5040	0	0	0	0	0	0	0	0	0	0	1
## 5041 5041	0	0	0	0	0	0	0	0	0	0	0
## 5042 5042	0	0	0	0	0	0	0	0	0	0	0
## 5043 5043	0	0	0	0	0	0	0	0	0	0	0
## 5044 5044	0	0	0	0	0	0	0	0	0	0	0
## 5045 5045	0	0	0	0	0	0	0	0	0	0	2
## 5046 5046	0	0	0	0	0	0	0	0	0	0	0
## 5047 5047	0	0	0	0	1	0	1	0	0	0	0
## 5048 5048	0	0	0	0	0	0	0	0	0	0	0
## 5049 5049	0	0	0	0	0	0	0	0	1	0	0
## 5050 5050	0	0	0	1	0	0	0	0	0	0	0
## 5051 5051	0	0	0	0	1	0	0	0	0	0	0
## 5052 5052	1	0	0	0	0	0	0	0	0	0	0
## 5053 5053	0	0	0	0	0	0	0	0	0	0	1
## 5054 5054	1	0	0	0	0	0	0	0	0	0	0
## 5055 5055	0	0	0	0	0	0	0	0	0	0	0

```

## 5056 5056 0 0 0 0 0 0 0 0 0 0 0 0 0
## 5057 5057 0 0 0 0 0 0 0 0 0 0 0 0 1
## 5058 5058 0 0 0 0 0 0 0 0 0 0 0 0 0
## 5059 5059 0 0 0 0 0 0 0 0 0 0 0 0 0
## 5060 5060 0 0 0 0 0 0 0 0 1 0 0 0 0
## 5061 5061 0 0 0 0 0 0 0 0 0 0 0 0 0
## 5062 5062 0 0 0 0 0 0 0 0 0 0 0 0 0
## 5063 5063 0 1 0 1 0 0 0 0 0 0 0 0 0
## 5064 5064 0 0 0 0 0 0 0 0 0 0 0 0 0
## 5065 5065 0 0 0 0 0 0 0 0 0 1 0 0 0
## 5066 5066 0 0 0 0 0 0 0 0 0 0 0 0 0
## 5067 5067 0 0 1 0 0 0 0 0 0 0 0 0 0
## 5068 5068 0 0 0 0 0 0 0 0 0 0 0 1 0
## 5069 5069 0 0 1 0 0 0 0 0 0 0 0 0 0
## 5070 5070 0 0 0 0 0 0 0 0 0 0 0 0 0
## 5071 5071 0 0 0 0 0 0 1 0 0 0 0 0 0
## 5072 5072 0 0 0 1 0 0 0 0 0 0 0 0 0
## 5073 5073 0 0 0 0 1 0 0 0 0 0 0 0 0
## 5074 5074 0 0 0 0 0 0 1 0 0 0 0 0 0
## 5075 5075 0 0 0 0 0 0 0 1 0 0 0 0 0
## 5076 5076 0 0 0 0 0 0 0 0 1 0 0 0 0
## 5077 5077 0 0 0 0 0 0 0 0 0 0 0 0 0
## 5078 5078 0 0 0 0 0 0 0 0 0 0 0 1 0
## 5079 5079 0 0 0 0 0 0 0 1 0 0 0 0 0
## 5080 5080 0 0 0 1 0 0 0 0 0 0 0 0 0
## 5081 5081 1 0 0 1 0 0 0 0 0 0 0 0 0
## 5082 5082 0 0 0 0 0 0 0 0 0 0 0 0 1
## 5083 5083 0 0 0 0 0 0 0 0 0 0 0 1 0
## 5084 5084 0 0 0 0 0 0 1 0 0 0 0 0 0
## 5085 5085 0 0 0 0 1 0 0 0 0 0 0 0 0
## 5086 5086 0 0 0 0 0 0 0 0 0 0 0 0 0
## 5087 5087 0 2 0 0 0 0 0 0 0 0 0 0 0
## 5088 5088 0 0 0 0 0 0 0 0 0 0 0 0 0
## 5089 5089 0 0 0 1 0 0 0 0 0 0 0 0 0
## 5090 5090 0 0 0 1 0 0 0 0 0 0 0 0 0
## 5091 5091 0 0 0 0 0 1 0 0 0 0 0 0 0
## 5092 5092 0 0 0 0 0 0 0 0 0 0 0 0 0
## 5093 5093 0 0 0 0 0 0 0 0 0 0 0 0 0
## 5094 5094 0 0 0 0 0 0 0 0 0 0 0 0 0
## 5095 5095 0 0 0 0 0 1 0 0 0 0 0 0 0
## 5096 5096 0 1 0 0 0 0 0 0 0 0 0 0 0
## 5097 5097 0 0 0 0 0 0 0 0 0 0 0 0 0
## 5098 5098 0 0 0 0 0 0 0 0 0 0 0 0 0
## 5099 5099 0 1 0 0 0 0 0 0 0 0 0 0 0
## 5100 5100 0 0 0 0 0 0 1 0 0 0 0 0 0
## 5101 5101 0 0 0 0 0 0 0 0 0 0 0 0 0
## 5102 5102 0 0 0 0 0 0 0 0 0 0 0 0 1
## 5103 5103 0 0 1 0 0 0 0 0 0 0 0 0 0
## 5104 5104 0 0 0 0 0 0 0 0 0 0 0 0 0
## 5105 5105 0 0 0 0 0 0 0 0 0 0 0 0 0
## 5106 5106 0 0 0 0 0 0 0 0 0 0 0 0 0
## 5107 5107 0 0 0 0 0 0 0 0 0 0 0 0 0
## 5108 5108 0 0 0 0 0 0 0 0 0 0 0 1 0
## 5109 5109 0 0 0 0 1 0 0 0 0 0 0 0 0

```

## 5110	5110	0	0	0	0	0	0	0	0	1	0
## 5111	5111	0	0	0	0	0	0	0	0	0	0
## 5112	5112	0	0	0	0	0	0	0	0	0	0
## 5113	5113	0	1	0	0	0	0	0	0	0	0
## 5114	5114	0	0	0	0	0	0	1	0	0	0
## 5115	5115	0	1	0	0	0	0	0	0	0	0
## 5116	5116	0	0	0	0	0	0	0	1	0	0
## 5117	5117	0	0	0	0	0	0	0	0	0	2
## 5118	5118	0	0	0	0	0	0	0	0	0	1
## 5119	5119	0	0	0	0	0	0	0	0	0	0
## 5120	5120	0	0	0	0	0	0	0	0	0	0
## 5121	5121	0	0	1	0	0	0	0	0	0	0
## 5122	5122	0	0	0	0	0	0	0	0	0	0
## 5123	5123	0	0	0	0	0	0	0	0	0	0
## 5124	5124	0	0	0	0	0	0	0	0	0	1
## 5125	5125	0	0	0	0	0	0	0	0	0	0
## 5126	5126	0	0	0	0	0	0	0	0	0	0
## 5127	5127	0	0	0	0	0	0	0	0	0	0
## 5128	5128	0	0	0	0	2	0	0	0	0	0
## 5129	5129	0	0	0	0	0	0	0	0	0	0
## 5130	5130	0	0	0	0	0	0	0	0	0	1
## 5131	5131	0	0	0	0	0	0	0	0	1	0
## 5132	5132	0	0	0	0	0	0	0	0	0	0
## 5133	5133	0	0	0	0	0	0	0	0	0	0
## 5134	5134	0	0	0	0	0	0	1	0	0	0
## 5135	5135	0	0	0	0	0	0	0	0	0	0
## 5136	5136	0	0	0	0	0	0	0	0	0	0
## 5137	5137	0	0	0	0	0	0	0	0	0	0
## 5138	5138	1	0	0	0	0	0	0	0	0	0
## 5139	5139	0	0	0	0	0	0	0	0	0	0
## 5140	5140	0	0	0	0	0	0	0	0	0	0
## 5141	5141	1	0	0	2	0	0	0	0	0	0
## 5142	5142	0	0	0	0	0	0	0	0	0	0
## 5143	5143	0	0	0	0	0	0	0	0	0	0
## 5144	5144	0	0	0	0	0	0	0	0	0	0
## 5145	5145	1	0	0	1	0	0	0	0	0	0
## 5146	5146	0	0	0	1	0	0	0	0	0	0
## 5147	5147	0	0	0	1	0	0	0	0	0	0
## 5148	5148	0	0	0	0	0	0	1	0	0	0
## 5149	5149	0	0	0	0	0	0	0	0	0	0
## 5150	5150	0	0	0	0	0	0	0	0	0	0
## 5151	5151	0	0	0	0	0	0	0	0	0	0
## 5152	5152	0	0	0	0	0	0	0	0	0	0
## 5153	5153	0	0	0	0	0	0	0	0	0	0
## 5154	5154	0	0	0	0	0	0	0	0	0	0
## 5155	5155	0	0	0	0	1	0	0	0	0	0
## 5156	5156	0	0	0	0	0	0	1	0	0	0
## 5157	5157	0	0	0	0	0	0	0	0	0	1
## 5158	5158	0	0	0	1	0	0	0	1	0	0
## 5159	5159	0	0	0	0	0	0	0	0	0	1
## 5160	5160	0	0	0	0	0	0	0	0	0	1
## 5161	5161	0	0	0	0	0	0	0	0	0	0
## 5162	5162	0	0	0	0	0	0	0	0	0	1
## 5163	5163	0	0	0	0	0	0	0	0	0	0

## 5164 5164	0	0	0	0	0	0	0	0	0	1	0
## 5165 5165	0	0	0	0	0	0	1	0	0	0	0
## 5166 5166	0	1	0	0	0	0	0	0	0	0	0
## 5167 5167	0	0	0	0	0	0	0	0	0	0	0
## 5168 5168	0	0	0	1	0	0	0	0	0	0	0
## 5169 5169	0	0	1	0	0	0	0	0	0	0	0
## 5170 5170	0	0	0	0	0	0	1	0	0	0	0
## 5171 5171	0	0	0	0	0	0	0	0	0	0	0
## 5172 5172	0	0	0	0	0	0	0	0	0	0	0
## 5173 5173	0	0	0	0	0	0	0	0	0	0	0
## 5174 5174	0	0	0	0	1	0	0	0	0	0	0
## 5175 5175	0	0	0	0	0	0	0	0	0	0	0
## 5176 5176	0	0	0	0	0	0	0	0	0	0	0
## 5177 5177	0	0	0	0	0	0	0	0	1	0	0
## 5178 5178	0	0	0	0	0	0	1	1	0	0	0
## 5179 5179	0	0	0	0	0	0	1	0	0	0	0
## 5180 5180	0	0	0	1	0	0	0	0	0	0	0
## 5181 5181	0	0	0	0	0	0	0	0	1	0	0
## 5182 5182	0	0	0	0	0	0	0	0	0	1	0
## 5183 5183	0	0	0	0	0	0	0	0	0	0	0
## 5184 5184	0	0	0	0	0	0	0	0	0	0	0
## 5185 5185	0	0	0	0	0	0	1	0	0	0	0
## 5186 5186	0	0	0	0	0	0	1	0	0	0	0
## 5187 5187	0	0	0	0	0	0	0	0	0	0	1
## 5188 5188	0	0	0	1	0	0	0	0	0	0	0
## 5189 5189	0	0	0	0	0	0	1	0	0	0	0
## 5190 5190	0	0	0	0	0	0	0	1	0	0	0
## 5191 5191	0	0	0	0	0	0	0	0	0	1	0
## 5192 5192	0	0	0	0	0	0	1	0	1	0	0
## 5193 5193	0	0	1	0	0	0	0	0	0	0	0
## 5194 5194	0	0	0	0	0	0	0	0	0	0	0
## 5195 5195	0	0	0	0	0	0	0	0	0	0	0
## 5196 5196	1	0	0	0	0	0	0	0	0	0	0
## 5197 5197	0	0	0	0	0	0	0	0	0	0	0
## 5198 5198	0	0	0	0	0	0	0	0	0	0	0
## 5199 5199	0	0	0	0	0	0	0	0	1	0	0
## 5200 5200	0	0	0	0	0	0	0	0	2	0	0
## 5201 5201	1	0	0	0	0	0	0	0	0	0	0
## 5202 5202	0	0	1	0	0	0	0	0	0	0	0
## 5203 5203	0	0	0	0	0	0	0	0	0	0	0
## 5204 5204	0	0	0	0	0	0	0	0	0	0	0
## 5205 5205	0	0	0	1	0	0	0	0	0	0	0
## 5206 5206	0	0	0	0	0	0	1	0	0	0	0
## 5207 5207	0	0	0	0	0	0	1	0	0	0	0
## 5208 5208	0	0	0	1	0	0	0	0	0	0	0
## 5209 5209	0	0	0	0	0	0	0	1	0	0	0
## 5210 5210	0	0	0	0	0	0	0	0	0	0	0
## 5211 5211	0	0	0	0	0	0	0	0	0	0	0
## 5212 5212	0	0	0	0	0	0	0	0	0	0	0
## 5213 5213	0	0	0	0	0	0	0	0	0	1	0
## 5214 5214	0	0	0	0	0	0	0	0	0	0	0
## 5215 5215	0	0	0	0	0	0	0	0	0	0	0
## 5216 5216	0	0	0	0	0	0	0	0	0	0	0
## 5217 5217	0	0	0	0	0	0	0	0	0	0	0

## 5218	5218	0	0	0	0	0	0	0	0	0	0	0
## 5219	5219	0	1	0	0	0	0	0	0	0	0	0
## 5220	5220	0	0	0	0	0	0	1	0	0	0	0
## 5221	5221	0	0	0	0	0	0	0	0	0	0	0
## 5222	5222	0	0	0	0	0	0	1	0	0	0	0
## 5223	5223	0	0	0	0	0	0	0	0	0	0	0
## 5224	5224	0	0	0	0	0	0	1	0	0	0	0
## 5225	5225	0	0	0	0	0	0	0	0	0	0	0
## 5226	5226	0	0	0	0	0	0	0	0	0	0	1
## 5227	5227	0	0	0	0	0	0	0	0	0	0	1
## 5228	5228	0	0	0	0	1	0	1	0	0	0	0
## 5229	5229	0	0	0	0	0	0	0	0	0	0	1
## 5230	5230	0	0	0	0	0	0	0	0	0	0	0
## 5231	5231	0	0	0	0	1	0	0	0	0	0	0
## 5232	5232	0	0	0	0	0	0	0	0	0	0	0
## 5233	5233	0	0	0	1	0	0	0	0	0	0	0
## 5234	5234	0	1	0	0	0	0	0	0	0	0	0
## 5235	5235	0	0	0	0	0	0	0	1	0	0	0
## 5236	5236	0	0	0	0	0	0	0	1	0	0	0
## 5237	5237	0	0	0	0	0	0	0	0	0	0	0
## 5238	5238	0	0	0	0	0	0	0	0	0	0	0
## 5239	5239	0	0	0	0	0	0	0	0	0	0	0
## 5240	5240	0	0	0	0	0	0	0	0	0	0	0
## 5241	5241	0	0	0	0	0	0	0	0	1	0	0
## 5242	5242	0	0	0	0	0	0	1	0	0	0	0
## 5243	5243	0	0	0	0	1	0	0	0	0	0	0
## 5244	5244	0	0	0	0	1	0	0	0	0	0	0
## 5245	5245	0	0	0	0	0	0	0	0	0	0	1
## 5246	5246	1	1	0	0	0	0	0	0	0	0	0
## 5247	5247	0	0	0	0	0	0	0	0	0	0	0
## 5248	5248	0	0	0	0	0	0	1	1	0	0	0
## 5249	5249	0	0	0	0	0	0	0	0	0	0	1
## 5250	5250	0	0	0	0	0	0	0	0	1	0	0
## 5251	5251	0	0	0	0	0	0	0	0	0	1	1
## 5252	5252	0	0	0	0	0	0	0	0	0	0	0
## 5253	5253	0	0	0	0	0	0	0	0	0	0	0
## 5254	5254	1	0	0	0	0	0	0	0	0	0	0
## 5255	5255	0	0	0	1	0	0	0	0	0	0	0
## 5256	5256	0	0	0	0	0	0	0	0	0	1	0
## 5257	5257	0	0	1	0	0	0	0	0	0	0	0
## 5258	5258	0	0	1	0	0	0	0	0	0	0	0
## 5259	5259	0	0	0	0	0	0	0	0	0	0	0
## 5260	5260	0	0	0	0	0	0	0	0	3	0	0
## 5261	5261	0	0	0	0	0	0	0	0	0	0	1
## 5262	5262	0	0	0	0	0	0	0	0	0	0	0
## 5263	5263	0	0	0	0	0	0	0	0	1	0	0
## 5264	5264	0	0	0	1	0	0	0	0	0	0	0
## 5265	5265	0	0	0	0	1	0	0	0	0	0	1
## 5266	5266	0	0	0	0	1	0	0	0	0	0	0
## 5267	5267	0	0	0	0	0	0	0	0	0	0	0
## 5268	5268	0	0	0	0	0	0	0	0	0	0	1
## 5269	5269	0	0	0	0	1	0	0	0	0	0	0
## 5270	5270	0	0	0	1	0	0	0	0	0	0	0
## 5271	5271	0	0	0	0	0	0	0	0	0	0	0

## 5272	5272	1	0	0	0	0	0	0	0	0	0	0
## 5273	5273	0	0	0	0	0	1	0	0	0	0	0
## 5274	5274	0	0	0	0	1	0	0	0	0	0	0
## 5275	5275	0	1	0	0	0	0	0	0	0	0	0
## 5276	5276	0	0	1	0	0	0	0	0	0	0	0
## 5277	5277	0	0	0	1	0	0	0	0	0	0	0
## 5278	5278	0	0	0	0	0	0	0	0	0	0	0
## 5279	5279	0	0	0	1	0	0	0	0	0	0	0
## 5280	5280	0	0	0	1	0	0	0	0	0	0	0
## 5281	5281	0	0	0	0	0	0	0	0	0	0	0
## 5282	5282	0	0	0	0	0	1	0	0	0	0	0
## 5283	5283	0	0	0	0	0	0	1	0	0	0	0
## 5284	5284	0	0	1	0	0	0	0	0	0	0	0
## 5285	5285	0	0	0	0	0	0	0	0	0	0	0
## 5286	5286	0	0	1	0	0	0	0	0	0	0	0
## 5287	5287	0	0	0	0	0	0	0	0	0	0	0
## 5288	5288	0	0	1	0	0	0	0	0	0	0	0
## 5289	5289	0	0	0	0	0	0	0	0	0	0	0
## 5290	5290	0	0	0	0	0	0	0	0	0	0	0
## 5291	5291	0	0	0	0	0	0	0	0	0	0	1
## 5292	5292	0	0	0	0	0	0	0	0	1	0	0
## 5293	5293	0	0	0	2	0	0	0	0	0	0	0
## 5294	5294	0	0	0	0	0	0	0	0	0	0	0
## 5295	5295	0	0	0	0	0	0	1	0	0	0	0
## 5296	5296	0	0	0	0	0	1	0	0	0	0	0
## 5297	5297	0	0	0	0	1	0	0	0	0	0	0
## 5298	5298	0	0	0	1	0	0	0	0	0	0	0
## 5299	5299	0	0	1	0	0	0	0	0	0	0	0
## 5300	5300	0	0	0	0	0	0	0	0	0	0	0
## 5301	5301	2	0	0	0	0	0	0	0	0	0	0
## 5302	5302	0	0	0	0	0	0	0	0	0	0	0
## 5303	5303	0	0	0	0	1	0	0	0	0	0	0
## 5304	5304	0	0	0	0	0	0	0	0	0	0	0
## 5305	5305	0	0	1	0	0	0	0	0	0	0	0
## 5306	5306	0	0	0	0	0	0	0	0	0	0	0
## 5307	5307	0	0	0	0	0	0	0	0	0	0	0
## 5308	5308	0	0	0	0	0	0	0	0	0	0	0
## 5309	5309	0	0	0	0	0	0	0	0	0	0	0
## 5310	5310	0	0	0	0	0	0	0	0	0	0	0
## 5311	5311	0	0	0	0	0	0	0	2	0	0	0
## 5312	5312	0	0	0	0	0	0	0	0	0	0	0
## 5313	5313	0	0	0	0	0	0	0	0	0	1	0
## 5314	5314	0	0	0	0	0	0	0	0	0	0	0
## 5315	5315	0	0	0	1	0	0	0	0	0	0	0
## 5316	5316	0	0	0	0	0	0	0	0	0	0	0
## 5317	5317	0	0	0	1	0	0	0	0	0	0	0
## 5318	5318	0	0	0	0	0	0	0	0	0	1	0
## 5319	5319	0	0	0	0	0	0	0	0	0	1	0
## 5320	5320	1	0	0	0	0	0	0	0	0	0	0
## 5321	5321	0	0	0	1	0	0	0	0	0	0	0
## 5322	5322	0	0	0	0	1	0	0	0	0	0	0
## 5323	5323	0	0	0	0	0	0	0	0	0	0	0
## 5324	5324	0	0	0	0	0	0	0	0	0	0	0
## 5325	5325	0	0	0	0	0	0	0	0	0	0	0

```

## 5326 5326 0 0 0 0 0 0 0 0 0 0 0 0
## 5327 5327 0 0 0 0 0 0 0 0 0 0 0 0
## 5328 5328 0 0 0 0 0 0 0 1 0 0 0 0
## 5329 5329 0 0 0 0 0 0 0 0 0 0 0 0
## 5330 5330 0 0 0 0 0 0 1 0 0 0 0 0
## 5331 5331 0 0 0 0 0 0 0 1 0 0 0 0
## 5332 5332 0 0 1 0 0 0 0 0 0 0 0 0
## 5333 5333 0 0 0 0 0 0 0 0 0 0 0 0
## 5334 5334 0 0 0 0 0 0 0 0 0 0 0 0
## 5335 5335 0 0 0 0 0 0 0 0 0 0 0 0
## 5336 5336 0 0 0 0 0 0 0 0 0 0 0 0
## 5337 5337 0 0 0 0 0 0 0 0 0 0 0 1
## 5338 5338 0 0 0 0 0 0 0 0 0 0 0 0
## 5339 5339 0 0 0 0 0 0 0 0 0 0 0 0
## 5340 5340 0 0 0 0 0 0 0 0 1 0 0 0
## 5341 5341 0 0 1 0 0 0 0 0 0 0 0 0
## 5342 5342 1 0 0 0 0 0 0 0 0 0 0 0
## 5343 5343 0 0 0 0 0 0 0 0 0 0 0 0
## 5344 5344 0 0 0 0 0 0 1 0 0 0 0 0
## 5345 5345 0 0 0 0 0 0 0 0 0 0 0 1
## 5346 5346 0 0 0 0 0 0 0 1 0 0 0 0
## 5347 5347 0 0 0 0 0 0 0 0 0 1 0 0
## 5348 5348 0 0 0 0 0 1 0 0 0 0 0 0
## 5349 5349 0 0 0 0 0 0 0 0 0 0 0 1
## 5350 5350 0 1 0 0 0 0 0 0 0 0 0 0
## 5351 5351 0 0 0 0 0 0 0 0 0 0 0 0
## 5352 5352 0 0 0 0 0 0 0 0 0 0 0 0
## 5353 5353 1 0 0 0 0 0 0 0 0 0 0 0
## 5354 5354 0 0 0 0 0 0 0 0 0 0 0 0
## 5355 5355 0 0 0 0 0 0 0 0 0 0 0 0
## 5356 5356 0 0 0 0 0 0 0 0 0 0 0 0
## 5357 5357 0 0 0 0 0 0 0 0 0 0 0 0
## 5358 5358 0 0 0 0 0 0 0 0 0 0 0 0
## 5359 5359 0 0 0 0 0 0 0 0 0 0 0 1
## 5360 5360 0 0 0 0 0 0 0 0 0 0 0 0
## 5361 5361 0 0 0 0 0 0 0 1 0 0 0 0
## 5362 5362 0 0 0 0 0 0 0 0 0 0 0 0
## 5363 5363 0 0 0 0 0 0 0 0 0 0 0 0
## 5364 5364 0 0 0 0 0 0 0 0 0 0 0 0
## 5365 5365 0 1 0 0 0 0 0 0 0 0 0 0
## 5366 5366 0 0 0 0 0 0 0 0 0 0 0 0
## 5367 5367 1 0 0 1 0 0 0 0 0 0 0 0
## 5368 5368 0 0 0 0 0 0 0 0 0 0 0 0
## 5369 5369 0 0 0 0 0 0 0 0 0 0 0 0
## 5370 5370 0 0 0 0 0 0 0 0 0 0 0 0
## 5371 5371 0 0 0 0 0 0 0 0 0 0 0 0
## 5372 5372 0 0 0 0 0 0 0 0 0 0 0 0
## 5373 5373 0 0 0 0 1 0 0 0 0 0 0 0
## 5374 5374 0 1 0 0 0 0 0 0 0 0 0 0
## 5375 5375 0 0 0 1 0 1 0 0 0 0 0 0
## 5376 5376 0 0 0 0 0 0 0 0 0 0 0 0
## 5377 5377 0 0 0 0 0 0 1 0 0 0 0 0
## 5378 5378 0 0 0 0 0 0 0 0 0 0 0 0
## 5379 5379 0 0 0 0 0 0 0 0 0 0 0 0

```

## 5380 5380	0	0	0	0	0	0	0	0	0	1	0
## 5381 5381	0	0	1	0	0	0	0	0	0	0	0
## 5382 5382	0	0	1	0	0	0	0	0	0	0	0
## 5383 5383	0	0	0	0	0	0	0	1	0	0	0
## 5384 5384	0	0	0	0	0	0	0	0	0	0	0
## 5385 5385	0	0	0	1	0	0	0	0	0	0	0
## 5386 5386	0	0	0	0	0	0	0	0	0	0	1
## 5387 5387	0	0	0	0	0	0	1	0	0	0	0
## 5388 5388	0	0	0	0	0	0	0	0	0	0	0
## 5389 5389	0	0	0	0	0	0	0	0	0	0	0
## 5390 5390	0	1	0	0	0	0	0	0	0	0	0
## 5391 5391	0	0	0	0	0	0	0	0	0	0	0
## 5392 5392	0	0	0	0	0	0	0	1	0	0	0
## 5393 5393	0	0	0	0	0	0	0	0	0	0	0
## 5394 5394	0	0	0	0	0	0	0	0	0	0	0
## 5395 5395	0	0	0	0	0	0	0	0	0	0	0
## 5396 5396	1	0	0	0	0	0	0	0	0	0	0
## 5397 5397	1	0	0	0	0	0	0	0	0	0	0
## 5398 5398	0	0	0	0	0	0	1	0	0	0	0
## 5399 5399	0	0	0	0	0	0	0	0	0	0	0
## 5400 5400	0	0	0	0	0	0	0	0	0	0	0
## 5401 5401	0	0	0	0	0	0	0	1	0	0	0
## 5402 5402	0	0	0	0	0	0	0	0	0	0	0
## 5403 5403	0	0	0	0	1	0	0	0	0	0	0
## 5404 5404	0	0	0	0	0	0	0	1	0	0	0
## 5405 5405	0	0	0	0	0	0	1	0	0	0	0
## 5406 5406	0	0	0	0	0	0	0	1	0	0	0
## 5407 5407	1	0	0	0	0	0	0	0	0	0	0
## 5408 5408	0	0	0	0	0	0	0	0	0	0	0
## 5409 5409	0	0	0	0	0	0	0	1	0	0	0
## 5410 5410	0	0	0	0	0	0	0	0	0	0	0
## 5411 5411	0	0	0	0	0	1	0	0	0	0	0
## 5412 5412	1	0	0	0	0	0	0	0	0	0	0
## 5413 5413	0	0	0	0	1	0	0	0	0	0	0
## 5414 5414	0	0	0	0	0	0	0	0	0	0	0
## 5415 5415	0	0	0	0	0	0	0	0	0	0	0
## 5416 5416	0	0	0	1	0	0	0	0	0	0	0
## 5417 5417	0	0	0	0	0	0	0	0	0	0	0
## 5418 5418	0	0	1	0	0	0	0	0	0	0	0
## 5419 5419	0	0	0	0	0	0	0	0	1	0	0
## 5420 5420	0	0	0	1	0	0	0	0	0	0	0
## 5421 5421	0	0	0	1	0	0	1	0	0	0	0
## 5422 5422	0	0	0	0	0	0	0	0	0	0	1
## 5423 5423	0	0	0	0	0	0	0	0	0	0	1
## 5424 5424	0	1	0	0	0	0	0	0	0	0	0
## 5425 5425	0	0	0	0	0	0	0	0	0	0	0
## 5426 5426	0	0	0	1	0	0	0	0	0	0	0
## 5427 5427	0	0	0	0	0	0	0	0	0	0	0
## 5428 5428	0	0	0	0	0	0	0	0	0	1	0
## 5429 5429	0	0	0	0	0	0	0	0	1	0	0
## 5430 5430	0	1	0	0	0	0	0	0	0	0	0
## 5431 5431	0	0	1	0	0	0	0	0	0	0	0
## 5432 5432	0	0	0	0	0	0	0	0	0	0	0
## 5433 5433	1	0	0	0	0	0	0	0	0	0	0

## 5434 5434	1	0	0	0	0	0	0	0	0	0	0
## 5435 5435	0	0	0	0	0	0	0	0	0	1	0
## 5436 5436	0	0	0	0	0	0	0	0	0	0	1
## 5437 5437	0	0	0	0	0	0	0	0	0	0	0
## 5438 5438	0	0	0	0	0	0	0	0	1	0	0
## 5439 5439	0	0	0	0	0	0	0	0	0	0	0
## 5440 5440	0	0	0	0	0	0	0	0	0	0	0
## 5441 5441	0	0	0	0	0	0	0	0	0	0	0
## 5442 5442	0	0	0	0	0	0	0	0	0	1	0
## 5443 5443	0	0	0	0	0	0	0	0	0	0	0
## 5444 5444	0	1	0	0	0	0	0	0	0	0	0
## 5445 5445	0	0	0	0	0	0	0	0	0	0	0
## 5446 5446	0	0	0	0	0	0	0	0	0	0	0
## 5447 5447	0	0	0	0	0	0	0	0	0	0	0
## 5448 5448	1	0	0	0	0	0	0	0	0	0	0
## 5449 5449	0	0	0	0	0	0	0	0	0	0	0
## 5450 5450	0	0	0	0	0	0	0	1	0	0	0
## 5451 5451	0	0	0	1	0	0	0	0	0	0	0
## 5452 5452	0	0	0	0	0	0	0	0	0	0	0
## 5453 5453	0	0	0	0	0	0	0	0	0	0	0
## 5454 5454	0	0	0	1	0	0	0	0	0	0	0
## 5455 5455	0	0	0	0	0	0	0	0	0	0	0
## 5456 5456	0	0	1	0	0	0	0	0	0	0	0
## 5457 5457	0	0	0	0	0	0	0	0	0	0	0
## 5458 5458	0	0	0	0	0	0	0	1	0	0	0
## 5459 5459	1	0	0	0	0	0	0	0	0	0	0
## 5460 5460	0	0	0	0	0	0	0	0	0	0	0
## 5461 5461	1	0	0	0	0	0	0	0	0	0	0
## 5462 5462	0	0	0	1	0	0	0	0	0	0	0
## 5463 5463	0	0	0	0	0	0	0	0	0	0	0
## 5464 5464	0	0	0	0	0	0	0	0	0	0	0
## 5465 5465	0	0	0	0	0	0	0	0	0	0	0
## 5466 5466	0	0	0	0	0	0	0	0	0	0	0
## 5467 5467	0	0	0	0	1	0	0	0	0	0	0
## 5468 5468	0	0	0	0	0	0	0	0	0	0	0
## 5469 5469	0	0	0	0	0	0	0	1	0	0	0
## 5470 5470	0	0	0	0	0	0	0	0	0	0	0
## 5471 5471	0	0	0	0	0	0	0	0	0	0	0
## 5472 5472	0	0	1	0	0	0	0	0	0	0	0
## 5473 5473	0	0	0	1	0	0	0	0	0	0	0
## 5474 5474	0	0	0	0	0	0	0	0	0	0	1
## 5475 5475	0	0	0	0	0	0	0	0	0	0	0
## 5476 5476	0	0	0	0	0	1	0	0	0	0	0
## 5477 5477	0	0	0	0	0	0	0	0	0	1	0
## 5478 5478	0	0	0	0	0	0	0	0	0	0	0
## 5479 5479	0	0	0	1	0	0	0	0	0	0	0
## 5480 5480	0	0	0	1	0	0	0	0	0	0	0
## 5481 5481	0	0	0	0	0	0	0	0	0	0	0
## 5482 5482	0	0	0	0	0	0	0	0	0	0	1
## 5483 5483	0	0	0	0	0	0	0	0	0	0	0
## 5484 5484	0	0	0	0	0	0	0	0	0	1	0
## 5485 5485	0	0	0	0	0	0	0	0	0	0	0
## 5486 5486	0	1	0	0	0	0	0	0	0	0	0
## 5487 5487	0	0	0	0	0	0	1	0	0	0	0

## 5488 5488	0	0	0	0	0	0	0	0	0	0	0	0
## 5489 5489	0	0	0	0	0	0	1	0	0	0	0	0
## 5490 5490	0	0	0	0	0	0	0	1	0	0	0	0
## 5491 5491	0	0	0	0	0	0	0	0	0	0	0	0
## 5492 5492	0	0	0	0	0	0	0	0	0	0	0	0
## 5493 5493	0	0	0	0	0	1	0	0	0	0	0	0
## 5494 5494	0	0	0	0	0	0	0	0	0	0	0	1
## 5495 5495	0	1	0	0	0	0	0	0	0	0	0	0
## 5496 5496	0	0	0	0	0	0	0	0	0	0	0	0
## 5497 5497	0	0	0	1	0	0	0	0	0	0	0	0
## 5498 5498	0	0	1	0	0	0	0	0	0	0	0	0
## 5499 5499	0	0	0	0	0	0	1	0	0	0	0	0
## 5500 5500	0	0	0	0	0	0	0	0	0	0	0	0
## 5501 5501	0	0	0	0	0	0	0	0	1	0	0	0
## 5502 5502	0	0	1	0	0	0	0	0	0	0	0	0
## 5503 5503	0	1	0	0	0	0	0	0	0	0	0	0
## 5504 5504	0	0	0	0	0	1	0	0	0	0	0	0
## 5505 5505	0	0	0	0	0	0	0	0	0	0	0	0
## 5506 5506	0	0	0	0	0	1	0	0	0	0	0	0
## 5507 5507	0	0	0	0	0	0	0	0	0	0	1	0
## 5508 5508	0	0	0	1	0	0	0	0	0	0	0	0
## 5509 5509	1	0	0	0	1	0	0	0	0	0	0	0
## 5510 5510	0	0	0	0	0	1	0	0	0	0	0	0
## 5511 5511	0	0	0	1	0	0	0	0	0	0	0	0
## 5512 5512	0	0	0	0	0	0	0	0	0	0	0	0
## 5513 5513	0	0	0	0	1	0	0	1	0	0	0	1
## 5514 5514	0	0	0	0	0	0	1	0	0	0	0	0
## 5515 5515	0	0	0	0	0	0	0	0	0	0	0	0
## 5516 5516	0	0	0	0	0	0	0	0	1	0	0	0
## 5517 5517	1	0	0	0	0	0	0	0	0	0	0	0
## 5518 5518	0	0	0	0	0	0	0	0	0	0	0	0
## 5519 5519	0	0	0	0	0	0	0	0	0	0	0	0
## 5520 5520	0	0	0	0	0	0	1	0	0	0	0	0
## 5521 5521	0	1	0	0	0	0	0	0	0	0	0	0
## 5522 5522	0	0	0	0	0	0	0	0	0	0	0	1
## 5523 5523	0	0	0	0	0	0	0	0	1	0	0	0
## 5524 5524	0	0	0	0	0	0	0	0	0	1	0	0
## 5525 5525	0	0	0	0	0	0	0	0	0	0	0	0
## 5526 5526	0	0	0	0	0	0	0	0	0	1	0	0
## 5527 5527	0	0	0	0	0	0	0	0	0	0	0	0
## 5528 5528	0	0	0	0	0	0	0	0	0	0	0	0
## 5529 5529	0	0	1	0	0	0	0	0	0	0	0	0
## 5530 5530	0	1	0	0	0	0	0	0	0	0	0	0
## 5531 5531	0	1	0	0	0	0	0	0	0	0	0	0
## 5532 5532	0	0	0	0	0	0	0	0	0	0	1	0
## 5533 5533	1	0	0	0	0	0	1	0	0	0	0	0
## 5534 5534	0	0	0	0	0	0	0	0	0	0	0	0
## 5535 5535	0	0	0	0	0	0	0	0	0	0	0	1
## 5536 5536	0	0	0	0	0	0	0	0	0	0	0	0
## 5537 5537	0	0	0	0	0	0	0	0	0	0	1	0
## 5538 5538	0	0	0	0	1	0	0	0	0	0	0	0
## 5539 5539	0	0	0	0	0	0	0	0	0	0	0	0
## 5540 5540	0	0	0	0	0	0	0	0	0	0	0	0
## 5541 5541	0	0	0	0	0	0	0	0	0	0	0	0

## 5542 5542	0	0	0	0	0	0	0	0	0	0	0
## 5543 5543	0	0	0	0	1	0	0	0	0	0	0
## 5544 5544	0	0	0	1	0	0	0	0	0	0	0
## 5545 5545	0	0	0	0	0	0	0	0	0	0	1
## 5546 5546	0	0	0	0	0	0	0	1	0	0	0
## 5547 5547	0	0	0	0	0	0	1	0	0	0	0
## 5548 5548	0	0	1	0	0	0	0	0	0	0	0
## 5549 5549	1	0	0	0	0	0	0	0	0	0	0
## 5550 5550	0	0	0	1	0	0	0	0	0	0	0
## 5551 5551	0	0	0	0	0	0	0	0	0	0	1
## 5552 5552	0	0	0	0	0	0	0	0	0	1	0
## 5553 5553	0	0	0	0	0	0	1	0	0	0	0
## 5554 5554	0	0	0	0	0	0	0	0	0	0	0
## 5555 5555	0	1	0	0	0	0	0	0	0	0	0
## 5556 5556	0	0	0	1	0	0	0	0	0	0	0
## 5557 5557	0	0	0	0	1	0	0	0	0	0	0
## 5558 5558	0	0	0	0	0	0	1	0	0	0	0
## 5559 5559	0	0	1	0	0	0	0	0	0	0	0
## 5560 5560	1	0	0	0	0	0	0	0	0	0	0
## 5561 5561	0	1	0	0	0	0	0	0	0	0	0
## 5562 5562	0	0	0	0	0	0	0	2	0	0	0
## 5563 5563	0	0	0	0	0	0	0	0	0	0	1
## 5564 5564	0	0	0	1	0	0	0	0	0	0	0
## 5565 5565	0	0	0	1	0	0	0	0	0	0	0
## 5566 5566	0	0	0	0	1	0	0	0	0	0	0
## 5567 5567	0	1	0	0	0	0	0	0	0	0	0
## 5568 5568	0	0	0	0	0	0	0	0	0	0	0
## 5569 5569	0	0	0	0	0	2	0	0	0	0	0
## 5570 5570	0	0	0	0	0	0	0	0	0	0	0
## 5571 5571	0	0	0	0	0	0	0	1	0	0	0
## 5572 5572	0	0	0	0	0	0	0	0	0	0	0
## 5573 5573	0	0	0	0	0	0	0	1	0	0	0
## 5574 5574	0	0	0	0	0	0	0	0	0	0	0
## 5575 5575	0	0	0	0	0	0	0	0	0	0	1
## 5576 5576	0	0	0	0	0	0	0	0	1	0	0
## 5577 5577	0	0	0	0	0	0	0	0	0	0	0
## 5578 5578	0	0	0	0	0	0	0	0	0	0	0
## 5579 5579	0	0	0	0	0	0	1	0	0	0	0
## 5580 5580	0	0	0	0	0	0	1	0	0	0	0
## 5581 5581	0	0	0	0	0	0	0	0	0	1	0
## 5582 5582	0	0	0	0	0	0	0	0	0	0	0
## 5583 5583	0	0	0	0	0	0	0	0	0	0	1
## 5584 5584	0	0	0	0	0	0	0	0	0	0	0
## 5585 5585	0	0	0	0	0	0	0	0	0	0	0
## 5586 5586	0	0	0	0	0	0	0	0	0	0	0
## 5587 5587	0	0	0	0	0	0	0	0	0	0	0
## 5588 5588	0	0	0	0	0	1	0	0	0	0	0
## 5589 5589	0	0	0	1	0	0	0	0	0	0	0
## 5590 5590	0	0	0	0	0	0	0	0	0	1	0
## 5591 5591	0	0	0	0	0	0	0	0	0	0	0
## 5592 5592	0	0	0	1	0	0	0	0	0	0	0
## 5593 5593	0	0	0	0	0	1	0	0	0	0	0
## 5594 5594	0	0	0	0	1	0	0	0	0	0	0
## 5595 5595	0	0	0	1	0	0	0	0	0	0	0

```

## 5596 5596 0 0 0 0 0 0 0 0 0 0 0 0
## 5597 5597 0 0 0 0 0 0 0 0 0 0 0 0
## 5598 5598 0 1 0 0 0 0 0 0 0 0 0 0
## 5599 5599 0 1 0 0 0 0 0 0 0 0 0 0
## 5600 5600 0 0 0 0 0 0 0 0 0 0 0 0
## 5601 5601 0 0 0 0 1 0 0 0 0 0 0 0
## 5602 5602 0 0 0 0 0 0 0 0 0 0 0 0
## 5603 5603 0 0 0 1 0 0 0 0 0 0 0 0
## 5604 5604 0 0 0 0 0 1 0 0 0 0 0 0
## 5605 5605 0 0 0 0 0 0 0 0 0 0 0 0
## 5606 5606 1 0 0 0 0 0 0 0 0 0 0 0
## 5607 5607 0 0 0 0 0 0 1 0 0 0 0 0
## 5608 5608 0 0 0 1 0 0 0 0 0 0 0 0
## 5609 5609 0 0 1 1 0 0 0 0 0 0 0 0
## 5610 5610 0 0 0 0 1 0 0 0 0 0 0 0
## 5611 5611 0 0 0 0 0 0 0 0 0 0 0 0
## 5612 5612 0 0 0 0 0 0 0 0 0 1 0 0
## 5613 5613 0 0 0 0 0 0 0 0 0 0 0 0
## 5614 5614 0 0 0 0 0 0 0 0 0 0 0 0
## 5615 5615 0 0 0 0 0 0 0 0 0 0 0 0
## 5616 5616 1 0 0 0 0 0 0 0 0 0 0 0
## 5617 5617 0 0 0 0 1 0 1 0 0 0 0 0
## 5618 5618 0 0 0 0 0 0 0 0 0 0 0 0
## 5619 5619 0 0 0 0 0 0 0 0 0 0 0 0
## 5620 5620 0 0 0 1 0 0 0 0 0 0 0 0
## 5621 5621 0 0 0 0 0 0 0 0 0 0 0 0
## 5622 5622 0 0 0 1 0 0 0 0 0 0 0 0
## 5623 5623 0 0 1 1 0 0 0 0 0 0 0 0
## 5624 5624 0 0 0 0 0 0 0 0 0 0 0 0
## 5625 5625 0 0 0 0 1 0 0 0 0 0 0 0
## 5626 5626 0 0 0 0 0 0 0 0 0 0 0 0
## 5627 5627 0 0 0 0 1 0 0 0 0 0 0 0
## 5628 5628 0 0 0 0 0 0 0 0 0 0 0 0
## 5629 5629 0 0 1 0 0 0 0 0 0 0 0 0
## 5630 5630 0 0 0 0 0 0 0 0 0 0 0 0
## 5631 5631 0 0 0 1 0 0 0 0 0 0 0 0
## 5632 5632 0 1 0 0 0 0 0 0 0 0 0 0
## 5633 5633 0 0 0 0 0 0 0 0 0 0 0 0
## 5634 5634 0 0 0 0 0 0 0 0 0 0 0 0
## 5635 5635 0 0 0 0 0 0 0 0 0 0 0 0
## 5636 5636 0 0 0 1 0 0 0 0 0 0 0 0
## 5637 5637 0 0 0 0 0 0 1 0 0 0 0 0
## 5638 5638 0 0 0 0 0 0 0 0 0 0 0 0
## 5639 5639 0 0 0 0 0 0 0 0 0 0 0 1
## 5640 5640 0 0 0 1 0 0 0 0 0 0 0 0
## 5641 5641 0 0 1 0 0 0 0 0 0 0 0 0
## 5642 5642 0 0 0 1 0 0 0 0 0 0 0 0
## 5643 5643 0 0 0 0 0 0 0 0 0 0 0 0
## 5644 5644 0 0 0 0 1 0 0 0 0 0 0 0
## 5645 5645 0 0 0 0 0 0 1 0 0 0 0 0
## 5646 5646 0 0 0 0 0 0 0 0 0 0 0 1
## 5647 5647 0 0 0 0 0 0 0 0 0 0 0 0
## 5648 5648 0 0 0 0 0 0 0 0 0 0 0 0
## 5649 5649 0 0 0 0 0 0 0 0 0 0 0 0

```

## 5650 5650	0	0	0	0	0	0	0	0	0	0	0	0
## 5651 5651	0	0	0	0	0	0	0	0	0	0	0	0
## 5652 5652	0	0	0	0	0	0	0	1	0	0	0	0
## 5653 5653	0	0	0	0	0	1	0	0	0	0	0	0
## 5654 5654	0	0	0	0	0	0	0	0	0	0	0	0
## 5655 5655	0	0	0	0	0	0	0	0	0	0	0	0
## 5656 5656	0	0	0	0	0	0	1	0	0	0	0	0
## 5657 5657	1	0	0	0	0	1	0	0	0	0	0	0
## 5658 5658	0	0	0	0	0	0	0	0	0	0	0	0
## 5659 5659	0	0	0	0	0	0	1	0	0	0	0	0
## 5660 5660	0	0	0	0	0	0	0	0	0	0	0	0
## 5661 5661	0	0	0	0	0	0	0	0	0	0	0	0
## 5662 5662	0	0	0	0	0	0	0	0	0	0	0	0
## 5663 5663	1	0	0	0	0	0	0	0	0	0	0	0
## 5664 5664	1	0	0	0	0	0	0	0	0	0	0	0
## 5665 5665	0	0	0	0	0	0	0	0	0	0	0	0
## 5666 5666	0	0	0	0	0	0	0	0	0	0	0	0
## 5667 5667	0	1	0	0	0	0	0	0	0	0	0	0
## 5668 5668	0	0	0	0	0	0	0	0	0	0	0	1
## 5669 5669	0	0	0	0	0	0	0	0	0	0	0	0
## 5670 5670	0	0	0	0	0	0	0	1	0	0	0	0
## 5671 5671	0	0	0	0	0	0	0	0	0	0	0	0
## 5672 5672	0	0	0	0	0	0	0	0	0	0	0	0
## 5673 5673	0	0	0	0	0	0	1	0	0	0	0	0
## 5674 5674	0	0	0	0	0	0	0	0	0	0	0	0
## 5675 5675	0	0	0	0	0	0	0	0	0	0	0	0
## 5676 5676	0	0	1	0	0	0	0	0	0	0	0	0
## 5677 5677	0	1	0	0	0	0	0	0	0	0	0	0
## 5678 5678	0	0	0	0	0	0	0	0	0	0	0	0
## 5679 5679	0	0	0	0	0	0	0	0	0	0	0	0
## 5680 5680	0	0	0	0	0	2	0	0	0	0	0	0
## 5681 5681	0	0	0	0	0	0	0	0	0	0	0	0
## 5682 5682	0	0	0	0	0	0	0	0	0	0	0	0
## 5683 5683	0	0	0	0	0	0	0	0	1	0	0	0
## 5684 5684	0	0	0	0	0	0	0	0	0	0	0	0
## 5685 5685	0	0	0	0	0	0	0	0	0	0	0	0
## 5686 5686	0	0	0	0	0	0	1	0	0	0	0	0
## 5687 5687	0	0	0	0	0	0	0	0	0	0	0	0
## 5688 5688	0	0	0	0	0	0	0	0	0	0	0	0
## 5689 5689	0	0	0	1	0	0	0	0	0	0	0	0
## 5690 5690	0	0	0	0	0	0	0	0	0	0	0	0
## 5691 5691	0	0	0	0	0	0	0	0	0	0	1	0
## 5692 5692	0	0	1	0	0	0	0	0	0	0	0	0
## 5693 5693	0	0	1	0	0	0	0	0	0	0	0	0
## 5694 5694	0	0	0	0	0	0	0	1	0	0	0	0
## 5695 5695	0	0	1	0	0	0	0	0	0	0	0	0
## 5696 5696	0	0	0	0	0	0	0	0	0	0	1	0
## 5697 5697	1	0	0	0	0	0	0	0	0	0	0	0
## 5698 5698	0	0	0	0	0	0	0	0	0	0	0	0
## 5699 5699	0	0	0	0	0	0	0	0	0	0	0	0
## 5700 5700	0	0	0	0	0	0	0	0	0	0	0	0
## 5701 5701	0	0	0	0	1	0	0	0	0	0	0	0
## 5702 5702	0	0	0	0	0	0	0	0	0	0	1	0
## 5703 5703	0	0	0	0	0	0	1	0	0	0	0	0

## 5704 5704	0	0	0	0	0	0	0	0	0	0	0
## 5705 5705	0	0	0	0	0	0	0	0	0	0	0
## 5706 5706	0	0	0	0	0	0	0	0	0	0	0
## 5707 5707	0	0	1	0	0	0	0	0	0	0	0
## 5708 5708	0	0	0	0	0	0	0	0	0	0	0
## 5709 5709	0	0	0	0	0	0	1	0	0	0	0
## 5710 5710	0	0	0	0	0	0	0	0	0	0	0
## 5711 5711	0	0	0	0	0	0	0	0	0	0	0
## 5712 5712	0	0	0	0	0	0	1	0	0	0	0
## 5713 5713	0	0	0	0	0	0	0	0	0	0	0
## 5714 5714	0	0	0	0	0	0	0	0	0	0	0
## 5715 5715	0	0	0	0	0	0	2	0	0	0	0
## 5716 5716	0	0	0	0	0	0	1	0	0	0	0
## 5717 5717	0	0	0	0	1	0	0	0	0	0	0
## 5718 5718	0	0	0	0	1	0	0	0	0	0	0
## 5719 5719	0	0	0	0	0	0	0	0	0	0	0
## 5720 5720	0	0	0	0	0	1	0	0	0	0	0
## 5721 5721	0	0	0	0	0	0	0	0	0	0	0
## 5722 5722	0	0	0	0	0	0	1	0	0	0	0
## 5723 5723	0	1	0	0	0	0	0	0	0	0	0
## 5724 5724	0	0	0	0	0	0	1	0	0	0	0
## 5725 5725	0	0	0	0	0	0	0	1	0	0	0
## 5726 5726	0	0	0	0	0	0	0	0	0	0	0
## 5727 5727	0	0	0	0	0	0	0	0	0	0	0
## 5728 5728	0	1	0	0	0	0	0	0	0	0	0
## 5729 5729	0	0	0	0	0	0	1	0	0	0	0
## 5730 5730	0	0	0	0	1	0	0	0	0	1	0
## 5731 5731	0	0	0	0	0	0	0	0	0	0	0
## 5732 5732	0	0	0	0	0	0	0	0	0	0	0
## 5733 5733	0	0	0	0	0	0	1	0	0	1	0
## 5734 5734	0	0	0	0	0	0	0	0	0	0	0
## 5735 5735	0	0	1	0	0	0	1	0	0	0	0
## 5736 5736	0	0	0	0	0	0	0	0	0	0	0
## 5737 5737	0	0	0	0	0	0	0	1	0	0	0
## 5738 5738	0	0	0	0	0	0	0	0	0	0	0
## 5739 5739	0	0	0	0	0	0	0	0	0	0	0
## 5740 5740	0	0	0	0	0	0	0	0	0	0	0
## 5741 5741	0	0	0	0	1	0	0	0	0	0	0
## 5742 5742	1	0	0	0	0	0	0	0	0	0	0
## 5743 5743	0	0	0	0	0	0	1	0	0	0	0
## 5744 5744	0	0	0	0	0	0	0	0	0	0	0
## 5745 5745	0	0	0	1	0	0	0	0	0	0	0
## 5746 5746	0	0	0	0	0	0	0	0	0	0	0
## 5747 5747	0	0	0	0	1	0	0	0	0	0	0
## 5748 5748	0	0	0	0	0	1	0	0	0	0	0
## 5749 5749	0	0	0	0	0	0	0	0	0	0	0
## 5750 5750	0	0	0	0	0	0	0	0	0	0	1
## 5751 5751	0	0	0	0	0	0	1	0	0	0	0
## 5752 5752	0	0	0	0	0	0	0	0	0	0	1
## 5753 5753	0	0	0	0	0	0	0	0	0	0	0
## 5754 5754	0	0	0	0	1	0	1	0	0	0	0
## 5755 5755	0	0	0	0	0	0	1	0	0	0	0
## 5756 5756	0	0	0	0	0	0	0	0	0	0	1
## 5757 5757	0	0	1	0	0	0	0	0	0	0	0

## 5758	5758	0	0	0	1	0	0	0	0	0	0	0
## 5759	5759	0	0	0	0	1	0	0	0	0	0	0
## 5760	5760	1	0	0	0	0	0	0	0	0	0	0
## 5761	5761	0	0	1	0	0	0	0	0	0	0	0
## 5762	5762	0	0	0	0	0	0	0	0	0	1	0
## 5763	5763	0	1	0	0	0	0	0	0	0	0	0
## 5764	5764	0	0	0	0	0	0	0	0	0	0	0
## 5765	5765	0	0	0	0	0	0	0	0	0	0	0
## 5766	5766	0	0	0	0	0	0	0	0	0	0	0
## 5767	5767	0	0	0	0	0	0	0	0	0	0	0
## 5768	5768	0	0	0	0	0	0	0	0	0	0	0
## 5769	5769	0	0	0	1	0	0	0	0	0	0	0
## 5770	5770	0	0	0	0	0	0	0	0	0	0	0
## 5771	5771	0	0	0	0	0	0	0	0	0	0	0
## 5772	5772	0	0	0	0	0	0	2	0	0	0	0
## 5773	5773	0	0	0	0	0	0	0	0	0	0	0
## 5774	5774	0	0	0	0	0	0	0	0	0	0	0
## 5775	5775	0	0	0	0	0	0	1	0	0	0	0
## 5776	5776	0	0	0	0	0	0	0	1	0	0	0
## 5777	5777	0	1	0	0	0	0	0	0	0	0	0
## 5778	5778	0	1	0	0	0	0	0	0	0	0	0
## 5779	5779	0	0	0	0	0	0	0	0	0	0	0
## 5780	5780	0	0	0	1	0	0	0	0	0	0	0
## 5781	5781	0	0	0	0	0	0	1	2	0	0	0
## 5782	5782	0	0	0	0	0	0	0	0	0	0	0
## 5783	5783	0	0	0	0	0	0	0	0	0	0	0
## 5784	5784	0	0	0	0	0	0	0	1	0	0	0
## 5785	5785	0	0	1	0	0	0	0	0	0	0	0
## 5786	5786	0	0	0	0	0	0	0	0	0	0	0
## 5787	5787	0	0	0	0	0	0	0	0	0	0	0
## 5788	5788	1	0	0	0	0	0	1	0	0	0	0
## 5789	5789	0	0	0	0	0	0	0	0	0	0	0
## 5790	5790	0	0	0	0	0	0	1	0	0	0	0
## 5791	5791	0	0	0	1	0	0	0	0	0	0	0
## 5792	5792	0	0	0	0	0	0	0	0	0	0	0
## 5793	5793	0	0	0	0	0	0	0	0	0	0	1
## 5794	5794	0	0	0	1	0	0	0	0	0	0	0
## 5795	5795	0	0	0	0	0	1	0	0	0	0	0
## 5796	5796	0	0	0	1	0	0	0	0	0	0	0
## 5797	5797	0	0	0	0	0	0	1	0	0	0	0
## 5798	5798	0	0	0	0	0	1	0	0	0	0	0
## 5799	5799	0	0	0	0	0	0	1	0	0	0	0
## 5800	5800	0	0	0	0	0	0	0	0	0	1	0
## 5801	5801	0	0	0	1	0	0	0	0	0	0	0
## 5802	5802	0	0	0	0	0	1	0	0	0	0	0
## 5803	5803	0	0	0	0	0	0	0	0	0	0	0
## 5804	5804	0	0	0	0	0	0	0	1	0	0	0
## 5805	5805	0	0	0	1	0	0	0	0	0	0	0
## 5806	5806	0	0	0	0	0	0	0	0	0	0	0
## 5807	5807	0	0	0	0	0	0	1	0	0	0	0
## 5808	5808	0	0	0	0	0	0	0	0	0	0	0
## 5809	5809	1	2	0	0	0	0	0	0	0	0	0
## 5810	5810	0	0	1	0	0	0	0	0	0	0	0
## 5811	5811	0	0	0	0	0	0	0	0	1	0	0

```

## 5812 5812 0 0 0 0 0 0 0 0 0 0 0 0
## 5813 5813 0 0 0 0 0 0 0 0 0 0 0 0
## 5814 5814 0 0 0 0 0 0 0 1 0 0 0 0
## 5815 5815 0 0 0 0 0 0 0 0 0 0 0 0
## 5816 5816 0 0 0 0 0 0 0 0 0 0 0 0
## 5817 5817 0 0 0 0 0 0 0 0 0 0 0 0
## 5818 5818 0 0 0 1 0 0 0 0 1 0 0 0
## 5819 5819 1 0 0 0 0 0 0 0 0 0 0 0
## 5820 5820 0 0 0 0 0 0 0 0 0 0 0 0
## 5821 5821 0 0 0 0 0 0 0 1 0 0 0 0
## 5822 5822 0 0 0 0 0 0 0 1 0 0 0 0
## 5823 5823 0 0 0 2 0 1 0 0 0 0 0 0
## 5824 5824 0 0 0 0 0 0 0 0 0 0 0 0
## 5825 5825 0 0 0 0 0 0 0 0 1 0 0 0
## 5826 5826 0 0 0 0 0 0 0 0 0 0 0 0
## 5827 5827 0 1 0 0 0 0 0 0 0 0 0 0
## 5828 5828 0 0 0 1 0 0 0 0 0 0 0 0
## 5829 5829 0 0 0 0 0 0 0 1 0 0 0 0
## 5830 5830 0 1 0 0 0 0 0 0 0 0 0 0
## 5831 5831 0 0 0 0 0 0 0 0 0 0 0 0
## 5832 5832 0 0 0 0 0 0 0 0 0 0 0 0
## 5833 5833 0 0 0 0 0 0 0 0 0 0 0 0
## 5834 5834 0 0 0 0 0 0 0 0 1 0 1 0
## 5835 5835 0 0 0 0 0 0 0 0 0 0 0 0
## 5836 5836 0 0 0 2 0 0 0 0 0 0 0 0
## 5837 5837 0 0 0 0 0 0 0 0 0 0 0 0
## 5838 5838 0 0 0 0 0 0 0 0 1 0 0 0
## 5839 5839 0 0 0 0 0 0 0 0 0 0 0 0
## 5840 5840 0 0 0 0 0 1 0 0 0 0 0 0
## 5841 5841 0 0 0 0 1 0 0 0 0 0 0 0
## 5842 5842 0 0 0 0 0 0 1 0 0 0 0 0
## 5843 5843 0 0 0 0 0 1 0 0 0 0 0 0
## 5844 5844 0 0 0 0 0 0 0 0 0 0 0 0
## 5845 5845 0 0 0 0 1 0 0 0 0 0 0 0
## 5846 5846 0 0 0 0 0 0 0 0 0 0 0 0
## 5847 5847 0 0 0 0 0 1 0 0 0 0 0 0
## 5848 5848 0 0 0 0 0 0 0 0 0 0 0 0
## 5849 5849 1 0 0 0 0 0 0 0 0 0 0 0
## 5850 5850 0 0 0 0 0 0 0 1 0 0 0 0
## 5851 5851 0 0 0 0 0 0 0 0 0 0 0 0
## 5852 5852 0 0 0 0 0 0 0 0 0 0 0 0
## 5853 5853 0 0 0 0 0 0 0 0 0 0 0 0
## 5854 5854 0 0 0 0 0 0 0 0 0 0 0 0
## 5855 5855 0 0 0 0 0 0 0 0 0 0 0 0
## 5856 5856 0 0 0 0 0 0 0 0 0 0 0 0
## 5857 5857 0 0 0 0 0 0 0 0 1 0 0 0
## 5858 5858 0 0 0 0 0 0 0 0 1 0 0 0
## 5859 5859 0 0 0 0 0 0 1 1 0 0 0 0
## 5860 5860 0 0 0 0 0 0 0 0 0 0 1 0
## 5861 5861 0 0 0 0 0 0 1 0 0 0 0 0
## 5862 5862 0 0 0 0 0 0 0 0 0 0 0 0
## 5863 5863 0 0 0 1 0 0 0 0 0 0 0 0
## 5864 5864 0 0 0 0 0 0 0 0 0 0 0 0
## 5865 5865 0 0 0 0 0 0 0 0 0 0 0 0

```

```

## 5866 5866 0 0 0 0 0 0 0 0 0 0 0 1
## 5867 5867 0 0 0 1 0 0 0 0 0 0 0 0
## 5868 5868 0 0 0 0 0 0 0 0 0 0 1 0
## 5869 5869 0 0 0 0 0 0 0 0 0 0 0 0
## 5870 5870 0 0 0 0 0 0 0 0 0 0 0 0
## 5871 5871 0 0 0 0 1 0 0 0 0 0 0 1
## 5872 5872 0 0 0 0 0 0 0 0 0 0 0 0
## 5873 5873 0 0 0 0 0 0 0 0 0 0 0 0
## 5874 5874 0 0 0 0 0 0 0 0 0 1 0 0
## 5875 5875 0 0 0 0 0 0 0 0 0 0 1 0
## 5876 5876 0 0 0 0 0 0 0 0 0 0 0 0
## 5877 5877 0 0 0 0 0 0 0 0 0 0 0 1
## 5878 5878 0 0 0 0 0 0 0 1 0 0 0 0
## 5879 5879 0 0 0 0 0 0 0 0 0 0 0 0
## 5880 5880 0 1 0 0 0 0 0 0 0 0 0 0
## 5881 5881 0 0 0 0 1 0 0 0 0 0 0 0
## 5882 5882 0 0 0 0 0 0 0 0 1 0 0 0
## 5883 5883 0 0 0 0 0 0 0 0 0 0 0 0
## 5884 5884 0 0 0 0 0 0 0 0 0 0 0 1
## 5885 5885 0 0 0 0 0 0 0 0 0 0 0 0
## 5886 5886 0 0 0 0 0 0 0 1 0 0 0 0
## 5887 5887 0 0 0 0 0 0 0 0 0 0 0 0
## 5888 5888 0 0 0 0 0 0 0 0 0 0 0 0
## 5889 5889 0 1 0 0 0 0 0 0 0 0 0 0
## 5890 5890 1 0 0 0 0 0 0 0 0 0 0 0
## 5891 5891 0 0 0 0 1 0 0 0 0 0 0 0
## 5892 5892 0 0 0 0 0 0 0 0 0 0 0 0
## 5893 5893 0 0 0 0 0 0 1 0 0 0 0 0
## 5894 5894 0 1 0 0 0 0 0 0 0 0 0 0
## 5895 5895 0 1 0 0 0 0 0 0 0 0 0 0
## 5896 5896 0 0 0 0 0 0 0 0 0 0 0 0
## 5897 5897 0 0 2 0 0 0 0 0 0 0 0 0
## 5898 5898 0 0 0 0 1 0 0 0 0 0 0 0
## 5899 5899 0 1 0 0 0 0 0 0 0 0 0 0
## 5900 5900 0 0 0 0 0 0 0 0 0 0 0 0
## 5901 5901 0 0 0 0 0 0 0 0 0 0 1 0
## 5902 5902 0 1 0 0 0 0 0 0 0 0 0 0
## 5903 5903 0 0 0 0 3 0 0 0 0 0 0 0
## 5904 5904 0 0 0 0 0 0 0 0 0 0 0 0
## 5905 5905 0 0 0 0 1 0 0 0 0 0 0 0
## 5906 5906 0 0 0 1 0 0 0 0 0 0 0 0
## 5907 5907 0 0 0 0 0 0 0 0 0 0 0 0
## 5908 5908 1 0 0 0 0 0 0 0 0 0 0 0
## 5909 5909 0 0 0 0 0 0 1 0 0 0 0 0
## 5910 5910 0 0 0 0 1 0 0 0 0 0 0 0
## 5911 5911 0 0 0 0 0 0 0 0 0 0 0 0
## 5912 5912 1 0 0 0 0 0 0 0 0 0 0 0
## 5913 5913 0 0 1 0 0 0 0 0 0 0 0 0
## 5914 5914 0 0 1 0 0 0 0 0 0 0 0 0
## 5915 5915 0 0 0 0 0 0 0 0 0 0 0 0
## 5916 5916 0 1 0 0 1 0 0 0 0 0 0 0
## 5917 5917 0 0 0 0 0 0 0 0 0 0 0 0
## 5918 5918 0 0 0 0 1 0 0 0 0 0 0 0
## 5919 5919 0 0 0 0 0 0 0 0 0 0 0 0

```

## 5920	5920	0	0	0	1	0	0	1	0	0	1	0
## 5921	5921	0	0	0	0	0	0	1	0	0	0	0
## 5922	5922	0	0	0	0	0	0	1	0	0	0	0
## 5923	5923	0	0	0	0	0	0	1	1	0	0	0
## 5924	5924	0	0	0	0	0	0	1	0	0	0	0
## 5925	5925	0	0	0	0	0	0	0	0	0	1	0
## 5926	5926	0	0	0	0	0	0	2	0	0	0	0
## 5927	5927	0	0	0	0	0	0	0	0	0	1	0
## 5928	5928	0	1	0	0	0	0	0	0	0	0	0
## 5929	5929	0	0	0	0	0	0	1	0	0	0	0
## 5930	5930	0	0	0	1	0	0	0	0	0	0	0
## 5931	5931	1	0	0	0	0	0	0	0	0	0	0
## 5932	5932	0	0	0	0	0	0	0	0	0	0	0
## 5933	5933	0	0	0	0	1	0	0	0	0	0	0
## 5934	5934	0	0	0	0	0	0	0	0	0	1	0
## 5935	5935	0	0	0	0	0	0	0	0	0	0	0
## 5936	5936	0	0	1	0	0	0	0	0	0	0	0
## 5937	5937	0	0	0	0	0	0	0	0	0	0	0
## 5938	5938	0	0	1	0	0	0	0	0	0	0	0
## 5939	5939	0	1	0	0	0	0	0	0	0	0	0
## 5940	5940	0	0	0	0	0	1	0	0	0	0	0
## 5941	5941	0	0	0	0	0	0	0	0	1	0	0
## 5942	5942	0	0	1	0	0	0	0	0	0	0	0
## 5943	5943	0	0	1	0	0	0	0	0	0	0	0
## 5944	5944	0	0	0	0	0	0	0	0	0	0	0
## 5945	5945	0	0	0	0	0	0	0	0	0	0	0
## 5946	5946	0	1	0	0	0	1	0	0	0	0	0
## 5947	5947	1	0	0	0	0	0	0	0	0	0	0
## 5948	5948	0	0	0	1	0	0	0	0	0	0	0
## 5949	5949	0	0	0	0	0	0	0	0	0	0	0
## 5950	5950	0	0	0	1	0	0	0	0	0	0	0
## 5951	5951	0	0	2	0	0	0	0	0	0	0	0
## 5952	5952	0	0	0	0	0	0	1	0	0	0	0
## 5953	5953	0	0	0	0	1	0	0	0	0	0	0
## 5954	5954	0	0	0	1	0	0	0	0	0	0	0
## 5955	5955	0	0	0	0	0	1	0	0	0	0	0
## 5956	5956	0	0	0	0	1	0	0	0	0	0	0
## 5957	5957	0	0	1	0	0	1	0	0	0	0	0
## 5958	5958	0	0	1	1	0	0	0	0	0	0	0
## 5959	5959	0	0	0	0	1	0	0	0	0	0	0
## 5960	5960	0	0	1	0	0	0	0	0	0	0	0
## 5961	5961	0	1	0	0	0	0	0	0	0	0	0
## 5962	5962	0	0	0	0	0	0	0	0	0	0	0
## 5963	5963	0	0	0	0	0	0	0	0	0	0	0
## 5964	5964	0	0	0	0	0	0	0	0	0	0	0
## 5965	5965	0	0	0	0	0	0	0	0	0	0	0
## 5966	5966	0	0	0	0	0	0	0	0	0	0	0
## 5967	5967	0	0	0	0	0	0	0	0	0	0	0
## 5968	5968	0	0	0	1	0	0	0	0	0	0	0
## 5969	5969	1	0	0	0	0	0	1	0	0	0	0
## 5970	5970	1	0	0	0	0	0	0	0	0	0	0
## 5971	5971	0	0	0	1	0	0	0	0	0	0	0
## 5972	5972	0	0	0	0	0	0	0	0	0	0	0
## 5973	5973	0	0	2	0	0	0	0	0	0	0	0

## 5974 5974	1	0	0	0	0	0	0	0	0	0	0
## 5975 5975	0	0	0	0	1	0	0	1	0	0	0
## 5976 5976	0	0	0	0	0	0	0	0	0	0	0
## 5977 5977	0	0	0	0	0	1	0	0	0	0	0
## 5978 5978	0	0	0	0	0	0	1	0	0	0	0
## 5979 5979	1	0	0	0	0	0	0	0	0	0	0
## 5980 5980	0	0	0	0	0	0	0	0	0	0	0
## 5981 5981	0	0	0	0	0	0	0	0	0	0	0
## 5982 5982	0	0	0	0	0	3	0	0	0	0	0
## 5983 5983	0	0	0	0	0	0	0	0	0	0	0
## 5984 5984	0	0	0	0	0	0	0	0	0	0	0
## 5985 5985	0	0	0	0	0	0	1	0	0	0	0
## 5986 5986	0	0	0	0	0	0	0	0	0	0	0
## 5987 5987	0	0	0	1	0	0	0	0	0	0	0
## 5988 5988	0	0	0	0	0	0	0	0	0	0	0
## 5989 5989	0	0	0	0	0	0	0	1	0	0	0
## 5990 5990	0	0	0	0	0	0	0	0	0	0	0
## 5991 5991	0	0	0	0	0	0	0	0	0	0	0
## 5992 5992	0	0	0	0	0	0	0	0	0	0	0
## 5993 5993	0	0	0	0	0	0	0	0	0	0	0
## 5994 5994	0	0	0	1	0	0	0	0	0	0	0
## 5995 5995	0	0	0	0	0	0	0	0	0	0	0
## 5996 5996	0	0	0	0	0	0	0	1	0	0	0
## 5997 5997	0	0	0	1	0	0	0	0	0	0	0
## 5998 5998	0	0	0	0	0	1	0	0	0	0	0
## 5999 5999	0	0	0	0	0	0	0	0	0	0	0
## 6000 6000	0	0	0	0	0	0	0	0	0	0	0
## 6001 6001	0	0	1	0	0	0	0	0	0	0	0
## 6002 6002	0	0	0	0	0	0	0	0	0	0	0
## 6003 6003	0	0	0	1	0	0	0	0	0	0	0
## 6004 6004	0	0	0	1	0	0	0	0	0	0	0
## 6005 6005	0	0	0	0	0	0	0	0	0	0	0
## 6006 6006	0	0	0	0	0	0	0	0	0	0	0
## 6007 6007	0	0	0	0	0	0	0	0	0	0	0
## 6008 6008	0	0	0	0	0	0	0	0	0	0	0
## 6009 6009	0	0	0	0	0	0	0	0	0	0	0
## 6010 6010	0	0	0	0	0	0	0	0	0	0	0
## 6011 6011	0	0	0	0	0	0	1	1	0	0	0
## 6012 6012	0	0	0	0	0	0	0	0	0	0	0
## 6013 6013	0	1	0	0	0	0	0	0	0	0	0
## 6014 6014	0	0	0	1	0	0	0	0	0	0	0
## 6015 6015	0	0	0	0	0	0	0	0	0	1	0
## 6016 6016	0	0	0	0	0	0	0	0	0	0	0
## 6017 6017	0	0	0	0	0	0	0	0	0	0	0
## 6018 6018	0	0	0	0	0	0	0	0	0	0	0
## 6019 6019	0	0	0	0	0	0	0	0	0	0	0
## 6020 6020	0	0	0	0	0	0	0	1	0	0	0
## 6021 6021	0	0	0	0	0	0	0	1	0	0	0
## 6022 6022	0	0	1	0	0	0	0	0	0	0	0
## 6023 6023	0	0	0	0	0	0	0	0	0	1	0
## 6024 6024	1	0	0	0	0	0	0	0	0	0	0
## 6025 6025	0	0	0	0	0	0	0	0	0	0	0
## 6026 6026	0	0	1	0	0	0	0	0	0	0	0
## 6027 6027	0	0	0	0	0	0	0	0	1	0	0

## 6028	6028	0	0	0	0	0	0	0	0	1	0
## 6029	6029	0	1	0	0	0	0	0	0	0	0
## 6030	6030	0	0	0	0	0	1	0	0	0	0
## 6031	6031	0	0	0	0	0	0	0	0	0	0
## 6032	6032	0	0	0	0	0	0	0	0	0	0
## 6033	6033	0	0	0	0	0	0	0	0	0	0
## 6034	6034	0	0	0	0	0	0	0	0	0	0
## 6035	6035	0	0	0	0	0	0	0	0	1	0
## 6036	6036	0	0	0	0	0	0	0	0	0	0
## 6037	6037	0	0	0	0	1	0	0	0	0	0
## 6038	6038	0	0	0	0	0	0	1	0	0	0
## 6039	6039	0	0	0	0	0	0	0	0	0	0
## 6040	6040	0	0	0	0	0	0	0	0	0	0
## 6041	6041	0	0	0	0	0	0	0	0	0	0
## 6042	6042	0	0	0	0	0	0	0	0	0	0
## 6043	6043	0	0	0	0	1	0	0	0	0	0
## 6044	6044	0	0	0	1	0	0	0	0	1	0
## 6045	6045	0	0	0	0	0	0	0	0	0	0
## 6046	6046	0	0	0	0	0	0	0	0	0	0
## 6047	6047	0	0	0	0	0	0	0	0	0	1
## 6048	6048	0	0	0	0	0	0	0	0	1	0
## 6049	6049	0	0	0	0	1	0	0	1	0	0
## 6050	6050	0	0	0	0	0	0	0	1	0	0
## 6051	6051	0	0	0	0	0	0	0	0	0	0
## 6052	6052	0	0	0	0	0	0	0	0	0	1
## 6053	6053	0	0	0	0	0	0	0	0	0	1
## 6054	6054	0	0	0	0	0	0	0	0	0	1
## 6055	6055	0	0	0	0	0	0	0	0	0	1
## 6056	6056	0	0	0	0	0	0	0	0	0	0
## 6057	6057	0	0	1	0	0	0	0	0	0	0
## 6058	6058	1	0	0	1	0	0	0	1	0	0
## 6059	6059	0	0	0	1	0	0	0	0	0	0
## 6060	6060	0	0	0	0	0	0	0	0	0	1
## 6061	6061	0	0	0	0	0	0	0	0	0	0
## 6062	6062	0	0	0	0	0	0	0	0	0	0
## 6063	6063	0	0	0	0	0	0	0	0	0	0
## 6064	6064	0	0	0	0	0	0	0	0	0	1
## 6065	6065	0	0	0	0	0	0	0	0	0	0
## 6066	6066	0	0	0	0	0	0	0	0	0	0
## 6067	6067	0	0	0	0	0	0	0	0	0	0
## 6068	6068	0	0	0	0	0	0	0	0	0	0
## 6069	6069	0	0	0	0	0	0	1	0	0	0
## 6070	6070	0	0	0	0	0	0	0	1	0	0
## 6071	6071	0	0	0	0	0	0	0	0	1	0
## 6072	6072	0	0	0	0	0	0	1	0	0	0
## 6073	6073	0	0	0	0	0	0	0	0	1	0
## 6074	6074	0	0	0	0	0	0	1	0	0	0
## 6075	6075	0	0	0	0	0	0	0	0	0	0
## 6076	6076	0	1	0	0	0	0	0	0	0	0
## 6077	6077	0	0	0	1	0	1	0	0	0	0
## 6078	6078	0	0	0	0	0	0	1	0	0	0
## 6079	6079	0	0	0	0	0	0	1	0	0	0
## 6080	6080	0	0	0	0	0	0	0	0	0	0
## 6081	6081	0	1	0	0	0	0	0	0	0	0

## 6082	6082	1	0	0	0	0	0	0	0	0	0	0
## 6083	6083	0	0	0	0	0	0	1	0	0	0	0
## 6084	6084	0	0	0	0	0	0	0	0	1	0	0
## 6085	6085	0	0	0	0	1	0	0	0	0	0	0
## 6086	6086	0	0	0	1	0	0	0	0	0	0	0
## 6087	6087	0	0	0	0	0	0	0	0	0	0	0
## 6088	6088	0	0	0	0	0	0	0	0	0	0	0
## 6089	6089	0	0	0	0	0	0	0	0	0	0	0
## 6090	6090	0	0	0	0	0	0	0	0	0	0	0
## 6091	6091	0	0	0	0	0	0	1	0	0	0	0
## 6092	6092	0	0	0	0	0	0	1	0	0	0	0
## 6093	6093	0	0	0	0	0	0	0	0	0	0	0
## 6094	6094	0	0	0	0	0	0	0	0	0	0	0
## 6095	6095	0	0	0	0	0	0	0	0	0	0	0
## 6096	6096	0	0	0	0	0	0	0	0	1	0	0
## 6097	6097	0	0	0	0	0	0	0	0	0	0	0
## 6098	6098	0	0	0	0	0	1	0	0	0	0	0
## 6099	6099	0	0	0	0	1	0	0	0	0	0	0
## 6100	6100	0	0	0	0	0	0	0	0	0	0	0
## 6101	6101	0	0	0	0	0	0	0	1	1	0	0
## 6102	6102	0	0	0	0	0	0	0	0	0	0	0
## 6103	6103	0	0	0	0	1	0	0	0	0	0	0
## 6104	6104	0	0	0	0	0	0	0	0	0	0	0
## 6105	6105	1	0	0	0	0	0	0	0	0	0	0
## 6106	6106	0	0	0	0	0	0	0	0	0	0	1
## 6107	6107	0	0	0	0	1	0	0	0	0	0	0
## 6108	6108	0	0	0	0	0	0	0	0	0	0	0
## 6109	6109	0	0	0	0	0	0	0	0	0	0	0
## 6110	6110	0	0	0	0	0	0	0	0	0	0	0
## 6111	6111	0	0	0	0	0	0	0	1	0	0	0
## 6112	6112	0	0	0	0	0	0	0	0	0	0	0
## 6113	6113	0	0	0	0	0	0	0	0	0	0	0
## 6114	6114	0	0	0	0	0	0	0	0	0	0	0
## 6115	6115	0	0	0	0	0	0	0	1	0	0	0
## 6116	6116	0	0	0	0	0	0	0	0	0	0	0
## 6117	6117	0	0	0	1	0	0	0	0	0	0	0
## 6118	6118	0	0	0	0	0	0	0	0	0	0	1
## 6119	6119	0	0	0	0	0	0	0	0	0	0	0
## 6120	6120	0	0	0	0	0	0	1	0	0	0	0
## 6121	6121	1	0	0	0	0	0	0	0	0	0	0
## 6122	6122	0	1	1	0	0	0	0	0	0	0	0
## 6123	6123	0	0	1	0	0	0	0	0	0	0	0
## 6124	6124	0	0	0	0	0	0	0	0	0	1	0
## 6125	6125	0	0	1	0	0	0	0	0	0	0	0
## 6126	6126	0	0	0	1	0	0	0	0	0	0	0
## 6127	6127	0	0	0	0	0	0	0	0	0	0	0
## 6128	6128	0	0	0	0	0	0	0	0	0	0	0
## 6129	6129	0	0	0	0	0	0	0	0	0	0	0
## 6130	6130	0	0	0	0	0	0	1	0	0	0	0
## 6131	6131	0	0	0	0	0	0	0	0	0	0	0
## 6132	6132	0	0	0	0	0	0	0	1	0	0	0
## 6133	6133	0	0	0	0	0	0	0	0	0	0	0
## 6134	6134	0	0	0	0	0	0	0	0	0	0	0
## 6135	6135	0	0	0	0	0	0	0	0	0	0	0

## 6136	6136	0	0	0	0	0	0	0	0	0	0	0
## 6137	6137	0	0	0	0	0	0	0	0	0	0	0
## 6138	6138	0	0	0	0	0	0	0	1	0	0	0
## 6139	6139	0	0	0	0	0	0	0	2	0	0	0
## 6140	6140	0	0	0	0	0	0	1	0	0	0	0
## 6141	6141	0	0	1	0	0	0	0	0	0	0	0
## 6142	6142	0	1	0	0	0	0	0	0	0	0	0
## 6143	6143	0	0	0	0	1	0	0	0	0	0	0
## 6144	6144	0	0	0	0	0	0	0	0	0	0	0
## 6145	6145	0	0	1	0	0	0	0	0	0	0	0
## 6146	6146	0	0	0	1	0	0	0	0	0	0	0
## 6147	6147	0	1	0	0	0	0	0	0	0	0	0
## 6148	6148	0	0	0	0	1	0	0	0	0	0	0
## 6149	6149	0	0	0	0	0	0	1	0	0	0	0
## 6150	6150	0	0	0	0	0	0	0	1	0	0	0
## 6151	6151	0	0	0	0	1	0	0	0	0	0	0
## 6152	6152	0	0	0	0	1	0	0	0	0	0	0
## 6153	6153	0	0	0	0	0	0	0	0	0	0	0
## 6154	6154	0	0	0	0	1	0	0	0	0	0	0
## 6155	6155	0	0	0	0	0	0	0	0	0	0	0
## 6156	6156	0	0	0	0	0	0	0	1	0	0	0
## 6157	6157	0	0	0	0	0	0	0	0	0	0	0
## 6158	6158	0	0	0	0	0	0	0	0	0	0	0
## 6159	6159	0	0	0	0	0	0	0	0	0	0	0
## 6160	6160	0	0	0	0	0	0	0	0	0	0	2
## 6161	6161	0	0	0	0	0	0	0	1	0	0	0
## 6162	6162	0	0	0	0	0	0	0	0	0	0	0
## 6163	6163	0	0	0	0	0	0	1	0	0	0	0
## 6164	6164	0	0	0	0	0	0	0	1	0	0	0
## 6165	6165	0	0	0	0	0	1	0	1	0	0	0
## 6166	6166	0	1	1	0	0	0	0	0	0	0	0
## 6167	6167	0	0	0	0	0	0	0	0	0	0	0
## 6168	6168	0	0	0	0	1	0	0	0	0	0	0
## 6169	6169	1	0	0	0	0	0	0	0	0	0	0
## 6170	6170	0	1	0	0	0	0	0	0	0	0	0
## 6171	6171	0	0	1	0	0	0	0	0	0	0	0
## 6172	6172	0	1	0	0	0	0	0	0	0	0	0
## 6173	6173	0	1	0	0	0	0	0	0	0	0	0
## 6174	6174	0	1	0	0	0	0	0	0	0	0	0
## 6175	6175	0	0	1	0	0	0	0	0	0	0	0
## 6176	6176	0	0	1	0	0	0	0	0	0	0	0
## 6177	6177	0	0	0	0	0	0	0	0	0	0	0
## 6178	6178	0	0	0	0	0	0	0	0	0	0	0
## 6179	6179	0	0	0	0	0	0	0	0	0	0	0
## 6180	6180	0	0	0	0	0	0	0	0	0	2	0
## 6181	6181	0	0	0	0	0	0	1	0	0	0	0
## 6182	6182	0	0	0	1	0	0	0	0	0	0	0
## 6183	6183	2	1	0	0	0	1	0	1	0	0	0
## 6184	6184	0	0	1	0	0	0	0	0	0	0	0
## 6185	6185	0	0	0	0	0	0	0	0	0	0	1
## 6186	6186	0	0	0	0	0	0	0	2	0	0	0
## 6187	6187	0	0	0	0	0	0	1	0	0	0	0
## 6188	6188	0	0	0	0	0	0	0	0	1	0	0
## 6189	6189	0	0	0	0	0	0	0	0	0	0	0

## 6190 6190	0	1	0	0	0	0	0	0	0	0	0
## 6191 6191	0	0	0	0	0	0	0	0	0	0	0
## 6192 6192	0	1	0	0	0	0	0	0	0	0	0
## 6193 6193	0	0	0	0	0	0	0	0	0	0	0
## 6194 6194	0	1	0	0	0	0	0	0	0	0	0
## 6195 6195	0	1	1	0	0	0	0	0	0	0	0
## 6196 6196	0	0	0	1	0	0	1	0	0	0	0
## 6197 6197	0	0	0	0	0	0	0	0	0	1	0
## 6198 6198	0	0	0	0	0	0	0	0	0	0	0
## 6199 6199	0	0	0	0	0	1	0	0	0	0	0
## 6200 6200	0	0	0	0	1	0	0	0	0	0	0
## 6201 6201	0	0	0	1	0	0	0	0	0	0	0
## 6202 6202	0	0	0	1	0	0	0	0	0	0	0
## 6203 6203	0	0	0	0	0	0	0	1	0	0	0
## 6204 6204	0	0	1	0	0	0	0	0	0	0	0
## 6205 6205	0	0	0	0	0	0	1	0	0	0	0
## 6206 6206	0	0	1	0	0	0	0	0	0	0	0
## 6207 6207	0	0	0	0	0	0	0	0	0	0	1
## 6208 6208	0	0	0	0	0	0	0	0	0	0	1
## 6209 6209	0	0	0	0	0	0	0	0	0	0	0
## 6210 6210	1	0	0	0	0	0	0	0	0	0	0
## 6211 6211	0	0	3	0	0	0	0	0	0	0	0
## 6212 6212	0	0	0	1	0	0	0	0	0	0	0
## 6213 6213	0	0	0	0	0	1	0	0	0	0	0
## 6214 6214	0	0	0	0	1	0	0	0	0	0	0
## 6215 6215	0	1	0	0	0	0	0	0	0	0	0
## 6216 6216	0	0	0	0	1	0	0	0	0	0	0
## 6217 6217	1	0	0	0	0	0	0	0	0	0	0
## 6218 6218	1	0	0	0	0	0	0	0	0	0	0
## 6219 6219	0	1	0	0	0	0	0	0	0	0	0
## 6220 6220	1	0	0	0	0	0	0	0	0	0	0
## 6221 6221	1	0	0	0	0	0	0	0	0	0	0
## 6222 6222	0	1	0	0	0	0	0	0	0	0	0
## 6223 6223	0	0	0	0	0	0	0	0	0	0	0
## 6224 6224	0	0	0	0	0	0	0	1	0	0	0
## 6225 6225	0	0	0	0	0	1	0	0	0	0	0
## 6226 6226	0	0	0	0	0	0	0	0	0	0	0
## 6227 6227	0	0	0	0	0	0	0	0	0	0	0
## 6228 6228	1	0	0	0	0	0	0	0	0	0	0
## 6229 6229	0	0	0	0	0	1	0	0	0	0	0
## 6230 6230	0	0	0	0	0	0	0	0	0	0	0
## 6231 6231	0	1	0	0	0	0	0	0	0	0	0
## 6232 6232	1	0	0	0	0	0	0	0	0	0	0
## 6233 6233	0	0	0	0	0	1	0	0	0	0	0
## 6234 6234	0	0	0	0	0	0	0	0	0	0	0
## 6235 6235	0	0	0	0	0	0	0	0	0	0	0
## 6236 6236	0	0	0	0	0	0	0	0	0	0	0
## 6237 6237	0	1	0	0	0	0	0	0	0	0	0
## 6238 6238	0	0	0	0	0	0	0	0	0	0	0
## 6239 6239	0	0	0	1	0	0	0	0	0	0	0
## 6240 6240	0	0	0	0	0	0	0	0	0	0	0
## 6241 6241	0	0	0	1	0	0	0	0	0	0	0
## 6242 6242	0	1	0	0	0	0	0	0	0	0	0
## 6243 6243	0	0	1	0	0	0	0	0	0	0	0

## 6244 6244	1	0	0	0	0	0	0	0	0	0	0
## 6245 6245	0	0	0	1	0	0	0	0	0	0	0
## 6246 6246	0	0	0	1	0	0	0	0	0	0	0
## 6247 6247	0	0	0	0	0	0	1	0	0	0	0
## 6248 6248	0	0	0	0	0	0	0	0	0	0	0
## 6249 6249	0	0	0	0	0	0	0	0	0	0	0
## 6250 6250	0	0	0	0	0	0	0	0	0	0	0
## 6251 6251	0	0	0	0	0	0	0	0	0	0	0
## 6252 6252	0	0	0	0	0	0	0	1	0	0	0
## 6253 6253	0	0	0	0	1	0	0	0	0	0	0
## 6254 6254	0	1	0	0	0	0	0	0	0	0	0
## 6255 6255	0	0	1	0	0	0	0	0	0	0	0
## 6256 6256	0	0	0	0	0	0	0	0	0	0	0
## 6257 6257	0	0	0	0	0	0	0	0	0	0	1
## 6258 6258	0	0	0	0	0	0	1	0	0	0	0
## 6259 6259	0	0	0	0	0	0	0	0	0	0	0
## 6260 6260	0	0	0	0	0	0	0	0	0	0	0
## 6261 6261	0	0	0	0	0	0	1	0	0	0	0
## 6262 6262	0	0	0	0	0	0	0	0	0	0	0
## 6263 6263	0	0	0	0	0	0	0	0	0	0	0
## 6264 6264	0	0	0	0	0	1	0	0	0	0	0
## 6265 6265	0	0	0	0	0	0	0	0	0	0	0
## 6266 6266	0	0	0	0	0	1	0	0	0	0	0
## 6267 6267	0	0	1	0	0	0	0	0	0	0	0
## 6268 6268	0	0	0	0	0	0	0	0	0	0	0
## 6269 6269	0	0	0	0	0	0	0	0	0	0	1
## 6270 6270	0	0	0	0	0	0	0	0	0	0	0
## 6271 6271	1	0	0	0	0	0	0	0	0	0	0
## 6272 6272	0	0	0	0	1	0	0	0	0	0	0
## 6273 6273	0	0	0	0	0	0	0	1	0	0	0
## 6274 6274	0	0	0	1	0	0	0	0	0	0	0
## 6275 6275	0	0	0	0	0	0	0	0	0	0	0
## 6276 6276	0	0	0	0	1	0	0	0	0	0	0
## 6277 6277	0	0	0	0	0	0	0	0	0	0	0
## 6278 6278	0	0	0	0	0	0	1	0	0	0	0
## 6279 6279	0	0	0	0	0	0	0	1	0	0	0
## 6280 6280	0	0	0	1	0	0	0	0	0	0	0
## 6281 6281	0	0	0	0	0	0	0	0	0	0	0
## 6282 6282	0	0	0	0	0	0	0	0	0	0	0
## 6283 6283	0	0	0	0	0	0	0	0	0	0	0
## 6284 6284	0	0	0	0	0	0	0	0	0	0	0
## 6285 6285	0	1	0	0	0	0	0	0	0	0	0
## 6286 6286	0	0	0	0	0	0	0	0	0	0	0
## 6287 6287	0	0	0	0	0	0	0	0	0	0	0
## 6288 6288	0	0	0	0	0	0	0	0	0	0	0
## 6289 6289	0	0	0	0	0	0	0	0	0	0	0
## 6290 6290	0	0	0	0	0	0	0	0	0	0	0
## 6291 6291	0	0	0	0	0	1	0	0	0	0	0
## 6292 6292	0	0	0	0	0	0	0	0	0	0	0
## 6293 6293	0	0	0	0	0	0	0	0	0	0	0
## 6294 6294	0	0	0	0	0	0	0	0	0	0	0
## 6295 6295	0	0	1	0	0	0	0	0	0	0	0
## 6296 6296	0	0	0	0	0	0	0	0	0	0	1
## 6297 6297	0	0	0	0	0	0	0	0	0	0	0

## 6298	6298	0	0	0	0	0	0	0	1	0	0
## 6299	6299	0	0	0	0	0	0	0	0	1	0
## 6300	6300	1	0	0	0	0	0	0	0	0	0
## 6301	6301	0	0	0	0	0	0	0	0	0	1
## 6302	6302	0	0	0	0	0	0	0	0	0	0
## 6303	6303	0	0	1	0	0	0	0	0	0	0
## 6304	6304	0	0	0	0	0	0	0	0	1	0
## 6305	6305	0	0	0	0	0	0	0	0	0	0
## 6306	6306	0	0	0	0	0	1	0	0	0	0
## 6307	6307	0	0	0	0	0	1	0	0	0	0
## 6308	6308	0	2	0	0	0	0	0	0	1	0
## 6309	6309	0	0	0	1	0	0	0	0	0	0
## 6310	6310	0	0	0	0	0	0	0	0	0	0
## 6311	6311	0	0	0	0	0	0	0	0	0	0
## 6312	6312	0	0	0	0	0	0	0	1	0	0
## 6313	6313	0	0	0	0	0	0	0	0	0	0
## 6314	6314	0	0	0	0	0	0	0	0	0	0
## 6315	6315	0	0	0	0	0	1	0	0	0	0
## 6316	6316	0	0	0	0	0	0	1	0	0	0
## 6317	6317	0	0	0	1	0	0	0	0	0	0
## 6318	6318	0	0	0	0	0	0	0	0	0	0
## 6319	6319	0	0	0	0	0	0	0	0	0	1
## 6320	6320	0	0	0	0	0	0	0	0	0	0
## 6321	6321	0	0	0	0	0	0	1	0	0	0
## 6322	6322	0	0	0	0	0	0	0	0	0	0
## 6323	6323	1	0	0	0	0	0	0	0	0	0
## 6324	6324	0	0	0	0	0	0	0	0	0	0
## 6325	6325	0	0	0	0	0	0	0	0	0	0
## 6326	6326	0	0	0	0	0	0	0	0	0	0
## 6327	6327	0	0	0	0	0	1	0	0	0	0
## 6328	6328	0	0	0	0	0	0	0	0	0	0
## 6329	6329	0	0	0	0	0	0	0	0	0	0
## 6330	6330	0	0	0	0	0	0	0	0	0	0
## 6331	6331	0	0	0	0	0	0	0	0	0	0
## 6332	6332	0	0	0	0	0	0	0	0	0	0
## 6333	6333	0	0	0	0	0	0	0	0	0	0
## 6334	6334	0	0	0	0	0	0	0	0	0	0
## 6335	6335	0	0	0	0	0	0	0	0	0	0
## 6336	6336	0	0	0	0	0	0	0	0	0	0
## 6337	6337	0	0	0	0	0	0	0	0	0	0
## 6338	6338	0	0	0	0	0	0	0	0	0	0
## 6339	6339	0	0	0	0	0	0	0	0	0	0
## 6340	6340	1	0	0	0	0	0	0	0	0	0
## 6341	6341	1	0	0	0	0	0	0	0	0	0
## 6342	6342	0	0	0	0	0	0	0	0	0	0
## 6343	6343	0	0	0	0	0	0	0	2	0	0
## 6344	6344	0	0	0	0	0	0	0	0	0	0
## 6345	6345	0	0	0	0	0	0	0	0	1	0
## 6346	6346	0	1	0	0	0	0	0	0	0	0
## 6347	6347	0	0	0	0	0	0	0	0	2	0
## 6348	6348	0	0	0	0	0	0	1	0	0	0
## 6349	6349	0	0	0	0	0	0	0	0	0	0
## 6350	6350	0	0	0	0	0	0	0	0	0	0
## 6351	6351	0	0	0	0	0	0	0	0	0	0

```

## 6352 6352 0 0 0 0 0 0 0 0 0 0 0 0
## 6353 6353 0 0 0 0 0 0 0 0 0 0 0 0
## 6354 6354 0 0 0 1 0 0 0 0 0 0 0 0
## 6355 6355 0 0 0 0 0 0 0 0 0 0 0 1
## 6356 6356 0 0 0 0 0 0 0 0 0 0 0 0
## 6357 6357 0 0 0 0 0 0 0 0 0 0 0 0
## 6358 6358 0 0 0 0 0 0 0 0 1 0 0 0
## 6359 6359 0 0 0 0 0 0 0 0 0 0 0 0
## 6360 6360 0 0 0 0 0 0 0 0 0 0 0 0
## 6361 6361 0 0 0 1 0 0 0 0 0 0 0 0
## 6362 6362 0 0 0 1 0 0 0 0 0 0 0 0
## 6363 6363 0 0 0 0 0 0 0 1 0 0 0 0
## 6364 6364 0 0 0 1 0 0 0 0 0 0 0 0
## 6365 6365 0 0 0 0 0 0 0 0 1 0 0 0
## 6366 6366 0 0 0 0 2 0 0 0 0 0 0 0
## 6367 6367 1 0 0 0 0 0 0 0 0 0 0 0
## 6368 6368 0 0 0 0 0 0 0 0 0 0 0 0
## 6369 6369 0 0 0 0 0 0 0 0 0 0 0 1
## 6370 6370 0 0 0 0 0 0 0 1 0 0 0 0
## 6371 6371 0 0 0 0 0 0 0 0 0 0 0 0
## 6372 6372 0 0 0 0 0 0 0 0 0 0 0 0
## 6373 6373 0 0 0 0 0 0 0 0 0 0 0 0
## 6374 6374 0 0 0 0 0 0 0 0 0 0 0 0
## 6375 6375 0 0 0 0 0 0 0 0 0 0 0 0
## 6376 6376 0 0 1 0 0 0 0 0 0 0 0 0
## 6377 6377 0 0 0 0 0 0 0 0 0 0 0 0
## 6378 6378 0 0 0 1 0 0 0 0 0 0 0 0
## 6379 6379 0 0 0 0 0 0 0 0 0 0 0 0
## 6380 6380 0 0 0 0 0 0 0 0 0 0 0 0
## 6381 6381 0 0 0 0 0 0 0 0 0 0 0 0
## 6382 6382 0 0 0 0 0 0 0 0 0 0 0 1
## 6383 6383 1 0 0 0 0 0 0 0 0 0 0 0
## 6384 6384 0 0 0 0 0 0 0 0 0 0 0 0
## 6385 6385 0 0 0 0 0 1 0 0 1 0 0 0
## 6386 6386 0 1 0 0 0 0 0 0 0 0 0 0
## 6387 6387 0 1 0 0 0 0 0 0 0 0 0 0
## 6388 6388 0 0 0 0 0 0 1 0 0 0 0 0
## 6389 6389 0 1 0 0 0 0 0 0 0 0 0 0
## 6390 6390 0 0 0 0 0 0 0 0 0 0 0 0
## 6391 6391 0 0 0 0 0 0 0 0 0 0 0 0
## 6392 6392 0 0 0 0 1 0 0 0 0 0 0 0
## 6393 6393 0 0 0 0 0 0 0 0 1 0 0 0
## 6394 6394 0 0 0 0 0 0 0 1 0 0 0 0
## 6395 6395 0 0 0 0 0 0 0 0 0 0 0 1
## 6396 6396 0 0 0 0 0 0 0 1 0 0 0 0
## 6397 6397 0 1 0 1 0 0 0 0 0 0 0 0
## 6398 6398 0 0 1 0 0 0 0 0 0 0 0 0
## 6399 6399 0 0 0 0 0 0 0 0 0 0 0 0
## 6400 6400 0 0 0 0 0 0 0 1 0 0 0 0
## 6401 6401 0 0 0 1 0 0 0 0 0 0 0 0
## 6402 6402 0 0 0 0 0 0 0 0 0 0 0 0
## 6403 6403 0 0 0 0 0 0 0 0 0 0 0 0
## 6404 6404 0 0 0 0 1 0 0 0 0 0 0 1
## 6405 6405 0 0 0 0 0 0 0 0 0 0 1 0

```

```

## 6406 6406 0 0 0 1 0 0 0 0 0 0 0 0
## 6407 6407 0 0 0 0 0 0 0 0 0 0 1 0
## 6408 6408 0 0 0 0 0 0 0 0 0 0 0 0
## 6409 6409 0 0 0 0 0 0 0 0 0 0 0 0
## 6410 6410 0 0 0 0 0 2 0 0 0 0 0 0
## 6411 6411 0 0 0 0 1 0 0 0 0 0 0 0
## 6412 6412 0 0 0 0 0 1 0 0 0 0 0 0
## 6413 6413 0 0 0 0 0 0 0 0 0 0 0 0
## 6414 6414 0 0 1 0 0 0 0 0 0 0 0 0
## 6415 6415 0 0 0 0 0 0 0 0 0 0 0 0
## 6416 6416 0 0 1 0 0 0 0 0 0 0 0 0
## 6417 6417 0 0 0 0 1 0 0 0 0 0 0 0
## 6418 6418 0 0 0 0 0 0 0 0 0 0 0 0
## 6419 6419 0 0 0 0 0 0 0 0 0 0 0 0
## 6420 6420 0 0 0 0 0 0 0 0 0 0 0 0
## 6421 6421 0 0 0 0 0 0 0 0 1 0 0 0
## 6422 6422 0 0 0 0 0 0 0 0 0 0 0 0
## 6423 6423 0 0 0 0 0 0 0 0 0 0 0 0
## 6424 6424 0 0 0 0 0 0 0 0 0 0 0 0
## 6425 6425 0 0 0 0 0 0 0 0 0 0 0 0
## 6426 6426 0 0 0 0 0 0 0 0 1 0 0 0
## 6427 6427 0 0 0 0 0 1 0 0 0 0 0 0
## 6428 6428 0 0 0 0 0 0 0 0 0 0 0 0
## 6429 6429 0 0 0 0 0 0 0 1 0 0 0 0
## 6430 6430 1 0 0 0 0 0 0 0 0 0 0 0
## 6431 6431 1 0 0 0 0 0 0 0 0 0 0 0
## 6432 6432 0 0 0 0 0 0 0 0 1 0 0 0
## 6433 6433 0 0 0 1 0 0 0 0 0 0 0 0
## 6434 6434 0 0 0 0 0 0 0 0 1 0 0 0
## 6435 6435 0 0 0 1 0 0 0 0 0 0 0 0
## 6436 6436 0 0 0 0 0 0 0 0 0 0 0 1
## 6437 6437 0 0 0 0 0 0 0 0 0 0 0 0
## 6438 6438 0 0 0 0 0 0 0 0 0 0 0 0
## 6439 6439 0 0 0 0 0 0 0 0 0 0 0 0
## 6440 6440 0 0 0 0 0 0 0 0 1 0 0 0
## 6441 6441 0 0 0 0 0 0 0 1 0 0 0 0
## 6442 6442 0 0 0 0 0 0 1 0 0 0 0 0
## 6443 6443 0 0 0 0 0 0 0 0 0 1 0 0
## 6444 6444 1 0 0 0 0 0 0 0 0 0 0 0
## 6445 6445 1 0 0 0 0 0 0 0 0 0 0 0
## 6446 6446 0 0 0 1 0 0 0 0 0 0 0 0
## 6447 6447 0 0 0 0 0 0 0 0 0 0 0 0
## 6448 6448 1 0 0 0 0 0 0 0 0 0 0 0
## 6449 6449 0 0 0 0 0 0 0 0 0 0 0 0
## 6450 6450 0 0 0 0 0 0 0 0 0 0 0 0
## 6451 6451 0 0 0 0 0 0 0 0 0 0 0 0
## 6452 6452 0 0 0 0 0 0 0 0 0 0 0 0
## 6453 6453 0 0 0 0 0 0 0 0 0 0 0 0
## 6454 6454 0 0 0 0 0 0 0 0 0 0 0 0
## 6455 6455 0 0 0 0 0 0 0 0 0 0 1 0
## 6456 6456 0 0 0 0 0 0 0 0 0 0 1 0
## 6457 6457 0 0 0 0 0 0 2 0 0 0 0 0
## 6458 6458 0 0 0 0 0 0 0 0 0 0 0 0
## 6459 6459 0 0 0 0 0 0 0 0 0 0 0 0

```

## 6460	6460	0	0	0	0	1	0	0	0	0	1	0
## 6461	6461	0	0	0	0	0	0	1	0	0	0	0
## 6462	6462	0	0	0	0	0	0	0	0	0	0	0
## 6463	6463	0	0	0	0	0	0	0	0	0	0	0
## 6464	6464	0	0	0	0	1	0	0	0	0	0	0
## 6465	6465	0	0	0	0	0	0	0	0	0	0	0
## 6466	6466	0	0	0	0	1	0	0	0	0	0	0
## 6467	6467	0	0	0	0	0	0	0	0	2	0	0
## 6468	6468	0	0	1	0	0	0	0	0	0	0	0
## 6469	6469	0	0	0	0	0	0	0	0	0	0	0
## 6470	6470	0	0	0	0	0	0	0	0	0	0	0
## 6471	6471	0	0	0	0	0	0	1	0	0	0	0
## 6472	6472	0	0	0	0	0	0	0	0	1	0	0
## 6473	6473	0	0	0	0	0	0	1	0	0	0	0
## 6474	6474	0	0	0	0	0	0	0	0	0	0	1
## 6475	6475	0	0	0	0	0	0	1	0	0	0	0
## 6476	6476	0	0	0	0	0	1	0	0	0	0	0
## 6477	6477	0	0	0	0	0	1	0	0	0	0	0
## 6478	6478	0	0	0	0	0	0	0	1	0	0	0
## 6479	6479	0	0	0	0	1	0	0	0	0	0	0
## 6480	6480	0	0	0	0	0	0	0	0	0	1	0
## 6481	6481	0	0	0	0	0	0	0	0	0	0	0
## 6482	6482	0	0	0	0	0	0	0	0	0	0	0
## 6483	6483	0	0	0	0	1	0	0	0	0	0	0
## 6484	6484	0	0	0	0	0	0	0	0	0	0	0
## 6485	6485	0	0	0	0	0	0	0	0	0	0	0
## 6486	6486	0	0	0	0	0	0	0	0	1	0	0
## 6487	6487	0	0	0	0	0	0	0	0	0	0	0
## 6488	6488	0	0	0	0	0	0	0	0	0	0	0
## 6489	6489	0	0	0	0	1	0	0	0	0	0	0
## 6490	6490	0	0	0	1	0	0	0	0	0	0	0
## 6491	6491	0	0	0	0	0	0	0	0	0	0	0
## 6492	6492	0	1	0	0	0	0	0	0	0	0	0
## 6493	6493	0	0	0	0	0	0	0	0	0	0	0
## 6494	6494	0	0	0	0	0	0	0	0	0	0	0
## 6495	6495	0	0	0	1	0	0	0	0	0	0	0
## 6496	6496	0	0	0	0	0	0	0	0	0	0	0
## 6497	6497	0	0	0	0	0	0	0	0	0	0	0
## 6498	6498	0	0	0	0	1	0	0	0	0	0	0
## 6499	6499	0	0	0	0	0	1	1	0	0	0	0
## 6500	6500	0	0	0	0	0	0	0	0	0	0	0
## 6501	6501	0	0	0	0	0	1	0	0	0	0	0
## 6502	6502	0	0	0	0	0	0	0	0	0	0	0
## 6503	6503	0	0	0	0	0	0	1	1	0	0	0
## 6504	6504	0	0	0	0	0	0	0	0	0	0	0
## 6505	6505	0	0	0	0	0	0	0	0	1	0	0
## 6506	6506	0	1	0	0	0	0	0	0	0	0	0
## 6507	6507	0	1	0	0	0	0	0	0	0	0	0
## 6508	6508	0	0	0	0	0	0	0	0	0	0	0
## 6509	6509	1	0	0	0	0	0	0	0	0	0	0
## 6510	6510	0	1	0	0	0	0	0	0	0	0	0
## 6511	6511	0	0	0	0	0	0	0	0	1	0	0
## 6512	6512	0	1	1	0	0	0	0	0	0	0	0
## 6513	6513	0	1	0	0	0	0	0	0	0	0	0

## 6514	6514	0	0	1	0	1	0	0	0	0	0	0
## 6515	6515	0	1	0	0	0	0	0	0	0	0	0
## 6516	6516	0	1	0	0	0	0	0	0	0	0	0
## 6517	6517	0	0	1	0	0	0	0	0	0	0	0
## 6518	6518	0	0	1	0	0	0	0	0	0	0	0
## 6519	6519	1	0	0	0	0	0	0	0	0	0	0
## 6520	6520	0	0	0	0	0	0	1	0	0	0	0
## 6521	6521	0	0	1	0	0	0	0	0	0	0	0
## 6522	6522	0	0	0	0	0	0	1	0	0	0	0
## 6523	6523	1	0	0	0	0	0	0	0	0	0	0
## 6524	6524	0	0	0	0	0	0	0	0	1	0	0
## 6525	6525	0	0	1	0	0	0	0	0	0	0	0
## 6526	6526	0	0	0	0	0	0	0	0	0	0	1
## 6527	6527	0	0	0	0	0	0	0	0	0	0	1
## 6528	6528	0	0	0	1	0	0	0	0	0	0	0
## 6529	6529	0	0	0	0	0	0	0	0	0	1	0
## 6530	6530	0	0	0	0	0	0	0	0	1	0	0
## 6531	6531	0	0	1	0	0	0	0	0	0	0	0
## 6532	6532	0	1	0	0	0	0	0	0	0	0	0
## 6533	6533	0	0	0	0	0	0	0	0	0	0	0
## 6534	6534	0	0	0	0	0	0	0	0	0	0	0
## 6535	6535	0	0	0	0	1	0	0	0	0	0	0
## 6536	6536	0	0	0	0	1	0	0	0	0	0	0
## 6537	6537	0	0	1	0	0	0	0	0	0	0	0
## 6538	6538	0	0	0	0	0	0	0	1	0	0	0
## 6539	6539	0	1	0	0	1	0	0	0	0	0	0
## 6540	6540	0	1	0	0	0	0	0	0	0	0	0
## 6541	6541	0	0	0	0	0	0	1	0	0	0	0
## 6542	6542	0	0	0	0	0	0	0	0	0	0	0
## 6543	6543	0	0	1	0	0	0	0	0	0	0	0
## 6544	6544	0	0	0	0	0	0	0	0	0	0	0
## 6545	6545	0	0	0	0	0	0	0	0	0	0	0
## 6546	6546	0	0	0	0	0	0	0	0	0	0	0
## 6547	6547	0	0	0	0	0	0	1	0	0	0	0
## 6548	6548	0	0	0	0	0	0	1	0	0	0	0
## 6549	6549	0	0	1	0	0	0	0	0	0	0	0
## 6550	6550	0	0	1	0	0	0	0	0	0	0	0
## 6551	6551	0	0	0	0	0	0	0	0	0	0	0
## 6552	6552	0	0	0	0	1	0	0	0	0	0	0
## 6553	6553	0	0	0	0	0	0	0	0	0	0	0
## 6554	6554	0	0	1	0	0	0	0	0	0	0	0
## 6555	6555	0	0	0	0	0	0	0	0	0	0	0
## 6556	6556	0	0	0	0	0	0	0	0	0	0	0
## 6557	6557	0	1	0	0	0	0	0	0	0	0	0
## 6558	6558	0	0	0	2	0	0	0	0	0	0	0
## 6559	6559	0	1	0	0	0	0	1	0	0	0	0
## 6560	6560	0	0	0	1	0	0	0	0	0	0	1
## 6561	6561	0	0	0	0	0	0	0	0	0	0	1
## 6562	6562	0	0	0	0	0	0	0	0	0	0	0
## 6563	6563	0	0	0	0	0	0	0	0	0	0	0
## 6564	6564	0	0	0	0	0	0	1	0	0	0	0
## 6565	6565	0	0	0	0	0	0	0	0	0	0	0
## 6566	6566	0	0	0	0	0	0	0	0	0	0	0
## 6567	6567	0	0	0	1	0	0	0	0	0	0	0

## 6568 6568	0	0	0	0	0	0	0	0	0	0	0
## 6569 6569	0	0	0	1	0	0	0	0	0	0	0
## 6570 6570	0	0	0	1	0	0	1	0	0	0	0
## 6571 6571	0	0	0	0	0	0	0	0	0	0	0
## 6572 6572	0	0	0	0	0	0	0	0	0	0	0
## 6573 6573	0	0	0	0	1	0	0	0	0	0	0
## 6574 6574	0	0	0	0	0	1	0	0	0	0	0
## 6575 6575	2	0	0	0	0	0	0	0	0	0	0
## 6576 6576	0	1	0	0	0	0	0	0	0	0	0
## 6577 6577	0	0	0	0	0	0	0	0	0	0	0
## 6578 6578	0	0	0	0	0	0	0	0	0	0	0
## 6579 6579	0	0	0	0	0	0	0	0	0	0	0
## 6580 6580	0	0	0	0	0	0	1	0	0	0	0
## 6581 6581	0	0	0	0	0	0	0	0	0	0	0
## 6582 6582	0	0	0	0	0	0	0	0	0	0	0
## 6583 6583	0	0	0	0	1	0	0	0	0	0	0
## 6584 6584	0	0	0	0	0	0	0	0	0	0	0
## 6585 6585	0	0	0	0	0	0	0	0	0	0	1
## 6586 6586	0	0	0	0	0	0	0	0	0	0	0
## 6587 6587	0	0	0	0	0	0	1	0	0	0	0
## 6588 6588	0	0	0	0	0	1	0	0	0	0	0
## 6589 6589	0	0	0	0	0	0	0	1	0	0	0
## 6590 6590	0	0	0	0	0	0	0	0	0	0	0
## 6591 6591	0	0	2	0	0	0	0	0	0	0	0
## 6592 6592	0	0	0	0	0	0	0	0	0	0	0
## 6593 6593	0	0	0	0	0	0	0	0	1	0	0
## 6594 6594	0	0	0	0	1	0	0	0	0	0	0
## 6595 6595	0	0	0	0	0	0	0	0	0	0	0
## 6596 6596	0	0	0	0	0	0	0	0	0	1	0
## 6597 6597	0	0	0	0	0	1	0	0	0	0	0
## 6598 6598	0	0	0	0	0	0	0	2	0	0	0
## 6599 6599	0	0	0	0	0	0	0	1	0	0	0
## 6600 6600	0	0	0	0	1	0	0	0	0	0	0
## 6601 6601	0	0	0	0	0	0	0	0	0	0	0
## 6602 6602	0	0	0	0	0	0	0	0	0	0	0
## 6603 6603	0	0	1	0	0	0	0	0	0	0	0
## 6604 6604	0	0	0	0	1	0	0	0	0	0	0
## 6605 6605	0	0	0	0	0	0	0	0	0	0	0
## 6606 6606	0	0	0	0	0	0	0	0	0	0	1
## 6607 6607	0	0	0	1	1	0	0	0	0	0	0
## 6608 6608	0	0	0	0	0	0	1	0	0	0	0
## 6609 6609	0	0	0	0	0	1	0	0	0	0	0
## 6610 6610	0	1	0	0	0	0	0	0	0	0	0
## 6611 6611	0	0	0	0	0	1	0	0	0	0	0
## 6612 6612	0	0	0	0	0	0	0	0	0	0	0
## 6613 6613	0	0	0	0	0	1	0	0	0	0	0
## 6614 6614	0	0	0	2	0	0	0	0	0	0	0
## 6615 6615	0	0	0	0	1	0	0	0	0	0	0
## 6616 6616	0	0	0	1	0	0	1	0	0	0	0
## 6617 6617	0	0	0	0	1	0	0	0	0	0	0
## 6618 6618	0	0	0	0	0	0	0	0	0	0	0
## 6619 6619	0	2	0	0	0	0	0	0	0	0	0
## 6620 6620	0	0	0	0	0	0	1	0	0	0	0
## 6621 6621	0	0	0	0	0	0	1	0	0	0	0

## 6622 6622	0	2	0	0	0	0	0	0	0	0	1
## 6623 6623	0	0	0	0	0	0	1	0	0	0	0
## 6624 6624	0	0	0	1	0	0	0	0	0	0	0
## 6625 6625	0	0	0	0	0	1	0	0	0	0	0
## 6626 6626	0	0	0	1	0	0	0	0	0	0	0
## 6627 6627	0	0	0	0	0	0	1	0	0	0	0
## 6628 6628	0	0	0	1	0	0	0	0	0	0	0
## 6629 6629	0	0	0	0	1	0	0	0	0	0	0
## 6630 6630	0	0	0	0	0	0	0	0	1	0	0
## 6631 6631	0	0	0	0	0	0	0	0	1	0	0
## 6632 6632	0	0	0	0	0	0	0	0	0	0	0
## 6633 6633	0	0	0	0	1	0	0	0	0	0	0
## 6634 6634	0	0	0	0	0	0	0	0	0	0	1
## 6635 6635	0	0	0	0	0	0	0	0	0	0	0
## 6636 6636	0	0	0	0	0	0	0	0	0	0	0
## 6637 6637	0	1	0	0	0	0	0	0	0	0	0
## 6638 6638	0	0	0	1	0	0	0	0	0	0	0
## 6639 6639	0	0	0	1	0	0	0	0	0	0	0
## 6640 6640	0	0	0	0	0	0	0	1	0	0	0
## 6641 6641	0	0	0	1	0	0	0	0	0	0	0
## 6642 6642	0	0	0	0	0	0	0	0	0	0	0
## 6643 6643	0	0	0	0	0	0	1	0	0	0	0
## 6644 6644	0	0	0	0	1	0	0	0	0	0	0
## 6645 6645	0	0	0	0	0	0	1	0	0	0	0
## 6646 6646	0	0	0	1	0	0	0	0	0	0	0
## 6647 6647	0	0	0	0	0	0	0	0	0	0	1
## 6648 6648	0	0	0	0	0	0	1	0	0	0	0
## 6649 6649	1	0	0	0	0	0	0	0	0	0	0
## 6650 6650	0	0	1	0	0	0	0	0	0	0	0
## 6651 6651	0	0	1	0	0	0	0	0	0	0	0
## 6652 6652	0	0	0	0	0	0	1	0	0	0	0
## 6653 6653	0	1	0	0	0	0	0	0	0	0	0
## 6654 6654	0	0	0	0	0	0	0	0	0	0	0
## 6655 6655	0	0	0	0	0	0	0	0	1	0	0
## 6656 6656	0	0	0	0	0	0	0	0	0	0	0
## 6657 6657	0	0	0	0	0	0	0	0	0	0	0
## 6658 6658	0	0	0	1	0	0	0	0	0	0	0
## 6659 6659	0	0	0	0	0	0	0	0	0	0	1
## 6660 6660	0	0	0	0	0	0	0	0	0	0	0
## 6661 6661	0	0	0	0	0	0	0	0	0	0	1
## 6662 6662	0	0	0	0	0	0	1	0	0	0	0
## 6663 6663	0	1	0	0	0	0	0	0	0	0	0
## 6664 6664	0	0	0	0	0	0	0	0	0	0	0
## 6665 6665	0	0	0	0	0	0	0	0	0	0	0
## 6666 6666	0	0	0	0	0	0	0	0	0	0	0
## 6667 6667	0	0	0	0	0	0	0	0	0	0	0
## 6668 6668	0	1	0	0	0	0	0	0	0	0	0
## 6669 6669	0	0	0	0	0	0	0	0	0	0	0
## 6670 6670	0	0	0	0	0	1	0	0	0	0	0
## 6671 6671	0	0	0	0	0	0	0	0	0	0	0
## 6672 6672	0	0	0	0	0	0	0	0	0	0	0
## 6673 6673	0	0	0	0	0	0	0	0	0	0	0
## 6674 6674	0	0	0	0	0	0	0	0	0	0	0
## 6675 6675	0	0	0	0	0	0	1	0	0	0	0

## 6676 6676	0	0	0	0	0	0	1	0	0	0	0
## 6677 6677	0	0	0	0	0	0	0	0	0	0	0
## 6678 6678	0	0	0	0	0	0	0	0	0	0	0
## 6679 6679	0	0	0	0	0	0	0	0	0	0	0
## 6680 6680	0	0	0	0	0	0	0	0	0	0	0
## 6681 6681	0	0	0	0	1	0	0	0	0	0	0
## 6682 6682	0	0	0	0	1	0	0	0	0	0	0
## 6683 6683	0	0	0	0	0	0	0	0	0	0	0
## 6684 6684	0	0	0	0	0	0	0	0	0	0	0
## 6685 6685	0	0	0	0	0	0	0	0	0	0	0
## 6686 6686	0	0	0	0	0	0	0	0	1	0	0
## 6687 6687	0	0	0	0	0	0	0	0	0	0	0
## 6688 6688	0	0	0	0	0	0	0	0	0	1	0
## 6689 6689	0	0	0	0	0	0	0	0	0	0	0
## 6690 6690	0	0	0	0	0	0	1	0	0	0	0
## 6691 6691	0	0	0	0	0	0	0	0	0	0	0
## 6692 6692	0	0	0	1	0	0	0	0	0	0	0
## 6693 6693	0	0	0	0	0	0	0	2	0	0	0
## 6694 6694	1	0	0	0	0	0	0	0	0	0	0
## 6695 6695	0	0	0	0	0	0	0	0	0	0	0
## 6696 6696	0	0	0	0	0	0	0	0	0	0	0
## 6697 6697	0	0	0	0	1	0	0	0	0	0	0
## 6698 6698	1	0	0	0	0	0	0	0	0	0	0
## 6699 6699	0	0	0	0	0	1	0	0	0	0	0
## 6700 6700	0	0	0	0	0	0	0	0	0	0	0
## 6701 6701	0	0	0	0	0	0	0	0	1	0	0
## 6702 6702	0	0	0	0	0	0	0	0	0	0	0
## 6703 6703	0	0	0	0	0	0	1	0	0	0	0
## 6704 6704	0	0	0	1	0	0	0	0	0	0	0
## 6705 6705	0	0	0	0	0	0	0	0	1	0	0
## 6706 6706	0	0	0	0	0	0	0	0	0	1	0
## 6707 6707	0	0	0	0	0	0	0	0	0	0	0
## 6708 6708	0	0	0	0	0	0	0	0	0	0	0
## 6709 6709	0	0	1	0	0	0	0	0	0	0	0
## 6710 6710	0	0	0	0	0	0	0	0	0	0	0
## 6711 6711	0	0	0	0	0	0	2	0	0	0	0
## 6712 6712	0	0	0	0	0	0	0	0	0	0	0
## 6713 6713	0	0	0	0	0	0	1	0	0	0	0
## 6714 6714	0	0	0	0	0	0	0	0	0	0	0
## 6715 6715	0	0	0	0	1	0	0	0	0	0	0
## 6716 6716	0	0	0	0	0	0	0	0	0	0	0
## 6717 6717	0	0	0	0	0	0	0	0	0	0	0
## 6718 6718	0	1	0	0	0	0	0	0	0	0	0
## 6719 6719	0	0	0	0	0	0	0	0	0	0	0
## 6720 6720	0	0	0	0	0	0	0	0	0	0	1
## 6721 6721	0	0	0	0	0	0	0	0	0	0	0
## 6722 6722	0	1	0	0	0	0	0	0	0	0	0
## 6723 6723	0	0	0	0	0	1	0	0	0	0	0
## 6724 6724	0	0	0	0	0	0	0	0	0	0	0
## 6725 6725	0	0	1	0	0	0	0	0	0	0	0
## 6726 6726	0	0	1	0	0	0	0	0	0	0	0
## 6727 6727	0	0	0	0	0	0	1	0	0	0	0
## 6728 6728	0	0	0	0	0	1	0	0	0	0	0
## 6729 6729	0	0	0	0	0	0	0	0	0	0	0

```

## 6730 6730 0 1 0 0 0 0 0 0 0 0 0 0
## 6731 6731 0 0 0 1 0 0 0 0 0 0 0 0
## 6732 6732 0 0 0 0 0 0 0 0 0 0 0 0
## 6733 6733 0 0 0 1 0 0 0 0 0 0 0 0
## 6734 6734 0 0 0 0 1 0 0 0 0 0 0 0
## 6735 6735 0 0 0 0 0 0 1 0 0 0 0 0
## 6736 6736 0 0 0 0 0 0 0 0 0 0 1 0
## 6737 6737 0 0 1 0 0 0 0 0 0 0 0 0
## 6738 6738 0 0 0 0 0 0 1 0 0 0 0 0
## 6739 6739 0 0 0 0 0 0 0 0 0 1 0 0
## 6740 6740 1 0 0 0 0 0 0 0 0 0 0 0
## 6741 6741 0 0 0 0 0 0 0 0 0 0 0 0
## 6742 6742 0 0 0 0 0 0 0 0 0 0 0 0
## 6743 6743 0 0 0 0 0 0 0 0 0 0 0 0
## 6744 6744 0 0 0 0 0 0 0 0 0 0 0 0
## 6745 6745 0 0 1 0 0 0 0 0 0 0 0 0
## 6746 6746 0 0 0 0 0 0 0 0 0 0 0 0
## 6747 6747 0 0 0 0 1 0 0 0 0 0 0 0
## 6748 6748 0 0 1 0 0 0 0 0 0 0 0 0
## 6749 6749 0 0 0 0 1 0 0 0 0 0 0 0
## 6750 6750 0 0 0 0 0 0 0 0 0 0 0 0
## 6751 6751 0 0 0 0 0 0 0 0 0 0 0 0
## 6752 6752 1 0 0 0 0 0 0 0 0 0 0 0
## 6753 6753 0 0 0 0 0 0 0 0 0 0 0 0
## 6754 6754 1 0 0 0 0 0 0 0 0 0 0 0
## 6755 6755 0 0 0 0 0 0 0 0 0 0 0 0
## 6756 6756 0 0 0 0 0 0 0 0 0 0 0 0
## 6757 6757 0 0 0 0 0 0 0 0 0 0 0 0
## 6758 6758 0 0 0 0 0 0 0 0 0 0 0 0
## 6759 6759 0 0 0 0 0 0 0 0 0 0 0 0
## 6760 6760 0 0 0 0 0 0 0 0 0 0 0 0
## 6761 6761 0 0 0 0 0 0 0 0 0 0 0 0
## 6762 6762 0 0 0 0 0 0 0 0 0 0 0 0
## 6763 6763 0 0 0 0 0 0 0 0 0 0 0 0
## 6764 6764 0 0 0 0 0 0 0 0 0 0 0 0
## 6765 6765 0 0 0 0 0 0 0 0 0 0 0 0
## 6766 6766 0 0 0 0 0 0 1 0 0 0 0 0
## 6767 6767 0 0 0 0 0 0 0 0 0 0 0 0
## 6768 6768 0 0 0 0 0 0 0 0 0 0 0 1
## 6769 6769 0 0 0 0 0 0 0 0 0 1 0 0
## 6770 6770 1 0 0 0 0 0 0 0 0 0 0 0
## 6771 6771 0 0 0 0 0 0 0 1 0 0 0 0
## 6772 6772 0 0 0 0 1 0 0 0 0 0 0 0
## 6773 6773 0 0 1 0 0 0 0 0 0 0 0 0
## 6774 6774 1 0 0 0 0 0 0 0 0 0 0 0
## 6775 6775 0 0 0 0 1 0 0 0 0 0 0 0
## 6776 6776 0 0 0 0 0 0 0 0 0 0 0 0
## 6777 6777 0 0 0 0 0 0 0 0 0 0 0 0
## 6778 6778 0 0 0 0 0 0 0 0 0 0 0 0
## 6779 6779 0 0 1 0 0 0 0 0 0 0 0 0
## 6780 6780 0 0 0 0 1 0 0 0 0 0 0 0
## 6781 6781 0 0 0 0 1 0 0 0 0 0 0 0
## 6782 6782 0 0 0 0 0 0 0 0 0 0 0 0
## 6783 6783 0 0 0 0 0 0 0 0 0 0 0 0

```

## 6784 6784	0	0	0	0	0	0	0	0	0	0	0
## 6785 6785	0	0	0	0	0	0	1	0	0	0	0
## 6786 6786	2	0	0	0	0	0	0	0	0	0	0
## 6787 6787	0	0	0	0	1	0	0	0	0	0	0
## 6788 6788	0	0	0	0	0	0	0	1	0	0	0
## 6789 6789	0	0	0	0	0	0	0	0	0	0	0
## 6790 6790	0	0	0	0	0	0	0	1	0	0	0
## 6791 6791	0	0	0	0	0	0	0	0	0	0	0
## 6792 6792	0	0	0	0	1	0	0	1	0	0	0
## 6793 6793	0	0	0	0	0	0	0	0	0	0	0
## 6794 6794	0	0	0	0	1	0	0	0	0	0	0
## 6795 6795	0	0	0	0	0	0	0	0	0	0	0
## 6796 6796	0	0	0	0	0	0	0	0	0	0	0
## 6797 6797	0	1	0	0	0	0	0	0	0	0	0
## 6798 6798	0	0	0	0	0	0	0	0	0	0	0
## 6799 6799	0	0	0	0	0	0	0	0	0	0	0
## 6800 6800	0	0	0	0	0	0	0	0	0	0	0
## 6801 6801	0	0	0	0	0	3	0	0	0	0	0
## 6802 6802	0	1	1	0	0	0	0	0	0	0	0
## 6803 6803	0	0	0	0	0	0	0	0	0	0	0
## 6804 6804	0	0	0	0	0	0	0	0	0	0	0
## 6805 6805	0	0	0	0	0	0	0	0	0	0	0
## 6806 6806	0	0	0	0	0	0	1	0	0	0	0
## 6807 6807	0	0	0	0	0	0	0	0	0	0	0
## 6808 6808	0	0	0	0	0	0	0	0	0	0	0
## 6809 6809	1	0	0	0	0	0	0	0	0	0	0
## 6810 6810	0	0	0	0	0	0	1	0	0	0	0
## 6811 6811	0	0	0	0	0	0	0	0	0	0	0
## 6812 6812	0	0	0	0	0	0	0	0	0	0	0
## 6813 6813	0	0	0	0	0	0	0	0	1	0	0
## 6814 6814	0	0	0	0	1	0	0	0	0	0	0
## 6815 6815	0	0	0	0	0	0	0	0	0	0	0
## 6816 6816	0	0	0	0	0	2	0	0	0	0	0
## 6817 6817	0	0	0	0	0	0	0	0	0	0	0
## 6818 6818	0	1	0	0	0	0	0	0	0	0	0
## 6819 6819	0	0	0	0	0	0	0	0	0	0	0
## 6820 6820	0	0	1	0	0	0	0	0	0	0	0
## 6821 6821	0	0	1	0	0	0	0	0	0	0	0
## 6822 6822	0	0	0	0	0	0	0	0	0	0	0
## 6823 6823	0	0	0	0	0	0	0	0	0	0	0
## 6824 6824	0	0	0	0	0	0	0	0	0	0	0
## 6825 6825	0	1	0	0	0	0	0	0	0	0	0
## 6826 6826	0	0	0	0	1	0	0	0	0	0	0
## 6827 6827	0	0	0	0	0	0	0	0	0	1	0
## 6828 6828	0	0	1	0	0	0	0	0	0	0	0
## 6829 6829	1	0	0	0	0	0	0	0	0	0	0
## 6830 6830	0	0	0	0	0	0	0	0	0	0	0
## 6831 6831	1	0	0	0	0	1	0	0	0	0	0
## 6832 6832	0	0	0	0	0	0	1	0	0	0	0
## 6833 6833	0	0	0	0	0	0	0	0	0	0	0
## 6834 6834	0	0	0	0	0	0	0	0	0	0	0
## 6835 6835	0	0	0	0	0	0	0	0	0	0	0
## 6836 6836	0	0	0	0	0	0	0	0	0	0	0
## 6837 6837	0	0	0	0	0	0	0	0	0	0	0

```

## 6838 6838 0 0 0 0 0 0 0 0 0 0 0 0
## 6839 6839 0 0 0 0 0 0 0 0 0 0 0 0
## 6840 6840 1 0 0 0 0 0 0 0 0 0 0 0
## 6841 6841 0 0 0 0 0 0 0 0 0 0 0 0
## 6842 6842 0 1 0 0 0 0 0 0 0 0 0 0
## 6843 6843 0 1 0 0 0 0 0 0 0 0 0 0
## 6844 6844 0 0 0 0 0 0 0 0 0 0 0 0
## 6845 6845 1 0 0 0 0 0 0 0 0 0 0 0
## 6846 6846 0 0 0 1 0 0 0 0 0 0 0 0
## 6847 6847 0 0 0 1 0 0 0 0 0 0 0 0
## 6848 6848 0 1 0 0 0 0 0 0 0 0 0 0
## 6849 6849 0 0 1 1 0 0 0 0 0 0 0 0
## 6850 6850 1 0 0 0 0 0 0 0 0 0 0 0
## 6851 6851 0 0 0 0 0 0 1 0 0 0 0 0
## 6852 6852 0 0 0 0 0 0 0 0 0 0 0 0
## 6853 6853 0 0 0 0 1 0 0 0 0 0 0 0
## 6854 6854 0 0 0 0 0 0 0 0 0 0 0 0
## 6855 6855 0 0 0 0 0 0 0 0 0 0 0 0
## 6856 6856 0 0 0 0 0 0 0 0 0 0 0 0
## 6857 6857 0 0 0 0 0 0 0 0 0 0 0 0
## 6858 6858 0 0 0 0 0 0 0 1 0 0 0 0
## 6859 6859 1 0 0 0 0 0 0 0 0 0 0 0
## 6860 6860 0 0 0 0 0 0 0 0 0 0 0 0
## 6861 6861 0 0 0 0 0 0 0 0 1 0 0 0
## 6862 6862 0 0 0 0 0 0 0 0 0 0 1 0
## 6863 6863 0 0 0 1 0 0 0 0 0 0 0 0
## 6864 6864 0 0 0 0 0 0 0 0 0 0 0 0
## 6865 6865 0 1 0 0 0 0 0 0 0 0 0 0
## 6866 6866 0 1 0 0 0 0 0 0 0 0 0 0
## 6867 6867 0 0 1 0 1 0 0 0 0 0 0 0
## 6868 6868 0 0 0 0 0 0 0 0 0 0 0 1
## 6869 6869 0 0 0 0 0 0 0 0 0 0 0 0
## 6870 6870 0 0 0 0 0 0 0 0 0 0 0 0
## 6871 6871 0 0 0 0 0 0 0 0 0 0 0 0
## 6872 6872 0 0 0 0 0 0 0 0 0 0 0 1
## 6873 6873 0 1 0 0 0 0 0 0 0 0 0 0
## 6874 6874 0 0 0 0 0 0 0 0 0 0 0 1
## 6875 6875 0 0 0 0 0 0 0 0 0 0 0 0
## 6876 6876 0 0 0 0 0 0 0 0 0 0 0 0
## 6877 6877 0 0 0 0 0 0 0 0 0 0 0 0
## 6878 6878 0 0 0 0 0 0 1 0 0 0 0 0
## 6879 6879 0 0 0 0 0 0 0 0 0 0 0 1
## 6880 6880 0 0 0 0 0 0 0 0 0 0 0 0
## 6881 6881 0 0 0 0 0 0 0 1 0 0 0 0
## 6882 6882 0 0 0 0 0 0 0 0 0 0 0 0
## 6883 6883 0 0 0 0 0 0 0 0 0 0 0 0
## 6884 6884 0 0 0 0 0 0 0 0 0 0 0 0
## 6885 6885 0 0 0 0 0 0 0 0 0 0 0 0
## 6886 6886 1 0 0 0 0 0 0 0 0 0 0 0
## 6887 6887 0 0 0 0 1 0 0 0 0 0 0 0
## 6888 6888 0 0 0 0 0 0 0 0 1 0 0 0
## 6889 6889 0 0 0 0 0 0 0 0 0 1 0 1
## 6890 6890 0 0 0 0 0 0 0 0 0 0 0 0
## 6891 6891 0 0 0 0 0 0 0 0 0 0 1 0

```

## 6892 6892	0	0	0	0	0	0	0	0	0	0	0
## 6893 6893	0	0	0	0	0	0	1	0	0	0	0
## 6894 6894	0	1	0	0	0	0	0	0	0	0	0
## 6895 6895	0	0	0	0	0	0	1	0	0	0	0
## 6896 6896	0	0	0	0	0	0	0	1	0	0	0
## 6897 6897	0	0	0	0	0	0	1	0	0	0	0
## 6898 6898	0	0	0	0	0	0	0	0	0	1	0
## 6899 6899	1	0	0	0	0	0	0	0	0	0	0
## 6900 6900	0	0	0	0	0	0	0	0	0	0	0
## 6901 6901	0	0	0	0	0	0	0	0	0	0	0
## 6902 6902	0	0	0	0	0	0	1	0	0	0	0
## 6903 6903	0	0	0	0	0	0	0	0	0	0	1
## 6904 6904	0	0	0	0	0	0	0	0	0	0	0
## 6905 6905	1	0	0	0	0	0	0	0	0	0	0
## 6906 6906	0	0	0	0	0	0	0	0	0	0	0
## 6907 6907	0	0	0	0	0	0	0	0	0	0	0
## 6908 6908	0	0	0	0	1	1	0	0	0	0	0
## 6909 6909	0	0	0	0	0	0	0	0	0	0	0
## 6910 6910	0	0	0	0	0	0	0	1	0	0	0
## 6911 6911	0	0	1	0	0	0	0	0	0	0	0
## 6912 6912	0	0	0	0	0	0	0	0	0	0	0
## 6913 6913	0	0	0	0	0	0	0	0	0	0	0
## 6914 6914	0	0	0	0	1	0	0	0	0	0	0
## 6915 6915	0	0	0	0	0	0	0	0	0	0	0
## 6916 6916	1	0	0	0	0	0	0	0	0	0	0
## 6917 6917	0	0	0	0	0	0	0	0	0	0	0
## 6918 6918	0	0	0	0	0	0	0	0	0	0	0
## 6919 6919	0	0	0	0	0	0	0	1	0	0	0
## 6920 6920	0	0	0	1	0	0	0	0	0	0	0
## 6921 6921	0	0	0	0	0	0	0	1	0	0	0
## 6922 6922	0	0	0	0	0	0	0	0	0	0	1
## 6923 6923	1	0	0	0	0	1	0	0	0	0	0
## 6924 6924	0	0	0	0	0	0	0	0	0	0	0
## 6925 6925	0	0	0	0	0	0	1	0	0	0	0
## 6926 6926	0	0	0	0	0	0	0	2	0	0	0
## 6927 6927	0	0	0	0	0	0	0	0	0	0	0
## 6928 6928	0	0	1	0	0	0	0	0	0	0	0
## 6929 6929	0	0	0	0	0	0	0	0	0	0	0
## 6930 6930	0	0	0	0	1	0	0	0	0	0	0
## 6931 6931	0	0	0	0	0	0	0	0	0	0	0
## 6932 6932	1	0	1	0	0	0	0	0	0	0	0
## 6933 6933	0	0	1	0	0	0	0	0	0	0	0
## 6934 6934	0	0	0	0	0	0	0	0	0	0	0
## 6935 6935	0	0	0	0	0	0	0	0	0	0	0
## 6936 6936	0	0	0	0	0	0	0	0	0	0	0
## 6937 6937	0	1	0	0	0	0	0	0	0	0	0
## 6938 6938	1	0	0	0	0	0	0	0	0	0	0
## 6939 6939	0	0	0	0	0	0	0	0	0	0	0
## 6940 6940	0	0	0	0	0	0	0	0	0	1	0
## 6941 6941	0	0	0	0	0	0	1	0	0	0	0
## 6942 6942	0	0	0	0	0	0	0	0	0	1	0
## 6943 6943	0	0	0	0	0	0	1	0	0	0	0
## 6944 6944	0	0	0	1	0	0	0	0	0	0	0
## 6945 6945	0	0	0	0	0	0	0	0	0	0	0

## 6946 6946	0	0	0	0	0	0	0	0	0	0	0
## 6947 6947	0	0	1	0	0	0	0	0	0	0	0
## 6948 6948	0	0	0	0	0	0	0	0	1	0	0
## 6949 6949	0	1	0	0	0	0	0	0	0	0	0
## 6950 6950	0	1	0	0	0	0	0	0	0	0	0
## 6951 6951	1	0	0	0	0	0	0	0	0	0	0
## 6952 6952	0	0	0	0	0	0	0	0	0	0	0
## 6953 6953	0	0	0	0	0	0	0	0	0	0	0
## 6954 6954	0	0	0	0	0	0	0	0	0	0	0
## 6955 6955	0	0	0	0	0	0	0	0	0	0	0
## 6956 6956	0	0	0	1	0	0	0	1	0	0	0
## 6957 6957	1	0	0	0	0	0	0	0	0	0	0
## 6958 6958	0	0	0	0	0	0	0	0	0	0	0
## 6959 6959	0	0	1	0	0	0	0	0	0	0	0
## 6960 6960	0	0	0	0	0	0	0	0	0	0	0
## 6961 6961	0	0	0	0	0	0	0	0	0	1	0
## 6962 6962	0	0	0	0	0	0	0	0	0	0	0
## 6963 6963	0	1	0	0	0	0	0	0	0	0	0
## 6964 6964	0	0	0	0	0	0	0	0	0	0	0
## 6965 6965	0	0	0	0	0	0	0	0	1	0	0
## 6966 6966	0	0	0	0	0	0	0	0	0	0	0
## 6967 6967	0	0	0	0	0	0	0	0	0	0	0
## 6968 6968	0	0	0	0	0	0	0	0	0	0	0
## 6969 6969	0	0	0	0	0	0	0	0	0	0	0
## 6970 6970	0	0	0	0	0	0	0	0	0	0	0
## 6971 6971	0	0	1	0	0	0	0	0	0	0	0
## 6972 6972	0	0	0	0	1	0	0	0	0	0	0
## 6973 6973	0	0	0	0	1	0	0	0	0	0	0
## 6974 6974	0	0	0	0	0	0	0	2	0	0	0
## 6975 6975	0	0	0	0	0	0	0	0	0	0	0
## 6976 6976	0	0	0	0	0	0	0	0	0	0	0
## 6977 6977	0	0	0	1	0	0	0	0	0	0	0
## 6978 6978	0	0	0	1	0	0	0	0	0	0	0
## 6979 6979	0	0	0	0	0	0	0	0	0	0	0
## 6980 6980	0	0	0	0	0	0	0	0	0	0	0
## 6981 6981	0	0	0	0	0	0	0	0	0	0	0
## 6982 6982	0	0	0	0	0	0	0	0	0	0	0
## 6983 6983	0	0	0	1	0	0	0	0	0	0	0
## 6984 6984	0	0	0	0	0	0	0	0	0	0	0
## 6985 6985	0	0	1	0	0	0	0	0	0	0	0
## 6986 6986	0	0	1	0	0	0	0	0	0	0	0
## 6987 6987	0	1	0	0	0	0	0	0	0	0	0
## 6988 6988	0	0	0	1	0	0	0	0	0	0	0
## 6989 6989	0	0	1	0	0	0	0	0	0	0	0
## 6990 6990	0	0	0	0	1	0	0	0	0	0	0
## 6991 6991	0	0	0	1	0	0	0	0	0	0	0
## 6992 6992	0	1	0	0	0	0	0	0	0	0	0
## 6993 6993	0	0	0	0	0	0	0	0	0	0	0
## 6994 6994	0	0	0	0	0	0	0	0	0	1	0
## 6995 6995	0	0	0	1	0	0	0	0	0	0	0
## 6996 6996	0	0	0	0	0	0	0	0	0	0	0
## 6997 6997	0	1	0	0	0	0	0	0	0	0	0
## 6998 6998	0	0	0	1	0	0	0	0	0	0	0
## 6999 6999	0	0	0	0	0	0	0	0	0	1	0

##	7000	7000	1	0	0	0	0	0	0	0	0	0
##	7001	7001	1	0	0	0	0	0	0	0	0	0
##	7002	7002	0	0	0	0	0	0	0	0	0	0
##	7003	7003	0	0	0	0	1	0	0	0	0	0
##	7004	7004	0	0	0	0	1	0	0	0	0	0
##	7005	7005	0	0	0	0	0	0	0	0	0	0
##	7006	7006	0	0	0	0	0	0	0	0	0	0
##	7007	7007	0	0	0	0	0	0	0	0	0	0
##	7008	7008	0	0	0	0	0	0	0	0	0	0
##	7009	7009	0	0	0	0	0	0	0	1	0	0
##	7010	7010	0	0	0	0	0	0	1	0	0	0
##	7011	7011	0	0	0	0	0	0	0	0	0	0
##	7012	7012	0	0	0	0	0	0	1	0	0	0
##	7013	7013	0	1	0	0	0	0	0	0	0	0
##	7014	7014	0	0	0	0	0	0	0	1	0	0
##	7015	7015	0	0	0	0	0	0	0	0	0	0
##	7016	7016	0	0	0	0	0	0	1	0	0	0
##	7017	7017	0	0	0	0	0	0	0	0	0	0
##	7018	7018	0	0	0	0	0	0	0	0	0	0
##	7019	7019	0	0	0	0	0	0	0	0	0	0
##	7020	7020	0	0	0	0	0	0	0	0	0	0
##	7021	7021	0	0	0	0	0	0	0	0	0	0
##	7022	7022	0	0	2	0	0	0	0	0	0	0
##	7023	7023	0	0	0	0	1	0	0	0	0	0
##	7024	7024	0	0	1	0	0	0	0	0	0	0
##	7025	7025	0	0	0	0	0	0	0	0	0	0
##	7026	7026	0	0	0	0	0	0	0	0	0	1
##	7027	7027	0	1	0	0	0	0	0	0	0	0
##	7028	7028	0	0	0	0	0	0	0	0	0	0
##	7029	7029	0	0	0	0	0	0	0	0	0	0
##	7030	7030	0	0	0	0	0	0	0	0	0	0
##	7031	7031	0	0	0	0	0	0	0	0	0	0
##	7032	7032	0	1	0	0	0	0	0	0	0	0
##	7033	7033	0	0	0	0	0	0	0	0	0	1
##	7034	7034	0	1	0	0	0	0	0	0	0	0
##	7035	7035	0	1	0	0	0	0	0	0	0	0
##	7036	7036	0	0	1	0	0	0	0	0	0	0
##	7037	7037	0	0	0	0	0	0	0	0	0	1
##	7038	7038	0	1	0	0	0	0	0	0	0	0
##	7039	7039	0	1	0	0	0	0	0	0	0	2
##	7040	7040	0	0	0	0	0	0	0	2	0	0
##	7041	7041	0	0	0	1	0	0	0	0	0	0
##	7042	7042	0	0	0	0	0	0	0	0	1	0
##	7043	7043	0	0	0	2	0	0	0	0	0	0
##	7044	7044	0	0	0	0	0	0	0	0	0	0
##	7045	7045	0	0	0	0	0	0	0	0	0	0
##	7046	7046	0	0	0	0	0	0	0	0	0	1
##	7047	7047	0	0	0	0	0	0	0	0	0	0
##	7048	7048	0	0	0	0	0	0	0	0	0	0
##	7049	7049	0	0	0	0	1	0	0	0	0	0
##	7050	7050	0	0	0	0	0	0	0	1	0	1
##	7051	7051	0	0	0	0	0	0	0	0	0	1
##	7052	7052	0	0	0	0	0	0	0	0	0	0
##	7053	7053	0	0	0	0	0	0	0	1	0	0

##	7054	7054	0	0	1	1	1	0	0	0	0	0	0
##	7055	7055	0	1	0	0	0	0	0	0	0	0	0
##	7056	7056	0	0	0	0	0	0	0	0	0	0	0
##	7057	7057	0	0	0	0	0	0	0	1	0	0	0
##	7058	7058	0	0	0	0	0	0	0	0	0	0	0
##	7059	7059	0	0	0	0	0	1	2	0	0	0	0
##	7060	7060	0	0	0	0	0	0	0	0	0	0	0
##	7061	7061	0	1	0	0	0	0	0	0	0	0	0
##	7062	7062	0	0	0	0	0	0	2	1	0	1	0
##	7063	7063	0	0	0	1	0	0	0	0	0	0	0
##	7064	7064	0	0	1	0	0	0	0	0	0	0	0
##	7065	7065	1	0	0	0	0	0	0	0	0	0	0
##	7066	7066	0	0	0	0	0	0	0	1	1	0	0
##	7067	7067	0	0	0	1	0	0	0	0	0	0	0
##	7068	7068	0	0	0	0	0	0	0	0	0	1	0
##	7069	7069	0	0	0	0	0	0	0	0	2	0	0
##	7070	7070	0	0	0	0	0	0	0	0	0	0	0
##	7071	7071	0	0	0	1	0	0	0	0	0	0	0
##	7072	7072	0	0	0	0	0	0	0	0	0	0	0
##	7073	7073	0	0	0	1	0	0	0	0	0	0	0
##	7074	7074	0	0	0	0	0	0	0	0	0	0	0
##	7075	7075	0	0	0	0	0	0	0	0	0	0	0
##	7076	7076	0	0	0	0	0	0	0	0	0	0	1
##	7077	7077	0	0	0	0	1	0	0	0	0	0	0
##	7078	7078	1	0	0	0	0	0	0	0	0	0	0
##	7079	7079	0	1	0	0	0	0	0	0	0	0	0
##	7080	7080	0	0	0	0	0	0	1	0	0	0	0
##	7081	7081	0	0	0	0	0	0	0	0	0	0	0
##	7082	7082	0	1	0	0	0	0	0	0	0	0	0
##	7083	7083	0	0	0	0	0	0	0	0	0	0	0
##	7084	7084	0	0	0	0	0	0	0	0	0	0	0
##	7085	7085	0	0	0	0	0	0	0	0	0	0	1
##	7086	7086	0	0	0	0	0	0	0	0	0	0	1
##	7087	7087	0	0	0	0	0	0	0	0	0	0	0
##	7088	7088	0	0	0	0	0	0	1	0	0	0	0
##	7089	7089	0	0	1	0	0	0	0	0	0	0	0
##	7090	7090	0	0	0	0	0	0	0	0	0	0	0
##	7091	7091	0	0	0	0	0	0	0	0	0	0	0
##	7092	7092	0	0	0	0	0	0	0	0	0	0	0
##	7093	7093	0	0	0	0	0	0	0	0	0	0	0
##	7094	7094	0	0	0	0	0	0	0	0	0	0	1
##	7095	7095	0	0	0	0	0	1	0	0	0	0	0
##	7096	7096	0	0	0	0	0	0	0	0	0	0	0
##	7097	7097	0	0	0	0	0	0	1	0	0	0	0
##	7098	7098	0	0	0	0	0	0	0	1	0	0	0
##	7099	7099	0	0	0	0	0	0	0	1	0	0	0
##	7100	7100	0	0	0	0	0	0	0	0	0	0	1
##	7101	7101	0	0	0	1	0	0	0	0	0	0	0
##	7102	7102	0	1	0	0	0	0	0	0	0	0	0
##	7103	7103	0	0	0	0	0	0	0	0	0	0	0
##	7104	7104	0	0	0	0	0	0	0	0	0	0	0
##	7105	7105	0	0	0	0	0	0	1	0	0	0	0
##	7106	7106	1	0	0	0	0	0	0	0	0	0	0
##	7107	7107	0	0	0	0	0	0	1	0	0	0	0

## 7108	7108	0	1	0	0	0	0	0	0	0	0	0
## 7109	7109	1	0	0	0	0	0	0	0	0	0	0
## 7110	7110	0	0	0	0	0	0	0	0	0	0	0
## 7111	7111	0	0	0	0	0	0	1	0	0	0	0
## 7112	7112	0	0	1	0	0	0	0	0	0	0	0
## 7113	7113	0	0	0	1	0	0	0	0	0	0	0
## 7114	7114	0	0	0	0	0	0	0	0	0	0	1
## 7115	7115	0	1	0	0	0	0	0	0	0	0	0
## 7116	7116	0	0	0	0	0	0	0	0	0	1	0
## 7117	7117	0	0	0	0	0	0	0	0	0	0	0
## 7118	7118	0	0	0	0	0	0	0	0	0	0	0
## 7119	7119	0	0	0	0	0	0	0	0	0	0	0
## 7120	7120	0	0	0	0	0	0	0	0	0	0	1
## 7121	7121	0	0	0	0	0	0	0	0	1	0	0
## 7122	7122	0	0	0	0	0	0	1	0	0	0	0
## 7123	7123	0	0	0	0	0	0	0	0	1	0	0
## 7124	7124	0	0	0	0	0	0	0	0	0	0	0
## 7125	7125	0	0	0	0	0	0	0	0	0	0	0
## 7126	7126	0	0	0	0	0	0	0	1	0	0	0
## 7127	7127	0	1	0	0	0	0	0	0	0	0	0
## 7128	7128	0	0	0	0	0	0	0	0	0	0	0
## 7129	7129	0	0	0	1	0	0	0	0	0	0	0
## 7130	7130	0	0	0	0	0	0	0	0	0	0	0
## 7131	7131	0	0	1	0	0	0	0	0	0	0	0
## 7132	7132	0	0	0	0	0	0	0	0	0	0	0
## 7133	7133	0	0	0	0	0	0	0	0	1	0	0
## 7134	7134	0	0	0	0	0	0	0	0	0	0	0
## 7135	7135	0	0	0	0	0	0	0	0	0	0	0
## 7136	7136	0	0	1	0	0	0	0	0	0	0	0
## 7137	7137	0	0	0	0	0	0	0	0	0	0	0
## 7138	7138	0	0	0	0	0	0	0	0	0	1	0
## 7139	7139	1	0	0	0	0	0	0	0	0	0	0
## 7140	7140	0	0	0	0	0	0	0	0	0	0	1
## 7141	7141	0	1	0	0	0	0	0	0	0	0	0
## 7142	7142	0	0	0	0	0	0	0	0	0	0	0
## 7143	7143	0	0	0	0	0	0	0	0	0	0	0
## 7144	7144	1	0	0	0	0	0	0	0	0	0	0
## 7145	7145	1	0	1	0	0	0	0	0	0	0	0
## 7146	7146	0	0	0	0	0	0	0	0	0	0	0
## 7147	7147	0	0	0	0	0	0	0	0	0	0	0
## 7148	7148	0	0	0	0	0	1	0	0	0	0	0
## 7149	7149	0	1	0	0	0	0	0	0	0	0	0
## 7150	7150	0	0	0	0	0	0	0	0	0	0	0
## 7151	7151	0	0	0	0	0	0	0	0	0	0	0
## 7152	7152	0	0	0	0	0	0	0	0	0	0	0
## 7153	7153	0	0	0	0	0	0	0	0	0	0	0
## 7154	7154	0	0	0	0	0	0	0	0	0	1	0
## 7155	7155	0	1	0	0	0	0	0	0	0	0	0
## 7156	7156	0	0	0	0	1	0	0	0	0	0	0
## 7157	7157	0	0	0	0	0	0	0	0	0	0	0
## 7158	7158	0	0	0	0	0	0	0	0	0	0	0
## 7159	7159	0	0	0	0	1	0	0	0	0	0	0
## 7160	7160	0	0	0	0	0	0	0	0	0	0	0
## 7161	7161	0	0	0	0	0	0	0	0	0	0	0

## 7162 7162	0	0	0	0	0	1	0	0	0	0	0
## 7163 7163	1	0	0	0	0	0	0	0	0	0	0
## 7164 7164	0	0	0	0	0	0	0	0	0	0	0
## 7165 7165	0	0	0	0	0	0	0	0	0	0	0
## 7166 7166	0	1	0	0	0	0	0	0	0	0	0
## 7167 7167	0	0	0	0	1	0	0	0	0	0	0
## 7168 7168	0	0	0	0	0	0	0	0	0	1	0
## 7169 7169	0	0	1	0	0	0	0	0	0	0	0
## 7170 7170	0	0	0	1	0	0	0	0	0	0	0
## 7171 7171	0	0	0	0	0	0	0	0	0	0	0
## 7172 7172	0	0	0	0	0	0	0	0	0	0	0
## 7173 7173	0	0	0	0	0	0	0	0	0	0	0
## 7174 7174	0	0	0	0	0	0	0	0	0	0	0
## 7175 7175	0	0	0	0	0	0	0	0	0	0	0
## 7176 7176	0	1	0	0	0	0	0	0	0	0	0
## 7177 7177	0	0	0	0	0	0	0	0	0	0	0
## 7178 7178	0	0	0	0	0	0	0	0	0	0	0
## 7179 7179	0	0	0	0	0	0	0	0	0	0	0
## 7180 7180	0	0	0	0	0	0	0	0	0	0	0
## 7181 7181	0	0	0	0	0	0	0	0	0	0	0
## 7182 7182	0	0	0	0	0	0	0	0	0	0	0
## 7183 7183	0	0	0	0	0	0	0	0	0	0	0
## 7184 7184	0	0	0	0	0	0	0	0	0	0	0
## 7185 7185	0	0	0	0	0	0	0	0	0	0	0
## 7186 7186	0	0	0	0	0	0	0	0	0	0	0
## 7187 7187	0	0	0	0	0	0	0	0	0	0	0
## 7188 7188	0	0	0	0	0	0	1	0	0	0	0
## 7189 7189	0	0	0	0	0	0	0	0	0	0	0
## 7190 7190	0	0	0	0	0	0	0	0	0	0	0
## 7191 7191	0	0	0	0	0	0	0	0	0	0	0
## 7192 7192	0	0	0	0	0	0	1	0	0	0	0
## 7193 7193	0	0	0	0	0	0	0	0	0	0	0
## 7194 7194	0	0	0	0	0	0	0	0	0	0	0
## 7195 7195	0	0	0	0	0	0	0	0	0	0	0
## 7196 7196	0	0	0	0	0	0	0	0	0	0	0
## 7197 7197	0	0	0	0	0	0	0	0	0	1	0
## 7198 7198	0	0	0	0	0	0	0	0	0	0	1
## 7199 7199	0	0	0	0	0	0	0	0	0	0	0
## 7200 7200	0	0	0	0	0	0	0	0	0	0	0
## 7201 7201	0	0	0	0	0	0	0	0	0	0	0
## 7202 7202	0	0	0	0	0	0	0	0	0	1	0
## 7203 7203	0	0	0	0	0	0	0	0	0	0	0
## 7204 7204	0	0	0	0	0	0	0	0	0	0	0
## 7205 7205	0	0	0	0	0	0	0	1	0	0	0
## 7206 7206	0	0	0	0	0	0	1	0	0	0	0
## 7207 7207	0	0	0	0	0	0	0	0	0	0	0
## 7208 7208	0	0	0	0	0	0	0	0	0	0	0
## 7209 7209	0	0	0	0	0	0	0	0	0	0	0
## 7210 7210	0	0	0	0	0	0	0	0	0	1	0
## 7211 7211	0	0	0	0	0	1	0	0	0	0	0
## 7212 7212	0	0	1	0	0	0	0	0	0	0	0
## 7213 7213	1	0	0	1	0	0	0	0	0	0	0
## 7214 7214	0	0	1	0	0	0	0	0	0	0	0
## 7215 7215	0	0	0	0	0	1	0	0	0	0	0

## 7216	7216	0	1	0	0	0	0	0	0	0	0	0
## 7217	7217	0	0	0	0	0	0	0	0	0	0	0
## 7218	7218	0	0	0	0	0	0	0	1	0	0	0
## 7219	7219	0	0	0	0	0	0	0	0	0	0	0
## 7220	7220	0	0	0	1	0	0	0	0	0	0	0
## 7221	7221	0	0	0	0	0	0	0	0	0	0	0
## 7222	7222	0	0	1	0	0	0	0	0	0	0	0
## 7223	7223	0	0	1	0	0	0	0	0	0	0	0
## 7224	7224	0	0	0	0	0	0	0	0	0	0	1
## 7225	7225	0	0	0	0	0	0	0	1	0	0	0
## 7226	7226	0	0	0	0	0	0	0	0	0	0	0
## 7227	7227	0	0	0	0	0	0	0	0	0	0	0
## 7228	7228	0	0	0	0	0	0	0	0	1	0	0
## 7229	7229	0	0	0	0	0	0	0	0	0	0	0
## 7230	7230	0	0	0	0	0	0	0	0	2	0	0
## 7231	7231	1	0	0	0	0	0	0	0	0	0	0
## 7232	7232	0	0	0	0	0	0	0	0	0	1	0
## 7233	7233	2	0	1	0	0	0	0	0	0	0	0
## 7234	7234	0	0	0	0	1	0	0	0	0	0	0
## 7235	7235	0	0	0	0	0	0	0	0	0	0	0
## 7236	7236	0	0	0	0	0	0	0	0	0	0	0
## 7237	7237	0	0	0	0	0	0	0	0	0	0	0
## 7238	7238	0	0	1	0	0	0	0	0	0	0	0
## 7239	7239	0	0	1	0	0	0	0	0	0	0	0
## 7240	7240	0	0	0	0	0	0	0	0	0	0	0
## 7241	7241	0	0	0	0	0	0	0	0	0	0	0
## 7242	7242	0	0	0	0	1	0	0	0	0	0	0
## 7243	7243	0	0	0	0	0	0	0	0	0	0	0
## 7244	7244	0	0	0	0	0	0	0	0	0	0	0
## 7245	7245	0	0	0	0	0	0	0	0	0	0	1
## 7246	7246	0	0	0	0	0	0	0	0	0	0	0
## 7247	7247	0	0	0	0	0	0	0	0	1	0	0
## 7248	7248	0	0	0	0	0	0	0	0	1	0	0
## 7249	7249	0	0	0	0	0	0	0	0	0	0	0
## 7250	7250	0	0	1	0	0	0	0	0	0	0	0
## 7251	7251	0	0	0	0	0	1	0	0	0	0	0
## 7252	7252	0	0	0	0	1	0	0	0	0	0	0
## 7253	7253	0	0	0	0	0	0	0	0	1	0	0
## 7254	7254	0	0	1	0	0	0	0	0	0	0	0
## 7255	7255	0	0	0	1	0	0	0	0	0	0	0
## 7256	7256	0	0	0	0	0	0	1	0	0	0	0
## 7257	7257	0	0	0	0	0	0	0	0	0	0	0
## 7258	7258	0	0	0	0	1	0	0	0	0	0	0
## 7259	7259	0	0	0	0	0	0	0	0	0	0	0
## 7260	7260	0	0	0	0	0	0	0	0	0	0	0
## 7261	7261	0	1	0	0	0	0	0	0	0	0	0
## 7262	7262	0	0	0	0	0	0	1	0	0	0	0
## 7263	7263	0	0	0	0	0	0	0	0	0	0	0
## 7264	7264	0	0	0	0	0	0	0	0	0	0	0
## 7265	7265	0	0	0	0	0	0	0	0	0	0	0
## 7266	7266	0	0	0	0	0	0	0	0	0	0	0
## 7267	7267	0	0	0	0	0	0	0	0	0	0	0
## 7268	7268	0	0	0	0	0	0	1	0	0	0	0
## 7269	7269	0	0	0	0	0	0	0	0	0	0	0

## 7270	7270	0	0	1	0	0	0	0	0	0	0	0
## 7271	7271	0	0	1	0	0	0	0	0	0	0	0
## 7272	7272	0	0	1	0	0	0	0	0	0	0	0
## 7273	7273	0	0	0	0	0	0	0	0	0	0	0
## 7274	7274	0	1	0	0	0	0	0	1	0	0	0
## 7275	7275	0	0	0	0	0	0	0	0	0	0	0
## 7276	7276	0	1	0	0	0	0	0	0	0	0	0
## 7277	7277	0	0	0	0	0	0	0	0	0	0	0
## 7278	7278	0	0	0	0	0	0	0	0	0	0	0
## 7279	7279	0	1	0	0	0	0	0	0	0	0	0
## 7280	7280	1	0	0	0	0	0	0	0	0	0	0
## 7281	7281	0	0	0	0	0	0	0	0	0	0	0
## 7282	7282	0	0	0	0	0	0	0	0	1	0	0
## 7283	7283	0	0	0	0	0	0	1	0	0	0	0
## 7284	7284	0	0	0	0	0	1	0	0	1	0	0
## 7285	7285	0	0	0	0	0	0	0	0	0	0	0
## 7286	7286	0	1	0	0	0	0	0	0	0	0	0
## 7287	7287	0	0	0	1	0	0	0	0	0	0	0
## 7288	7288	0	0	0	0	1	0	0	0	0	0	0
## 7289	7289	0	0	1	0	0	0	0	0	0	0	0
## 7290	7290	0	0	0	0	0	1	0	0	0	0	0
## 7291	7291	0	0	0	0	0	0	0	0	0	0	0
## 7292	7292	0	0	0	0	0	0	0	0	0	0	0
## 7293	7293	0	0	0	0	0	0	0	0	0	0	0
## 7294	7294	0	0	0	0	1	0	0	0	0	0	0
## 7295	7295	0	0	0	0	0	0	0	0	0	0	0
## 7296	7296	0	0	0	0	0	0	0	0	0	0	0
## 7297	7297	1	0	0	0	0	0	0	0	0	0	0
## 7298	7298	0	0	0	0	0	0	0	0	0	0	0
## 7299	7299	0	0	0	0	0	0	0	0	0	0	0
## 7300	7300	0	1	0	0	0	0	0	0	0	0	0
## 7301	7301	0	0	0	0	0	0	0	0	0	0	0
## 7302	7302	0	0	0	1	0	0	0	0	0	0	0
## 7303	7303	0	0	0	0	0	1	0	0	0	0	0
## 7304	7304	0	0	0	0	0	0	0	0	0	0	0
## 7305	7305	0	0	0	0	0	0	0	0	0	0	0
## 7306	7306	0	0	0	0	0	0	0	0	0	0	0
## 7307	7307	0	0	0	0	1	0	0	0	0	0	0
## 7308	7308	0	0	1	0	0	0	0	0	0	0	0
## 7309	7309	0	0	1	0	0	0	0	0	0	0	0
## 7310	7310	0	0	0	0	0	0	0	0	0	0	0
## 7311	7311	0	0	0	0	0	0	1	0	0	0	0
## 7312	7312	0	0	0	1	0	0	0	0	0	0	0
## 7313	7313	0	0	0	0	0	0	0	0	0	0	0
## 7314	7314	0	0	1	0	0	0	0	0	0	0	0
## 7315	7315	0	0	0	0	0	0	1	0	0	0	0
## 7316	7316	0	0	0	0	0	0	0	0	0	0	0
## 7317	7317	0	0	0	0	0	0	1	0	0	0	0
## 7318	7318	0	0	0	0	0	0	0	0	0	0	0
## 7319	7319	0	0	0	0	0	0	0	0	0	0	0
## 7320	7320	0	0	0	0	0	0	0	0	0	0	0
## 7321	7321	0	0	0	0	0	0	1	0	0	0	0
## 7322	7322	0	0	0	0	0	0	0	0	0	0	1
## 7323	7323	0	0	1	0	0	0	0	0	0	0	0

## 7324 7324	0	1	0	0	0	0	0	0	0	0	0
## 7325 7325	0	0	0	0	0	0	0	0	0	0	0
## 7326 7326	0	0	0	0	0	0	0	0	0	0	0
## 7327 7327	0	0	0	0	0	0	0	0	0	0	0
## 7328 7328	0	0	0	0	0	0	1	0	0	0	0
## 7329 7329	0	1	0	0	0	0	0	0	0	0	0
## 7330 7330	0	0	0	0	0	0	0	0	0	0	0
## 7331 7331	0	0	0	0	0	0	0	0	0	0	0
## 7332 7332	0	0	0	0	0	0	0	0	0	0	0
## 7333 7333	0	0	0	0	0	0	1	0	0	0	0
## 7334 7334	1	0	0	0	0	0	0	0	0	0	0
## 7335 7335	1	0	0	0	0	0	0	0	0	0	0
## 7336 7336	0	0	0	0	0	0	0	0	0	0	0
## 7337 7337	0	0	1	0	0	0	0	0	0	0	0
## 7338 7338	0	1	0	0	0	0	0	0	0	0	0
## 7339 7339	0	0	0	0	0	0	0	0	0	0	0
## 7340 7340	0	0	0	0	0	0	0	0	0	0	0
## 7341 7341	0	0	0	0	0	0	0	0	0	0	0
## 7342 7342	0	0	1	0	0	0	0	0	0	0	0
## 7343 7343	0	0	0	0	0	0	0	0	0	1	0
## 7344 7344	0	1	0	0	1	0	1	0	0	0	0
## 7345 7345	0	1	0	0	0	0	0	0	0	0	0
## 7346 7346	0	0	0	0	0	0	0	0	0	0	0
## 7347 7347	0	0	0	0	0	0	0	0	0	0	1
## 7348 7348	0	0	0	0	0	0	0	0	0	0	0
## 7349 7349	0	0	0	0	0	0	0	0	0	0	0
## 7350 7350	1	0	0	0	0	0	0	1	0	0	0
## 7351 7351	0	0	0	0	0	0	0	0	0	0	0
## 7352 7352	0	0	0	1	0	0	0	0	0	0	0
## 7353 7353	0	1	0	1	0	0	0	0	0	0	0
## 7354 7354	0	0	0	0	0	0	1	0	0	0	0
## 7355 7355	0	0	0	0	1	0	0	1	0	0	0
## 7356 7356	0	0	0	0	1	0	0	0	0	0	0
## 7357 7357	2	0	0	0	0	0	0	0	0	0	0
## 7358 7358	0	0	0	0	0	0	0	0	0	0	0
## 7359 7359	0	0	0	0	0	0	0	1	0	0	0
## 7360 7360	0	0	0	0	0	0	0	0	0	0	0
## 7361 7361	0	1	0	0	0	0	0	0	0	0	0
## 7362 7362	0	0	0	0	0	0	0	0	0	0	0
## 7363 7363	0	0	0	0	0	0	0	0	0	0	0
## 7364 7364	0	0	0	0	0	0	0	0	0	0	0
## 7365 7365	0	0	0	0	0	0	0	0	0	0	1
## 7366 7366	0	0	0	0	0	0	0	0	1	0	0
## 7367 7367	0	0	0	1	0	0	0	0	0	0	0
## 7368 7368	0	0	0	0	0	0	0	0	0	1	0
## 7369 7369	1	0	0	0	0	0	0	0	0	0	0
## 7370 7370	1	0	0	0	0	0	0	0	0	0	0
## 7371 7371	0	0	0	0	0	0	0	0	0	0	0
## 7372 7372	0	0	0	0	0	0	0	0	0	0	0
## 7373 7373	0	0	1	0	0	0	0	0	0	0	0
## 7374 7374	0	0	0	0	0	0	0	0	0	0	0
## 7375 7375	0	0	0	0	0	0	0	0	0	0	0
## 7376 7376	0	0	0	0	0	0	0	0	0	0	0
## 7377 7377	0	0	0	1	0	0	0	0	0	0	0

## 7378	7378	0	0	0	1	0	0	0	0	0	0	0
## 7379	7379	0	0	0	0	0	0	0	0	1	0	0
## 7380	7380	0	0	0	0	0	0	0	0	0	0	0
## 7381	7381	0	0	0	1	0	0	0	0	0	0	0
## 7382	7382	0	0	0	0	0	0	0	0	0	0	0
## 7383	7383	0	0	0	0	0	0	0	0	0	0	0
## 7384	7384	1	0	0	0	0	0	0	0	0	0	0
## 7385	7385	0	0	0	1	0	0	0	0	0	0	0
## 7386	7386	0	0	0	1	0	0	0	0	0	0	0
## 7387	7387	0	0	0	0	0	1	0	0	0	0	0
## 7388	7388	0	0	1	0	0	0	0	0	0	0	0
## 7389	7389	1	0	1	0	0	0	0	0	0	0	0
## 7390	7390	0	1	0	0	0	0	0	0	0	0	0
## 7391	7391	0	0	0	0	0	0	0	0	0	0	0
## 7392	7392	0	0	0	1	0	0	0	0	0	0	0
## 7393	7393	0	0	1	0	0	0	0	0	0	0	0
## 7394	7394	0	0	0	0	0	0	1	0	0	0	0
## 7395	7395	0	0	0	0	0	0	0	0	0	0	0
## 7396	7396	0	1	0	0	0	0	0	0	0	0	0
## 7397	7397	0	0	0	0	0	0	0	0	0	0	0
## 7398	7398	0	0	0	0	0	0	0	0	0	0	0
## 7399	7399	0	0	0	0	0	0	0	0	0	0	0
## 7400	7400	1	0	0	0	0	0	0	0	0	0	0
## 7401	7401	0	0	0	0	0	0	2	0	0	0	0
## 7402	7402	0	0	0	0	0	0	0	0	0	0	0
## 7403	7403	0	0	0	0	1	0	0	0	0	0	0
## 7404	7404	0	0	0	0	0	0	0	0	0	0	0
## 7405	7405	0	0	0	0	0	0	0	0	0	0	0
## 7406	7406	1	0	0	0	0	0	0	0	0	0	0
## 7407	7407	0	0	0	0	0	0	0	0	0	0	0
## 7408	7408	0	0	0	0	0	0	0	0	0	0	0
## 7409	7409	0	0	0	0	0	0	0	0	0	0	0
## 7410	7410	0	0	0	0	0	0	0	0	0	1	0
## 7411	7411	0	0	0	0	0	0	0	0	0	0	0
## 7412	7412	0	0	0	0	0	0	0	0	0	0	0
## 7413	7413	0	0	1	0	0	0	0	0	0	0	0
## 7414	7414	0	0	0	1	0	0	0	0	0	0	0
## 7415	7415	0	1	0	0	0	0	0	0	0	0	0
## 7416	7416	0	0	0	0	0	0	0	0	0	0	0
## 7417	7417	0	0	1	0	0	0	0	0	0	0	0
## 7418	7418	0	0	0	1	0	0	0	0	0	0	0
## 7419	7419	0	1	0	0	0	0	0	0	0	0	0
## 7420	7420	0	0	0	0	0	0	0	0	0	0	0
## 7421	7421	1	0	0	0	0	0	0	0	0	0	0
## 7422	7422	0	0	0	0	0	0	0	0	0	0	0
## 7423	7423	0	0	0	0	0	1	0	0	0	0	0
## 7424	7424	0	0	0	0	0	0	0	0	0	0	0
## 7425	7425	0	0	0	0	0	0	0	0	0	0	0
## 7426	7426	0	0	0	0	0	0	0	0	0	0	0
## 7427	7427	0	0	0	0	0	0	0	0	0	0	0
## 7428	7428	0	0	0	0	0	0	0	0	0	0	0
## 7429	7429	0	0	0	0	0	0	0	0	0	0	1
## 7430	7430	0	0	0	0	0	0	1	0	0	0	0
## 7431	7431	0	0	0	0	0	0	1	0	0	0	0

## 7432	7432	0	0	0	1	0	0	0	0	0	0	0
## 7433	7433	1	0	0	1	0	0	0	0	0	0	0
## 7434	7434	0	0	0	0	0	0	0	1	0	0	0
## 7435	7435	0	0	0	0	0	0	0	0	0	0	0
## 7436	7436	0	0	1	0	0	0	0	1	0	0	0
## 7437	7437	0	0	0	0	0	0	0	0	0	0	0
## 7438	7438	0	0	0	0	0	0	0	0	0	0	0
## 7439	7439	0	0	0	0	0	0	0	0	0	1	0
## 7440	7440	0	0	0	0	0	0	0	0	0	0	0
## 7441	7441	0	0	0	0	1	0	0	0	0	0	0
## 7442	7442	0	0	0	0	0	0	0	0	0	0	0
## 7443	7443	0	0	0	0	0	0	0	0	0	0	0
## 7444	7444	0	0	0	0	0	0	0	0	0	0	0
## 7445	7445	0	0	0	0	0	0	0	0	0	0	0
## 7446	7446	0	0	0	0	0	0	0	0	0	0	0
## 7447	7447	0	0	0	0	0	0	0	0	0	0	0
## 7448	7448	0	0	0	0	0	0	0	0	0	0	0
## 7449	7449	0	0	0	0	0	0	0	0	0	0	0
## 7450	7450	0	0	1	0	0	0	0	0	0	0	0
## 7451	7451	0	0	0	0	0	0	1	0	0	0	0
## 7452	7452	0	0	0	0	0	0	0	1	0	0	0
## 7453	7453	0	0	0	0	0	0	0	0	0	0	0
## 7454	7454	0	0	0	0	0	0	0	0	0	0	0
## 7455	7455	0	1	0	0	0	0	0	0	0	0	0
## 7456	7456	0	0	0	0	0	0	0	0	0	0	0
## 7457	7457	0	0	0	0	0	0	1	0	0	0	0
## 7458	7458	0	0	1	0	0	0	0	0	0	0	0
## 7459	7459	0	0	0	0	0	0	0	0	0	0	0
## 7460	7460	0	0	0	0	0	0	0	0	0	0	0
## 7461	7461	0	0	1	0	0	0	0	0	0	0	0
## 7462	7462	0	0	0	0	0	0	0	0	1	0	0
## 7463	7463	0	0	0	0	0	0	0	0	0	0	0
## 7464	7464	0	0	0	0	0	0	0	1	0	0	0
## 7465	7465	0	0	0	0	0	0	0	0	0	0	0
## 7466	7466	0	0	0	0	0	0	0	0	0	1	0
## 7467	7467	0	0	0	0	0	0	0	0	0	0	0
## 7468	7468	0	0	1	0	0	0	0	0	0	0	0
## 7469	7469	0	0	0	0	0	0	0	0	1	0	0
## 7470	7470	0	0	1	0	0	0	0	0	0	0	0
## 7471	7471	0	0	0	0	1	0	0	0	0	0	0
## 7472	7472	0	0	0	0	0	0	0	0	0	0	0
## 7473	7473	0	0	0	0	0	0	0	0	0	0	0
## 7474	7474	1	0	0	0	0	0	0	0	0	0	0
## 7475	7475	0	0	1	0	0	0	0	0	0	0	0
## 7476	7476	0	0	0	0	0	0	0	0	0	0	1
## 7477	7477	0	1	0	0	0	0	0	0	0	0	0
## 7478	7478	0	0	0	0	0	0	0	0	0	0	1
## 7479	7479	0	0	0	1	0	0	0	0	0	0	0
## 7480	7480	0	0	0	0	1	0	0	0	0	0	0
## 7481	7481	0	0	0	0	0	0	0	0	0	0	0
## 7482	7482	0	0	0	0	0	0	0	0	0	0	0
## 7483	7483	0	0	0	1	0	0	0	0	0	0	0
## 7484	7484	0	0	0	0	0	0	1	0	0	0	0
## 7485	7485	0	0	0	0	0	0	0	0	0	0	0

## 7486	7486	0	0	0	1	0	0	0	0	0	0	0
## 7487	7487	0	0	0	0	0	0	1	0	0	0	0
## 7488	7488	0	0	0	0	0	0	0	0	0	0	0
## 7489	7489	0	0	1	0	0	0	0	0	0	0	0
## 7490	7490	0	0	0	0	0	0	0	1	0	0	0
## 7491	7491	0	0	1	0	0	0	0	0	0	0	0
## 7492	7492	0	0	0	0	0	0	0	0	0	0	0
## 7493	7493	0	0	0	0	0	0	0	0	0	0	0
## 7494	7494	0	0	0	0	0	0	0	0	0	0	0
## 7495	7495	0	0	0	0	0	0	0	1	0	0	0
## 7496	7496	0	0	0	0	0	0	1	0	0	0	0
## 7497	7497	0	0	0	0	0	0	0	0	0	0	0
## 7498	7498	0	0	0	0	1	0	0	0	0	0	0
## 7499	7499	0	0	0	0	0	0	1	0	0	0	0
## 7500	7500	0	0	0	0	0	0	0	0	0	0	1
## 7501	7501	0	0	0	0	0	0	0	0	0	0	1
## 7502	7502	0	0	0	0	0	0	1	0	0	0	0
## 7503	7503	0	0	0	0	0	0	0	0	0	0	0
## 7504	7504	0	2	0	0	0	0	0	0	0	0	0
## 7505	7505	0	0	0	0	0	0	0	0	0	0	0
## 7506	7506	0	0	0	0	0	0	0	0	0	0	0
## 7507	7507	0	0	0	0	0	0	0	0	0	0	0
## 7508	7508	0	1	0	0	0	0	0	0	0	0	0
## 7509	7509	0	0	0	0	0	0	0	0	0	0	0
## 7510	7510	0	0	0	0	0	0	0	0	0	0	0
## 7511	7511	1	0	0	0	0	0	0	0	0	0	0
## 7512	7512	1	0	0	0	0	0	0	0	0	0	0
## 7513	7513	0	0	0	0	0	0	0	0	0	0	0
## 7514	7514	0	0	0	0	0	0	0	0	0	0	0
## 7515	7515	0	0	0	0	0	0	0	0	0	0	0
## 7516	7516	0	1	0	0	0	0	0	0	0	0	0
## 7517	7517	0	1	0	0	0	0	0	0	0	0	0
## 7518	7518	1	0	0	0	0	0	0	0	0	0	0
## 7519	7519	1	0	0	0	0	0	0	0	0	0	0
## 7520	7520	0	0	0	0	0	0	1	0	0	0	0
## 7521	7521	1	0	0	0	0	0	0	0	0	0	0
## 7522	7522	0	0	0	0	0	0	1	0	0	0	0
## 7523	7523	0	0	0	0	0	0	1	0	0	0	0
## 7524	7524	0	0	0	0	0	0	0	0	1	0	0
## 7525	7525	0	0	0	0	0	0	0	0	0	0	0
## 7526	7526	0	0	0	0	0	0	0	1	0	0	0
## 7527	7527	0	0	0	0	0	0	0	0	0	0	0
## 7528	7528	0	0	0	0	1	0	0	0	0	0	0
## 7529	7529	0	0	0	0	0	2	0	1	0	0	0
## 7530	7530	0	0	0	0	0	0	0	0	0	0	0
## 7531	7531	0	0	0	0	0	0	0	1	0	0	0
## 7532	7532	0	0	1	0	0	0	0	0	0	0	0
## 7533	7533	0	0	0	0	0	0	0	0	0	0	1
## 7534	7534	0	0	0	0	0	0	0	0	0	0	0
## 7535	7535	0	0	0	0	0	0	0	0	0	0	0
## 7536	7536	0	0	0	0	0	0	0	0	0	0	0
## 7537	7537	0	0	0	0	1	0	0	1	0	0	0
## 7538	7538	0	0	0	0	0	0	0	0	0	0	0
## 7539	7539	0	0	0	0	0	0	0	0	0	0	0

## 7540	7540	0	0	1	0	0	0	0	0	0	0	0
## 7541	7541	1	0	0	0	0	0	0	0	0	0	0
## 7542	7542	0	0	0	0	0	0	0	0	0	0	0
## 7543	7543	0	0	0	0	0	0	0	0	0	1	0
## 7544	7544	0	0	0	0	0	0	0	0	0	0	0
## 7545	7545	0	0	0	0	0	0	0	0	0	0	0
## 7546	7546	0	0	0	0	0	0	1	0	0	0	0
## 7547	7547	0	0	0	0	0	0	0	0	0	0	0
## 7548	7548	0	1	0	0	0	0	0	0	0	0	0
## 7549	7549	0	0	0	0	0	0	0	0	0	0	0
## 7550	7550	0	0	0	0	0	0	0	0	0	0	1
## 7551	7551	0	0	0	0	0	0	1	0	0	0	0
## 7552	7552	0	0	0	0	0	0	0	0	0	0	0
## 7553	7553	0	0	0	0	0	0	1	0	0	0	0
## 7554	7554	0	0	0	0	0	0	0	0	0	0	0
## 7555	7555	0	0	0	0	0	0	0	3	0	0	0
## 7556	7556	0	0	0	0	0	0	0	0	0	0	0
## 7557	7557	0	0	1	0	0	0	0	0	0	0	0
## 7558	7558	0	0	0	0	0	0	0	0	0	0	0
## 7559	7559	0	0	0	0	0	0	0	0	0	0	0
## 7560	7560	0	1	0	0	0	0	0	0	0	0	0
## 7561	7561	0	0	0	0	0	0	0	0	1	0	0
## 7562	7562	0	1	0	0	0	0	0	0	0	0	0
## 7563	7563	0	1	0	0	0	0	0	0	0	0	0
## 7564	7564	0	0	0	1	0	0	0	0	0	0	0
## 7565	7565	0	0	0	0	0	0	0	2	0	0	0
## 7566	7566	0	0	0	0	0	0	0	0	0	0	0
## 7567	7567	0	0	0	0	0	0	0	0	0	0	0
## 7568	7568	0	0	0	0	0	0	1	0	0	0	0
## 7569	7569	0	0	0	0	0	0	0	1	0	0	0
## 7570	7570	0	1	0	1	0	0	0	0	0	0	0
## 7571	7571	0	0	0	0	0	0	0	0	0	0	0
## 7572	7572	0	0	0	0	0	0	0	0	0	0	0
## 7573	7573	0	0	0	0	0	1	0	0	0	0	0
## 7574	7574	0	0	0	0	0	0	0	0	1	0	0
## 7575	7575	1	0	0	0	0	0	0	0	0	0	0
## 7576	7576	0	0	0	0	0	0	0	1	0	0	0
## 7577	7577	0	0	0	0	0	0	0	0	0	0	0
## 7578	7578	0	0	0	0	0	0	0	0	0	0	0
## 7579	7579	0	0	0	0	0	0	0	0	0	0	0
## 7580	7580	0	0	0	0	0	0	0	1	0	0	0
## 7581	7581	0	0	0	0	0	0	0	0	1	0	0
## 7582	7582	0	0	0	0	1	0	0	0	0	0	0
## 7583	7583	0	0	0	0	0	0	0	0	0	0	0
## 7584	7584	0	0	0	0	0	0	0	0	0	0	0
## 7585	7585	0	0	0	0	0	0	0	0	0	0	0
## 7586	7586	0	0	0	0	0	0	0	0	0	0	1
## 7587	7587	0	0	0	0	0	0	0	0	0	0	0
## 7588	7588	0	0	0	0	0	0	1	0	0	0	0
## 7589	7589	0	0	0	0	0	0	0	0	0	0	0
## 7590	7590	0	0	0	0	0	0	1	0	0	0	0
## 7591	7591	0	0	0	0	0	0	0	0	0	1	0
## 7592	7592	0	0	0	0	0	0	1	1	0	0	0
## 7593	7593	0	0	0	1	0	0	0	0	0	0	0

## 7594 7594	0	0	0	0	0	0	0	0	0	0	0
## 7595 7595	0	0	0	0	0	0	0	0	0	0	0
## 7596 7596	0	0	0	0	0	0	0	0	0	0	0
## 7597 7597	0	0	0	1	0	0	0	0	0	0	0
## 7598 7598	0	1	0	0	0	0	0	0	0	0	0
## 7599 7599	1	0	0	0	0	0	0	0	0	0	0
## 7600 7600	1	0	0	0	0	0	0	0	0	0	0
## 7601 7601	0	0	1	0	0	0	0	0	0	0	0
## 7602 7602	0	0	0	0	0	0	0	0	1	0	0
## 7603 7603	0	0	0	0	0	0	0	0	0	0	0
## 7604 7604	0	0	0	0	0	0	0	0	0	0	1
## 7605 7605	0	0	0	0	0	0	0	0	0	0	0
## 7606 7606	0	0	0	0	0	0	0	0	0	0	0
## 7607 7607	0	0	0	0	0	0	0	0	0	0	0
## 7608 7608	0	0	0	0	0	0	0	0	0	0	0
## 7609 7609	0	0	0	0	2	0	0	0	0	0	0
## 7610 7610	0	0	0	0	0	0	1	0	0	0	0
## 7611 7611	0	0	0	1	0	0	0	0	0	0	0
## 7612 7612	0	0	1	0	0	0	0	0	0	0	0
## 7613 7613	0	0	0	0	0	0	0	0	0	1	0
## 7614 7614	0	0	0	0	0	0	0	0	0	0	0
## 7615 7615	0	0	0	0	0	0	0	0	1	0	0
## 7616 7616	0	0	0	0	0	0	1	0	0	0	0
## 7617 7617	0	0	0	0	1	0	0	0	0	0	0
## 7618 7618	0	0	0	0	0	0	1	0	0	0	0
## 7619 7619	0	0	1	0	0	0	0	0	0	0	0
## 7620 7620	0	0	0	0	0	0	1	0	0	0	0
## 7621 7621	0	0	0	0	0	0	0	0	0	0	0
## 7622 7622	0	0	0	0	0	0	0	0	0	0	0
## 7623 7623	0	0	0	0	0	0	0	0	0	0	0
## 7624 7624	0	0	0	0	0	0	0	0	0	0	0
## 7625 7625	0	0	0	0	0	0	0	0	0	0	0
## 7626 7626	0	0	0	0	1	0	0	0	0	0	0
## 7627 7627	1	0	0	0	0	0	0	0	0	0	0
## 7628 7628	0	0	0	0	1	0	0	0	0	0	0
## 7629 7629	0	0	0	1	0	0	0	1	0	0	0
## 7630 7630	0	0	0	0	0	0	0	0	0	0	0
## 7631 7631	0	0	0	0	0	0	0	0	0	0	0
## 7632 7632	0	0	0	1	0	0	0	0	0	0	0
## 7633 7633	0	0	0	0	0	0	0	0	0	0	0
## 7634 7634	0	0	0	0	0	1	0	0	0	0	0
## 7635 7635	0	0	0	0	1	0	0	0	0	0	0
## 7636 7636	1	1	0	0	0	0	0	0	0	0	0
## 7637 7637	0	0	0	0	0	0	1	0	0	0	0
## 7638 7638	0	0	0	0	0	0	0	0	0	1	0
## 7639 7639	0	0	0	0	0	0	0	0	0	0	0
## 7640 7640	0	0	0	0	0	0	0	0	0	0	0
## 7641 7641	0	0	0	0	0	0	0	0	0	0	1
## 7642 7642	0	0	0	0	0	0	0	1	0	0	0
## 7643 7643	0	0	0	0	0	0	0	0	0	0	0
## 7644 7644	0	0	1	0	0	0	0	0	0	0	0
## 7645 7645	0	0	0	0	0	0	0	0	0	0	0
## 7646 7646	0	0	0	1	0	0	0	0	0	0	0
## 7647 7647	0	0	0	1	0	0	0	0	0	0	0

## 7648 7648	0	0	0	0	0	0	0	0	0	0	0
## 7649 7649	0	0	0	0	0	0	0	0	0	0	0
## 7650 7650	0	0	0	0	0	1	0	0	0	0	0
## 7651 7651	0	0	0	0	0	0	0	0	0	0	0
## 7652 7652	0	0	0	0	0	0	0	0	0	0	0
## 7653 7653	0	0	0	0	1	0	0	0	0	0	0
## 7654 7654	0	0	0	0	1	0	0	0	0	0	0
## 7655 7655	0	0	0	0	0	0	0	0	0	0	0
## 7656 7656	0	0	0	0	1	0	0	0	0	0	0
## 7657 7657	0	0	0	0	0	0	0	0	0	0	0
## 7658 7658	1	0	0	0	0	0	0	0	0	0	0
## 7659 7659	0	0	0	0	0	0	1	0	0	0	0
## 7660 7660	0	0	0	0	0	0	0	1	0	0	0
## 7661 7661	0	0	0	0	0	0	0	0	1	0	0
## 7662 7662	0	0	0	0	0	0	0	0	0	0	0
## 7663 7663	0	0	0	0	0	0	0	0	0	0	0
## 7664 7664	0	1	0	0	0	0	0	0	0	0	0
## 7665 7665	0	0	0	1	0	0	0	0	0	0	0
## 7666 7666	0	0	0	2	0	0	0	0	0	0	0
## 7667 7667	0	0	0	0	0	0	0	0	0	0	1
## 7668 7668	0	0	0	0	0	0	0	0	1	0	0
## 7669 7669	0	0	0	0	0	0	0	0	0	0	0
## 7670 7670	0	0	0	0	0	0	0	0	0	0	0
## 7671 7671	0	0	1	0	0	0	0	0	0	0	0
## 7672 7672	0	0	0	0	0	0	0	0	0	0	0
## 7673 7673	1	0	0	0	0	0	0	0	0	0	0
## 7674 7674	0	0	0	0	0	0	0	0	0	0	1
## 7675 7675	0	0	0	0	0	0	1	0	0	0	0
## 7676 7676	0	0	0	0	0	0	0	0	0	0	0
## 7677 7677	0	0	1	0	0	0	0	0	0	0	0
## 7678 7678	0	0	0	0	0	0	0	0	0	0	0
## 7679 7679	0	0	0	1	0	0	0	0	0	0	0
## 7680 7680	0	0	0	0	0	0	0	0	0	0	0
## 7681 7681	0	0	0	0	0	0	0	0	0	0	0
## 7682 7682	0	0	0	0	0	0	0	1	0	1	0
## 7683 7683	1	0	0	0	0	0	0	0	0	0	0
## 7684 7684	0	0	0	0	0	0	0	0	0	0	1
## 7685 7685	0	0	0	0	0	0	0	0	0	0	0
## 7686 7686	0	0	0	0	0	0	0	0	1	0	0
## 7687 7687	0	0	0	0	0	0	1	0	0	0	0
## 7688 7688	0	0	0	0	0	0	1	0	0	0	0
## 7689 7689	0	0	0	3	0	0	0	0	0	0	0
## 7690 7690	0	0	0	0	0	0	0	0	0	0	0
## 7691 7691	0	0	0	0	0	2	0	0	0	0	0
## 7692 7692	0	0	0	0	0	0	1	0	0	0	0
## 7693 7693	0	0	0	0	0	0	0	0	0	0	0
## 7694 7694	0	0	0	0	0	1	0	0	0	0	0
## 7695 7695	0	0	0	0	1	0	0	0	0	0	0
## 7696 7696	1	0	0	0	0	0	0	0	0	0	0
## 7697 7697	0	0	0	0	0	0	1	0	0	0	0
## 7698 7698	0	0	0	0	0	0	0	0	0	0	0
## 7699 7699	0	0	0	0	0	0	0	0	0	0	0
## 7700 7700	0	0	0	0	0	0	0	0	0	0	1
## 7701 7701	0	0	0	1	0	0	0	0	0	0	0

## 7702 7702	0	0	0	0	1	0	1	0	0	0	0
## 7703 7703	0	0	0	0	0	0	0	0	0	0	0
## 7704 7704	0	0	1	0	0	0	0	0	0	0	0
## 7705 7705	0	0	0	0	0	0	0	2	0	0	0
## 7706 7706	0	0	0	0	0	0	0	0	0	0	0
## 7707 7707	0	0	0	0	1	0	0	0	0	0	0
## 7708 7708	0	1	0	0	0	0	0	0	0	0	0
## 7709 7709	0	0	0	0	0	0	0	0	0	1	0
## 7710 7710	0	0	0	0	0	0	0	0	0	0	0
## 7711 7711	0	0	0	0	0	0	1	0	0	1	0
## 7712 7712	0	0	0	0	0	0	0	0	2	0	0
## 7713 7713	0	0	0	0	0	0	0	0	0	0	0
## 7714 7714	0	0	0	0	0	0	0	0	0	0	1
## 7715 7715	0	0	0	0	1	0	0	0	0	0	0
## 7716 7716	0	0	0	0	0	0	0	0	0	0	0
## 7717 7717	0	0	0	0	0	0	0	0	0	0	0
## 7718 7718	0	0	0	0	0	0	1	0	0	0	0
## 7719 7719	0	1	0	1	0	0	0	0	0	0	0
## 7720 7720	0	0	0	0	0	0	0	0	0	0	0
## 7721 7721	0	0	0	0	0	0	0	0	0	0	0
## 7722 7722	0	1	0	0	0	0	0	0	0	0	0
## 7723 7723	0	0	0	0	0	0	0	0	0	0	0
## 7724 7724	0	0	0	0	0	0	0	1	0	0	0
## 7725 7725	0	0	0	0	0	0	0	0	0	0	0
## 7726 7726	0	1	0	0	0	0	0	0	0	0	0
## 7727 7727	0	0	0	0	0	0	1	0	0	0	0
## 7728 7728	1	0	0	0	0	0	0	0	0	0	0
## 7729 7729	1	0	0	0	0	0	0	0	0	0	0
## 7730 7730	0	0	0	0	0	0	0	0	0	0	0
## 7731 7731	0	0	0	0	0	0	0	0	0	1	0
## 7732 7732	0	0	0	0	0	0	0	0	0	0	0
## 7733 7733	0	0	0	0	0	0	0	0	0	0	0
## 7734 7734	0	0	0	0	0	0	1	0	0	0	0
## 7735 7735	0	0	0	0	1	0	0	0	0	0	0
## 7736 7736	0	0	0	0	1	0	0	0	0	0	0
## 7737 7737	0	0	0	0	0	1	0	0	0	0	0
## 7738 7738	0	0	0	0	0	0	0	0	0	0	0
## 7739 7739	0	0	0	0	0	0	1	0	0	0	0
## 7740 7740	0	0	0	0	0	0	0	0	0	0	0
## 7741 7741	0	1	0	0	0	0	0	0	0	0	0
## 7742 7742	0	0	0	0	0	0	0	0	0	0	0
## 7743 7743	0	0	0	1	0	0	0	0	0	0	0
## 7744 7744	0	0	0	0	0	0	0	0	0	0	0
## 7745 7745	0	0	0	0	0	0	0	0	0	0	0
## 7746 7746	0	0	0	0	0	0	0	0	0	0	0
## 7747 7747	0	0	0	0	0	0	0	0	0	0	0
## 7748 7748	0	0	0	0	0	0	0	0	0	0	0
## 7749 7749	0	0	0	0	0	0	0	0	0	0	0
## 7750 7750	0	0	0	0	0	0	0	0	0	0	0
## 7751 7751	0	0	0	0	0	0	0	0	0	0	0
## 7752 7752	0	0	0	0	0	0	0	0	0	0	0
## 7753 7753	0	0	0	0	0	0	0	0	0	0	0
## 7754 7754	0	0	0	0	2	0	0	0	0	0	0
## 7755 7755	0	0	0	0	1	0	0	0	0	0	0

```

## 7756 7756 0 0 0 0 0 0 0 0 0 0 0 0
## 7757 7757 1 0 0 0 0 0 0 0 0 0 0 0
## 7758 7758 0 0 0 0 0 0 0 0 0 0 0 0
## 7759 7759 0 0 0 0 0 0 0 0 0 0 0 0
## 7760 7760 0 0 0 0 0 0 0 0 0 0 0 0
## 7761 7761 0 0 0 0 0 0 0 0 0 0 0 0
## 7762 7762 0 0 0 0 0 0 0 0 0 0 0 0
## 7763 7763 0 0 0 0 0 0 0 0 0 0 0 0
## 7764 7764 0 0 0 0 0 0 0 0 0 0 0 0
## 7765 7765 0 0 0 0 0 0 0 0 0 0 0 0
## 7766 7766 0 0 0 0 0 0 0 0 0 0 0 0
## 7767 7767 0 0 0 0 0 0 0 0 0 0 0 0
## 7768 7768 0 0 0 0 0 0 0 0 1 0 0 0
## 7769 7769 0 0 0 0 0 0 0 0 0 1 0 0
## 7770 7770 0 0 0 0 0 0 0 0 0 0 0 0
## 7771 7771 0 0 0 0 0 0 1 0 0 0 0 0
## 7772 7772 0 0 0 0 0 0 0 0 0 0 0 0
## 7773 7773 0 1 0 0 0 0 0 0 0 0 0 0
## 7774 7774 0 0 1 0 0 0 0 0 0 0 0 0
## 7775 7775 0 0 0 0 0 0 0 0 0 0 1 0
## 7776 7776 0 0 0 0 0 0 0 0 0 0 3 0
## 7777 7777 0 0 1 0 0 0 0 0 0 0 0 0
## 7778 7778 1 0 0 0 0 0 0 0 0 0 0 0
## 7779 7779 0 0 1 0 0 0 0 0 0 0 0 0
## 7780 7780 0 0 0 0 0 0 0 0 0 0 0 0
## 7781 7781 1 0 0 0 0 0 0 0 0 0 0 0
## 7782 7782 0 0 1 0 0 0 0 0 0 0 0 0
## 7783 7783 0 1 0 0 0 0 0 0 0 0 0 0
## 7784 7784 0 0 0 0 0 0 1 0 0 0 0 0
## 7785 7785 0 0 0 0 0 0 0 0 0 0 0 0
## 7786 7786 0 0 0 0 0 0 0 0 0 1 0 0
## 7787 7787 0 0 1 0 0 0 0 0 0 0 0 0
## 7788 7788 0 0 0 0 0 0 1 0 0 0 0 0
## 7789 7789 0 0 1 0 0 0 0 0 0 0 0 0
## 7790 7790 0 0 0 0 0 0 0 0 0 0 0 0
## 7791 7791 0 0 0 0 0 0 0 0 0 0 0 0
## 7792 7792 0 0 0 1 0 0 0 0 0 0 0 0
## 7793 7793 0 0 0 0 0 0 0 0 0 0 0 1
## 7794 7794 0 1 0 0 0 0 0 0 0 0 0 0
## 7795 7795 0 0 0 0 0 0 0 0 0 0 0 0
## 7796 7796 0 0 0 1 0 0 0 0 0 0 0 0
## 7797 7797 0 0 0 0 0 0 0 0 0 0 0 0
## 7798 7798 0 1 0 0 0 0 0 0 0 0 0 0
## 7799 7799 0 0 0 0 0 0 0 0 0 0 0 0
## 7800 7800 0 0 0 1 0 0 0 0 0 0 0 0
## 7801 7801 0 0 0 0 0 0 0 0 0 0 0 0
## 7802 7802 0 0 0 0 0 0 0 0 0 0 0 0
## 7803 7803 0 0 0 0 0 0 1 0 0 0 0 0
## 7804 7804 0 0 0 0 0 0 0 0 0 0 0 0
## 7805 7805 0 1 0 0 0 0 0 0 0 0 0 0
## 7806 7806 0 0 2 0 0 0 0 0 0 0 0 0
## 7807 7807 0 0 1 0 0 0 0 0 0 0 0 0
## 7808 7808 0 1 0 0 0 0 0 0 0 0 0 0
## 7809 7809 0 1 0 0 0 0 0 0 0 0 0 0

```

```

## 7810 7810 0 0 0 0 0 0 0 0 0 0 0 0
## 7811 7811 0 1 0 0 0 0 0 0 0 0 0 0
## 7812 7812 1 0 0 0 0 0 0 0 0 0 0 0
## 7813 7813 0 0 0 0 1 0 0 0 0 0 0 0
## 7814 7814 0 0 0 0 0 0 0 1 0 0 0 0
## 7815 7815 0 0 1 0 0 0 0 0 0 0 0 0
## 7816 7816 0 0 0 0 0 0 0 0 0 0 0 0
## 7817 7817 0 1 1 0 1 0 0 0 0 0 0 0
## 7818 7818 0 0 0 0 0 0 0 0 0 0 0 0
## 7819 7819 0 0 0 0 1 0 0 0 0 0 0 0
## 7820 7820 0 0 0 0 0 0 0 0 0 0 0 0
## 7821 7821 0 0 0 0 0 0 1 0 0 0 0 0
## 7822 7822 0 0 0 0 0 0 0 1 0 0 0 0
## 7823 7823 0 0 0 0 0 0 0 0 0 0 0 0
## 7824 7824 0 0 0 0 0 0 0 0 0 0 0 0
## 7825 7825 0 0 1 0 0 0 0 0 0 0 0 0
## 7826 7826 0 0 1 0 0 0 0 0 0 0 0 0
## 7827 7827 1 0 1 0 0 0 0 0 0 0 0 0
## 7828 7828 0 0 0 0 0 0 0 0 0 0 0 0
## 7829 7829 0 0 1 0 0 0 0 0 0 0 0 0
## 7830 7830 0 0 0 0 0 0 0 0 0 0 0 0
## 7831 7831 0 0 0 1 0 0 0 0 0 0 0 0
## 7832 7832 0 0 0 0 0 0 0 0 0 0 0 0
## 7833 7833 0 0 0 0 0 0 1 0 0 0 0 0
## 7834 7834 0 0 0 0 0 0 0 0 0 0 0 0
## 7835 7835 0 0 0 0 0 0 0 0 0 0 0 0
## 7836 7836 1 0 0 0 0 0 0 0 0 0 0 0
## 7837 7837 0 0 0 0 0 0 0 0 0 0 0 0
## 7838 7838 0 0 0 0 0 0 0 0 0 1 0 0
## 7839 7839 0 0 0 0 1 0 0 0 0 0 0 0
## 7840 7840 0 0 0 0 1 0 0 0 0 0 0 0
## 7841 7841 0 0 0 0 1 0 0 0 0 0 0 0
## 7842 7842 0 0 0 0 0 0 0 0 0 0 0 1
## 7843 7843 0 0 0 0 0 0 0 0 0 0 0 0
## 7844 7844 0 0 0 0 0 0 0 0 0 0 0 0
## 7845 7845 0 0 0 0 0 0 0 0 0 0 0 0
## 7846 7846 0 0 1 0 0 0 0 0 0 0 0 0
## 7847 7847 0 0 0 0 0 0 0 0 0 0 0 0
## 7848 7848 0 0 0 0 0 0 0 0 0 0 0 0
## 7849 7849 0 0 0 0 0 0 1 0 0 0 0 0
## 7850 7850 0 0 0 0 0 0 0 0 0 0 1 0
## 7851 7851 0 0 0 0 0 0 0 0 1 0 0 0
## 7852 7852 0 0 0 0 0 0 0 0 0 0 0 1
## 7853 7853 0 0 0 0 0 0 0 0 0 0 0 0
## 7854 7854 0 0 1 0 0 0 0 0 0 0 0 0
## 7855 7855 0 0 0 0 0 0 0 0 0 0 0 0
## 7856 7856 0 0 0 0 1 0 0 0 0 0 0 0
## 7857 7857 0 0 0 0 0 0 0 0 0 0 1 0
## 7858 7858 0 0 0 0 0 0 0 0 0 0 1 0
## 7859 7859 0 0 0 0 0 0 0 0 0 0 0 0
## 7860 7860 0 0 0 0 0 0 0 0 0 0 0 0
## 7861 7861 0 0 1 0 0 0 0 0 0 0 0 0
## 7862 7862 1 0 0 0 0 0 0 0 0 0 0 0
## 7863 7863 0 0 0 0 0 0 0 0 0 0 0 0

```

## 7864	7864	0	0	0	0	0	0	0	0	0	0	0
## 7865	7865	0	0	0	0	0	0	0	0	0	0	1
## 7866	7866	0	0	1	0	0	0	0	0	0	0	0
## 7867	7867	0	0	0	0	0	0	0	0	0	1	0
## 7868	7868	0	0	0	0	0	0	0	0	0	0	0
## 7869	7869	0	0	0	0	0	0	0	0	0	0	1
## 7870	7870	0	0	0	0	0	0	0	0	0	0	0
## 7871	7871	0	0	0	0	0	0	0	0	0	1	1
## 7872	7872	0	0	0	0	0	0	0	0	0	0	0
## 7873	7873	0	0	0	0	0	0	0	1	0	0	0
## 7874	7874	0	0	0	0	0	0	0	0	0	0	0
## 7875	7875	0	1	0	1	0	0	0	0	0	0	0
## 7876	7876	0	0	0	0	0	0	0	0	0	0	0
## 7877	7877	0	0	0	0	0	0	0	0	0	0	0
## 7878	7878	0	0	0	0	0	0	0	0	0	1	1
## 7879	7879	0	0	0	0	0	0	1	0	0	0	0
## 7880	7880	0	0	0	0	0	0	0	0	1	0	0
## 7881	7881	0	0	0	0	0	0	1	0	0	0	0
## 7882	7882	0	0	0	0	1	0	0	0	0	0	0
## 7883	7883	1	0	0	0	0	0	0	0	0	0	0
## 7884	7884	1	0	0	0	0	0	0	0	0	0	1
## 7885	7885	0	0	0	0	1	0	0	0	0	0	0
## 7886	7886	0	0	0	0	0	1	0	0	0	0	0
## 7887	7887	0	0	0	1	0	0	0	0	0	0	0
## 7888	7888	0	0	0	0	0	0	0	0	0	0	1
## 7889	7889	0	0	0	0	0	0	1	0	0	0	0
## 7890	7890	0	0	0	0	0	0	0	0	0	0	1
## 7891	7891	0	0	0	0	0	0	1	0	0	0	0
## 7892	7892	0	0	0	1	0	0	0	0	0	0	0
## 7893	7893	0	0	0	1	0	0	0	0	0	0	0
## 7894	7894	0	0	0	1	0	0	0	0	0	0	0
## 7895	7895	0	0	0	0	1	0	1	0	0	0	0
## 7896	7896	0	0	0	0	0	0	0	0	0	0	0
## 7897	7897	0	0	0	0	0	0	0	1	0	0	0
## 7898	7898	0	0	0	0	0	0	0	1	0	0	0
## 7899	7899	0	0	0	0	0	0	0	0	0	0	0
## 7900	7900	0	0	0	1	0	0	0	0	0	0	0
## 7901	7901	0	1	0	0	0	0	0	0	0	0	0
## 7902	7902	1	0	0	0	0	0	0	0	0	0	0
## 7903	7903	0	0	0	0	0	0	0	0	0	0	1
## 7904	7904	0	0	0	0	0	0	0	0	0	0	0
## 7905	7905	0	0	0	0	0	0	0	0	0	0	0
## 7906	7906	0	0	0	0	0	0	1	0	0	0	0
## 7907	7907	0	0	0	0	0	0	1	0	0	0	0
## 7908	7908	0	0	0	0	0	0	0	0	0	0	0
## 7909	7909	0	0	0	0	0	0	0	1	0	0	0
## 7910	7910	0	0	0	0	0	0	1	0	0	0	0
## 7911	7911	0	0	0	0	0	0	0	0	0	0	0
## 7912	7912	0	0	0	0	0	0	0	0	0	0	0
## 7913	7913	0	0	0	0	0	0	0	0	0	0	0
## 7914	7914	1	0	0	0	0	0	0	0	0	0	0
## 7915	7915	0	0	0	0	0	0	0	0	0	0	0
## 7916	7916	0	0	0	0	0	0	0	0	2	0	0
## 7917	7917	0	0	0	0	0	0	0	0	0	1	0

## 7918	7918	0	0	0	0	0	0	1	0	0	0	0
## 7919	7919	0	0	0	0	0	0	0	0	0	0	0
## 7920	7920	0	0	0	0	0	0	0	0	0	0	0
## 7921	7921	0	0	0	0	0	0	1	0	0	0	0
## 7922	7922	0	0	0	0	0	0	0	0	0	0	0
## 7923	7923	0	0	0	0	0	0	1	0	0	0	0
## 7924	7924	0	0	0	0	0	0	0	0	0	0	0
## 7925	7925	0	0	0	0	0	0	1	0	0	0	0
## 7926	7926	0	0	0	0	0	0	0	0	0	0	0
## 7927	7927	0	0	0	0	0	0	0	0	0	0	0
## 7928	7928	0	0	0	0	0	0	0	0	0	1	0
## 7929	7929	0	0	1	0	0	0	0	0	0	0	0
## 7930	7930	0	0	0	0	0	0	0	0	0	0	0
## 7931	7931	0	0	0	0	0	0	1	0	0	0	0
## 7932	7932	0	1	0	0	0	0	0	0	0	0	0
## 7933	7933	0	0	0	0	0	0	0	0	0	1	0
## 7934	7934	0	0	0	0	0	0	0	0	0	0	0
## 7935	7935	0	0	0	0	0	0	0	0	0	0	0
## 7936	7936	0	0	0	0	0	0	1	1	0	0	0
## 7937	7937	0	0	0	0	0	0	0	0	0	0	0
## 7938	7938	0	0	0	0	0	0	0	0	0	0	0
## 7939	7939	0	0	0	0	0	0	0	0	1	0	0
## 7940	7940	0	0	0	0	0	0	0	0	0	1	0
## 7941	7941	0	0	0	0	1	0	0	0	0	0	0
## 7942	7942	0	0	0	0	1	0	0	0	0	0	0
## 7943	7943	0	0	0	0	1	0	0	0	0	0	0
## 7944	7944	0	0	0	0	0	0	0	0	0	0	0
## 7945	7945	0	0	1	0	0	0	0	0	0	0	0
## 7946	7946	0	0	1	0	0	0	0	0	0	0	0
## 7947	7947	0	0	0	0	0	0	0	0	0	0	0
## 7948	7948	0	0	0	0	0	0	0	0	0	0	0
## 7949	7949	0	0	0	0	1	0	0	0	0	0	0
## 7950	7950	0	0	0	0	0	0	0	0	0	0	0
## 7951	7951	0	0	0	0	0	0	0	0	0	0	0
## 7952	7952	0	0	0	0	0	0	0	0	0	0	0
## 7953	7953	0	0	0	0	0	0	0	0	0	0	0
## 7954	7954	0	0	0	0	0	0	0	0	0	0	0
## 7955	7955	0	0	0	0	0	0	0	0	0	0	0
## 7956	7956	0	1	0	0	0	0	0	0	0	0	0
## 7957	7957	0	0	0	0	0	0	0	0	0	0	0
## 7958	7958	0	0	0	0	0	0	0	0	0	0	0
## 7959	7959	0	0	0	0	0	1	0	0	0	0	0
## 7960	7960	0	0	0	0	0	0	0	0	0	0	0
## 7961	7961	0	0	0	0	0	0	0	0	0	1	0
## 7962	7962	0	0	0	0	0	0	0	0	0	0	0
## 7963	7963	0	0	0	0	0	0	0	0	0	0	0
## 7964	7964	0	1	0	0	0	0	0	0	0	0	0
## 7965	7965	0	0	0	0	0	0	0	0	0	1	0
## 7966	7966	0	0	0	0	0	0	0	0	0	0	0
## 7967	7967	0	0	0	0	0	0	0	0	0	0	0
## 7968	7968	1	0	0	0	0	0	0	0	0	0	0
## 7969	7969	0	0	0	0	0	0	0	0	0	0	0
## 7970	7970	0	0	0	0	0	0	0	0	0	0	0
## 7971	7971	0	1	0	0	0	0	0	0	0	0	0

## 7972 7972	0	0	0	0	0	0	0	0	0	0	0
## 7973 7973	0	0	0	0	0	0	0	0	0	0	0
## 7974 7974	0	0	0	0	0	0	0	0	0	0	0
## 7975 7975	0	0	0	0	0	0	0	0	0	0	0
## 7976 7976	0	0	0	0	0	0	0	0	0	0	0
## 7977 7977	0	1	0	0	0	0	0	0	0	0	0
## 7978 7978	0	0	0	0	0	0	1	0	0	0	0
## 7979 7979	0	0	0	0	0	0	0	0	0	0	0
## 7980 7980	0	0	0	0	0	0	0	0	0	0	0
## 7981 7981	0	0	0	0	0	0	0	0	1	0	0
## 7982 7982	0	0	0	0	0	0	0	0	0	0	0
## 7983 7983	0	0	0	0	0	0	0	0	1	0	0
## 7984 7984	0	0	0	0	1	0	0	0	0	0	0
## 7985 7985	0	0	0	0	0	0	0	0	0	0	0
## 7986 7986	0	0	0	0	0	0	0	0	0	0	0
## 7987 7987	0	0	1	0	0	0	0	0	0	0	0
## 7988 7988	0	1	0	0	0	0	0	0	0	0	0
## 7989 7989	0	0	1	0	0	0	0	0	0	0	0
## 7990 7990	0	0	0	0	1	0	0	0	0	0	0
## 7991 7991	0	0	0	0	0	0	0	0	0	0	0
## 7992 7992	0	0	0	1	0	0	0	0	0	0	0
## 7993 7993	0	0	0	0	0	0	0	0	0	0	0
## 7994 7994	0	0	0	0	0	0	0	0	0	0	0
## 7995 7995	0	0	0	0	0	0	0	0	0	0	1
## 7996 7996	0	0	0	0	0	0	0	0	0	0	0
## 7997 7997	0	0	0	0	0	0	0	0	0	0	0
## 7998 7998	0	0	0	2	0	0	0	0	0	0	0
## 7999 7999	0	0	0	0	0	0	0	0	0	0	0
## 8000 8000	0	0	0	0	0	0	0	1	0	0	0
## 8001 8001	0	0	0	0	0	0	0	0	0	0	0
## 8002 8002	0	0	0	0	0	0	0	0	0	0	0
## 8003 8003	1	0	0	0	0	0	0	0	0	0	0
## 8004 8004	0	0	0	0	0	1	0	0	0	0	0
## 8005 8005	0	0	0	0	0	0	0	0	0	0	0
## 8006 8006	1	1	0	0	0	0	0	0	0	0	0
## 8007 8007	0	0	0	0	0	0	1	0	0	0	0
## 8008 8008	0	0	0	0	0	0	1	0	0	0	0
## 8009 8009	0	0	0	0	1	0	0	0	0	0	0
## 8010 8010	0	0	0	1	0	0	0	0	0	0	0
## 8011 8011	1	0	0	0	0	0	0	0	0	0	0
## 8012 8012	0	0	0	0	1	0	0	0	0	0	0
## 8013 8013	0	0	0	0	0	1	0	0	0	0	0
## 8014 8014	0	0	0	0	0	0	0	0	0	0	0
## 8015 8015	0	0	0	0	0	0	0	0	0	0	0
## 8016 8016	0	0	0	0	0	0	1	0	0	0	0
## 8017 8017	0	0	0	0	0	0	0	0	0	0	0
## 8018 8018	0	0	0	0	0	0	0	0	0	0	0
## 8019 8019	0	0	0	0	0	0	0	0	0	0	0
## 8020 8020	0	0	0	0	1	0	0	0	0	0	0
## 8021 8021	0	0	0	0	0	0	0	0	0	0	0
## 8022 8022	0	0	0	0	0	0	0	0	0	0	1
## 8023 8023	0	0	0	0	0	0	0	0	0	0	0
## 8024 8024	0	0	0	0	0	1	0	0	0	0	0
## 8025 8025	0	0	0	0	0	0	0	0	0	0	0

```

## 8026 8026 0 0 0 1 1 0 0 0 0 0 0 0
## 8027 8027 0 0 0 0 0 0 0 0 0 0 0 0
## 8028 8028 0 0 0 0 0 0 0 0 0 0 1 0
## 8029 8029 0 0 0 0 0 0 0 1 0 0 0 0
## 8030 8030 0 0 0 0 0 0 0 0 0 0 0 0
## 8031 8031 2 0 0 0 0 0 0 0 0 0 0 0
## 8032 8032 0 0 0 0 0 0 0 0 0 0 0 0
## 8033 8033 0 0 0 0 0 0 0 0 0 0 0 0
## 8034 8034 0 0 0 0 0 0 0 0 0 0 0 0
## 8035 8035 0 0 1 0 0 0 0 0 0 0 0 0
## 8036 8036 0 0 0 0 0 0 0 0 0 0 0 0
## 8037 8037 0 0 0 0 0 0 0 0 0 0 0 0
## 8038 8038 0 0 0 0 0 0 0 0 0 0 0 0
## 8039 8039 0 0 0 0 0 0 0 0 0 0 0 0
## 8040 8040 0 0 0 0 0 0 0 0 0 0 0 0
## 8041 8041 0 0 0 0 0 0 0 0 0 0 0 0
## 8042 8042 0 0 0 0 0 0 0 0 0 0 0 0
## 8043 8043 0 0 0 0 0 0 0 0 0 0 0 0
## 8044 8044 0 0 0 0 0 0 0 0 0 0 0 0
## 8045 8045 0 0 0 0 0 0 0 0 0 0 0 0
## 8046 8046 0 0 0 0 0 0 0 0 0 0 0 0
## 8047 8047 0 0 0 0 0 0 0 0 0 0 0 0
## 8048 8048 0 0 0 0 0 0 0 0 0 0 0 0
## 8049 8049 0 0 0 1 0 1 0 0 0 1 0 0
## 8050 8050 0 0 0 0 0 0 0 0 0 0 0 0
## 8051 8051 0 0 0 0 0 0 0 0 0 0 0 0
## 8052 8052 0 0 0 0 0 0 0 0 0 0 1 0
## 8053 8053 1 0 0 0 0 0 0 0 0 0 0 0
## 8054 8054 0 0 0 0 0 0 0 0 0 0 0 0
## 8055 8055 0 0 0 0 0 0 0 0 0 1 0 0
## 8056 8056 0 0 0 0 0 0 0 0 0 0 0 0
## 8057 8057 0 0 0 0 0 0 0 0 0 0 0 0
## 8058 8058 0 0 0 0 0 0 0 0 0 0 0 0
## 8059 8059 0 0 0 0 0 0 1 0 0 0 0 0
## 8060 8060 0 0 0 0 0 0 0 0 0 0 0 0
## 8061 8061 0 0 0 0 0 0 0 0 0 0 0 0
## 8062 8062 0 0 0 0 0 0 0 0 0 0 1 0
## 8063 8063 0 0 0 0 0 0 0 0 0 0 0 0
## 8064 8064 0 1 0 0 0 0 0 0 0 0 0 0
## 8065 8065 0 1 0 0 0 0 0 0 0 0 0 0
## 8066 8066 0 0 0 0 0 0 0 0 0 0 0 0
## 8067 8067 0 0 0 0 0 0 0 0 0 0 0 0
## 8068 8068 1 0 0 0 0 0 0 0 0 0 0 0
## 8069 8069 1 0 0 0 0 0 0 0 0 0 0 0
## 8070 8070 0 0 0 0 0 1 0 0 0 0 0 0
## 8071 8071 0 0 0 0 0 1 0 0 0 0 0 0
## 8072 8072 0 1 0 0 0 0 0 0 0 0 0 0
## 8073 8073 0 0 0 0 0 0 0 0 0 0 0 0
## 8074 8074 0 0 0 1 0 0 0 0 0 0 0 0
## 8075 8075 1 0 0 0 0 0 0 0 0 0 0 0
## 8076 8076 0 0 1 0 0 0 0 0 0 0 0 0
## 8077 8077 0 0 0 0 0 0 0 0 0 0 0 0
## 8078 8078 0 0 0 0 0 0 0 0 0 1 0 0
## 8079 8079 0 0 0 0 0 0 1 0 0 0 0 0

```

## 8080 8080	0	0	0	0	0	0	0	0	0	0	0
## 8081 8081	0	0	0	0	0	0	0	0	0	0	0
## 8082 8082	0	0	0	0	0	0	0	0	0	0	0
## 8083 8083	1	0	1	0	0	0	0	0	0	0	0
## 8084 8084	0	0	0	0	0	1	0	0	0	0	0
## 8085 8085	0	0	0	0	0	0	0	0	0	0	0
## 8086 8086	0	0	0	0	0	0	0	0	0	0	0
## 8087 8087	0	0	0	0	0	0	0	0	0	0	0
## 8088 8088	0	0	0	0	0	0	0	0	0	0	0
## 8089 8089	0	1	0	0	0	0	0	0	0	0	0
## 8090 8090	0	0	0	0	0	0	0	0	1	0	0
## 8091 8091	0	0	0	0	0	0	1	0	0	0	0
## 8092 8092	0	0	0	1	0	0	0	0	0	0	1
## 8093 8093	0	0	0	1	0	0	1	0	0	0	0
## 8094 8094	0	0	0	0	0	0	0	0	0	0	0
## 8095 8095	0	0	0	1	0	0	0	0	0	0	0
## 8096 8096	0	0	0	0	0	0	0	0	0	0	0
## 8097 8097	0	0	0	0	0	0	0	0	0	0	0
## 8098 8098	0	0	0	0	0	0	0	0	0	0	0
## 8099 8099	0	0	0	0	0	2	0	0	0	0	0
## 8100 8100	0	0	0	0	0	0	1	0	0	0	0
## 8101 8101	0	0	0	0	0	0	0	0	1	0	0
## 8102 8102	0	0	0	0	0	0	0	0	0	0	0
## 8103 8103	0	0	0	0	0	0	0	0	0	0	1
## 8104 8104	0	0	0	1	0	0	0	1	0	0	0
## 8105 8105	0	0	1	0	0	0	0	0	0	0	0
## 8106 8106	0	0	0	0	0	0	0	0	0	0	0
## 8107 8107	0	0	0	1	0	0	0	0	0	0	0
## 8108 8108	0	0	0	0	0	0	0	0	0	0	0
## 8109 8109	0	0	0	0	0	0	0	0	0	0	0
## 8110 8110	0	0	0	0	0	0	1	0	0	0	0
## 8111 8111	0	0	0	0	0	0	0	0	0	0	0
## 8112 8112	0	0	0	0	0	0	0	0	0	0	0
## 8113 8113	0	0	0	0	0	0	0	0	0	0	0
## 8114 8114	0	0	0	0	0	0	0	0	0	0	0
## 8115 8115	0	0	1	0	0	0	0	0	0	0	0
## 8116 8116	0	1	0	0	0	0	0	0	0	0	0
## 8117 8117	1	0	0	0	0	0	0	0	0	0	0
## 8118 8118	0	0	0	0	0	0	0	0	0	0	0
## 8119 8119	0	0	0	0	0	0	1	0	0	0	0
## 8120 8120	0	0	0	0	0	0	0	0	0	0	1
## 8121 8121	0	0	0	0	1	0	0	0	0	0	0
## 8122 8122	0	0	0	0	1	0	0	0	0	0	0
## 8123 8123	0	0	0	0	0	0	0	0	0	0	0
## 8124 8124	0	0	0	0	0	0	0	0	0	0	0
## 8125 8125	0	0	0	0	0	0	0	0	0	0	0
## 8126 8126	0	0	0	0	0	0	0	0	0	0	0
## 8127 8127	0	1	0	0	0	0	0	0	0	0	0
## 8128 8128	1	0	0	0	0	0	0	0	0	0	0
## 8129 8129	0	0	0	0	0	0	0	0	0	0	1
## 8130 8130	0	0	0	0	0	0	0	0	0	0	0
## 8131 8131	0	0	0	0	0	0	0	0	0	0	0
## 8132 8132	0	0	0	0	0	0	0	0	0	0	0
## 8133 8133	0	0	0	0	0	0	2	0	1	0	0

```

## 8134 8134 0 0 1 0 0 0 0 0 0 0 0 0
## 8135 8135 0 0 0 0 0 0 0 0 0 1 0 0
## 8136 8136 0 0 0 0 0 0 1 0 0 0 0 0
## 8137 8137 0 0 0 1 0 0 0 0 0 0 0 0
## 8138 8138 0 0 0 0 0 0 0 0 0 0 0 0
## 8139 8139 0 0 0 0 0 0 0 0 0 0 0 0
## 8140 8140 0 0 0 0 0 0 0 0 0 0 0 0
## 8141 8141 0 0 1 0 0 0 0 0 0 0 0 0
## 8142 8142 0 0 0 0 0 0 0 0 0 0 0 0
## 8143 8143 0 0 0 0 0 0 0 0 1 0 0 0
## 8144 8144 0 0 0 0 0 0 0 1 0 0 0 0
## 8145 8145 0 0 0 0 0 0 0 0 0 0 0 0
## 8146 8146 0 0 0 0 1 0 0 0 0 0 0 0
## 8147 8147 0 0 0 0 0 0 0 0 0 0 0 0
## 8148 8148 0 0 0 0 0 0 0 0 0 0 0 0
## 8149 8149 0 0 0 0 0 0 0 0 0 0 0 1
## 8150 8150 0 0 0 0 0 0 0 0 0 0 0 0
## 8151 8151 0 0 0 0 0 0 0 2 0 0 0 0
## 8152 8152 0 0 0 0 0 0 0 0 0 1 0 0
## 8153 8153 1 0 0 0 0 0 0 0 0 0 0 0
## 8154 8154 0 0 0 0 0 0 0 0 0 1 0 0
## 8155 8155 0 0 0 0 1 0 0 0 0 0 0 0
## 8156 8156 0 0 0 0 0 0 0 0 0 0 0 0
## 8157 8157 1 0 0 0 0 0 0 0 0 0 0 0
## 8158 8158 0 0 0 0 0 0 0 0 0 0 1 0
## 8159 8159 0 0 0 0 0 0 0 0 0 0 0 0
## 8160 8160 0 0 0 1 0 0 0 0 0 0 0 0
## 8161 8161 0 0 0 0 0 0 0 0 0 0 0 0
## 8162 8162 0 0 0 2 0 0 0 0 0 0 0 0
## 8163 8163 0 0 0 1 0 0 0 0 0 0 0 0
## 8164 8164 0 1 0 0 0 0 0 0 0 0 0 0
## 8165 8165 0 0 0 0 0 0 0 0 0 0 0 0
## 8166 8166 0 0 1 0 0 0 0 0 0 0 0 0
## 8167 8167 0 0 0 0 0 0 0 0 0 0 0 0
## 8168 8168 0 0 0 1 0 0 0 0 0 0 0 0
## 8169 8169 0 0 0 0 0 0 0 0 0 0 0 0
## 8170 8170 0 0 0 0 0 0 0 0 1 0 0 0
## 8171 8171 0 0 0 0 0 0 0 0 0 0 1 0
## 8172 8172 0 0 0 0 0 0 0 0 0 0 0 0
## 8173 8173 0 0 0 0 0 0 0 0 1 0 0 0
## 8174 8174 0 0 0 0 0 1 0 0 0 0 0 0
## 8175 8175 0 0 0 0 0 1 0 0 0 0 0 0
## 8176 8176 0 0 0 0 0 0 0 0 0 0 0 0
## 8177 8177 0 0 0 0 0 0 0 0 0 0 0 0
## 8178 8178 0 0 0 0 0 1 0 0 0 0 0 0
## 8179 8179 0 0 0 0 0 0 0 0 0 0 0 0
## 8180 8180 0 0 0 0 0 0 0 0 0 0 0 0
## 8181 8181 0 1 0 0 0 0 0 0 0 0 0 0
## 8182 8182 0 0 0 0 0 0 0 0 0 0 0 1
## 8183 8183 0 0 0 0 0 0 0 0 0 0 0 0
## 8184 8184 0 0 0 0 0 0 1 0 0 0 0 0
## 8185 8185 0 0 0 0 0 2 0 0 0 0 0 0
## 8186 8186 0 0 0 0 0 0 0 0 0 0 0 0
## 8187 8187 0 0 0 0 0 0 0 0 0 0 0 0

```

## 8188 8188	0	0	0	2	0	0	0	0	0	0	0
## 8189 8189	1	0	0	0	0	0	0	0	0	0	0
## 8190 8190	0	0	0	0	0	0	0	0	0	0	0
## 8191 8191	0	0	0	1	0	0	0	0	0	0	0
## 8192 8192	0	0	0	1	0	0	0	0	0	0	0
## 8193 8193	0	0	0	0	0	0	0	0	0	0	0
## 8194 8194	0	0	0	0	0	0	1	0	0	0	0
## 8195 8195	0	0	0	0	0	0	0	0	0	0	0
## 8196 8196	0	0	0	0	0	0	0	0	0	0	0
## 8197 8197	0	0	0	0	0	0	0	0	0	0	0
## 8198 8198	1	0	0	0	0	0	0	0	0	0	0
## 8199 8199	0	0	0	1	0	0	0	0	0	0	0
## 8200 8200	0	0	0	1	0	1	0	0	0	0	0
## 8201 8201	0	0	0	0	0	0	0	1	0	0	0
## 8202 8202	0	0	0	0	0	0	0	0	0	0	0
## 8203 8203	0	0	0	1	0	0	0	0	0	0	0
## 8204 8204	0	0	0	0	0	0	0	0	1	0	0
## 8205 8205	0	0	0	0	0	0	0	0	0	0	0
## 8206 8206	0	0	0	0	0	0	0	0	0	0	0
## 8207 8207	1	0	0	0	0	0	0	0	1	0	0
## 8208 8208	0	0	0	0	0	0	0	0	0	0	0
## 8209 8209	0	0	0	0	0	0	0	0	0	0	0
## 8210 8210	0	0	0	0	0	0	0	0	0	0	0
## 8211 8211	0	0	0	0	0	0	0	0	0	0	0
## 8212 8212	0	1	0	0	0	0	0	0	0	0	0
## 8213 8213	0	0	0	1	0	0	0	0	0	0	0
## 8214 8214	1	0	0	0	0	0	0	0	0	0	0
## 8215 8215	0	0	0	0	0	0	0	0	0	0	0
## 8216 8216	0	0	0	1	0	0	0	0	0	0	0
## 8217 8217	0	0	0	0	0	0	0	0	0	0	0
## 8218 8218	0	0	0	0	0	0	0	0	0	1	0
## 8219 8219	0	0	0	0	0	0	0	0	0	0	0
## 8220 8220	0	0	0	0	0	0	0	0	0	1	0
## 8221 8221	1	0	0	0	0	0	0	0	0	0	0
## 8222 8222	0	0	0	0	0	0	0	0	0	0	0
## 8223 8223	0	0	0	0	0	0	0	0	0	0	1
## 8224 8224	0	0	1	0	0	0	0	0	0	0	0
## 8225 8225	0	0	0	0	0	0	0	0	0	0	0
## 8226 8226	0	0	0	0	1	0	0	0	0	0	0
## 8227 8227	0	0	0	0	0	0	0	0	0	0	0
## 8228 8228	0	0	0	1	0	0	0	0	0	0	0
## 8229 8229	0	0	0	0	0	0	0	0	0	0	0
## 8230 8230	0	0	0	0	0	0	0	0	0	0	0
## 8231 8231	0	0	0	0	0	0	1	0	0	0	0
## 8232 8232	0	0	0	0	0	0	0	0	0	0	0
## 8233 8233	0	0	0	0	0	0	1	0	0	0	0
## 8234 8234	0	0	1	0	0	0	0	0	0	0	0
## 8235 8235	0	1	0	0	0	0	0	0	0	0	0
## 8236 8236	0	0	0	0	1	0	0	0	0	0	0
## 8237 8237	0	0	1	0	0	0	0	0	0	0	0
## 8238 8238	0	0	0	0	0	0	0	0	0	0	0
## 8239 8239	0	0	0	1	0	0	0	0	0	0	0
## 8240 8240	0	0	0	0	0	0	0	0	0	0	0
## 8241 8241	0	0	0	0	0	0	1	0	0	0	0

## 8242 8242	0	0	1	0	0	0	0	0	0	0	0
## 8243 8243	0	0	0	0	0	0	0	0	0	0	0
## 8244 8244	0	0	0	0	0	0	0	0	0	0	0
## 8245 8245	0	0	0	0	0	0	0	0	0	0	0
## 8246 8246	0	0	0	0	1	0	0	0	0	0	0
## 8247 8247	0	0	0	0	0	0	0	0	0	0	0
## 8248 8248	0	0	0	0	0	0	0	0	0	0	0
## 8249 8249	0	0	0	0	0	0	0	0	0	0	0
## 8250 8250	0	0	0	0	0	0	0	0	1	0	0
## 8251 8251	0	0	0	0	0	0	0	0	0	0	0
## 8252 8252	0	0	0	0	0	0	0	0	0	0	0
## 8253 8253	0	0	0	0	0	0	1	0	0	0	0
## 8254 8254	0	0	0	0	0	0	0	0	0	0	0
## 8255 8255	0	0	0	0	0	0	0	0	0	0	0
## 8256 8256	0	0	0	0	0	1	0	0	0	0	0
## 8257 8257	0	0	0	0	1	0	0	0	0	0	0
## 8258 8258	0	0	1	0	0	0	0	0	0	0	0
## 8259 8259	0	0	0	0	0	0	1	0	0	0	0
## 8260 8260	0	0	0	0	0	0	0	0	0	0	0
## 8261 8261	0	0	0	0	0	0	0	2	0	0	0
## 8262 8262	0	0	0	0	0	0	0	0	0	0	0
## 8263 8263	0	1	0	0	0	0	0	0	0	0	0
## 8264 8264	1	0	0	0	0	0	0	0	0	0	0
## 8265 8265	0	1	0	0	0	0	0	0	0	0	0
## 8266 8266	1	0	0	0	0	0	0	0	0	0	0
## 8267 8267	0	0	0	0	0	0	0	0	1	0	0
## 8268 8268	0	0	0	0	0	0	0	0	0	0	0
## 8269 8269	0	0	0	0	0	0	0	0	0	1	0
## 8270 8270	0	0	0	0	0	0	0	0	0	0	0
## 8271 8271	0	0	0	0	0	0	0	0	0	0	0
## 8272 8272	0	0	0	0	0	0	0	0	0	0	0
## 8273 8273	0	0	1	0	0	0	0	0	0	0	0
## 8274 8274	0	0	1	0	0	0	0	0	0	0	0
## 8275 8275	0	0	0	0	0	0	0	0	0	1	0
## 8276 8276	0	0	0	0	0	0	0	0	0	0	0
## 8277 8277	0	0	0	0	0	0	1	0	0	0	0
## 8278 8278	0	0	0	0	0	0	0	0	0	1	0
## 8279 8279	0	0	0	0	0	0	0	0	0	0	0
## 8280 8280	0	1	0	0	0	0	0	0	0	0	0
## 8281 8281	0	0	0	0	0	0	0	0	0	0	0
## 8282 8282	0	0	0	0	1	0	0	0	0	0	0
## 8283 8283	0	0	0	0	0	0	1	0	0	0	0
## 8284 8284	0	0	0	0	0	0	0	1	0	0	0
## 8285 8285	0	1	0	0	0	0	0	0	0	0	0
## 8286 8286	0	0	0	0	0	0	0	0	0	0	0
## 8287 8287	0	0	0	0	0	0	0	0	0	0	1
## 8288 8288	0	0	0	1	0	0	0	0	0	0	0
## 8289 8289	0	0	0	0	0	0	0	0	0	0	0
## 8290 8290	0	1	0	0	0	0	0	0	0	0	0
## 8291 8291	0	1	0	0	0	0	0	0	0	0	0
## 8292 8292	0	0	0	0	0	0	0	0	0	0	0
## 8293 8293	0	0	0	0	0	0	0	0	0	0	0
## 8294 8294	0	0	0	0	0	0	1	0	0	0	0
## 8295 8295	0	0	0	0	0	0	1	0	0	0	0

```

## 8296 8296 0 0 0 0 0 0 0 0 0 0 0 0
## 8297 8297 0 0 0 0 0 0 0 0 0 0 0 0
## 8298 8298 0 0 0 0 0 0 0 0 0 0 1 0
## 8299 8299 1 0 0 0 0 0 0 0 0 0 0 0
## 8300 8300 0 0 0 0 0 0 0 0 0 0 1 0
## 8301 8301 0 0 0 0 0 0 1 0 0 0 0 0
## 8302 8302 0 0 0 1 0 0 0 0 0 0 0 0
## 8303 8303 0 0 0 0 0 0 0 0 0 0 0 0
## 8304 8304 0 0 0 0 0 0 0 0 0 0 0 0
## 8305 8305 0 1 0 0 0 0 0 0 0 0 0 0
## 8306 8306 0 1 0 0 0 0 0 0 0 0 0 0
## 8307 8307 0 0 0 0 0 0 0 0 0 1 0 0
## 8308 8308 0 0 0 0 0 0 0 0 0 0 0 0
## 8309 8309 0 0 0 0 0 0 0 0 0 0 0 0
## 8310 8310 0 1 0 0 0 0 0 0 0 0 0 0
## 8311 8311 0 0 0 0 0 0 0 0 0 0 0 0
## 8312 8312 0 0 0 0 0 0 0 0 0 0 0 0
## 8313 8313 0 0 0 0 0 0 0 0 0 0 0 0
## 8314 8314 0 0 0 0 0 0 0 0 0 0 0 0
## 8315 8315 0 0 0 0 0 0 0 0 0 0 0 0
## 8316 8316 0 0 0 0 0 0 0 0 0 0 0 0
## 8317 8317 0 0 0 0 0 0 0 0 0 0 0 0
## 8318 8318 0 0 0 0 0 0 0 0 0 1 0 0
## 8319 8319 0 0 0 0 0 0 0 0 0 0 0 0
## 8320 8320 0 0 0 0 0 0 0 0 0 0 0 0
## 8321 8321 0 0 0 0 0 0 0 0 0 0 1 0
## 8322 8322 0 0 0 1 0 0 0 0 0 0 0 0
## 8323 8323 1 0 0 0 0 0 0 0 0 0 0 0
## 8324 8324 0 0 0 0 1 0 0 0 0 0 0 0
## 8325 8325 0 0 0 0 0 1 0 0 0 0 0 0
## 8326 8326 0 0 0 1 0 0 0 0 0 0 0 0
## 8327 8327 0 0 0 0 0 0 0 0 0 0 0 0
## 8328 8328 1 0 0 0 0 0 0 0 0 0 0 0
## 8329 8329 0 0 0 0 0 0 0 0 0 0 0 0
## 8330 8330 0 0 0 0 0 0 1 0 0 0 0 0
## 8331 8331 0 0 0 0 1 0 0 0 0 0 0 0
## 8332 8332 0 0 0 0 1 0 0 0 0 0 0 0
## 8333 8333 0 1 1 0 0 0 0 0 0 0 0 0
## [ reached 'max' / getOption("max.print") -- omitted 4977 rows ]

```

S.chao2(1, t_mic) #####S.chao 2 output

	total	V1	V2	V3	V4	V5	V6	V7
## OTU	15050.86	1741.865	1742.865	1743.865	1744.865	1745.865	1746.865	1747.865
##	V8	V9	V10	V11	V12	V13	V14	V15
## OTU	1748.865	1749.865	1750.865	1751.865	1752.865	1753.865	1754.865	1755.865
##	V16	V17	V18	V19	V20	V21	V22	V23
## OTU	1756.865	1757.865	1758.865	1759.865	1760.865	1761.865	1762.865	1763.865
##	V24	V25	V26	V27	V28	V29	V30	V31
## OTU	1764.865	1765.865	1766.865	1767.865	1768.865	1769.865	1770.865	1771.865
##	V32	V33	V34	V35	V36	V37	V38	V39
## OTU	1772.865	1773.865	1774.865	1775.865	1776.865	1777.865	1778.865	1779.865
##	V40	V41	V42	V43	V44	V45	V46	V47
## OTU	1780.865	1781.865	1782.865	1783.865	1784.865	1785.865	1786.865	1787.865

##	V48	V49	V50	V51	V52	V53	V54	V55
## OTU	1788.865	1789.865	1790.865	1791.865	1792.865	1793.865	1794.865	1795.865
##	V56	V57	V58	V59	V60	V61	V62	V63
## OTU	1796.865	1797.865	1798.865	1799.865	1800.865	1801.865	1802.865	1803.865
##	V64	V65	V66	V67	V68	V69	V70	V71
## OTU	1804.865	1805.865	1806.865	1807.865	1808.865	1809.865	1810.865	1811.865
##	V72	V73	V74	V75	V76	V77	V78	V79
## OTU	1812.865	1813.865	1814.865	1815.865	1816.865	1817.865	1818.865	1819.865
##	V80	V81	V82	V83	V84	V85	V86	V87
## OTU	1820.865	1821.865	1822.865	1823.865	1824.865	1825.865	1826.865	1827.865
##	V88	V89	V90	V91	V92	V93	V94	V95
## OTU	1828.865	1829.865	1830.865	1831.865	1832.865	1833.865	1834.865	1835.865
##	V96	V97	V98	V99	V100	V101	V102	V103
## OTU	1836.865	1837.865	1838.865	1839.865	1840.865	1841.865	1842.865	1843.865
##	V104	V105	V106	V107	V108	V109	V110	V111
## OTU	1844.865	1845.865	1846.865	1847.865	1848.865	1849.865	1850.865	1851.865
##	V112	V113	V114	V115	V116	V117	V118	V119
## OTU	1852.865	1853.865	1854.865	1855.865	1856.865	1857.865	1858.865	1859.865
##	V120	V121	V122	V123	V124	V125	V126	V127
## OTU	1860.865	1861.865	1862.865	1863.865	1864.865	1865.865	1866.865	1867.865
##	V128	V129	V130	V131	V132	V133	V134	V135
## OTU	1868.865	1869.865	1870.865	1871.865	1872.865	1873.865	1874.865	1875.865
##	V136	V137	V138	V139	V140	V141	V142	V143
## OTU	1876.865	1877.865	1878.865	1879.865	1880.865	1881.865	1882.865	1883.865
##	V144	V145	V146	V147	V148	V149	V150	V151
## OTU	1884.865	1885.865	1886.865	1887.865	1888.865	1889.865	1890.865	1891.865
##	V152	V153	V154	V155	V156	V157	V158	V159
## OTU	1892.865	1893.865	1894.865	1895.865	1896.865	1897.865	1898.865	1899.865
##	V160	V161	V162	V163	V164	V165	V166	V167
## OTU	1900.865	1901.865	1902.865	1903.865	1904.865	1905.865	1906.865	1907.865
##	V168	V169	V170	V171	V172	V173	V174	V175
## OTU	1908.865	1909.865	1910.865	1911.865	1912.865	1913.865	1914.865	1915.865
##	V176	V177	V178	V179	V180	V181	V182	V183
## OTU	1916.865	1917.865	1918.865	1919.865	1920.865	1921.865	1922.865	1923.865
##	V184	V185	V186	V187	V188	V189	V190	V191
## OTU	1924.865	1925.865	1926.865	1927.865	1928.865	1929.865	1930.865	1931.865
##	V192	V193	V194	V195	V196	V197	V198	V199
## OTU	1932.865	1933.865	1934.865	1935.865	1936.865	1937.865	1938.865	1939.865
##	V200	V201	V202	V203	V204	V205	V206	V207
## OTU	1940.865	1941.865	1942.865	1943.865	1944.865	1945.865	1946.865	1947.865
##	V208	V209	V210	V211	V212	V213	V214	V215
## OTU	1948.865	1949.865	1950.865	1951.865	1952.865	1953.865	1954.865	1955.865
##	V216	V217	V218	V219	V220	V221	V222	V223
## OTU	1956.865	1957.865	1958.865	1959.865	1960.865	1961.865	1962.865	1963.865
##	V224	V225	V226	V227	V228	V229	V230	V231
## OTU	1964.865	1965.865	1966.865	1967.865	1968.865	1969.865	1970.865	1971.865
##	V232	V233	V234	V235	V236	V237	V238	V239
## OTU	1972.865	1973.865	1974.865	1975.865	1976.865	1977.865	1978.865	1979.865
##	V240	V241	V242	V243	V244	V245	V246	V247
## OTU	1980.865	1981.865	1982.865	1983.865	1984.865	1985.865	1986.865	1987.865
##	V248	V249	V250	V251	V252	V253	V254	V255
## OTU	1988.865	1989.865	1990.865	1991.865	1992.865	1993.865	1994.865	1995.865
##	V256	V257	V258	V259	V260	V261	V262	V263
## OTU	1996.865	1997.865	1998.865	1999.865	2000.865	2001.865	2002.865	2003.865

```

##      V264      V265      V266      V267      V268      V269      V270      V271
## OTU 2004.865 2005.865 2006.865 2007.865 2008.865 2009.865 2010.865 2011.865
##      V272      V273      V274      V275      V276      V277      V278      V279
## OTU 2012.865 2013.865 2014.865 2015.865 2016.865 2017.865 2018.865 2019.865
##      V280      V281      V282      V283      V284      V285      V286      V287
## OTU 2020.865 2021.865 2022.865 2023.865 2024.865 2025.865 2026.865 2027.865
##      V288      V289      V290      V291      V292      V293      V294      V295
## OTU 2028.865 2029.865 2030.865 2031.865 2032.865 2033.865 2034.865 2035.865
##      V296      V297      V298      V299      V300      V301      V302      V303
## OTU 2036.865 2037.865 2038.865 2039.865 2040.865 2041.865 2042.865 2043.865
##      V304      V305      V306      V307      V308      V309      V310      V311
## OTU 2044.865 2045.865 2046.865 2047.865 2048.865 2049.865 2050.865 2051.865
##      V312      V313      V314      V315      V316      V317      V318      V319
## OTU 2052.865 2053.865 2054.865 2055.865 2056.865 2057.865 2058.865 2059.865
##      V320      V321      V322      V323      V324      V325      V326      V327
## OTU 2060.865 2061.865 2062.865 2063.865 2064.865 2065.865 2066.865 2067.865
##      V328      V329      V330      V331      V332      V333      V334      V335
## OTU 2068.865 2069.865 2070.865 2071.865 2072.865 2073.865 2074.865 2075.865
##      V336      V337      V338      V339      V340      V341      V342      V343
## OTU 2076.865 2077.865 2078.865 2079.865 2080.865 2081.865 2082.865 2083.865
##      V344      V345      V346      V347      V348      V349      V350      V351
## OTU 2084.865 2085.865 2086.865 2087.865 2088.865 2089.865 2090.865 2091.865
##      V352      V353      V354      V355      V356      V357      V358      V359
## OTU 2092.865 2093.865 2094.865 2095.865 2096.865 2097.865 2098.865 2099.865
##      V360      V361      V362      V363      V364      V365      V366      V367
## OTU 2100.865 2101.865 2102.865 2103.865 2104.865 2105.865 2106.865 2107.865
##      V368      V369      V370      V371      V372      V373      V374      V375
## OTU 2108.865 2109.865 2110.865 2111.865 2112.865 2113.865 2114.865 2115.865
##      V376      V377      V378      V379      V380      V381      V382      V383
## OTU 2116.865 2117.865 2118.865 2119.865 2120.865 2121.865 2122.865 2123.865
##      V384      V385      V386      V387      V388      V389      V390      V391
## OTU 2124.865 2125.865 2126.865 2127.865 2128.865 2129.865 2130.865 2131.865
##      V392      V393      V394      V395      V396      V397      V398      V399
## OTU 2132.865 2133.865 2134.865 2135.865 2136.865 2137.865 2138.865 2139.865
##      V400      V401      V402      V403      V404      V405      V406      V407
## OTU 2140.865 2141.865 2142.865 2143.865 2144.865 2145.865 2146.865 2147.865
##      V408      V409      V410      V411      V412      V413      V414      V415
## OTU 2148.865 2149.865 2150.865 2151.865 2152.865 2153.865 2154.865 2155.865
##      V416      V417      V418      V419      V420      V421      V422      V423
## OTU 2156.865 2157.865 2158.865 2159.865 2160.865 2161.865 2162.865 2163.865
##      V424      V425      V426      V427      V428      V429      V430      V431
## OTU 2164.865 2165.865 2166.865 2167.865 2168.865 2169.865 2170.865 2171.865
##      V432      V433      V434      V435      V436      V437      V438      V439
## OTU 2172.865 2173.865 2174.865 2175.865 2176.865 2177.865 2178.865 2179.865
##      V440      V441      V442      V443      V444      V445      V446      V447
## OTU 2180.865 2181.865 2182.865 2183.865 2184.865 2185.865 2186.865 2187.865
##      V448      V449      V450      V451      V452      V453      V454      V455
## OTU 2188.865 2189.865 2190.865 2191.865 2192.865 2193.865 2194.865 2195.865
##      V456      V457      V458      V459      V460      V461      V462      V463
## OTU 2196.865 2197.865 2198.865 2199.865 2200.865 2201.865 2202.865 2203.865
##      V464      V465      V466      V467      V468      V469      V470      V471
## OTU 2204.865 2205.865 2206.865 2207.865 2208.865 2209.865 2210.865 2211.865
##      V472      V473      V474      V475      V476      V477      V478      V479
## OTU 2212.865 2213.865 2214.865 2215.865 2216.865 2217.865 2218.865 2219.865

```

```

##      V480      V481      V482      V483      V484      V485      V486      V487
## OTU 2220.865 2221.865 2222.865 2223.865 2224.865 2225.865 2226.865 2227.865
##      V488      V489      V490      V491      V492      V493      V494      V495
## OTU 2228.865 2229.865 2230.865 2231.865 2232.865 2233.865 2234.865 2235.865
##      V496      V497      V498      V499      V500      V501      V502      V503
## OTU 2236.865 2237.865 2238.865 2239.865 2240.865 2241.865 2242.865 2243.865
##      V504      V505      V506      V507      V508      V509      V510      V511
## OTU 2244.865 2245.865 2246.865 2247.865 2248.865 2249.865 2250.865 2251.865
##      V512      V513      V514      V515      V516      V517      V518      V519
## OTU 2252.865 2253.865 2254.865 2255.865 2256.865 2257.865 2258.865 2259.865
##      V520      V521      V522      V523      V524      V525      V526      V527
## OTU 2260.865 2261.865 2262.865 2263.865 2264.865 2265.865 2266.865 2267.865
##      V528      V529      V530      V531      V532      V533      V534      V535
## OTU 2268.865 2269.865 2270.865 2271.865 2272.865 2273.865 2274.865 2275.865
##      V536      V537      V538      V539      V540      V541      V542      V543
## OTU 2276.865 2277.865 2278.865 2279.865 2280.865 2281.865 2282.865 2283.865
##      V544      V545      V546      V547      V548      V549      V550      V551
## OTU 2284.865 2285.865 2286.865 2287.865 2288.865 2289.865 2290.865 2291.865
##      V552      V553      V554      V555      V556      V557      V558      V559
## OTU 2292.865 2293.865 2294.865 2295.865 2296.865 2297.865 2298.865 2299.865
##      V560      V561      V562      V563      V564      V565      V566      V567
## OTU 2300.865 2301.865 2302.865 2303.865 2304.865 2305.865 2306.865 2307.865
##      V568      V569      V570      V571      V572      V573      V574      V575
## OTU 2308.865 2309.865 2310.865 2311.865 2312.865 2313.865 2314.865 2315.865
##      V576      V577      V578      V579      V580      V581      V582      V583
## OTU 2316.865 2317.865 2318.865 2319.865 2320.865 2321.865 2322.865 2323.865
##      V584      V585      V586      V587      V588      V589      V590      V591
## OTU 2324.865 2325.865 2326.865 2327.865 2328.865 2329.865 2330.865 2331.865
##      V592      V593      V594      V595      V596      V597      V598      V599
## OTU 2332.865 2333.865 2334.865 2335.865 2336.865 2337.865 2338.865 2339.865
##      V600      V601      V602      V603      V604      V605      V606      V607
## OTU 2340.865 2341.865 2342.865 2343.865 2344.865 2345.865 2346.865 2347.865
##      V608      V609      V610      V611      V612      V613      V614      V615
## OTU 2348.865 2349.865 2350.865 2351.865 2352.865 2353.865 2354.865 2355.865
##      V616      V617      V618      V619      V620      V621      V622      V623
## OTU 2356.865 2357.865 2358.865 2359.865 2360.865 2361.865 2362.865 2363.865
##      V624      V625      V626      V627      V628      V629      V630      V631
## OTU 2364.865 2365.865 2366.865 2367.865 2368.865 2369.865 2370.865 2371.865
##      V632      V633      V634      V635      V636      V637      V638      V639
## OTU 2372.865 2373.865 2374.865 2375.865 2376.865 2377.865 2378.865 2379.865
##      V640      V641      V642      V643      V644      V645      V646      V647
## OTU 2380.865 2381.865 2382.865 2383.865 2384.865 2385.865 2386.865 2387.865
##      V648      V649      V650      V651      V652      V653      V654      V655
## OTU 2388.865 2389.865 2390.865 2391.865 2392.865 2393.865 2394.865 2395.865
##      V656      V657      V658      V659      V660      V661      V662      V663
## OTU 2396.865 2397.865 2398.865 2399.865 2400.865 2401.865 2402.865 2403.865
##      V664      V665      V666      V667      V668      V669      V670      V671
## OTU 2404.865 2405.865 2406.865 2407.865 2408.865 2409.865 2410.865 2411.865
##      V672      V673      V674      V675      V676      V677      V678      V679
## OTU 2412.865 2413.865 2414.865 2415.865 2416.865 2417.865 2418.865 2419.865
##      V680      V681      V682      V683      V684      V685      V686      V687
## OTU 2420.865 2421.865 2422.865 2423.865 2424.865 2425.865 2426.865 2427.865
##      V688      V689      V690      V691      V692      V693      V694      V695
## OTU 2428.865 2429.865 2430.865 2431.865 2432.865 2433.865 2434.865 2435.865

```

##	V696	V697	V698	V699	V700	V701	V702	V703
## OTU	2436.865	2437.865	2438.865	2439.865	2440.865	2441.865	2442.865	2443.865
##	V704	V705	V706	V707	V708	V709	V710	V711
## OTU	2444.865	2445.865	2446.865	2447.865	2448.865	2449.865	2450.865	2451.865
##	V712	V713	V714	V715	V716	V717	V718	V719
## OTU	2452.865	2453.865	2454.865	2455.865	2456.865	2457.865	2458.865	2459.865
##	V720	V721	V722	V723	V724	V725	V726	V727
## OTU	2460.865	2461.865	2462.865	2463.865	2464.865	2465.865	2466.865	2467.865
##	V728	V729	V730	V731	V732	V733	V734	V735
## OTU	2468.865	2469.865	2470.865	2471.865	2472.865	2473.865	2474.865	2475.865
##	V736	V737	V738	V739	V740	V741	V742	V743
## OTU	2476.865	2477.865	2478.865	2479.865	2480.865	2481.865	2482.865	2483.865
##	V744	V745	V746	V747	V748	V749	V750	V751
## OTU	2484.865	2485.865	2486.865	2487.865	2488.865	2489.865	2490.865	2491.865
##	V752	V753	V754	V755	V756	V757	V758	V759
## OTU	2492.865	2493.865	2494.865	2495.865	2496.865	2497.865	2498.865	2499.865
##	V760	V761	V762	V763	V764	V765	V766	V767
## OTU	2500.865	2501.865	2502.865	2503.865	2504.865	2505.865	2506.865	2507.865
##	V768	V769	V770	V771	V772	V773	V774	V775
## OTU	2508.865	2509.865	2510.865	2511.865	2512.865	2513.865	2514.865	2515.865
##	V776	V777	V778	V779	V780	V781	V782	V783
## OTU	2516.865	2517.865	2518.865	2519.865	2520.865	2521.865	2522.865	2523.865
##	V784	V785	V786	V787	V788	V789	V790	V791
## OTU	2524.865	2525.865	2526.865	2527.865	2528.865	2529.865	2530.865	2531.865
##	V792	V793	V794	V795	V796	V797	V798	V799
## OTU	2532.865	2533.865	2534.865	2535.865	2536.865	2537.865	2538.865	2539.865
##	V800	V801	V802	V803	V804	V805	V806	V807
## OTU	2540.865	2541.865	2542.865	2543.865	2544.865	2545.865	2546.865	2547.865
##	V808	V809	V810	V811	V812	V813	V814	V815
## OTU	2548.865	2549.865	2550.865	2551.865	2552.865	2553.865	2554.865	2555.865
##	V816	V817	V818	V819	V820	V821	V822	V823
## OTU	2556.865	2557.865	2558.865	2559.865	2560.865	2561.865	2562.865	2563.865
##	V824	V825	V826	V827	V828	V829	V830	V831
## OTU	2564.865	2565.865	2566.865	2567.865	2568.865	2569.865	2570.865	2571.865
##	V832	V833	V834	V835	V836	V837	V838	V839
## OTU	2572.865	2573.865	2574.865	2575.865	2576.865	2577.865	2578.865	2579.865
##	V840	V841	V842	V843	V844	V845	V846	V847
## OTU	2580.865	2581.865	2582.865	2583.865	2584.865	2585.865	2586.865	2587.865
##	V848	V849	V850	V851	V852	V853	V854	V855
## OTU	2588.865	2589.865	2590.865	2591.865	2592.865	2593.865	2594.865	2595.865
##	V856	V857	V858	V859	V860	V861	V862	V863
## OTU	2596.865	2597.865	2598.865	2599.865	2600.865	2601.865	2602.865	2603.865
##	V864	V865	V866	V867	V868	V869	V870	V871
## OTU	2604.865	2605.865	2606.865	2607.865	2608.865	2609.865	2610.865	2611.865
##	V872	V873	V874	V875	V876	V877	V878	V879
## OTU	2612.865	2613.865	2614.865	2615.865	2616.865	2617.865	2618.865	2619.865
##	V880	V881	V882	V883	V884	V885	V886	V887
## OTU	2620.865	2621.865	2622.865	2623.865	2624.865	2625.865	2626.865	2627.865
##	V888	V889	V890	V891	V892	V893	V894	V895
## OTU	2628.865	2629.865	2630.865	2631.865	2632.865	2633.865	2634.865	2635.865
##	V896	V897	V898	V899	V900	V901	V902	V903
## OTU	2636.865	2637.865	2638.865	2639.865	2640.865	2641.865	2642.865	2643.865
##	V904	V905	V906	V907	V908	V909	V910	V911
## OTU	2644.865	2645.865	2646.865	2647.865	2648.865	2649.865	2650.865	2651.865

##	V912	V913	V914	V915	V916	V917	V918	V919
## OTU	2652.865	2653.865	2654.865	2655.865	2656.865	2657.865	2658.865	2659.865
##	V920	V921	V922	V923	V924	V925	V926	V927
## OTU	2660.865	2661.865	2662.865	2663.865	2664.865	2665.865	2666.865	2667.865
##	V928	V929	V930	V931	V932	V933	V934	V935
## OTU	2668.865	2669.865	2670.865	2671.865	2672.865	2673.865	2674.865	2675.865
##	V936	V937	V938	V939	V940	V941	V942	V943
## OTU	2676.865	2677.865	2678.865	2679.865	2680.865	2681.865	2682.865	2683.865
##	V944	V945	V946	V947	V948	V949	V950	V951
## OTU	2684.865	2685.865	2686.865	2687.865	2688.865	2689.865	2690.865	2691.865
##	V952	V953	V954	V955	V956	V957	V958	V959
## OTU	2692.865	2693.865	2694.865	2695.865	2696.865	2697.865	2698.865	2699.865
##	V960	V961	V962	V963	V964	V965	V966	V967
## OTU	2700.865	2701.865	2702.865	2703.865	2704.865	2705.865	2706.865	2707.865
##	V968	V969	V970	V971	V972	V973	V974	V975
## OTU	2708.865	2709.865	2710.865	2711.865	2712.865	2713.865	2714.865	2715.865
##	V976	V977	V978	V979	V980	V981	V982	V983
## OTU	2716.865	2717.865	2718.865	2719.865	2720.865	2721.865	2722.865	2723.865
##	V984	V985	V986	V987	V988	V989	V990	V991
## OTU	2724.865	2725.865	2726.865	2727.865	2728.865	2729.865	2730.865	2731.865
##	V992	V993	V994	V995	V996	V997	V998	V999
## OTU	2732.865	2733.865	2734.865	2735.865	2736.865	2737.865	2738.865	2739.865
##	V1000	V1001	V1002	V1003	V1004	V1005	V1006	V1007
## OTU	2740.865	2741.865	2742.865	2743.865	2744.865	2745.865	2746.865	2747.865
##	V1008	V1009	V1010	V1011	V1012	V1013	V1014	V1015
## OTU	2748.865	2749.865	2750.865	2751.865	2752.865	2753.865	2754.865	2755.865
##	V1016	V1017	V1018	V1019	V1020	V1021	V1022	V1023
## OTU	2756.865	2757.865	2758.865	2759.865	2760.865	2761.865	2762.865	2763.865
##	V1024	V1025	V1026	V1027	V1028	V1029	V1030	V1031
## OTU	2764.865	2765.865	2766.865	2767.865	2768.865	2769.865	2770.865	2771.865
##	V1032	V1033	V1034	V1035	V1036	V1037	V1038	V1039
## OTU	2772.865	2773.865	2774.865	2775.865	2776.865	2777.865	2778.865	2779.865
##	V1040	V1041	V1042	V1043	V1044	V1045	V1046	V1047
## OTU	2780.865	2781.865	2782.865	2783.865	2784.865	2785.865	2786.865	2787.865
##	V1048	V1049	V1050	V1051	V1052	V1053	V1054	V1055
## OTU	2788.865	2789.865	2790.865	2791.865	2792.865	2793.865	2794.865	2795.865
##	V1056	V1057	V1058	V1059	V1060	V1061	V1062	V1063
## OTU	2796.865	2797.865	2798.865	2799.865	2800.865	2801.865	2802.865	2803.865
##	V1064	V1065	V1066	V1067	V1068	V1069	V1070	V1071
## OTU	2804.865	2805.865	2806.865	2807.865	2808.865	2809.865	2810.865	2811.865
##	V1072	V1073	V1074	V1075	V1076	V1077	V1078	V1079
## OTU	2812.865	2813.865	2814.865	2815.865	2816.865	2817.865	2818.865	2819.865
##	V1080	V1081	V1082	V1083	V1084	V1085	V1086	V1087
## OTU	2820.865	2821.865	2822.865	2823.865	2824.865	2825.865	2826.865	2827.865
##	V1088	V1089	V1090	V1091	V1092	V1093	V1094	V1095
## OTU	2828.865	2829.865	2830.865	2831.865	2832.865	2833.865	2834.865	2835.865
##	V1096	V1097	V1098	V1099	V1100	V1101	V1102	V1103
## OTU	2836.865	2837.865	2838.865	2839.865	2840.865	2841.865	2842.865	2843.865
##	V1104	V1105	V1106	V1107	V1108	V1109	V1110	V1111
## OTU	2844.865	2845.865	2846.865	2847.865	2848.865	2849.865	2850.865	2851.865
##	V1112	V1113	V1114	V1115	V1116	V1117	V1118	V1119
## OTU	2852.865	2853.865	2854.865	2855.865	2856.865	2857.865	2858.865	2859.865
##	V1120	V1121	V1122	V1123	V1124	V1125	V1126	V1127
## OTU	2860.865	2861.865	2862.865	2863.865	2864.865	2865.865	2866.865	2867.865

```

##      V1128      V1129      V1130      V1131      V1132      V1133      V1134      V1135
## OTU 2868.865 2869.865 2870.865 2871.865 2872.865 2873.865 2874.865 2875.865
##      V1136      V1137      V1138      V1139      V1140      V1141      V1142      V1143
## OTU 2876.865 2877.865 2878.865 2879.865 2880.865 2881.865 2882.865 2883.865
##      V1144      V1145      V1146      V1147      V1148      V1149      V1150      V1151
## OTU 2884.865 2885.865 2886.865 2887.865 2888.865 2889.865 2890.865 2891.865
##      V1152      V1153      V1154      V1155      V1156      V1157      V1158      V1159
## OTU 2892.865 2893.865 2894.865 2895.865 2896.865 2897.865 2898.865 2899.865
##      V1160      V1161      V1162      V1163      V1164      V1165      V1166      V1167
## OTU 2900.865 2901.865 2902.865 2903.865 2904.865 2905.865 2906.865 2907.865
##      V1168      V1169      V1170      V1171      V1172      V1173      V1174      V1175
## OTU 2908.865 2909.865 2910.865 2911.865 2912.865 2913.865 2914.865 2915.865
##      V1176      V1177      V1178      V1179      V1180      V1181      V1182      V1183
## OTU 2916.865 2917.865 2918.865 2919.865 2920.865 2921.865 2922.865 2923.865
##      V1184      V1185      V1186      V1187      V1188      V1189      V1190      V1191
## OTU 2924.865 2925.865 2926.865 2927.865 2928.865 2929.865 2930.865 2931.865
##      V1192      V1193      V1194      V1195      V1196      V1197      V1198      V1199
## OTU 2932.865 2933.865 2934.865 2935.865 2936.865 2937.865 2938.865 2939.865
##      V1200      V1201      V1202      V1203      V1204      V1205      V1206      V1207
## OTU 2940.865 2941.865 2942.865 2943.865 2944.865 2945.865 2946.865 2947.865
##      V1208      V1209      V1210      V1211      V1212      V1213      V1214      V1215
## OTU 2948.865 2949.865 2950.865 2951.865 2952.865 2953.865 2954.865 2955.865
##      V1216      V1217      V1218      V1219      V1220      V1221      V1222      V1223
## OTU 2956.865 2957.865 2958.865 2959.865 2960.865 2961.865 2962.865 2963.865
##      V1224      V1225      V1226      V1227      V1228      V1229      V1230      V1231
## OTU 2964.865 2965.865 2966.865 2967.865 2968.865 2969.865 2970.865 2971.865
##      V1232      V1233      V1234      V1235      V1236      V1237      V1238      V1239
## OTU 2972.865 2973.865 2974.865 2975.865 2976.865 2977.865 2978.865 2979.865
##      V1240      V1241      V1242      V1243      V1244      V1245      V1246      V1247
## OTU 2980.865 2981.865 2982.865 2983.865 2984.865 2985.865 2986.865 2987.865
##      V1248      V1249      V1250      V1251      V1252      V1253      V1254      V1255
## OTU 2988.865 2989.865 2990.865 2991.865 2992.865 2993.865 2994.865 2995.865
##      V1256      V1257      V1258      V1259      V1260      V1261      V1262      V1263
## OTU 2996.865 2997.865 2998.865 2999.865 3000.865 3001.865 3002.865 3003.865
##      V1264      V1265      V1266      V1267      V1268      V1269      V1270      V1271
## OTU 3004.865 3005.865 3006.865 3007.865 3008.865 3009.865 3010.865 3011.865
##      V1272      V1273      V1274      V1275      V1276      V1277      V1278      V1279
## OTU 3012.865 3013.865 3014.865 3015.865 3016.865 3017.865 3018.865 3019.865
##      V1280      V1281      V1282      V1283      V1284      V1285      V1286      V1287
## OTU 3020.865 3021.865 3022.865 3023.865 3024.865 3025.865 3026.865 3027.865
##      V1288      V1289      V1290      V1291      V1292      V1293      V1294      V1295
## OTU 3028.865 3029.865 3030.865 3031.865 3032.865 3033.865 3034.865 3035.865
##      V1296      V1297      V1298      V1299      V1300      V1301      V1302      V1303
## OTU 3036.865 3037.865 3038.865 3039.865 3040.865 3041.865 3042.865 3043.865
##      V1304      V1305      V1306      V1307      V1308      V1309      V1310      V1311
## OTU 3044.865 3045.865 3046.865 3047.865 3048.865 3049.865 3050.865 3051.865
##      V1312      V1313      V1314      V1315      V1316      V1317      V1318      V1319
## OTU 3052.865 3053.865 3054.865 3055.865 3056.865 3057.865 3058.865 3059.865
##      V1320      V1321      V1322      V1323      V1324      V1325      V1326      V1327
## OTU 3060.865 3061.865 3062.865 3063.865 3064.865 3065.865 3066.865 3067.865
##      V1328      V1329      V1330      V1331      V1332      V1333      V1334      V1335
## OTU 3068.865 3069.865 3070.865 3071.865 3072.865 3073.865 3074.865 3075.865
##      V1336      V1337      V1338      V1339      V1340      V1341      V1342      V1343
## OTU 3076.865 3077.865 3078.865 3079.865 3080.865 3081.865 3082.865 3083.865

```

```

##      V1344      V1345      V1346      V1347      V1348      V1349      V1350      V1351
## OTU 3084.865 3085.865 3086.865 3087.865 3088.865 3089.865 3090.865 3091.865
##      V1352      V1353      V1354      V1355      V1356      V1357      V1358      V1359
## OTU 3092.865 3093.865 3094.865 3095.865 3096.865 3097.865 3098.865 3099.865
##      V1360      V1361      V1362      V1363      V1364      V1365      V1366      V1367
## OTU 3100.865 3101.865 3102.865 3103.865 3104.865 3105.865 3106.865 3107.865
##      V1368      V1369      V1370      V1371      V1372      V1373      V1374      V1375
## OTU 3108.865 3109.865 3110.865 3111.865 3112.865 3113.865 3114.865 3115.865
##      V1376      V1377      V1378      V1379      V1380      V1381      V1382      V1383
## OTU 3116.865 3117.865 3118.865 3119.865 3120.865 3121.865 3122.865 3123.865
##      V1384      V1385      V1386      V1387      V1388      V1389      V1390      V1391
## OTU 3124.865 3125.865 3126.865 3127.865 3128.865 3129.865 3130.865 3131.865
##      V1392      V1393      V1394      V1395      V1396      V1397      V1398      V1399
## OTU 3132.865 3133.865 3134.865 3135.865 3136.865 3137.865 3138.865 3139.865
##      V1400      V1401      V1402      V1403      V1404      V1405      V1406      V1407
## OTU 3140.865 3141.865 3142.865 3143.865 3144.865 3145.865 3146.865 3147.865
##      V1408      V1409      V1410      V1411      V1412      V1413      V1414      V1415
## OTU 3148.865 3149.865 3150.865 3151.865 3152.865 3153.865 3154.865 3155.865
##      V1416      V1417      V1418      V1419      V1420      V1421      V1422      V1423
## OTU 3156.865 3157.865 3158.865 3159.865 3160.865 3161.865 3162.865 3163.865
##      V1424      V1425      V1426      V1427      V1428      V1429      V1430      V1431
## OTU 3164.865 3165.865 3166.865 3167.865 3168.865 3169.865 3170.865 3171.865
##      V1432      V1433      V1434      V1435      V1436      V1437      V1438      V1439
## OTU 3172.865 3173.865 3174.865 3175.865 3176.865 3177.865 3178.865 3179.865
##      V1440      V1441      V1442      V1443      V1444      V1445      V1446      V1447
## OTU 3180.865 3181.865 3182.865 3183.865 3184.865 3185.865 3186.865 3187.865
##      V1448      V1449      V1450      V1451      V1452      V1453      V1454      V1455
## OTU 3188.865 3189.865 3190.865 3191.865 3192.865 3193.865 3194.865 3195.865
##      V1456      V1457      V1458      V1459      V1460      V1461      V1462      V1463
## OTU 3196.865 3197.865 3198.865 3199.865 3200.865 3201.865 3202.865 3203.865
##      V1464      V1465      V1466      V1467      V1468      V1469      V1470      V1471
## OTU 3204.865 3205.865 3206.865 3207.865 3208.865 3209.865 3210.865 3211.865
##      V1472      V1473      V1474      V1475      V1476      V1477      V1478      V1479
## OTU 3212.865 3213.865 3214.865 3215.865 3216.865 3217.865 3218.865 3219.865
##      V1480      V1481      V1482      V1483      V1484      V1485      V1486      V1487
## OTU 3220.865 3221.865 3222.865 3223.865 3224.865 3225.865 3226.865 3227.865
##      V1488      V1489      V1490      V1491      V1492      V1493      V1494      V1495
## OTU 3228.865 3229.865 3230.865 3231.865 3232.865 3233.865 3234.865 3235.865
##      V1496      V1497      V1498      V1499      V1500      V1501      V1502      V1503
## OTU 3236.865 3237.865 3238.865 3239.865 3240.865 3241.865 3242.865 3243.865
##      V1504      V1505      V1506      V1507      V1508      V1509      V1510      V1511
## OTU 3244.865 3245.865 3246.865 3247.865 3248.865 3249.865 3250.865 3251.865
##      V1512      V1513      V1514      V1515      V1516      V1517      V1518      V1519
## OTU 3252.865 3253.865 3254.865 3255.865 3256.865 3257.865 3258.865 3259.865
##      V1520      V1521      V1522      V1523      V1524      V1525      V1526      V1527
## OTU 3260.865 3261.865 3262.865 3263.865 3264.865 3265.865 3266.865 3267.865
##      V1528      V1529      V1530      V1531      V1532      V1533      V1534      V1535
## OTU 3268.865 3269.865 3270.865 3271.865 3272.865 3273.865 3274.865 3275.865
##      V1536      V1537      V1538      V1539      V1540      V1541      V1542      V1543
## OTU 3276.865 3277.865 3278.865 3279.865 3280.865 3281.865 3282.865 3283.865
##      V1544      V1545      V1546      V1547      V1548      V1549      V1550      V1551
## OTU 3284.865 3285.865 3286.865 3287.865 3288.865 3289.865 3290.865 3291.865
##      V1552      V1553      V1554      V1555      V1556      V1557      V1558      V1559
## OTU 3292.865 3293.865 3294.865 3295.865 3296.865 3297.865 3298.865 3299.865

```

```

##      V1560      V1561      V1562      V1563      V1564      V1565      V1566      V1567
## OTU 3300.865 3301.865 3302.865 3303.865 3304.865 3305.865 3306.865 3307.865
##      V1568      V1569      V1570      V1571      V1572      V1573      V1574      V1575
## OTU 3308.865 3309.865 3310.865 3311.865 3312.865 3313.865 3314.865 3315.865
##      V1576      V1577      V1578      V1579      V1580      V1581      V1582      V1583
## OTU 3316.865 3317.865 3318.865 3319.865 3320.865 3321.865 3322.865 3323.865
##      V1584      V1585      V1586      V1587      V1588      V1589      V1590      V1591
## OTU 3324.865 3325.865 3326.865 3327.865 3328.865 3329.865 3330.865 3331.865
##      V1592      V1593      V1594      V1595      V1596      V1597      V1598      V1599
## OTU 3332.865 3333.865 3334.865 3335.865 3336.865 3337.865 3338.865 3339.865
##      V1600      V1601      V1602      V1603      V1604      V1605      V1606      V1607
## OTU 3340.865 3341.865 3342.865 3343.865 3344.865 3345.865 3346.865 3347.865
##      V1608      V1609      V1610      V1611      V1612      V1613      V1614      V1615
## OTU 3348.865 3349.865 3350.865 3351.865 3352.865 3353.865 3354.865 3355.865
##      V1616      V1617      V1618      V1619      V1620      V1621      V1622      V1623
## OTU 3356.865 3357.865 3358.865 3359.865 3360.865 3361.865 3362.865 3363.865
##      V1624      V1625      V1626      V1627      V1628      V1629      V1630      V1631
## OTU 3364.865 3365.865 3366.865 3367.865 3368.865 3369.865 3370.865 3371.865
##      V1632      V1633      V1634      V1635      V1636      V1637      V1638      V1639
## OTU 3372.865 3373.865 3374.865 3375.865 3376.865 3377.865 3378.865 3379.865
##      V1640      V1641      V1642      V1643      V1644      V1645      V1646      V1647
## OTU 3380.865 3381.865 3382.865 3383.865 3384.865 3385.865 3386.865 3387.865
##      V1648      V1649      V1650      V1651      V1652      V1653      V1654      V1655
## OTU 3388.865 3389.865 3390.865 3391.865 3392.865 3393.865 3394.865 3395.865
##      V1656      V1657      V1658      V1659      V1660      V1661      V1662      V1663
## OTU 3396.865 3397.865 3398.865 3399.865 3400.865 3401.865 3402.865 3403.865
##      V1664      V1665      V1666      V1667      V1668      V1669      V1670      V1671
## OTU 3404.865 3405.865 3406.865 3407.865 3408.865 3409.865 3410.865 3411.865
##      V1672      V1673      V1674      V1675      V1676      V1677      V1678      V1679
## OTU 3412.865 3413.865 3414.865 3415.865 3416.865 3417.865 3418.865 3419.865
##      V1680      V1681      V1682      V1683      V1684      V1685      V1686      V1687
## OTU 3420.865 3421.865 3422.865 3423.865 3424.865 3425.865 3426.865 3427.865
##      V1688      V1689      V1690      V1691      V1692      V1693      V1694      V1695
## OTU 3428.865 3429.865 3430.865 3431.865 3432.865 3433.865 3434.865 3435.865
##      V1696      V1697      V1698      V1699      V1700      V1701      V1702      V1703
## OTU 3436.865 3437.865 3438.865 3439.865 3440.865 3441.865 3442.865 3443.865
##      V1704      V1705      V1706      V1707      V1708      V1709      V1710      V1711
## OTU 3444.865 3445.865 3446.865 3447.865 3448.865 3449.865 3450.865 3451.865
##      V1712      V1713      V1714      V1715      V1716      V1717      V1718      V1719
## OTU 3452.865 3453.865 3454.865 3455.865 3456.865 3457.865 3458.865 3459.865
##      V1720      V1721      V1722      V1723      V1724      V1725      V1726      V1727
## OTU 3460.865 3461.865 3462.865 3463.865 3464.865 3465.865 3466.865 3467.865
##      V1728      V1729      V1730      V1731      V1732      V1733      V1734      V1735
## OTU 3468.865 3469.865 3470.865 3471.865 3472.865 3473.865 3474.865 3475.865
##      V1736      V1737      V1738      V1739      V1740      V1741      V1742      V1743
## OTU 3476.865 3477.865 3478.865 3479.865 3480.865 3481.865 3482.865 3483.865
##      V1744      V1745      V1746      V1747      V1748      V1749      V1750      V1751
## OTU 3484.865 3485.865 3486.865 3487.865 3488.865 3489.865 3490.865 3491.865
##      V1752      V1753      V1754      V1755      V1756      V1757      V1758      V1759
## OTU 3492.865 3493.865 3494.865 3495.865 3496.865 3497.865 3498.865 3499.865
##      V1760      V1761      V1762      V1763      V1764      V1765      V1766      V1767
## OTU 3500.865 3501.865 3502.865 3503.865 3504.865 3505.865 3506.865 3507.865
##      V1768      V1769      V1770      V1771      V1772      V1773      V1774      V1775
## OTU 3508.865 3509.865 3510.865 3511.865 3512.865 3513.865 3514.865 3515.865

```

	V1776	V1777	V1778	V1779	V1780	V1781	V1782	V1783
##								
##	OTU	3516.865	3517.865	3518.865	3519.865	3520.865	3521.865	3522.865
##								3523.865
##	V1784	V1785	V1786	V1787	V1788	V1789	V1790	V1791
##	OTU	3524.865	3525.865	3526.865	3527.865	3528.865	3529.865	3530.865
##								3531.865
##	V1792	V1793	V1794	V1795	V1796	V1797	V1798	V1799
##	OTU	3532.865	3533.865	3534.865	3535.865	3536.865	3537.865	3538.865
##								3539.865
##	V1800	V1801	V1802	V1803	V1804	V1805	V1806	V1807
##	OTU	3540.865	3541.865	3542.865	3543.865	3544.865	3545.865	3546.865
##								3547.865
##	V1808	V1809	V1810	V1811	V1812	V1813	V1814	V1815
##	OTU	3548.865	3549.865	3550.865	3551.865	3552.865	3553.865	3554.865
##								3555.865
##	V1816	V1817	V1818	V1819	V1820	V1821	V1822	V1823
##	OTU	3556.865	3557.865	3558.865	3559.865	3560.865	3561.865	3562.865
##								3563.865
##	V1824	V1825	V1826	V1827	V1828	V1829	V1830	V1831
##	OTU	3564.865	3565.865	3566.865	3567.865	3568.865	3569.865	3570.865
##								3571.865
##	V1832	V1833	V1834	V1835	V1836	V1837	V1838	V1839
##	OTU	3572.865	3573.865	3574.865	3575.865	3576.865	3577.865	3578.865
##								3579.865
##	V1840	V1841	V1842	V1843	V1844	V1845	V1846	V1847
##	OTU	3580.865	3581.865	3582.865	3583.865	3584.865	3585.865	3586.865
##								3587.865
##	V1848	V1849	V1850	V1851	V1852	V1853	V1854	V1855
##	OTU	3588.865	3589.865	3590.865	3591.865	3592.865	3593.865	3594.865
##								3595.865
##	V1856	V1857	V1858	V1859	V1860	V1861	V1862	V1863
##	OTU	3596.865	3597.865	3598.865	3599.865	3600.865	3601.865	3602.865
##								3603.865
##	V1864	V1865	V1866	V1867	V1868	V1869	V1870	V1871
##	OTU	3604.865	3605.865	3606.865	3607.865	3608.865	3609.865	3610.865
##								3611.865
##	V1872	V1873	V1874	V1875	V1876	V1877	V1878	V1879
##	OTU	3612.865	3613.865	3614.865	3615.865	3616.865	3617.865	3618.865
##								3619.865
##	V1880	V1881	V1882	V1883	V1884	V1885	V1886	V1887
##	OTU	3620.865	3621.865	3622.865	3623.865	3624.865	3625.865	3626.865
##								3627.865
##	V1888	V1889	V1890	V1891	V1892	V1893	V1894	V1895
##	OTU	3628.865	3629.865	3630.865	3631.865	3632.865	3633.865	3634.865
##								3635.865
##	V1896	V1897	V1898	V1899	V1900	V1901	V1902	V1903
##	OTU	3636.865	3637.865	3638.865	3639.865	3640.865	3641.865	3642.865
##								3643.865
##	V1904	V1905	V1906	V1907	V1908	V1909	V1910	V1911
##	OTU	3644.865	3645.865	3646.865	3647.865	3648.865	3649.865	3650.865
##								3651.865
##	V1912	V1913	V1914	V1915	V1916	V1917	V1918	V1919
##	OTU	3652.865	3653.865	3654.865	3655.865	3656.865	3657.865	3658.865
##								3659.865
##	V1920	V1921	V1922	V1923	V1924	V1925	V1926	V1927
##	OTU	3660.865	3661.865	3662.865	3663.865	3664.865	3665.865	3666.865
##								3667.865
##	V1928	V1929	V1930	V1931	V1932	V1933	V1934	V1935
##	OTU	3668.865	3669.865	3670.865	3671.865	3672.865	3673.865	3674.865
##								3675.865
##	V1936	V1937	V1938	V1939	V1940	V1941	V1942	V1943
##	OTU	3676.865	3677.865	3678.865	3679.865	3680.865	3681.865	3682.865
##								3683.865
##	V1944	V1945	V1946	V1947	V1948	V1949	V1950	V1951
##	OTU	3684.865	3685.865	3686.865	3687.865	3688.865	3689.865	3690.865
##								3691.865
##	V1952	V1953	V1954	V1955	V1956	V1957	V1958	V1959
##	OTU	3692.865	3693.865	3694.865	3695.865	3696.865	3697.865	3698.865
##								3699.865
##	V1960	V1961	V1962	V1963	V1964	V1965	V1966	V1967
##	OTU	3700.865	3701.865	3702.865	3703.865	3704.865	3705.865	3706.865
##								3707.865
##	V1968	V1969	V1970	V1971	V1972	V1973	V1974	V1975
##	OTU	3708.865	3709.865	3710.865	3711.865	3712.865	3713.865	3714.865
##								3715.865
##	V1976	V1977	V1978	V1979	V1980	V1981	V1982	V1983
##	OTU	3716.865	3717.865	3718.865	3719.865	3720.865	3721.865	3722.865
##								3723.865
##	V1984	V1985	V1986	V1987	V1988	V1989	V1990	V1991
##	OTU	3724.865	3725.865	3726.865	3727.865	3728.865	3729.865	3730.865
##								3731.865

	V1992	V1993	V1994	V1995	V1996	V1997	V1998	V1999	
##									
##	OTU	3732.865	3733.865	3734.865	3735.865	3736.865	3737.865	3738.865	3739.865
##	V2000	V2001	V2002	V2003	V2004	V2005	V2006	V2007	
##	OTU	3740.865	3741.865	3742.865	3743.865	3744.865	3745.865	3746.865	3747.865
##	V2008	V2009	V2010	V2011	V2012	V2013	V2014	V2015	
##	OTU	3748.865	3749.865	3750.865	3751.865	3752.865	3753.865	3754.865	3755.865
##	V2016	V2017	V2018	V2019	V2020	V2021	V2022	V2023	
##	OTU	3756.865	3757.865	3758.865	3759.865	3760.865	3761.865	3762.865	3763.865
##	V2024	V2025	V2026	V2027	V2028	V2029	V2030	V2031	
##	OTU	3764.865	3765.865	3766.865	3767.865	3768.865	3769.865	3770.865	3771.865
##	V2032	V2033	V2034	V2035	V2036	V2037	V2038	V2039	
##	OTU	3772.865	3773.865	3774.865	3775.865	3776.865	3777.865	3778.865	3779.865
##	V2040	V2041	V2042	V2043	V2044	V2045	V2046	V2047	
##	OTU	3780.865	3781.865	3782.865	3783.865	3784.865	3785.865	3786.865	3787.865
##	V2048	V2049	V2050	V2051	V2052	V2053	V2054	V2055	
##	OTU	3788.865	3789.865	3790.865	3791.865	3792.865	3793.865	3794.865	3795.865
##	V2056	V2057	V2058	V2059	V2060	V2061	V2062	V2063	
##	OTU	3796.865	3797.865	3798.865	3799.865	3800.865	3801.865	3802.865	3803.865
##	V2064	V2065	V2066	V2067	V2068	V2069	V2070	V2071	
##	OTU	3804.865	3805.865	3806.865	3807.865	3808.865	3809.865	3810.865	3811.865
##	V2072	V2073	V2074	V2075	V2076	V2077	V2078	V2079	
##	OTU	3812.865	3813.865	3814.865	3815.865	3816.865	3817.865	3818.865	3819.865
##	V2080	V2081	V2082	V2083	V2084	V2085	V2086	V2087	
##	OTU	3820.865	3821.865	3822.865	3823.865	3824.865	3825.865	3826.865	3827.865
##	V2088	V2089	V2090	V2091	V2092	V2093	V2094	V2095	
##	OTU	3828.865	3829.865	3830.865	3831.865	3832.865	3833.865	3834.865	3835.865
##	V2096	V2097	V2098	V2099	V2100	V2101	V2102	V2103	
##	OTU	3836.865	3837.865	3838.865	3839.865	3840.865	3841.865	3842.865	3843.865
##	V2104	V2105	V2106	V2107	V2108	V2109	V2110	V2111	
##	OTU	3844.865	3845.865	3846.865	3847.865	3848.865	3849.865	3850.865	3851.865
##	V2112	V2113	V2114	V2115	V2116	V2117	V2118	V2119	
##	OTU	3852.865	3853.865	3854.865	3855.865	3856.865	3857.865	3858.865	3859.865
##	V2120	V2121	V2122	V2123	V2124	V2125	V2126	V2127	
##	OTU	3860.865	3861.865	3862.865	3863.865	3864.865	3865.865	3866.865	3867.865
##	V2128	V2129	V2130	V2131	V2132	V2133	V2134	V2135	
##	OTU	3868.865	3869.865	3870.865	3871.865	3872.865	3873.865	3874.865	3875.865
##	V2136	V2137	V2138	V2139	V2140	V2141	V2142	V2143	
##	OTU	3876.865	3877.865	3878.865	3879.865	3880.865	3881.865	3882.865	3883.865
##	V2144	V2145	V2146	V2147	V2148	V2149	V2150	V2151	
##	OTU	3884.865	3885.865	3886.865	3887.865	3888.865	3889.865	3890.865	3891.865
##	V2152	V2153	V2154	V2155	V2156	V2157	V2158	V2159	
##	OTU	3892.865	3893.865	3894.865	3895.865	3896.865	3897.865	3898.865	3899.865
##	V2160	V2161	V2162	V2163	V2164	V2165	V2166	V2167	
##	OTU	3900.865	3901.865	3902.865	3903.865	3904.865	3905.865	3906.865	3907.865
##	V2168	V2169	V2170	V2171	V2172	V2173	V2174	V2175	
##	OTU	3908.865	3909.865	3910.865	3911.865	3912.865	3913.865	3914.865	3915.865
##	V2176	V2177	V2178	V2179	V2180	V2181	V2182	V2183	
##	OTU	3916.865	3917.865	3918.865	3919.865	3920.865	3921.865	3922.865	3923.865
##	V2184	V2185	V2186	V2187	V2188	V2189	V2190	V2191	
##	OTU	3924.865	3925.865	3926.865	3927.865	3928.865	3929.865	3930.865	3931.865
##	V2192	V2193	V2194	V2195	V2196	V2197	V2198	V2199	
##	OTU	3932.865	3933.865	3934.865	3935.865	3936.865	3937.865	3938.865	3939.865
##	V2200	V2201	V2202	V2203	V2204	V2205	V2206	V2207	
##	OTU	3940.865	3941.865	3942.865	3943.865	3944.865	3945.865	3946.865	3947.865

##	V2208	V2209	V2210	V2211	V2212	V2213	V2214	V2215
## OTU	3948.865	3949.865	3950.865	3951.865	3952.865	3953.865	3954.865	3955.865
##	V2216	V2217	V2218	V2219	V2220	V2221	V2222	V2223
## OTU	3956.865	3957.865	3958.865	3959.865	3960.865	3961.865	3962.865	3963.865
##	V2224	V2225	V2226	V2227	V2228	V2229	V2230	V2231
## OTU	3964.865	3965.865	3966.865	3967.865	3968.865	3969.865	3970.865	3971.865
##	V2232	V2233	V2234	V2235	V2236	V2237	V2238	V2239
## OTU	3972.865	3973.865	3974.865	3975.865	3976.865	3977.865	3978.865	3979.865
##	V2240	V2241	V2242	V2243	V2244	V2245	V2246	V2247
## OTU	3980.865	3981.865	3982.865	3983.865	3984.865	3985.865	3986.865	3987.865
##	V2248	V2249	V2250	V2251	V2252	V2253	V2254	V2255
## OTU	3988.865	3989.865	3990.865	3991.865	3992.865	3993.865	3994.865	3995.865
##	V2256	V2257	V2258	V2259	V2260	V2261	V2262	V2263
## OTU	3996.865	3997.865	3998.865	3999.865	4000.865	4001.865	4002.865	4003.865
##	V2264	V2265	V2266	V2267	V2268	V2269	V2270	V2271
## OTU	4004.865	4005.865	4006.865	4007.865	4008.865	4009.865	4010.865	4011.865
##	V2272	V2273	V2274	V2275	V2276	V2277	V2278	V2279
## OTU	4012.865	4013.865	4014.865	4015.865	4016.865	4017.865	4018.865	4019.865
##	V2280	V2281	V2282	V2283	V2284	V2285	V2286	V2287
## OTU	4020.865	4021.865	4022.865	4023.865	4024.865	4025.865	4026.865	4027.865
##	V2288	V2289	V2290	V2291	V2292	V2293	V2294	V2295
## OTU	4028.865	4029.865	4030.865	4031.865	4032.865	4033.865	4034.865	4035.865
##	V2296	V2297	V2298	V2299	V2300	V2301	V2302	V2303
## OTU	4036.865	4037.865	4038.865	4039.865	4040.865	4041.865	4042.865	4043.865
##	V2304	V2305	V2306	V2307	V2308	V2309	V2310	V2311
## OTU	4044.865	4045.865	4046.865	4047.865	4048.865	4049.865	4050.865	4051.865
##	V2312	V2313	V2314	V2315	V2316	V2317	V2318	V2319
## OTU	4052.865	4053.865	4054.865	4055.865	4056.865	4057.865	4058.865	4059.865
##	V2320	V2321	V2322	V2323	V2324	V2325	V2326	V2327
## OTU	4060.865	4061.865	4062.865	4063.865	4064.865	4065.865	4066.865	4067.865
##	V2328	V2329	V2330	V2331	V2332	V2333	V2334	V2335
## OTU	4068.865	4069.865	4070.865	4071.865	4072.865	4073.865	4074.865	4075.865
##	V2336	V2337	V2338	V2339	V2340	V2341	V2342	V2343
## OTU	4076.865	4077.865	4078.865	4079.865	4080.865	4081.865	4082.865	4083.865
##	V2344	V2345	V2346	V2347	V2348	V2349	V2350	V2351
## OTU	4084.865	4085.865	4086.865	4087.865	4088.865	4089.865	4090.865	4091.865
##	V2352	V2353	V2354	V2355	V2356	V2357	V2358	V2359
## OTU	4092.865	4093.865	4094.865	4095.865	4096.865	4097.865	4098.865	4099.865
##	V2360	V2361	V2362	V2363	V2364	V2365	V2366	V2367
## OTU	4100.865	4101.865	4102.865	4103.865	4104.865	4105.865	4106.865	4107.865
##	V2368	V2369	V2370	V2371	V2372	V2373	V2374	V2375
## OTU	4108.865	4109.865	4110.865	4111.865	4112.865	4113.865	4114.865	4115.865
##	V2376	V2377	V2378	V2379	V2380	V2381	V2382	V2383
## OTU	4116.865	4117.865	4118.865	4119.865	4120.865	4121.865	4122.865	4123.865
##	V2384	V2385	V2386	V2387	V2388	V2389	V2390	V2391
## OTU	4124.865	4125.865	4126.865	4127.865	4128.865	4129.865	4130.865	4131.865
##	V2392	V2393	V2394	V2395	V2396	V2397	V2398	V2399
## OTU	4132.865	4133.865	4134.865	4135.865	4136.865	4137.865	4138.865	4139.865
##	V2400	V2401	V2402	V2403	V2404	V2405	V2406	V2407
## OTU	4140.865	4141.865	4142.865	4143.865	4144.865	4145.865	4146.865	4147.865
##	V2408	V2409	V2410	V2411	V2412	V2413	V2414	V2415
## OTU	4148.865	4149.865	4150.865	4151.865	4152.865	4153.865	4154.865	4155.865
##	V2416	V2417	V2418	V2419	V2420	V2421	V2422	V2423
## OTU	4156.865	4157.865	4158.865	4159.865	4160.865	4161.865	4162.865	4163.865

```

##      V2424      V2425      V2426      V2427      V2428      V2429      V2430      V2431
## OTU 4164.865 4165.865 4166.865 4167.865 4168.865 4169.865 4170.865 4171.865
##      V2432      V2433      V2434      V2435      V2436      V2437      V2438      V2439
## OTU 4172.865 4173.865 4174.865 4175.865 4176.865 4177.865 4178.865 4179.865
##      V2440      V2441      V2442      V2443      V2444      V2445      V2446      V2447
## OTU 4180.865 4181.865 4182.865 4183.865 4184.865 4185.865 4186.865 4187.865
##      V2448      V2449      V2450      V2451      V2452      V2453      V2454      V2455
## OTU 4188.865 4189.865 4190.865 4191.865 4192.865 4193.865 4194.865 4195.865
##      V2456      V2457      V2458      V2459      V2460      V2461      V2462      V2463
## OTU 4196.865 4197.865 4198.865 4199.865 4200.865 4201.865 4202.865 4203.865
##      V2464      V2465      V2466      V2467      V2468      V2469      V2470      V2471
## OTU 4204.865 4205.865 4206.865 4207.865 4208.865 4209.865 4210.865 4211.865
##      V2472      V2473      V2474      V2475      V2476      V2477      V2478      V2479
## OTU 4212.865 4213.865 4214.865 4215.865 4216.865 4217.865 4218.865 4219.865
##      V2480      V2481      V2482      V2483      V2484      V2485      V2486      V2487
## OTU 4220.865 4221.865 4222.865 4223.865 4224.865 4225.865 4226.865 4227.865
##      V2488      V2489      V2490      V2491      V2492      V2493      V2494      V2495
## OTU 4228.865 4229.865 4230.865 4231.865 4232.865 4233.865 4234.865 4235.865
##      V2496      V2497      V2498      V2499      V2500      V2501      V2502      V2503
## OTU 4236.865 4237.865 4238.865 4239.865 4240.865 4241.865 4242.865 4243.865
##      V2504      V2505      V2506      V2507      V2508      V2509      V2510      V2511
## OTU 4244.865 4245.865 4246.865 4247.865 4248.865 4249.865 4250.865 4251.865
##      V2512      V2513      V2514      V2515      V2516      V2517      V2518      V2519
## OTU 4252.865 4253.865 4254.865 4255.865 4256.865 4257.865 4258.865 4259.865
##      V2520      V2521      V2522      V2523      V2524      V2525      V2526      V2527
## OTU 4260.865 4261.865 4262.865 4263.865 4264.865 4265.865 4266.865 4267.865
##      V2528      V2529      V2530      V2531      V2532      V2533      V2534      V2535
## OTU 4268.865 4269.865 4270.865 4271.865 4272.865 4273.865 4274.865 4275.865
##      V2536      V2537      V2538      V2539      V2540      V2541      V2542      V2543
## OTU 4276.865 4277.865 4278.865 4279.865 4280.865 4281.865 4282.865 4283.865
##      V2544      V2545      V2546      V2547      V2548      V2549      V2550      V2551
## OTU 4284.865 4285.865 4286.865 4287.865 4288.865 4289.865 4290.865 4291.865
##      V2552      V2553      V2554      V2555      V2556      V2557      V2558      V2559
## OTU 4292.865 4293.865 4294.865 4295.865 4296.865 4297.865 4298.865 4299.865
##      V2560      V2561      V2562      V2563      V2564      V2565      V2566      V2567
## OTU 4300.865 4301.865 4302.865 4303.865 4304.865 4305.865 4306.865 4307.865
##      V2568      V2569      V2570      V2571      V2572      V2573      V2574      V2575
## OTU 4308.865 4309.865 4310.865 4311.865 4312.865 4313.865 4314.865 4315.865
##      V2576      V2577      V2578      V2579      V2580      V2581      V2582      V2583
## OTU 4316.865 4317.865 4318.865 4319.865 4320.865 4321.865 4322.865 4323.865
##      V2584      V2585      V2586      V2587      V2588      V2589      V2590      V2591
## OTU 4324.865 4325.865 4326.865 4327.865 4328.865 4329.865 4330.865 4331.865
##      V2592      V2593      V2594      V2595      V2596      V2597      V2598      V2599
## OTU 4332.865 4333.865 4334.865 4335.865 4336.865 4337.865 4338.865 4339.865
##      V2600      V2601      V2602      V2603      V2604      V2605      V2606      V2607
## OTU 4340.865 4341.865 4342.865 4343.865 4344.865 4345.865 4346.865 4347.865
##      V2608      V2609      V2610      V2611      V2612      V2613      V2614      V2615
## OTU 4348.865 4349.865 4350.865 4351.865 4352.865 4353.865 4354.865 4355.865
##      V2616      V2617      V2618      V2619      V2620      V2621      V2622      V2623
## OTU 4356.865 4357.865 4358.865 4359.865 4360.865 4361.865 4362.865 4363.865
##      V2624      V2625      V2626      V2627      V2628      V2629      V2630      V2631
## OTU 4364.865 4365.865 4366.865 4367.865 4368.865 4369.865 4370.865 4371.865
##      V2632      V2633      V2634      V2635      V2636      V2637      V2638      V2639
## OTU 4372.865 4373.865 4374.865 4375.865 4376.865 4377.865 4378.865 4379.865

```

##	V2640	V2641	V2642	V2643	V2644	V2645	V2646	V2647
## OTU	4380.865	4381.865	4382.865	4383.865	4384.865	4385.865	4386.865	4387.865
##	V2648	V2649	V2650	V2651	V2652	V2653	V2654	V2655
## OTU	4388.865	4389.865	4390.865	4391.865	4392.865	4393.865	4394.865	4395.865
##	V2656	V2657	V2658	V2659	V2660	V2661	V2662	V2663
## OTU	4396.865	4397.865	4398.865	4399.865	4400.865	4401.865	4402.865	4403.865
##	V2664	V2665	V2666	V2667	V2668	V2669	V2670	V2671
## OTU	4404.865	4405.865	4406.865	4407.865	4408.865	4409.865	4410.865	4411.865
##	V2672	V2673	V2674	V2675	V2676	V2677	V2678	V2679
## OTU	4412.865	4413.865	4414.865	4415.865	4416.865	4417.865	4418.865	4419.865
##	V2680	V2681	V2682	V2683	V2684	V2685	V2686	V2687
## OTU	4420.865	4421.865	4422.865	4423.865	4424.865	4425.865	4426.865	4427.865
##	V2688	V2689	V2690	V2691	V2692	V2693	V2694	V2695
## OTU	4428.865	4429.865	4430.865	4431.865	4432.865	4433.865	4434.865	4435.865
##	V2696	V2697	V2698	V2699	V2700	V2701	V2702	V2703
## OTU	4436.865	4437.865	4438.865	4439.865	4440.865	4441.865	4442.865	4443.865
##	V2704	V2705	V2706	V2707	V2708	V2709	V2710	V2711
## OTU	4444.865	4445.865	4446.865	4447.865	4448.865	4449.865	4450.865	4451.865
##	V2712	V2713	V2714	V2715	V2716	V2717	V2718	V2719
## OTU	4452.865	4453.865	4454.865	4455.865	4456.865	4457.865	4458.865	4459.865
##	V2720	V2721	V2722	V2723	V2724	V2725	V2726	V2727
## OTU	4460.865	4461.865	4462.865	4463.865	4464.865	4465.865	4466.865	4467.865
##	V2728	V2729	V2730	V2731	V2732	V2733	V2734	V2735
## OTU	4468.865	4469.865	4470.865	4471.865	4472.865	4473.865	4474.865	4475.865
##	V2736	V2737	V2738	V2739	V2740	V2741	V2742	V2743
## OTU	4476.865	4477.865	4478.865	4479.865	4480.865	4481.865	4482.865	4483.865
##	V2744	V2745	V2746	V2747	V2748	V2749	V2750	V2751
## OTU	4484.865	4485.865	4486.865	4487.865	4488.865	4489.865	4490.865	4491.865
##	V2752	V2753	V2754	V2755	V2756	V2757	V2758	V2759
## OTU	4492.865	4493.865	4494.865	4495.865	4496.865	4497.865	4498.865	4499.865
##	V2760	V2761	V2762	V2763	V2764	V2765	V2766	V2767
## OTU	4500.865	4501.865	4502.865	4503.865	4504.865	4505.865	4506.865	4507.865
##	V2768	V2769	V2770	V2771	V2772	V2773	V2774	V2775
## OTU	4508.865	4509.865	4510.865	4511.865	4512.865	4513.865	4514.865	4515.865
##	V2776	V2777	V2778	V2779	V2780	V2781	V2782	V2783
## OTU	4516.865	4517.865	4518.865	4519.865	4520.865	4521.865	4522.865	4523.865
##	V2784	V2785	V2786	V2787	V2788	V2789	V2790	V2791
## OTU	4524.865	4525.865	4526.865	4527.865	4528.865	4529.865	4530.865	4531.865
##	V2792	V2793	V2794	V2795	V2796	V2797	V2798	V2799
## OTU	4532.865	4533.865	4534.865	4535.865	4536.865	4537.865	4538.865	4539.865
##	V2800	V2801	V2802	V2803	V2804	V2805	V2806	V2807
## OTU	4540.865	4541.865	4542.865	4543.865	4544.865	4545.865	4546.865	4547.865
##	V2808	V2809	V2810	V2811	V2812	V2813	V2814	V2815
## OTU	4548.865	4549.865	4550.865	4551.865	4552.865	4553.865	4554.865	4555.865
##	V2816	V2817	V2818	V2819	V2820	V2821	V2822	V2823
## OTU	4556.865	4557.865	4558.865	4559.865	4560.865	4561.865	4562.865	4563.865
##	V2824	V2825	V2826	V2827	V2828	V2829	V2830	V2831
## OTU	4564.865	4565.865	4566.865	4567.865	4568.865	4569.865	4570.865	4571.865
##	V2832	V2833	V2834	V2835	V2836	V2837	V2838	V2839
## OTU	4572.865	4573.865	4574.865	4575.865	4576.865	4577.865	4578.865	4579.865
##	V2840	V2841	V2842	V2843	V2844	V2845	V2846	V2847
## OTU	4580.865	4581.865	4582.865	4583.865	4584.865	4585.865	4586.865	4587.865
##	V2848	V2849	V2850	V2851	V2852	V2853	V2854	V2855
## OTU	4588.865	4589.865	4590.865	4591.865	4592.865	4593.865	4594.865	4595.865

```

##      V2856      V2857      V2858      V2859      V2860      V2861      V2862      V2863
## OTU 4596.865 4597.865 4598.865 4599.865 4600.865 4601.865 4602.865 4603.865
##      V2864      V2865      V2866      V2867      V2868      V2869      V2870      V2871
## OTU 4604.865 4605.865 4606.865 4607.865 4608.865 4609.865 4610.865 4611.865
##      V2872      V2873      V2874      V2875      V2876      V2877      V2878      V2879
## OTU 4612.865 4613.865 4614.865 4615.865 4616.865 4617.865 4618.865 4619.865
##      V2880      V2881      V2882      V2883      V2884      V2885      V2886      V2887
## OTU 4620.865 4621.865 4622.865 4623.865 4624.865 4625.865 4626.865 4627.865
##      V2888      V2889      V2890      V2891      V2892      V2893      V2894      V2895
## OTU 4628.865 4629.865 4630.865 4631.865 4632.865 4633.865 4634.865 4635.865
##      V2896      V2897      V2898      V2899      V2900      V2901      V2902      V2903
## OTU 4636.865 4637.865 4638.865 4639.865 4640.865 4641.865 4642.865 4643.865
##      V2904      V2905      V2906      V2907      V2908      V2909      V2910      V2911
## OTU 4644.865 4645.865 4646.865 4647.865 4648.865 4649.865 4650.865 4651.865
##      V2912      V2913      V2914      V2915      V2916      V2917      V2918      V2919
## OTU 4652.865 4653.865 4654.865 4655.865 4656.865 4657.865 4658.865 4659.865
##      V2920      V2921      V2922      V2923      V2924      V2925      V2926      V2927
## OTU 4660.865 4661.865 4662.865 4663.865 4664.865 4665.865 4666.865 4667.865
##      V2928      V2929      V2930      V2931      V2932      V2933      V2934      V2935
## OTU 4668.865 4669.865 4670.865 4671.865 4672.865 4673.865 4674.865 4675.865
##      V2936      V2937      V2938      V2939      V2940      V2941      V2942      V2943
## OTU 4676.865 4677.865 4678.865 4679.865 4680.865 4681.865 4682.865 4683.865
##      V2944      V2945      V2946      V2947      V2948      V2949      V2950      V2951
## OTU 4684.865 4685.865 4686.865 4687.865 4688.865 4689.865 4690.865 4691.865
##      V2952      V2953      V2954      V2955      V2956      V2957      V2958      V2959
## OTU 4692.865 4693.865 4694.865 4695.865 4696.865 4697.865 4698.865 4699.865
##      V2960      V2961      V2962      V2963      V2964      V2965      V2966      V2967
## OTU 4700.865 4701.865 4702.865 4703.865 4704.865 4705.865 4706.865 4707.865
##      V2968      V2969      V2970      V2971      V2972      V2973      V2974      V2975
## OTU 4708.865 4709.865 4710.865 4711.865 4712.865 4713.865 4714.865 4715.865
##      V2976      V2977      V2978      V2979      V2980      V2981      V2982      V2983
## OTU 4716.865 4717.865 4718.865 4719.865 4720.865 4721.865 4722.865 4723.865
##      V2984      V2985      V2986      V2987      V2988      V2989      V2990      V2991
## OTU 4724.865 4725.865 4726.865 4727.865 4728.865 4729.865 4730.865 4731.865
##      V2992      V2993      V2994      V2995      V2996      V2997      V2998      V2999
## OTU 4732.865 4733.865 4734.865 4735.865 4736.865 4737.865 4738.865 4739.865
##      V3000      V3001      V3002      V3003      V3004      V3005      V3006      V3007
## OTU 4740.865 4741.865 4742.865 4743.865 4744.865 4745.865 4746.865 4747.865
##      V3008      V3009      V3010      V3011      V3012      V3013      V3014      V3015
## OTU 4748.865 4749.865 4750.865 4751.865 4752.865 4753.865 4754.865 4755.865
##      V3016      V3017      V3018      V3019      V3020      V3021      V3022      V3023
## OTU 4756.865 4757.865 4758.865 4759.865 4760.865 4761.865 4762.865 4763.865
##      V3024      V3025      V3026      V3027      V3028      V3029      V3030      V3031
## OTU 4764.865 4765.865 4766.865 4767.865 4768.865 4769.865 4770.865 4771.865
##      V3032      V3033      V3034      V3035      V3036      V3037      V3038      V3039
## OTU 4772.865 4773.865 4774.865 4775.865 4776.865 4777.865 4778.865 4779.865
##      V3040      V3041      V3042      V3043      V3044      V3045      V3046      V3047
## OTU 4780.865 4781.865 4782.865 4783.865 4784.865 4785.865 4786.865 4787.865
##      V3048      V3049      V3050      V3051      V3052      V3053      V3054      V3055
## OTU 4788.865 4789.865 4790.865 4791.865 4792.865 4793.865 4794.865 4795.865
##      V3056      V3057      V3058      V3059      V3060      V3061      V3062      V3063
## OTU 4796.865 4797.865 4798.865 4799.865 4800.865 4801.865 4802.865 4803.865
##      V3064      V3065      V3066      V3067      V3068      V3069      V3070      V3071
## OTU 4804.865 4805.865 4806.865 4807.865 4808.865 4809.865 4810.865 4811.865

```

##	V3072	V3073	V3074	V3075	V3076	V3077	V3078	V3079
## OTU	4812.865	4813.865	4814.865	4815.865	4816.865	4817.865	4818.865	4819.865
##	V3080	V3081	V3082	V3083	V3084	V3085	V3086	V3087
## OTU	4820.865	4821.865	4822.865	4823.865	4824.865	4825.865	4826.865	4827.865
##	V3088	V3089	V3090	V3091	V3092	V3093	V3094	V3095
## OTU	4828.865	4829.865	4830.865	4831.865	4832.865	4833.865	4834.865	4835.865
##	V3096	V3097	V3098	V3099	V3100	V3101	V3102	V3103
## OTU	4836.865	4837.865	4838.865	4839.865	4840.865	4841.865	4842.865	4843.865
##	V3104	V3105	V3106	V3107	V3108	V3109	V3110	V3111
## OTU	4844.865	4845.865	4846.865	4847.865	4848.865	4849.865	4850.865	4851.865
##	V3112	V3113	V3114	V3115	V3116	V3117	V3118	V3119
## OTU	4852.865	4853.865	4854.865	4855.865	4856.865	4857.865	4858.865	4859.865
##	V3120	V3121	V3122	V3123	V3124	V3125	V3126	V3127
## OTU	4860.865	4861.865	4862.865	4863.865	4864.865	4865.865	4866.865	4867.865
##	V3128	V3129	V3130	V3131	V3132	V3133	V3134	V3135
## OTU	4868.865	4869.865	4870.865	4871.865	4872.865	4873.865	4874.865	4875.865
##	V3136	V3137	V3138	V3139	V3140	V3141	V3142	V3143
## OTU	4876.865	4877.865	4878.865	4879.865	4880.865	4881.865	4882.865	4883.865
##	V3144	V3145	V3146	V3147	V3148	V3149	V3150	V3151
## OTU	4884.865	4885.865	4886.865	4887.865	4888.865	4889.865	4890.865	4891.865
##	V3152	V3153	V3154	V3155	V3156	V3157	V3158	V3159
## OTU	4892.865	4893.865	4894.865	4895.865	4896.865	4897.865	4898.865	4899.865
##	V3160	V3161	V3162	V3163	V3164	V3165	V3166	V3167
## OTU	4900.865	4901.865	4902.865	4903.865	4904.865	4905.865	4906.865	4907.865
##	V3168	V3169	V3170	V3171	V3172	V3173	V3174	V3175
## OTU	4908.865	4909.865	4910.865	4911.865	4912.865	4913.865	4914.865	4915.865
##	V3176	V3177	V3178	V3179	V3180	V3181	V3182	V3183
## OTU	4916.865	4917.865	4918.865	4919.865	4920.865	4921.865	4922.865	4923.865
##	V3184	V3185	V3186	V3187	V3188	V3189	V3190	V3191
## OTU	4924.865	4925.865	4926.865	4927.865	4928.865	4929.865	4930.865	4931.865
##	V3192	V3193	V3194	V3195	V3196	V3197	V3198	V3199
## OTU	4932.865	4933.865	4934.865	4935.865	4936.865	4937.865	4938.865	4939.865
##	V3200	V3201	V3202	V3203	V3204	V3205	V3206	V3207
## OTU	4940.865	4941.865	4942.865	4943.865	4944.865	4945.865	4946.865	4947.865
##	V3208	V3209	V3210	V3211	V3212	V3213	V3214	V3215
## OTU	4948.865	4949.865	4950.865	4951.865	4952.865	4953.865	4954.865	4955.865
##	V3216	V3217	V3218	V3219	V3220	V3221	V3222	V3223
## OTU	4956.865	4957.865	4958.865	4959.865	4960.865	4961.865	4962.865	4963.865
##	V3224	V3225	V3226	V3227	V3228	V3229	V3230	V3231
## OTU	4964.865	4965.865	4966.865	4967.865	4968.865	4969.865	4970.865	4971.865
##	V3232	V3233	V3234	V3235	V3236	V3237	V3238	V3239
## OTU	4972.865	4973.865	4974.865	4975.865	4976.865	4977.865	4978.865	4979.865
##	V3240	V3241	V3242	V3243	V3244	V3245	V3246	V3247
## OTU	4980.865	4981.865	4982.865	4983.865	4984.865	4985.865	4986.865	4987.865
##	V3248	V3249	V3250	V3251	V3252	V3253	V3254	V3255
## OTU	4988.865	4989.865	4990.865	4991.865	4992.865	4993.865	4994.865	4995.865
##	V3256	V3257	V3258	V3259	V3260	V3261	V3262	V3263
## OTU	4996.865	4997.865	4998.865	4999.865	5000.865	5001.865	5002.865	5003.865
##	V3264	V3265	V3266	V3267	V3268	V3269	V3270	V3271
## OTU	5004.865	5005.865	5006.865	5007.865	5008.865	5009.865	5010.865	5011.865
##	V3272	V3273	V3274	V3275	V3276	V3277	V3278	V3279
## OTU	5012.865	5013.865	5014.865	5015.865	5016.865	5017.865	5018.865	5019.865
##	V3280	V3281	V3282	V3283	V3284	V3285	V3286	V3287
## OTU	5020.865	5021.865	5022.865	5023.865	5024.865	5025.865	5026.865	5027.865

```

##      V3288      V3289      V3290      V3291      V3292      V3293      V3294      V3295
## OTU 5028.865 5029.865 5030.865 5031.865 5032.865 5033.865 5034.865 5035.865
##      V3296      V3297      V3298      V3299      V3300      V3301      V3302      V3303
## OTU 5036.865 5037.865 5038.865 5039.865 5040.865 5041.865 5042.865 5043.865
##      V3304      V3305      V3306      V3307      V3308      V3309      V3310      V3311
## OTU 5044.865 5045.865 5046.865 5047.865 5048.865 5049.865 5050.865 5051.865
##      V3312      V3313      V3314      V3315      V3316      V3317      V3318      V3319
## OTU 5052.865 5053.865 5054.865 5055.865 5056.865 5057.865 5058.865 5059.865
##      V3320      V3321      V3322      V3323      V3324      V3325      V3326      V3327
## OTU 5060.865 5061.865 5062.865 5063.865 5064.865 5065.865 5066.865 5067.865
##      V3328      V3329      V3330      V3331      V3332      V3333      V3334      V3335
## OTU 5068.865 5069.865 5070.865 5071.865 5072.865 5073.865 5074.865 5075.865
##      V3336      V3337      V3338      V3339      V3340      V3341      V3342      V3343
## OTU 5076.865 5077.865 5078.865 5079.865 5080.865 5081.865 5082.865 5083.865
##      V3344      V3345      V3346      V3347      V3348      V3349      V3350      V3351
## OTU 5084.865 5085.865 5086.865 5087.865 5088.865 5089.865 5090.865 5091.865
##      V3352      V3353      V3354      V3355      V3356      V3357      V3358      V3359
## OTU 5092.865 5093.865 5094.865 5095.865 5096.865 5097.865 5098.865 5099.865
##      V3360      V3361      V3362      V3363      V3364      V3365      V3366      V3367
## OTU 5100.865 5101.865 5102.865 5103.865 5104.865 5105.865 5106.865 5107.865
##      V3368      V3369      V3370      V3371      V3372      V3373      V3374      V3375
## OTU 5108.865 5109.865 5110.865 5111.865 5112.865 5113.865 5114.865 5115.865
##      V3376      V3377      V3378      V3379      V3380      V3381      V3382      V3383
## OTU 5116.865 5117.865 5118.865 5119.865 5120.865 5121.865 5122.865 5123.865
##      V3384      V3385      V3386      V3387      V3388      V3389      V3390      V3391
## OTU 5124.865 5125.865 5126.865 5127.865 5128.865 5129.865 5130.865 5131.865
##      V3392      V3393      V3394      V3395      V3396      V3397      V3398      V3399
## OTU 5132.865 5133.865 5134.865 5135.865 5136.865 5137.865 5138.865 5139.865
##      V3400      V3401      V3402      V3403      V3404      V3405      V3406      V3407
## OTU 5140.865 5141.865 5142.865 5143.865 5144.865 5145.865 5146.865 5147.865
##      V3408      V3409      V3410      V3411      V3412      V3413      V3414      V3415
## OTU 5148.865 5149.865 5150.865 5151.865 5152.865 5153.865 5154.865 5155.865
##      V3416      V3417      V3418      V3419      V3420      V3421      V3422      V3423
## OTU 5156.865 5157.865 5158.865 5159.865 5160.865 5161.865 5162.865 5163.865
##      V3424      V3425      V3426      V3427      V3428      V3429      V3430      V3431
## OTU 5164.865 5165.865 5166.865 5167.865 5168.865 5169.865 5170.865 5171.865
##      V3432      V3433      V3434      V3435      V3436      V3437      V3438      V3439
## OTU 5172.865 5173.865 5174.865 5175.865 5176.865 5177.865 5178.865 5179.865
##      V3440      V3441      V3442      V3443      V3444      V3445      V3446      V3447
## OTU 5180.865 5181.865 5182.865 5183.865 5184.865 5185.865 5186.865 5187.865
##      V3448      V3449      V3450      V3451      V3452      V3453      V3454      V3455
## OTU 5188.865 5189.865 5190.865 5191.865 5192.865 5193.865 5194.865 5195.865
##      V3456      V3457      V3458      V3459      V3460      V3461      V3462      V3463
## OTU 5196.865 5197.865 5198.865 5199.865 5200.865 5201.865 5202.865 5203.865
##      V3464      V3465      V3466      V3467      V3468      V3469      V3470      V3471
## OTU 5204.865 5205.865 5206.865 5207.865 5208.865 5209.865 5210.865 5211.865
##      V3472      V3473      V3474      V3475      V3476      V3477      V3478      V3479
## OTU 5212.865 5213.865 5214.865 5215.865 5216.865 5217.865 5218.865 5219.865
##      V3480      V3481      V3482      V3483      V3484      V3485      V3486      V3487
## OTU 5220.865 5221.865 5222.865 5223.865 5224.865 5225.865 5226.865 5227.865
##      V3488      V3489      V3490      V3491      V3492      V3493      V3494      V3495
## OTU 5228.865 5229.865 5230.865 5231.865 5232.865 5233.865 5234.865 5235.865
##      V3496      V3497      V3498      V3499      V3500      V3501      V3502      V3503
## OTU 5236.865 5237.865 5238.865 5239.865 5240.865 5241.865 5242.865 5243.865

```

```

##      V3504      V3505      V3506      V3507      V3508      V3509      V3510      V3511
## OTU 5244.865 5245.865 5246.865 5247.865 5248.865 5249.865 5250.865 5251.865
##      V3512      V3513      V3514      V3515      V3516      V3517      V3518      V3519
## OTU 5252.865 5253.865 5254.865 5255.865 5256.865 5257.865 5258.865 5259.865
##      V3520      V3521      V3522      V3523      V3524      V3525      V3526      V3527
## OTU 5260.865 5261.865 5262.865 5263.865 5264.865 5265.865 5266.865 5267.865
##      V3528      V3529      V3530      V3531      V3532      V3533      V3534      V3535
## OTU 5268.865 5269.865 5270.865 5271.865 5272.865 5273.865 5274.865 5275.865
##      V3536      V3537      V3538      V3539      V3540      V3541      V3542      V3543
## OTU 5276.865 5277.865 5278.865 5279.865 5280.865 5281.865 5282.865 5283.865
##      V3544      V3545      V3546      V3547      V3548      V3549      V3550      V3551
## OTU 5284.865 5285.865 5286.865 5287.865 5288.865 5289.865 5290.865 5291.865
##      V3552      V3553      V3554      V3555      V3556      V3557      V3558      V3559
## OTU 5292.865 5293.865 5294.865 5295.865 5296.865 5297.865 5298.865 5299.865
##      V3560      V3561      V3562      V3563      V3564      V3565      V3566      V3567
## OTU 5300.865 5301.865 5302.865 5303.865 5304.865 5305.865 5306.865 5307.865
##      V3568      V3569      V3570      V3571      V3572      V3573      V3574      V3575
## OTU 5308.865 5309.865 5310.865 5311.865 5312.865 5313.865 5314.865 5315.865
##      V3576      V3577      V3578      V3579      V3580      V3581      V3582      V3583
## OTU 5316.865 5317.865 5318.865 5319.865 5320.865 5321.865 5322.865 5323.865
##      V3584      V3585      V3586      V3587      V3588      V3589      V3590      V3591
## OTU 5324.865 5325.865 5326.865 5327.865 5328.865 5329.865 5330.865 5331.865
##      V3592      V3593      V3594      V3595      V3596      V3597      V3598      V3599
## OTU 5332.865 5333.865 5334.865 5335.865 5336.865 5337.865 5338.865 5339.865
##      V3600      V3601      V3602      V3603      V3604      V3605      V3606      V3607
## OTU 5340.865 5341.865 5342.865 5343.865 5344.865 5345.865 5346.865 5347.865
##      V3608      V3609      V3610      V3611      V3612      V3613      V3614      V3615
## OTU 5348.865 5349.865 5350.865 5351.865 5352.865 5353.865 5354.865 5355.865
##      V3616      V3617      V3618      V3619      V3620      V3621      V3622      V3623
## OTU 5356.865 5357.865 5358.865 5359.865 5360.865 5361.865 5362.865 5363.865
##      V3624      V3625      V3626      V3627      V3628      V3629      V3630      V3631
## OTU 5364.865 5365.865 5366.865 5367.865 5368.865 5369.865 5370.865 5371.865
##      V3632      V3633      V3634      V3635      V3636      V3637      V3638      V3639
## OTU 5372.865 5373.865 5374.865 5375.865 5376.865 5377.865 5378.865 5379.865
##      V3640      V3641      V3642      V3643      V3644      V3645      V3646      V3647
## OTU 5380.865 5381.865 5382.865 5383.865 5384.865 5385.865 5386.865 5387.865
##      V3648      V3649      V3650      V3651      V3652      V3653      V3654      V3655
## OTU 5388.865 5389.865 5390.865 5391.865 5392.865 5393.865 5394.865 5395.865
##      V3656      V3657      V3658      V3659      V3660      V3661      V3662      V3663
## OTU 5396.865 5397.865 5398.865 5399.865 5400.865 5401.865 5402.865 5403.865
##      V3664      V3665      V3666      V3667      V3668      V3669      V3670      V3671
## OTU 5404.865 5405.865 5406.865 5407.865 5408.865 5409.865 5410.865 5411.865
##      V3672      V3673      V3674      V3675      V3676      V3677      V3678      V3679
## OTU 5412.865 5413.865 5414.865 5415.865 5416.865 5417.865 5418.865 5419.865
##      V3680      V3681      V3682      V3683      V3684      V3685      V3686      V3687
## OTU 5420.865 5421.865 5422.865 5423.865 5424.865 5425.865 5426.865 5427.865
##      V3688      V3689      V3690      V3691      V3692      V3693      V3694      V3695
## OTU 5428.865 5429.865 5430.865 5431.865 5432.865 5433.865 5434.865 5435.865
##      V3696      V3697      V3698      V3699      V3700      V3701      V3702      V3703
## OTU 5436.865 5437.865 5438.865 5439.865 5440.865 5441.865 5442.865 5443.865
##      V3704      V3705      V3706      V3707      V3708      V3709      V3710      V3711
## OTU 5444.865 5445.865 5446.865 5447.865 5448.865 5449.865 5450.865 5451.865
##      V3712      V3713      V3714      V3715      V3716      V3717      V3718      V3719
## OTU 5452.865 5453.865 5454.865 5455.865 5456.865 5457.865 5458.865 5459.865

```

##	V3720	V3721	V3722	V3723	V3724	V3725	V3726	V3727
## OTU	5460.865	5461.865	5462.865	5463.865	5464.865	5465.865	5466.865	5467.865
##	V3728	V3729	V3730	V3731	V3732	V3733	V3734	V3735
## OTU	5468.865	5469.865	5470.865	5471.865	5472.865	5473.865	5474.865	5475.865
##	V3736	V3737	V3738	V3739	V3740	V3741	V3742	V3743
## OTU	5476.865	5477.865	5478.865	5479.865	5480.865	5481.865	5482.865	5483.865
##	V3744	V3745	V3746	V3747	V3748	V3749	V3750	V3751
## OTU	5484.865	5485.865	5486.865	5487.865	5488.865	5489.865	5490.865	5491.865
##	V3752	V3753	V3754	V3755	V3756	V3757	V3758	V3759
## OTU	5492.865	5493.865	5494.865	5495.865	5496.865	5497.865	5498.865	5499.865
##	V3760	V3761	V3762	V3763	V3764	V3765	V3766	V3767
## OTU	5500.865	5501.865	5502.865	5503.865	5504.865	5505.865	5506.865	5507.865
##	V3768	V3769	V3770	V3771	V3772	V3773	V3774	V3775
## OTU	5508.865	5509.865	5510.865	5511.865	5512.865	5513.865	5514.865	5515.865
##	V3776	V3777	V3778	V3779	V3780	V3781	V3782	V3783
## OTU	5516.865	5517.865	5518.865	5519.865	5520.865	5521.865	5522.865	5523.865
##	V3784	V3785	V3786	V3787	V3788	V3789	V3790	V3791
## OTU	5524.865	5525.865	5526.865	5527.865	5528.865	5529.865	5530.865	5531.865
##	V3792	V3793	V3794	V3795	V3796	V3797	V3798	V3799
## OTU	5532.865	5533.865	5534.865	5535.865	5536.865	5537.865	5538.865	5539.865
##	V3800	V3801	V3802	V3803	V3804	V3805	V3806	V3807
## OTU	5540.865	5541.865	5542.865	5543.865	5544.865	5545.865	5546.865	5547.865
##	V3808	V3809	V3810	V3811	V3812	V3813	V3814	V3815
## OTU	5548.865	5549.865	5550.865	5551.865	5552.865	5553.865	5554.865	5555.865
##	V3816	V3817	V3818	V3819	V3820	V3821	V3822	V3823
## OTU	5556.865	5557.865	5558.865	5559.865	5560.865	5561.865	5562.865	5563.865
##	V3824	V3825	V3826	V3827	V3828	V3829	V3830	V3831
## OTU	5564.865	5565.865	5566.865	5567.865	5568.865	5569.865	5570.865	5571.865
##	V3832	V3833	V3834	V3835	V3836	V3837	V3838	V3839
## OTU	5572.865	5573.865	5574.865	5575.865	5576.865	5577.865	5578.865	5579.865
##	V3840	V3841	V3842	V3843	V3844	V3845	V3846	V3847
## OTU	5580.865	5581.865	5582.865	5583.865	5584.865	5585.865	5586.865	5587.865
##	V3848	V3849	V3850	V3851	V3852	V3853	V3854	V3855
## OTU	5588.865	5589.865	5590.865	5591.865	5592.865	5593.865	5594.865	5595.865
##	V3856	V3857	V3858	V3859	V3860	V3861	V3862	V3863
## OTU	5596.865	5597.865	5598.865	5599.865	5600.865	5601.865	5602.865	5603.865
##	V3864	V3865	V3866	V3867	V3868	V3869	V3870	V3871
## OTU	5604.865	5605.865	5606.865	5607.865	5608.865	5609.865	5610.865	5611.865
##	V3872	V3873	V3874	V3875	V3876	V3877	V3878	V3879
## OTU	5612.865	5613.865	5614.865	5615.865	5616.865	5617.865	5618.865	5619.865
##	V3880	V3881	V3882	V3883	V3884	V3885	V3886	V3887
## OTU	5620.865	5621.865	5622.865	5623.865	5624.865	5625.865	5626.865	5627.865
##	V3888	V3889	V3890	V3891	V3892	V3893	V3894	V3895
## OTU	5628.865	5629.865	5630.865	5631.865	5632.865	5633.865	5634.865	5635.865
##	V3896	V3897	V3898	V3899	V3900	V3901	V3902	V3903
## OTU	5636.865	5637.865	5638.865	5639.865	5640.865	5641.865	5642.865	5643.865
##	V3904	V3905	V3906	V3907	V3908	V3909	V3910	V3911
## OTU	5644.865	5645.865	5646.865	5647.865	5648.865	5649.865	5650.865	5651.865
##	V3912	V3913	V3914	V3915	V3916	V3917	V3918	V3919
## OTU	5652.865	5653.865	5654.865	5655.865	5656.865	5657.865	5658.865	5659.865
##	V3920	V3921	V3922	V3923	V3924	V3925	V3926	V3927
## OTU	5660.865	5661.865	5662.865	5663.865	5664.865	5665.865	5666.865	5667.865
##	V3928	V3929	V3930	V3931	V3932	V3933	V3934	V3935
## OTU	5668.865	5669.865	5670.865	5671.865	5672.865	5673.865	5674.865	5675.865

```

##      V3936      V3937      V3938      V3939      V3940      V3941      V3942      V3943
## OTU 5676.865 5677.865 5678.865 5679.865 5680.865 5681.865 5682.865 5683.865
##      V3944      V3945      V3946      V3947      V3948      V3949      V3950      V3951
## OTU 5684.865 5685.865 5686.865 5687.865 5688.865 5689.865 5690.865 5691.865
##      V3952      V3953      V3954      V3955      V3956      V3957      V3958      V3959
## OTU 5692.865 5693.865 5694.865 5695.865 5696.865 5697.865 5698.865 5699.865
##      V3960      V3961      V3962      V3963      V3964      V3965      V3966      V3967
## OTU 5700.865 5701.865 5702.865 5703.865 5704.865 5705.865 5706.865 5707.865
##      V3968      V3969      V3970      V3971      V3972      V3973      V3974      V3975
## OTU 5708.865 5709.865 5710.865 5711.865 5712.865 5713.865 5714.865 5715.865
##      V3976      V3977      V3978      V3979      V3980      V3981      V3982      V3983
## OTU 5716.865 5717.865 5718.865 5719.865 5720.865 5721.865 5722.865 5723.865
##      V3984      V3985      V3986      V3987      V3988      V3989      V3990      V3991
## OTU 5724.865 5725.865 5726.865 5727.865 5728.865 5729.865 5730.865 5731.865
##      V3992      V3993      V3994      V3995      V3996      V3997      V3998      V3999
## OTU 5732.865 5733.865 5734.865 5735.865 5736.865 5737.865 5738.865 5739.865
##      V4000      V4001      V4002      V4003      V4004      V4005      V4006      V4007
## OTU 5740.865 5741.865 5742.865 5743.865 5744.865 5745.865 5746.865 5747.865
##      V4008      V4009      V4010      V4011      V4012      V4013      V4014      V4015
## OTU 5748.865 5749.865 5750.865 5751.865 5752.865 5753.865 5754.865 5755.865
##      V4016      V4017      V4018      V4019      V4020      V4021      V4022      V4023
## OTU 5756.865 5757.865 5758.865 5759.865 5760.865 5761.865 5762.865 5763.865
##      V4024      V4025      V4026      V4027      V4028      V4029      V4030      V4031
## OTU 5764.865 5765.865 5766.865 5767.865 5768.865 5769.865 5770.865 5771.865
##      V4032      V4033      V4034      V4035      V4036      V4037      V4038      V4039
## OTU 5772.865 5773.865 5774.865 5775.865 5776.865 5777.865 5778.865 5779.865
##      V4040      V4041      V4042      V4043      V4044      V4045      V4046      V4047
## OTU 5780.865 5781.865 5782.865 5783.865 5784.865 5785.865 5786.865 5787.865
##      V4048      V4049      V4050      V4051      V4052      V4053      V4054      V4055
## OTU 5788.865 5789.865 5790.865 5791.865 5792.865 5793.865 5794.865 5795.865
##      V4056      V4057      V4058      V4059      V4060      V4061      V4062      V4063
## OTU 5796.865 5797.865 5798.865 5799.865 5800.865 5801.865 5802.865 5803.865
##      V4064      V4065      V4066      V4067      V4068      V4069      V4070      V4071
## OTU 5804.865 5805.865 5806.865 5807.865 5808.865 5809.865 5810.865 5811.865
##      V4072      V4073      V4074      V4075      V4076      V4077      V4078      V4079
## OTU 5812.865 5813.865 5814.865 5815.865 5816.865 5817.865 5818.865 5819.865
##      V4080      V4081      V4082      V4083      V4084      V4085      V4086      V4087
## OTU 5820.865 5821.865 5822.865 5823.865 5824.865 5825.865 5826.865 5827.865
##      V4088      V4089      V4090      V4091      V4092      V4093      V4094      V4095
## OTU 5828.865 5829.865 5830.865 5831.865 5832.865 5833.865 5834.865 5835.865
##      V4096      V4097      V4098      V4099      V4100      V4101      V4102      V4103
## OTU 5836.865 5837.865 5838.865 5839.865 5840.865 5841.865 5842.865 5843.865
##      V4104      V4105      V4106      V4107      V4108      V4109      V4110      V4111
## OTU 5844.865 5845.865 5846.865 5847.865 5848.865 5849.865 5850.865 5851.865
##      V4112      V4113      V4114      V4115      V4116      V4117      V4118      V4119
## OTU 5852.865 5853.865 5854.865 5855.865 5856.865 5857.865 5858.865 5859.865
##      V4120      V4121      V4122      V4123      V4124      V4125      V4126      V4127
## OTU 5860.865 5861.865 5862.865 5863.865 5864.865 5865.865 5866.865 5867.865
##      V4128      V4129      V4130      V4131      V4132      V4133      V4134      V4135
## OTU 5868.865 5869.865 5870.865 5871.865 5872.865 5873.865 5874.865 5875.865
##      V4136      V4137      V4138      V4139      V4140      V4141      V4142      V4143
## OTU 5876.865 5877.865 5878.865 5879.865 5880.865 5881.865 5882.865 5883.865
##      V4144      V4145      V4146      V4147      V4148      V4149      V4150      V4151
## OTU 5884.865 5885.865 5886.865 5887.865 5888.865 5889.865 5890.865 5891.865

```

```

##      V4152      V4153      V4154      V4155      V4156      V4157      V4158      V4159
## OTU 5892.865 5893.865 5894.865 5895.865 5896.865 5897.865 5898.865 5899.865
##      V4160      V4161      V4162      V4163      V4164      V4165      V4166      V4167
## OTU 5900.865 5901.865 5902.865 5903.865 5904.865 5905.865 5906.865 5907.865
##      V4168      V4169      V4170      V4171      V4172      V4173      V4174      V4175
## OTU 5908.865 5909.865 5910.865 5911.865 5912.865 5913.865 5914.865 5915.865
##      V4176      V4177      V4178      V4179      V4180      V4181      V4182      V4183
## OTU 5916.865 5917.865 5918.865 5919.865 5920.865 5921.865 5922.865 5923.865
##      V4184      V4185      V4186      V4187      V4188      V4189      V4190      V4191
## OTU 5924.865 5925.865 5926.865 5927.865 5928.865 5929.865 5930.865 5931.865
##      V4192      V4193      V4194      V4195      V4196      V4197      V4198      V4199
## OTU 5932.865 5933.865 5934.865 5935.865 5936.865 5937.865 5938.865 5939.865
##      V4200      V4201      V4202      V4203      V4204      V4205      V4206      V4207
## OTU 5940.865 5941.865 5942.865 5943.865 5944.865 5945.865 5946.865 5947.865
##      V4208      V4209      V4210      V4211      V4212      V4213      V4214      V4215
## OTU 5948.865 5949.865 5950.865 5951.865 5952.865 5953.865 5954.865 5955.865
##      V4216      V4217      V4218      V4219      V4220      V4221      V4222      V4223
## OTU 5956.865 5957.865 5958.865 5959.865 5960.865 5961.865 5962.865 5963.865
##      V4224      V4225      V4226      V4227      V4228      V4229      V4230      V4231
## OTU 5964.865 5965.865 5966.865 5967.865 5968.865 5969.865 5970.865 5971.865
##      V4232      V4233      V4234      V4235      V4236      V4237      V4238      V4239
## OTU 5972.865 5973.865 5974.865 5975.865 5976.865 5977.865 5978.865 5979.865
##      V4240      V4241      V4242      V4243      V4244      V4245      V4246      V4247
## OTU 5980.865 5981.865 5982.865 5983.865 5984.865 5985.865 5986.865 5987.865
##      V4248      V4249      V4250      V4251      V4252      V4253      V4254      V4255
## OTU 5988.865 5989.865 5990.865 5991.865 5992.865 5993.865 5994.865 5995.865
##      V4256      V4257      V4258      V4259      V4260      V4261      V4262      V4263
## OTU 5996.865 5997.865 5998.865 5999.865 6000.865 6001.865 6002.865 6003.865
##      V4264      V4265      V4266      V4267      V4268      V4269      V4270      V4271
## OTU 6004.865 6005.865 6006.865 6007.865 6008.865 6009.865 6010.865 6011.865
##      V4272      V4273      V4274      V4275      V4276      V4277      V4278      V4279
## OTU 6012.865 6013.865 6014.865 6015.865 6016.865 6017.865 6018.865 6019.865
##      V4280      V4281      V4282      V4283      V4284      V4285      V4286      V4287
## OTU 6020.865 6021.865 6022.865 6023.865 6024.865 6025.865 6026.865 6027.865
##      V4288      V4289      V4290      V4291      V4292      V4293      V4294      V4295
## OTU 6028.865 6029.865 6030.865 6031.865 6032.865 6033.865 6034.865 6035.865
##      V4296      V4297      V4298      V4299      V4300      V4301      V4302      V4303
## OTU 6036.865 6037.865 6038.865 6039.865 6040.865 6041.865 6042.865 6043.865
##      V4304      V4305      V4306      V4307      V4308      V4309      V4310      V4311
## OTU 6044.865 6045.865 6046.865 6047.865 6048.865 6049.865 6050.865 6051.865
##      V4312      V4313      V4314      V4315      V4316      V4317      V4318      V4319
## OTU 6052.865 6053.865 6054.865 6055.865 6056.865 6057.865 6058.865 6059.865
##      V4320      V4321      V4322      V4323      V4324      V4325      V4326      V4327
## OTU 6060.865 6061.865 6062.865 6063.865 6064.865 6065.865 6066.865 6067.865
##      V4328      V4329      V4330      V4331      V4332      V4333      V4334      V4335
## OTU 6068.865 6069.865 6070.865 6071.865 6072.865 6073.865 6074.865 6075.865
##      V4336      V4337      V4338      V4339      V4340      V4341      V4342      V4343
## OTU 6076.865 6077.865 6078.865 6079.865 6080.865 6081.865 6082.865 6083.865
##      V4344      V4345      V4346      V4347      V4348      V4349      V4350      V4351
## OTU 6084.865 6085.865 6086.865 6087.865 6088.865 6089.865 6090.865 6091.865
##      V4352      V4353      V4354      V4355      V4356      V4357      V4358      V4359
## OTU 6092.865 6093.865 6094.865 6095.865 6096.865 6097.865 6098.865 6099.865
##      V4360      V4361      V4362      V4363      V4364      V4365      V4366      V4367
## OTU 6100.865 6101.865 6102.865 6103.865 6104.865 6105.865 6106.865 6107.865

```

```

##      V4368      V4369      V4370      V4371      V4372      V4373      V4374      V4375
## OTU 6108.865 6109.865 6110.865 6111.865 6112.865 6113.865 6114.865 6115.865
##      V4376      V4377      V4378      V4379      V4380      V4381      V4382      V4383
## OTU 6116.865 6117.865 6118.865 6119.865 6120.865 6121.865 6122.865 6123.865
##      V4384      V4385      V4386      V4387      V4388      V4389      V4390      V4391
## OTU 6124.865 6125.865 6126.865 6127.865 6128.865 6129.865 6130.865 6131.865
##      V4392      V4393      V4394      V4395      V4396      V4397      V4398      V4399
## OTU 6132.865 6133.865 6134.865 6135.865 6136.865 6137.865 6138.865 6139.865
##      V4400      V4401      V4402      V4403      V4404      V4405      V4406      V4407
## OTU 6140.865 6141.865 6142.865 6143.865 6144.865 6145.865 6146.865 6147.865
##      V4408      V4409      V4410      V4411      V4412      V4413      V4414      V4415
## OTU 6148.865 6149.865 6150.865 6151.865 6152.865 6153.865 6154.865 6155.865
##      V4416      V4417      V4418      V4419      V4420      V4421      V4422      V4423
## OTU 6156.865 6157.865 6158.865 6159.865 6160.865 6161.865 6162.865 6163.865
##      V4424      V4425      V4426      V4427      V4428      V4429      V4430      V4431
## OTU 6164.865 6165.865 6166.865 6167.865 6168.865 6169.865 6170.865 6171.865
##      V4432      V4433      V4434      V4435      V4436      V4437      V4438      V4439
## OTU 6172.865 6173.865 6174.865 6175.865 6176.865 6177.865 6178.865 6179.865
##      V4440      V4441      V4442      V4443      V4444      V4445      V4446      V4447
## OTU 6180.865 6181.865 6182.865 6183.865 6184.865 6185.865 6186.865 6187.865
##      V4448      V4449      V4450      V4451      V4452      V4453      V4454      V4455
## OTU 6188.865 6189.865 6190.865 6191.865 6192.865 6193.865 6194.865 6195.865
##      V4456      V4457      V4458      V4459      V4460      V4461      V4462      V4463
## OTU 6196.865 6197.865 6198.865 6199.865 6200.865 6201.865 6202.865 6203.865
##      V4464      V4465      V4466      V4467      V4468      V4469      V4470      V4471
## OTU 6204.865 6205.865 6206.865 6207.865 6208.865 6209.865 6210.865 6211.865
##      V4472      V4473      V4474      V4475      V4476      V4477      V4478      V4479
## OTU 6212.865 6213.865 6214.865 6215.865 6216.865 6217.865 6218.865 6219.865
##      V4480      V4481      V4482      V4483      V4484      V4485      V4486      V4487
## OTU 6220.865 6221.865 6222.865 6223.865 6224.865 6225.865 6226.865 6227.865
##      V4488      V4489      V4490      V4491      V4492      V4493      V4494      V4495
## OTU 6228.865 6229.865 6230.865 6231.865 6232.865 6233.865 6234.865 6235.865
##      V4496      V4497      V4498      V4499      V4500      V4501      V4502      V4503
## OTU 6236.865 6237.865 6238.865 6239.865 6240.865 6241.865 6242.865 6243.865
##      V4504      V4505      V4506      V4507      V4508      V4509      V4510      V4511
## OTU 6244.865 6245.865 6246.865 6247.865 6248.865 6249.865 6250.865 6251.865
##      V4512      V4513      V4514      V4515      V4516      V4517      V4518      V4519
## OTU 6252.865 6253.865 6254.865 6255.865 6256.865 6257.865 6258.865 6259.865
##      V4520      V4521      V4522      V4523      V4524      V4525      V4526      V4527
## OTU 6260.865 6261.865 6262.865 6263.865 6264.865 6265.865 6266.865 6267.865
##      V4528      V4529      V4530      V4531      V4532      V4533      V4534      V4535
## OTU 6268.865 6269.865 6270.865 6271.865 6272.865 6273.865 6274.865 6275.865
##      V4536      V4537      V4538      V4539      V4540      V4541      V4542      V4543
## OTU 6276.865 6277.865 6278.865 6279.865 6280.865 6281.865 6282.865 6283.865
##      V4544      V4545      V4546      V4547      V4548      V4549      V4550      V4551
## OTU 6284.865 6285.865 6286.865 6287.865 6288.865 6289.865 6290.865 6291.865
##      V4552      V4553      V4554      V4555      V4556      V4557      V4558      V4559
## OTU 6292.865 6293.865 6294.865 6295.865 6296.865 6297.865 6298.865 6299.865
##      V4560      V4561      V4562      V4563      V4564      V4565      V4566      V4567
## OTU 6300.865 6301.865 6302.865 6303.865 6304.865 6305.865 6306.865 6307.865
##      V4568      V4569      V4570      V4571      V4572      V4573      V4574      V4575
## OTU 6308.865 6309.865 6310.865 6311.865 6312.865 6313.865 6314.865 6315.865
##      V4576      V4577      V4578      V4579      V4580      V4581      V4582      V4583
## OTU 6316.865 6317.865 6318.865 6319.865 6320.865 6321.865 6322.865 6323.865

```

##	V4584	V4585	V4586	V4587	V4588	V4589	V4590	V4591
## OTU	6324.865	6325.865	6326.865	6327.865	6328.865	6329.865	6330.865	6331.865
##	V4592	V4593	V4594	V4595	V4596	V4597	V4598	V4599
## OTU	6332.865	6333.865	6334.865	6335.865	6336.865	6337.865	6338.865	6339.865
##	V4600	V4601	V4602	V4603	V4604	V4605	V4606	V4607
## OTU	6340.865	6341.865	6342.865	6343.865	6344.865	6345.865	6346.865	6347.865
##	V4608	V4609	V4610	V4611	V4612	V4613	V4614	V4615
## OTU	6348.865	6349.865	6350.865	6351.865	6352.865	6353.865	6354.865	6355.865
##	V4616	V4617	V4618	V4619	V4620	V4621	V4622	V4623
## OTU	6356.865	6357.865	6358.865	6359.865	6360.865	6361.865	6362.865	6363.865
##	V4624	V4625	V4626	V4627	V4628	V4629	V4630	V4631
## OTU	6364.865	6365.865	6366.865	6367.865	6368.865	6369.865	6370.865	6371.865
##	V4632	V4633	V4634	V4635	V4636	V4637	V4638	V4639
## OTU	6372.865	6373.865	6374.865	6375.865	6376.865	6377.865	6378.865	6379.865
##	V4640	V4641	V4642	V4643	V4644	V4645	V4646	V4647
## OTU	6380.865	6381.865	6382.865	6383.865	6384.865	6385.865	6386.865	6387.865
##	V4648	V4649	V4650	V4651	V4652	V4653	V4654	V4655
## OTU	6388.865	6389.865	6390.865	6391.865	6392.865	6393.865	6394.865	6395.865
##	V4656	V4657	V4658	V4659	V4660	V4661	V4662	V4663
## OTU	6396.865	6397.865	6398.865	6399.865	6400.865	6401.865	6402.865	6403.865
##	V4664	V4665	V4666	V4667	V4668	V4669	V4670	V4671
## OTU	6404.865	6405.865	6406.865	6407.865	6408.865	6409.865	6410.865	6411.865
##	V4672	V4673	V4674	V4675	V4676	V4677	V4678	V4679
## OTU	6412.865	6413.865	6414.865	6415.865	6416.865	6417.865	6418.865	6419.865
##	V4680	V4681	V4682	V4683	V4684	V4685	V4686	V4687
## OTU	6420.865	6421.865	6422.865	6423.865	6424.865	6425.865	6426.865	6427.865
##	V4688	V4689	V4690	V4691	V4692	V4693	V4694	V4695
## OTU	6428.865	6429.865	6430.865	6431.865	6432.865	6433.865	6434.865	6435.865
##	V4696	V4697	V4698	V4699	V4700	V4701	V4702	V4703
## OTU	6436.865	6437.865	6438.865	6439.865	6440.865	6441.865	6442.865	6443.865
##	V4704	V4705	V4706	V4707	V4708	V4709	V4710	V4711
## OTU	6444.865	6445.865	6446.865	6447.865	6448.865	6449.865	6450.865	6451.865
##	V4712	V4713	V4714	V4715	V4716	V4717	V4718	V4719
## OTU	6452.865	6453.865	6454.865	6455.865	6456.865	6457.865	6458.865	6459.865
##	V4720	V4721	V4722	V4723	V4724	V4725	V4726	V4727
## OTU	6460.865	6461.865	6462.865	6463.865	6464.865	6465.865	6466.865	6467.865
##	V4728	V4729	V4730	V4731	V4732	V4733	V4734	V4735
## OTU	6468.865	6469.865	6470.865	6471.865	6472.865	6473.865	6474.865	6475.865
##	V4736	V4737	V4738	V4739	V4740	V4741	V4742	V4743
## OTU	6476.865	6477.865	6478.865	6479.865	6480.865	6481.865	6482.865	6483.865
##	V4744	V4745	V4746	V4747	V4748	V4749	V4750	V4751
## OTU	6484.865	6485.865	6486.865	6487.865	6488.865	6489.865	6490.865	6491.865
##	V4752	V4753	V4754	V4755	V4756	V4757	V4758	V4759
## OTU	6492.865	6493.865	6494.865	6495.865	6496.865	6497.865	6498.865	6499.865
##	V4760	V4761	V4762	V4763	V4764	V4765	V4766	V4767
## OTU	6500.865	6501.865	6502.865	6503.865	6504.865	6505.865	6506.865	6507.865
##	V4768	V4769	V4770	V4771	V4772	V4773	V4774	V4775
## OTU	6508.865	6509.865	6510.865	6511.865	6512.865	6513.865	6514.865	6515.865
##	V4776	V4777	V4778	V4779	V4780	V4781	V4782	V4783
## OTU	6516.865	6517.865	6518.865	6519.865	6520.865	6521.865	6522.865	6523.865
##	V4784	V4785	V4786	V4787	V4788	V4789	V4790	V4791
## OTU	6524.865	6525.865	6526.865	6527.865	6528.865	6529.865	6530.865	6531.865
##	V4792	V4793	V4794	V4795	V4796	V4797	V4798	V4799
## OTU	6532.865	6533.865	6534.865	6535.865	6536.865	6537.865	6538.865	6539.865

##	V4800	V4801	V4802	V4803	V4804	V4805	V4806	V4807
## OTU	6540.865	6541.865	6542.865	6543.865	6544.865	6545.865	6546.865	6547.865
##	V4808	V4809	V4810	V4811	V4812	V4813	V4814	V4815
## OTU	6548.865	6549.865	6550.865	6551.865	6552.865	6553.865	6554.865	6555.865
##	V4816	V4817	V4818	V4819	V4820	V4821	V4822	V4823
## OTU	6556.865	6557.865	6558.865	6559.865	6560.865	6561.865	6562.865	6563.865
##	V4824	V4825	V4826	V4827	V4828	V4829	V4830	V4831
## OTU	6564.865	6565.865	6566.865	6567.865	6568.865	6569.865	6570.865	6571.865
##	V4832	V4833	V4834	V4835	V4836	V4837	V4838	V4839
## OTU	6572.865	6573.865	6574.865	6575.865	6576.865	6577.865	6578.865	6579.865
##	V4840	V4841	V4842	V4843	V4844	V4845	V4846	V4847
## OTU	6580.865	6581.865	6582.865	6583.865	6584.865	6585.865	6586.865	6587.865
##	V4848	V4849	V4850	V4851	V4852	V4853	V4854	V4855
## OTU	6588.865	6589.865	6590.865	6591.865	6592.865	6593.865	6594.865	6595.865
##	V4856	V4857	V4858	V4859	V4860	V4861	V4862	V4863
## OTU	6596.865	6597.865	6598.865	6599.865	6600.865	6601.865	6602.865	6603.865
##	V4864	V4865	V4866	V4867	V4868	V4869	V4870	V4871
## OTU	6604.865	6605.865	6606.865	6607.865	6608.865	6609.865	6610.865	6611.865
##	V4872	V4873	V4874	V4875	V4876	V4877	V4878	V4879
## OTU	6612.865	6613.865	6614.865	6615.865	6616.865	6617.865	6618.865	6619.865
##	V4880	V4881	V4882	V4883	V4884	V4885	V4886	V4887
## OTU	6620.865	6621.865	6622.865	6623.865	6624.865	6625.865	6626.865	6627.865
##	V4888	V4889	V4890	V4891	V4892	V4893	V4894	V4895
## OTU	6628.865	6629.865	6630.865	6631.865	6632.865	6633.865	6634.865	6635.865
##	V4896	V4897	V4898	V4899	V4900	V4901	V4902	V4903
## OTU	6636.865	6637.865	6638.865	6639.865	6640.865	6641.865	6642.865	6643.865
##	V4904	V4905	V4906	V4907	V4908	V4909	V4910	V4911
## OTU	6644.865	6645.865	6646.865	6647.865	6648.865	6649.865	6650.865	6651.865
##	V4912	V4913	V4914	V4915	V4916	V4917	V4918	V4919
## OTU	6652.865	6653.865	6654.865	6655.865	6656.865	6657.865	6658.865	6659.865
##	V4920	V4921	V4922	V4923	V4924	V4925	V4926	V4927
## OTU	6660.865	6661.865	6662.865	6663.865	6664.865	6665.865	6666.865	6667.865
##	V4928	V4929	V4930	V4931	V4932	V4933	V4934	V4935
## OTU	6668.865	6669.865	6670.865	6671.865	6672.865	6673.865	6674.865	6675.865
##	V4936	V4937	V4938	V4939	V4940	V4941	V4942	V4943
## OTU	6676.865	6677.865	6678.865	6679.865	6680.865	6681.865	6682.865	6683.865
##	V4944	V4945	V4946	V4947	V4948	V4949	V4950	V4951
## OTU	6684.865	6685.865	6686.865	6687.865	6688.865	6689.865	6690.865	6691.865
##	V4952	V4953	V4954	V4955	V4956	V4957	V4958	V4959
## OTU	6692.865	6693.865	6694.865	6695.865	6696.865	6697.865	6698.865	6699.865
##	V4960	V4961	V4962	V4963	V4964	V4965	V4966	V4967
## OTU	6700.865	6701.865	6702.865	6703.865	6704.865	6705.865	6706.865	6707.865
##	V4968	V4969	V4970	V4971	V4972	V4973	V4974	V4975
## OTU	6708.865	6709.865	6710.865	6711.865	6712.865	6713.865	6714.865	6715.865
##	V4976	V4977	V4978	V4979	V4980	V4981	V4982	V4983
## OTU	6716.865	6717.865	6718.865	6719.865	6720.865	6721.865	6722.865	6723.865
##	V4984	V4985	V4986	V4987	V4988	V4989	V4990	V4991
## OTU	6724.865	6725.865	6726.865	6727.865	6728.865	6729.865	6730.865	6731.865
##	V4992	V4993	V4994	V4995	V4996	V4997	V4998	V4999
## OTU	6732.865	6733.865	6734.865	6735.865	6736.865	6737.865	6738.865	6739.865
##	V5000	V5001	V5002	V5003	V5004	V5005	V5006	V5007
## OTU	6740.865	6741.865	6742.865	6743.865	6744.865	6745.865	6746.865	6747.865
##	V5008	V5009	V5010	V5011	V5012	V5013	V5014	V5015
## OTU	6748.865	6749.865	6750.865	6751.865	6752.865	6753.865	6754.865	6755.865

	V5016	V5017	V5018	V5019	V5020	V5021	V5022	V5023	
##	OTU	6756.865	6757.865	6758.865	6759.865	6760.865	6761.865	6762.865	6763.865
##	V5024	V5025	V5026	V5027	V5028	V5029	V5030	V5031	
##	OTU	6764.865	6765.865	6766.865	6767.865	6768.865	6769.865	6770.865	6771.865
##	V5032	V5033	V5034	V5035	V5036	V5037	V5038	V5039	
##	OTU	6772.865	6773.865	6774.865	6775.865	6776.865	6777.865	6778.865	6779.865
##	V5040	V5041	V5042	V5043	V5044	V5045	V5046	V5047	
##	OTU	6780.865	6781.865	6782.865	6783.865	6784.865	6785.865	6786.865	6787.865
##	V5048	V5049	V5050	V5051	V5052	V5053	V5054	V5055	
##	OTU	6788.865	6789.865	6790.865	6791.865	6792.865	6793.865	6794.865	6795.865
##	V5056	V5057	V5058	V5059	V5060	V5061	V5062	V5063	
##	OTU	6796.865	6797.865	6798.865	6799.865	6800.865	6801.865	6802.865	6803.865
##	V5064	V5065	V5066	V5067	V5068	V5069	V5070	V5071	
##	OTU	6804.865	6805.865	6806.865	6807.865	6808.865	6809.865	6810.865	6811.865
##	V5072	V5073	V5074	V5075	V5076	V5077	V5078	V5079	
##	OTU	6812.865	6813.865	6814.865	6815.865	6816.865	6817.865	6818.865	6819.865
##	V5080	V5081	V5082	V5083	V5084	V5085	V5086	V5087	
##	OTU	6820.865	6821.865	6822.865	6823.865	6824.865	6825.865	6826.865	6827.865
##	V5088	V5089	V5090	V5091	V5092	V5093	V5094	V5095	
##	OTU	6828.865	6829.865	6830.865	6831.865	6832.865	6833.865	6834.865	6835.865
##	V5096	V5097	V5098	V5099	V5100	V5101	V5102	V5103	
##	OTU	6836.865	6837.865	6838.865	6839.865	6840.865	6841.865	6842.865	6843.865
##	V5104	V5105	V5106	V5107	V5108	V5109	V5110	V5111	
##	OTU	6844.865	6845.865	6846.865	6847.865	6848.865	6849.865	6850.865	6851.865
##	V5112	V5113	V5114	V5115	V5116	V5117	V5118	V5119	
##	OTU	6852.865	6853.865	6854.865	6855.865	6856.865	6857.865	6858.865	6859.865
##	V5120	V5121	V5122	V5123	V5124	V5125	V5126	V5127	
##	OTU	6860.865	6861.865	6862.865	6863.865	6864.865	6865.865	6866.865	6867.865
##	V5128	V5129	V5130	V5131	V5132	V5133	V5134	V5135	
##	OTU	6868.865	6869.865	6870.865	6871.865	6872.865	6873.865	6874.865	6875.865
##	V5136	V5137	V5138	V5139	V5140	V5141	V5142	V5143	
##	OTU	6876.865	6877.865	6878.865	6879.865	6880.865	6881.865	6882.865	6883.865
##	V5144	V5145	V5146	V5147	V5148	V5149	V5150	V5151	
##	OTU	6884.865	6885.865	6886.865	6887.865	6888.865	6889.865	6890.865	6891.865
##	V5152	V5153	V5154	V5155	V5156	V5157	V5158	V5159	
##	OTU	6892.865	6893.865	6894.865	6895.865	6896.865	6897.865	6898.865	6899.865
##	V5160	V5161	V5162	V5163	V5164	V5165	V5166	V5167	
##	OTU	6900.865	6901.865	6902.865	6903.865	6904.865	6905.865	6906.865	6907.865
##	V5168	V5169	V5170	V5171	V5172	V5173	V5174	V5175	
##	OTU	6908.865	6909.865	6910.865	6911.865	6912.865	6913.865	6914.865	6915.865
##	V5176	V5177	V5178	V5179	V5180	V5181	V5182	V5183	
##	OTU	6916.865	6917.865	6918.865	6919.865	6920.865	6921.865	6922.865	6923.865
##	V5184	V5185	V5186	V5187	V5188	V5189	V5190	V5191	
##	OTU	6924.865	6925.865	6926.865	6927.865	6928.865	6929.865	6930.865	6931.865
##	V5192	V5193	V5194	V5195	V5196	V5197	V5198	V5199	
##	OTU	6932.865	6933.865	6934.865	6935.865	6936.865	6937.865	6938.865	6939.865
##	V5200	V5201	V5202	V5203	V5204	V5205	V5206	V5207	
##	OTU	6940.865	6941.865	6942.865	6943.865	6944.865	6945.865	6946.865	6947.865
##	V5208	V5209	V5210	V5211	V5212	V5213	V5214	V5215	
##	OTU	6948.865	6949.865	6950.865	6951.865	6952.865	6953.865	6954.865	6955.865
##	V5216	V5217	V5218	V5219	V5220	V5221	V5222	V5223	
##	OTU	6956.865	6957.865	6958.865	6959.865	6960.865	6961.865	6962.865	6963.865
##	V5224	V5225	V5226	V5227	V5228	V5229	V5230	V5231	
##	OTU	6964.865	6965.865	6966.865	6967.865	6968.865	6969.865	6970.865	6971.865

##	V5232	V5233	V5234	V5235	V5236	V5237	V5238	V5239
## OTU	6972.865	6973.865	6974.865	6975.865	6976.865	6977.865	6978.865	6979.865
##	V5240	V5241	V5242	V5243	V5244	V5245	V5246	V5247
## OTU	6980.865	6981.865	6982.865	6983.865	6984.865	6985.865	6986.865	6987.865
##	V5248	V5249	V5250	V5251	V5252	V5253	V5254	V5255
## OTU	6988.865	6989.865	6990.865	6991.865	6992.865	6993.865	6994.865	6995.865
##	V5256	V5257	V5258	V5259	V5260	V5261	V5262	V5263
## OTU	6996.865	6997.865	6998.865	6999.865	7000.865	7001.865	7002.865	7003.865
##	V5264	V5265	V5266	V5267	V5268	V5269	V5270	V5271
## OTU	7004.865	7005.865	7006.865	7007.865	7008.865	7009.865	7010.865	7011.865
##	V5272	V5273	V5274	V5275	V5276	V5277	V5278	V5279
## OTU	7012.865	7013.865	7014.865	7015.865	7016.865	7017.865	7018.865	7019.865
##	V5280	V5281	V5282	V5283	V5284	V5285	V5286	V5287
## OTU	7020.865	7021.865	7022.865	7023.865	7024.865	7025.865	7026.865	7027.865
##	V5288	V5289	V5290	V5291	V5292	V5293	V5294	V5295
## OTU	7028.865	7029.865	7030.865	7031.865	7032.865	7033.865	7034.865	7035.865
##	V5296	V5297	V5298	V5299	V5300	V5301	V5302	V5303
## OTU	7036.865	7037.865	7038.865	7039.865	7040.865	7041.865	7042.865	7043.865
##	V5304	V5305	V5306	V5307	V5308	V5309	V5310	V5311
## OTU	7044.865	7045.865	7046.865	7047.865	7048.865	7049.865	7050.865	7051.865
##	V5312	V5313	V5314	V5315	V5316	V5317	V5318	V5319
## OTU	7052.865	7053.865	7054.865	7055.865	7056.865	7057.865	7058.865	7059.865
##	V5320	V5321	V5322	V5323	V5324	V5325	V5326	V5327
## OTU	7060.865	7061.865	7062.865	7063.865	7064.865	7065.865	7066.865	7067.865
##	V5328	V5329	V5330	V5331	V5332	V5333	V5334	V5335
## OTU	7068.865	7069.865	7070.865	7071.865	7072.865	7073.865	7074.865	7075.865
##	V5336	V5337	V5338	V5339	V5340	V5341	V5342	V5343
## OTU	7076.865	7077.865	7078.865	7079.865	7080.865	7081.865	7082.865	7083.865
##	V5344	V5345	V5346	V5347	V5348	V5349	V5350	V5351
## OTU	7084.865	7085.865	7086.865	7087.865	7088.865	7089.865	7090.865	7091.865
##	V5352	V5353	V5354	V5355	V5356	V5357	V5358	V5359
## OTU	7092.865	7093.865	7094.865	7095.865	7096.865	7097.865	7098.865	7099.865
##	V5360	V5361	V5362	V5363	V5364	V5365	V5366	V5367
## OTU	7100.865	7101.865	7102.865	7103.865	7104.865	7105.865	7106.865	7107.865
##	V5368	V5369	V5370	V5371	V5372	V5373	V5374	V5375
## OTU	7108.865	7109.865	7110.865	7111.865	7112.865	7113.865	7114.865	7115.865
##	V5376	V5377	V5378	V5379	V5380	V5381	V5382	V5383
## OTU	7116.865	7117.865	7118.865	7119.865	7120.865	7121.865	7122.865	7123.865
##	V5384	V5385	V5386	V5387	V5388	V5389	V5390	V5391
## OTU	7124.865	7125.865	7126.865	7127.865	7128.865	7129.865	7130.865	7131.865
##	V5392	V5393	V5394	V5395	V5396	V5397	V5398	V5399
## OTU	7132.865	7133.865	7134.865	7135.865	7136.865	7137.865	7138.865	7139.865
##	V5400	V5401	V5402	V5403	V5404	V5405	V5406	V5407
## OTU	7140.865	7141.865	7142.865	7143.865	7144.865	7145.865	7146.865	7147.865
##	V5408	V5409	V5410	V5411	V5412	V5413	V5414	V5415
## OTU	7148.865	7149.865	7150.865	7151.865	7152.865	7153.865	7154.865	7155.865
##	V5416	V5417	V5418	V5419	V5420	V5421	V5422	V5423
## OTU	7156.865	7157.865	7158.865	7159.865	7160.865	7161.865	7162.865	7163.865
##	V5424	V5425	V5426	V5427	V5428	V5429	V5430	V5431
## OTU	7164.865	7165.865	7166.865	7167.865	7168.865	7169.865	7170.865	7171.865
##	V5432	V5433	V5434	V5435	V5436	V5437	V5438	V5439
## OTU	7172.865	7173.865	7174.865	7175.865	7176.865	7177.865	7178.865	7179.865
##	V5440	V5441	V5442	V5443	V5444	V5445	V5446	V5447
## OTU	7180.865	7181.865	7182.865	7183.865	7184.865	7185.865	7186.865	7187.865

```

##      V5448      V5449      V5450      V5451      V5452      V5453      V5454      V5455
## OTU 7188.865 7189.865 7190.865 7191.865 7192.865 7193.865 7194.865 7195.865
##      V5456      V5457      V5458      V5459      V5460      V5461      V5462      V5463
## OTU 7196.865 7197.865 7198.865 7199.865 7200.865 7201.865 7202.865 7203.865
##      V5464      V5465      V5466      V5467      V5468      V5469      V5470      V5471
## OTU 7204.865 7205.865 7206.865 7207.865 7208.865 7209.865 7210.865 7211.865
##      V5472      V5473      V5474      V5475      V5476      V5477      V5478      V5479
## OTU 7212.865 7213.865 7214.865 7215.865 7216.865 7217.865 7218.865 7219.865
##      V5480      V5481      V5482      V5483      V5484      V5485      V5486      V5487
## OTU 7220.865 7221.865 7222.865 7223.865 7224.865 7225.865 7226.865 7227.865
##      V5488      V5489      V5490      V5491      V5492      V5493      V5494      V5495
## OTU 7228.865 7229.865 7230.865 7231.865 7232.865 7233.865 7234.865 7235.865
##      V5496      V5497      V5498      V5499      V5500      V5501      V5502      V5503
## OTU 7236.865 7237.865 7238.865 7239.865 7240.865 7241.865 7242.865 7243.865
##      V5504      V5505      V5506      V5507      V5508      V5509      V5510      V5511
## OTU 7244.865 7245.865 7246.865 7247.865 7248.865 7249.865 7250.865 7251.865
##      V5512      V5513      V5514      V5515      V5516      V5517      V5518      V5519
## OTU 7252.865 7253.865 7254.865 7255.865 7256.865 7257.865 7258.865 7259.865
##      V5520      V5521      V5522      V5523      V5524      V5525      V5526      V5527
## OTU 7260.865 7261.865 7262.865 7263.865 7264.865 7265.865 7266.865 7267.865
##      V5528      V5529      V5530      V5531      V5532      V5533      V5534      V5535
## OTU 7268.865 7269.865 7270.865 7271.865 7272.865 7273.865 7274.865 7275.865
##      V5536      V5537      V5538      V5539      V5540      V5541      V5542      V5543
## OTU 7276.865 7277.865 7278.865 7279.865 7280.865 7281.865 7282.865 7283.865
##      V5544      V5545      V5546      V5547      V5548      V5549      V5550      V5551
## OTU 7284.865 7285.865 7286.865 7287.865 7288.865 7289.865 7290.865 7291.865
##      V5552      V5553      V5554      V5555      V5556      V5557      V5558      V5559
## OTU 7292.865 7293.865 7294.865 7295.865 7296.865 7297.865 7298.865 7299.865
##      V5560      V5561      V5562      V5563      V5564      V5565      V5566      V5567
## OTU 7300.865 7301.865 7302.865 7303.865 7304.865 7305.865 7306.865 7307.865
##      V5568      V5569      V5570      V5571      V5572      V5573      V5574      V5575
## OTU 7308.865 7309.865 7310.865 7311.865 7312.865 7313.865 7314.865 7315.865
##      V5576      V5577      V5578      V5579      V5580      V5581      V5582      V5583
## OTU 7316.865 7317.865 7318.865 7319.865 7320.865 7321.865 7322.865 7323.865
##      V5584      V5585      V5586      V5587      V5588      V5589      V5590      V5591
## OTU 7324.865 7325.865 7326.865 7327.865 7328.865 7329.865 7330.865 7331.865
##      V5592      V5593      V5594      V5595      V5596      V5597      V5598      V5599
## OTU 7332.865 7333.865 7334.865 7335.865 7336.865 7337.865 7338.865 7339.865
##      V5600      V5601      V5602      V5603      V5604      V5605      V5606      V5607
## OTU 7340.865 7341.865 7342.865 7343.865 7344.865 7345.865 7346.865 7347.865
##      V5608      V5609      V5610      V5611      V5612      V5613      V5614      V5615
## OTU 7348.865 7349.865 7350.865 7351.865 7352.865 7353.865 7354.865 7355.865
##      V5616      V5617      V5618      V5619      V5620      V5621      V5622      V5623
## OTU 7356.865 7357.865 7358.865 7359.865 7360.865 7361.865 7362.865 7363.865
##      V5624      V5625      V5626      V5627      V5628      V5629      V5630      V5631
## OTU 7364.865 7365.865 7366.865 7367.865 7368.865 7369.865 7370.865 7371.865
##      V5632      V5633      V5634      V5635      V5636      V5637      V5638      V5639
## OTU 7372.865 7373.865 7374.865 7375.865 7376.865 7377.865 7378.865 7379.865
##      V5640      V5641      V5642      V5643      V5644      V5645      V5646      V5647
## OTU 7380.865 7381.865 7382.865 7383.865 7384.865 7385.865 7386.865 7387.865
##      V5648      V5649      V5650      V5651      V5652      V5653      V5654      V5655
## OTU 7388.865 7389.865 7390.865 7391.865 7392.865 7393.865 7394.865 7395.865
##      V5656      V5657      V5658      V5659      V5660      V5661      V5662      V5663
## OTU 7396.865 7397.865 7398.865 7399.865 7400.865 7401.865 7402.865 7403.865

```

```

##      V5664      V5665      V5666      V5667      V5668      V5669      V5670      V5671
## OTU 7404.865 7405.865 7406.865 7407.865 7408.865 7409.865 7410.865 7411.865
##      V5672      V5673      V5674      V5675      V5676      V5677      V5678      V5679
## OTU 7412.865 7413.865 7414.865 7415.865 7416.865 7417.865 7418.865 7419.865
##      V5680      V5681      V5682      V5683      V5684      V5685      V5686      V5687
## OTU 7420.865 7421.865 7422.865 7423.865 7424.865 7425.865 7426.865 7427.865
##      V5688      V5689      V5690      V5691      V5692      V5693      V5694      V5695
## OTU 7428.865 7429.865 7430.865 7431.865 7432.865 7433.865 7434.865 7435.865
##      V5696      V5697      V5698      V5699      V5700      V5701      V5702      V5703
## OTU 7436.865 7437.865 7438.865 7439.865 7440.865 7441.865 7442.865 7443.865
##      V5704      V5705      V5706      V5707      V5708      V5709      V5710      V5711
## OTU 7444.865 7445.865 7446.865 7447.865 7448.865 7449.865 7450.865 7451.865
##      V5712      V5713      V5714      V5715      V5716      V5717      V5718      V5719
## OTU 7452.865 7453.865 7454.865 7455.865 7456.865 7457.865 7458.865 7459.865
##      V5720      V5721      V5722      V5723      V5724      V5725      V5726      V5727
## OTU 7460.865 7461.865 7462.865 7463.865 7464.865 7465.865 7466.865 7467.865
##      V5728      V5729      V5730      V5731      V5732      V5733      V5734      V5735
## OTU 7468.865 7469.865 7470.865 7471.865 7472.865 7473.865 7474.865 7475.865
##      V5736      V5737      V5738      V5739      V5740      V5741      V5742      V5743
## OTU 7476.865 7477.865 7478.865 7479.865 7480.865 7481.865 7482.865 7483.865
##      V5744      V5745      V5746      V5747      V5748      V5749      V5750      V5751
## OTU 7484.865 7485.865 7486.865 7487.865 7488.865 7489.865 7490.865 7491.865
##      V5752      V5753      V5754      V5755      V5756      V5757      V5758      V5759
## OTU 7492.865 7493.865 7494.865 7495.865 7496.865 7497.865 7498.865 7499.865
##      V5760      V5761      V5762      V5763      V5764      V5765      V5766      V5767
## OTU 7500.865 7501.865 7502.865 7503.865 7504.865 7505.865 7506.865 7507.865
##      V5768      V5769      V5770      V5771      V5772      V5773      V5774      V5775
## OTU 7508.865 7509.865 7510.865 7511.865 7512.865 7513.865 7514.865 7515.865
##      V5776      V5777      V5778      V5779      V5780      V5781      V5782      V5783
## OTU 7516.865 7517.865 7518.865 7519.865 7520.865 7521.865 7522.865 7523.865
##      V5784      V5785      V5786      V5787      V5788      V5789      V5790      V5791
## OTU 7524.865 7525.865 7526.865 7527.865 7528.865 7529.865 7530.865 7531.865
##      V5792      V5793      V5794      V5795      V5796      V5797      V5798      V5799
## OTU 7532.865 7533.865 7534.865 7535.865 7536.865 7537.865 7538.865 7539.865
##      V5800      V5801      V5802      V5803      V5804      V5805      V5806      V5807
## OTU 7540.865 7541.865 7542.865 7543.865 7544.865 7545.865 7546.865 7547.865
##      V5808      V5809      V5810      V5811      V5812      V5813      V5814      V5815
## OTU 7548.865 7549.865 7550.865 7551.865 7552.865 7553.865 7554.865 7555.865
##      V5816      V5817      V5818      V5819      V5820      V5821      V5822      V5823
## OTU 7556.865 7557.865 7558.865 7559.865 7560.865 7561.865 7562.865 7563.865
##      V5824      V5825      V5826      V5827      V5828      V5829      V5830      V5831
## OTU 7564.865 7565.865 7566.865 7567.865 7568.865 7569.865 7570.865 7571.865
##      V5832      V5833      V5834      V5835      V5836      V5837      V5838      V5839
## OTU 7572.865 7573.865 7574.865 7575.865 7576.865 7577.865 7578.865 7579.865
##      V5840      V5841      V5842      V5843      V5844      V5845      V5846      V5847
## OTU 7580.865 7581.865 7582.865 7583.865 7584.865 7585.865 7586.865 7587.865
##      V5848      V5849      V5850      V5851      V5852      V5853      V5854      V5855
## OTU 7588.865 7589.865 7590.865 7591.865 7592.865 7593.865 7594.865 7595.865
##      V5856      V5857      V5858      V5859      V5860      V5861      V5862      V5863
## OTU 7596.865 7597.865 7598.865 7599.865 7600.865 7601.865 7602.865 7603.865
##      V5864      V5865      V5866      V5867      V5868      V5869      V5870      V5871
## OTU 7604.865 7605.865 7606.865 7607.865 7608.865 7609.865 7610.865 7611.865
##      V5872      V5873      V5874      V5875      V5876      V5877      V5878      V5879
## OTU 7612.865 7613.865 7614.865 7615.865 7616.865 7617.865 7618.865 7619.865

```

```

##      V5880      V5881      V5882      V5883      V5884      V5885      V5886      V5887
## OTU 7620.865 7621.865 7622.865 7623.865 7624.865 7625.865 7626.865 7627.865
##      V5888      V5889      V5890      V5891      V5892      V5893      V5894      V5895
## OTU 7628.865 7629.865 7630.865 7631.865 7632.865 7633.865 7634.865 7635.865
##      V5896      V5897      V5898      V5899      V5900      V5901      V5902      V5903
## OTU 7636.865 7637.865 7638.865 7639.865 7640.865 7641.865 7642.865 7643.865
##      V5904      V5905      V5906      V5907      V5908      V5909      V5910      V5911
## OTU 7644.865 7645.865 7646.865 7647.865 7648.865 7649.865 7650.865 7651.865
##      V5912      V5913      V5914      V5915      V5916      V5917      V5918      V5919
## OTU 7652.865 7653.865 7654.865 7655.865 7656.865 7657.865 7658.865 7659.865
##      V5920      V5921      V5922      V5923      V5924      V5925      V5926      V5927
## OTU 7660.865 7661.865 7662.865 7663.865 7664.865 7665.865 7666.865 7667.865
##      V5928      V5929      V5930      V5931      V5932      V5933      V5934      V5935
## OTU 7668.865 7669.865 7670.865 7671.865 7672.865 7673.865 7674.865 7675.865
##      V5936      V5937      V5938      V5939      V5940      V5941      V5942      V5943
## OTU 7676.865 7677.865 7678.865 7679.865 7680.865 7681.865 7682.865 7683.865
##      V5944      V5945      V5946      V5947      V5948      V5949      V5950      V5951
## OTU 7684.865 7685.865 7686.865 7687.865 7688.865 7689.865 7690.865 7691.865
##      V5952      V5953      V5954      V5955      V5956      V5957      V5958      V5959
## OTU 7692.865 7693.865 7694.865 7695.865 7696.865 7697.865 7698.865 7699.865
##      V5960      V5961      V5962      V5963      V5964      V5965      V5966      V5967
## OTU 7700.865 7701.865 7702.865 7703.865 7704.865 7705.865 7706.865 7707.865
##      V5968      V5969      V5970      V5971      V5972      V5973      V5974      V5975
## OTU 7708.865 7709.865 7710.865 7711.865 7712.865 7713.865 7714.865 7715.865
##      V5976      V5977      V5978      V5979      V5980      V5981      V5982      V5983
## OTU 7716.865 7717.865 7718.865 7719.865 7720.865 7721.865 7722.865 7723.865
##      V5984      V5985      V5986      V5987      V5988      V5989      V5990      V5991
## OTU 7724.865 7725.865 7726.865 7727.865 7728.865 7729.865 7730.865 7731.865
##      V5992      V5993      V5994      V5995      V5996      V5997      V5998      V5999
## OTU 7732.865 7733.865 7734.865 7735.865 7736.865 7737.865 7738.865 7739.865
##      V6000      V6001      V6002      V6003      V6004      V6005      V6006      V6007
## OTU 7740.865 7741.865 7742.865 7743.865 7744.865 7745.865 7746.865 7747.865
##      V6008      V6009      V6010      V6011      V6012      V6013      V6014      V6015
## OTU 7748.865 7749.865 7750.865 7751.865 7752.865 7753.865 7754.865 7755.865
##      V6016      V6017      V6018      V6019      V6020      V6021      V6022      V6023
## OTU 7756.865 7757.865 7758.865 7759.865 7760.865 7761.865 7762.865 7763.865
##      V6024      V6025      V6026      V6027      V6028      V6029      V6030      V6031
## OTU 7764.865 7765.865 7766.865 7767.865 7768.865 7769.865 7770.865 7771.865
##      V6032      V6033      V6034      V6035      V6036      V6037      V6038      V6039
## OTU 7772.865 7773.865 7774.865 7775.865 7776.865 7777.865 7778.865 7779.865
##      V6040      V6041      V6042      V6043      V6044      V6045      V6046      V6047
## OTU 7780.865 7781.865 7782.865 7783.865 7784.865 7785.865 7786.865 7787.865
##      V6048      V6049      V6050      V6051      V6052      V6053      V6054      V6055
## OTU 7788.865 7789.865 7790.865 7791.865 7792.865 7793.865 7794.865 7795.865
##      V6056      V6057      V6058      V6059      V6060      V6061      V6062      V6063
## OTU 7796.865 7797.865 7798.865 7799.865 7800.865 7801.865 7802.865 7803.865
##      V6064      V6065      V6066      V6067      V6068      V6069      V6070      V6071
## OTU 7804.865 7805.865 7806.865 7807.865 7808.865 7809.865 7810.865 7811.865
##      V6072      V6073      V6074      V6075      V6076      V6077      V6078      V6079
## OTU 7812.865 7813.865 7814.865 7815.865 7816.865 7817.865 7818.865 7819.865
##      V6080      V6081      V6082      V6083      V6084      V6085      V6086      V6087
## OTU 7820.865 7821.865 7822.865 7823.865 7824.865 7825.865 7826.865 7827.865
##      V6088      V6089      V6090      V6091      V6092      V6093      V6094      V6095
## OTU 7828.865 7829.865 7830.865 7831.865 7832.865 7833.865 7834.865 7835.865

```

##	V6096	V6097	V6098	V6099	V6100	V6101	V6102	V6103
## OTU	7836.865	7837.865	7838.865	7839.865	7840.865	7841.865	7842.865	7843.865
##	V6104	V6105	V6106	V6107	V6108	V6109	V6110	V6111
## OTU	7844.865	7845.865	7846.865	7847.865	7848.865	7849.865	7850.865	7851.865
##	V6112	V6113	V6114	V6115	V6116	V6117	V6118	V6119
## OTU	7852.865	7853.865	7854.865	7855.865	7856.865	7857.865	7858.865	7859.865
##	V6120	V6121	V6122	V6123	V6124	V6125	V6126	V6127
## OTU	7860.865	7861.865	7862.865	7863.865	7864.865	7865.865	7866.865	7867.865
##	V6128	V6129	V6130	V6131	V6132	V6133	V6134	V6135
## OTU	7868.865	7869.865	7870.865	7871.865	7872.865	7873.865	7874.865	7875.865
##	V6136	V6137	V6138	V6139	V6140	V6141	V6142	V6143
## OTU	7876.865	7877.865	7878.865	7879.865	7880.865	7881.865	7882.865	7883.865
##	V6144	V6145	V6146	V6147	V6148	V6149	V6150	V6151
## OTU	7884.865	7885.865	7886.865	7887.865	7888.865	7889.865	7890.865	7891.865
##	V6152	V6153	V6154	V6155	V6156	V6157	V6158	V6159
## OTU	7892.865	7893.865	7894.865	7895.865	7896.865	7897.865	7898.865	7899.865
##	V6160	V6161	V6162	V6163	V6164	V6165	V6166	V6167
## OTU	7900.865	7901.865	7902.865	7903.865	7904.865	7905.865	7906.865	7907.865
##	V6168	V6169	V6170	V6171	V6172	V6173	V6174	V6175
## OTU	7908.865	7909.865	7910.865	7911.865	7912.865	7913.865	7914.865	7915.865
##	V6176	V6177	V6178	V6179	V6180	V6181	V6182	V6183
## OTU	7916.865	7917.865	7918.865	7919.865	7920.865	7921.865	7922.865	7923.865
##	V6184	V6185	V6186	V6187	V6188	V6189	V6190	V6191
## OTU	7924.865	7925.865	7926.865	7927.865	7928.865	7929.865	7930.865	7931.865
##	V6192	V6193	V6194	V6195	V6196	V6197	V6198	V6199
## OTU	7932.865	7933.865	7934.865	7935.865	7936.865	7937.865	7938.865	7939.865
##	V6200	V6201	V6202	V6203	V6204	V6205	V6206	V6207
## OTU	7940.865	7941.865	7942.865	7943.865	7944.865	7945.865	7946.865	7947.865
##	V6208	V6209	V6210	V6211	V6212	V6213	V6214	V6215
## OTU	7948.865	7949.865	7950.865	7951.865	7952.865	7953.865	7954.865	7955.865
##	V6216	V6217	V6218	V6219	V6220	V6221	V6222	V6223
## OTU	7956.865	7957.865	7958.865	7959.865	7960.865	7961.865	7962.865	7963.865
##	V6224	V6225	V6226	V6227	V6228	V6229	V6230	V6231
## OTU	7964.865	7965.865	7966.865	7967.865	7968.865	7969.865	7970.865	7971.865
##	V6232	V6233	V6234	V6235	V6236	V6237	V6238	V6239
## OTU	7972.865	7973.865	7974.865	7975.865	7976.865	7977.865	7978.865	7979.865
##	V6240	V6241	V6242	V6243	V6244	V6245	V6246	V6247
## OTU	7980.865	7981.865	7982.865	7983.865	7984.865	7985.865	7986.865	7987.865
##	V6248	V6249	V6250	V6251	V6252	V6253	V6254	V6255
## OTU	7988.865	7989.865	7990.865	7991.865	7992.865	7993.865	7994.865	7995.865
##	V6256	V6257	V6258	V6259	V6260	V6261	V6262	V6263
## OTU	7996.865	7997.865	7998.865	7999.865	8000.865	8001.865	8002.865	8003.865
##	V6264	V6265	V6266	V6267	V6268	V6269	V6270	V6271
## OTU	8004.865	8005.865	8006.865	8007.865	8008.865	8009.865	8010.865	8011.865
##	V6272	V6273	V6274	V6275	V6276	V6277	V6278	V6279
## OTU	8012.865	8013.865	8014.865	8015.865	8016.865	8017.865	8018.865	8019.865
##	V6280	V6281	V6282	V6283	V6284	V6285	V6286	V6287
## OTU	8020.865	8021.865	8022.865	8023.865	8024.865	8025.865	8026.865	8027.865
##	V6288	V6289	V6290	V6291	V6292	V6293	V6294	V6295
## OTU	8028.865	8029.865	8030.865	8031.865	8032.865	8033.865	8034.865	8035.865
##	V6296	V6297	V6298	V6299	V6300	V6301	V6302	V6303
## OTU	8036.865	8037.865	8038.865	8039.865	8040.865	8041.865	8042.865	8043.865
##	V6304	V6305	V6306	V6307	V6308	V6309	V6310	V6311
## OTU	8044.865	8045.865	8046.865	8047.865	8048.865	8049.865	8050.865	8051.865

```

##      V6312      V6313      V6314      V6315      V6316      V6317      V6318      V6319
## OTU 8052.865 8053.865 8054.865 8055.865 8056.865 8057.865 8058.865 8059.865
##      V6320      V6321      V6322      V6323      V6324      V6325      V6326      V6327
## OTU 8060.865 8061.865 8062.865 8063.865 8064.865 8065.865 8066.865 8067.865
##      V6328      V6329      V6330      V6331      V6332      V6333      V6334      V6335
## OTU 8068.865 8069.865 8070.865 8071.865 8072.865 8073.865 8074.865 8075.865
##      V6336      V6337      V6338      V6339      V6340      V6341      V6342      V6343
## OTU 8076.865 8077.865 8078.865 8079.865 8080.865 8081.865 8082.865 8083.865
##      V6344      V6345      V6346      V6347      V6348      V6349      V6350      V6351
## OTU 8084.865 8085.865 8086.865 8087.865 8088.865 8089.865 8090.865 8091.865
##      V6352      V6353      V6354      V6355      V6356      V6357      V6358      V6359
## OTU 8092.865 8093.865 8094.865 8095.865 8096.865 8097.865 8098.865 8099.865
##      V6360      V6361      V6362      V6363      V6364      V6365      V6366      V6367
## OTU 8100.865 8101.865 8102.865 8103.865 8104.865 8105.865 8106.865 8107.865
##      V6368      V6369      V6370      V6371      V6372      V6373      V6374      V6375
## OTU 8108.865 8109.865 8110.865 8111.865 8112.865 8113.865 8114.865 8115.865
##      V6376      V6377      V6378      V6379      V6380      V6381      V6382      V6383
## OTU 8116.865 8117.865 8118.865 8119.865 8120.865 8121.865 8122.865 8123.865
##      V6384      V6385      V6386      V6387      V6388      V6389      V6390      V6391
## OTU 8124.865 8125.865 8126.865 8127.865 8128.865 8129.865 8130.865 8131.865
##      V6392      V6393      V6394      V6395      V6396      V6397      V6398      V6399
## OTU 8132.865 8133.865 8134.865 8135.865 8136.865 8137.865 8138.865 8139.865
##      V6400      V6401      V6402      V6403      V6404      V6405      V6406      V6407
## OTU 8140.865 8141.865 8142.865 8143.865 8144.865 8145.865 8146.865 8147.865
##      V6408      V6409      V6410      V6411      V6412      V6413      V6414      V6415
## OTU 8148.865 8149.865 8150.865 8151.865 8152.865 8153.865 8154.865 8155.865
##      V6416      V6417      V6418      V6419      V6420      V6421      V6422      V6423
## OTU 8156.865 8157.865 8158.865 8159.865 8160.865 8161.865 8162.865 8163.865
##      V6424      V6425      V6426      V6427      V6428      V6429      V6430      V6431
## OTU 8164.865 8165.865 8166.865 8167.865 8168.865 8169.865 8170.865 8171.865
##      V6432      V6433      V6434      V6435      V6436      V6437      V6438      V6439
## OTU 8172.865 8173.865 8174.865 8175.865 8176.865 8177.865 8178.865 8179.865
##      V6440      V6441      V6442      V6443      V6444      V6445      V6446      V6447
## OTU 8180.865 8181.865 8182.865 8183.865 8184.865 8185.865 8186.865 8187.865
##      V6448      V6449      V6450      V6451      V6452      V6453      V6454      V6455
## OTU 8188.865 8189.865 8190.865 8191.865 8192.865 8193.865 8194.865 8195.865
##      V6456      V6457      V6458      V6459      V6460      V6461      V6462      V6463
## OTU 8196.865 8197.865 8198.865 8199.865 8200.865 8201.865 8202.865 8203.865
##      V6464      V6465      V6466      V6467      V6468      V6469      V6470      V6471
## OTU 8204.865 8205.865 8206.865 8207.865 8208.865 8209.865 8210.865 8211.865
##      V6472      V6473      V6474      V6475      V6476      V6477      V6478      V6479
## OTU 8212.865 8213.865 8214.865 8215.865 8216.865 8217.865 8218.865 8219.865
##      V6480      V6481      V6482      V6483      V6484      V6485      V6486      V6487
## OTU 8220.865 8221.865 8222.865 8223.865 8224.865 8225.865 8226.865 8227.865
##      V6488      V6489      V6490      V6491      V6492      V6493      V6494      V6495
## OTU 8228.865 8229.865 8230.865 8231.865 8232.865 8233.865 8234.865 8235.865
##      V6496      V6497      V6498      V6499      V6500      V6501      V6502      V6503
## OTU 8236.865 8237.865 8238.865 8239.865 8240.865 8241.865 8242.865 8243.865
##      V6504      V6505      V6506      V6507      V6508      V6509      V6510      V6511
## OTU 8244.865 8245.865 8246.865 8247.865 8248.865 8249.865 8250.865 8251.865
##      V6512      V6513      V6514      V6515      V6516      V6517      V6518      V6519
## OTU 8252.865 8253.865 8254.865 8255.865 8256.865 8257.865 8258.865 8259.865
##      V6520      V6521      V6522      V6523      V6524      V6525      V6526      V6527
## OTU 8260.865 8261.865 8262.865 8263.865 8264.865 8265.865 8266.865 8267.865

```

```

##      V6528      V6529      V6530      V6531      V6532      V6533      V6534      V6535
## OTU 8268.865 8269.865 8270.865 8271.865 8272.865 8273.865 8274.865 8275.865
##      V6536      V6537      V6538      V6539      V6540      V6541      V6542      V6543
## OTU 8276.865 8277.865 8278.865 8279.865 8280.865 8281.865 8282.865 8283.865
##      V6544      V6545      V6546      V6547      V6548      V6549      V6550      V6551
## OTU 8284.865 8285.865 8286.865 8287.865 8288.865 8289.865 8290.865 8291.865
##      V6552      V6553      V6554      V6555      V6556      V6557      V6558      V6559
## OTU 8292.865 8293.865 8294.865 8295.865 8296.865 8297.865 8298.865 8299.865
##      V6560      V6561      V6562      V6563      V6564      V6565      V6566      V6567
## OTU 8300.865 8301.865 8302.865 8303.865 8304.865 8305.865 8306.865 8307.865
##      V6568      V6569      V6570      V6571      V6572      V6573      V6574      V6575
## OTU 8308.865 8309.865 8310.865 8311.865 8312.865 8313.865 8314.865 8315.865
##      V6576      V6577      V6578      V6579      V6580      V6581      V6582      V6583
## OTU 8316.865 8317.865 8318.865 8319.865 8320.865 8321.865 8322.865 8323.865
##      V6584      V6585      V6586      V6587      V6588      V6589      V6590      V6591
## OTU 8324.865 8325.865 8326.865 8327.865 8328.865 8329.865 8330.865 8331.865
##      V6592      V6593      V6594      V6595      V6596      V6597      V6598      V6599
## OTU 8332.865 8333.865 8334.865 8335.865 8336.865 8337.865 8338.865 8339.865
##      V6600      V6601      V6602      V6603      V6604      V6605      V6606      V6607
## OTU 8340.865 8341.865 8342.865 8343.865 8344.865 8345.865 8346.865 8347.865
##      V6608      V6609      V6610      V6611      V6612      V6613      V6614      V6615
## OTU 8348.865 8349.865 8350.865 8351.865 8352.865 8353.865 8354.865 8355.865
##      V6616      V6617      V6618      V6619      V6620      V6621      V6622      V6623
## OTU 8356.865 8357.865 8358.865 8359.865 8360.865 8361.865 8362.865 8363.865
##      V6624      V6625      V6626      V6627      V6628      V6629      V6630      V6631
## OTU 8364.865 8365.865 8366.865 8367.865 8368.865 8369.865 8370.865 8371.865
##      V6632      V6633      V6634      V6635      V6636      V6637      V6638      V6639
## OTU 8372.865 8373.865 8374.865 8375.865 8376.865 8377.865 8378.865 8379.865
##      V6640      V6641      V6642      V6643      V6644      V6645      V6646      V6647
## OTU 8380.865 8381.865 8382.865 8383.865 8384.865 8385.865 8386.865 8387.865
##      V6648      V6649      V6650      V6651      V6652      V6653      V6654      V6655
## OTU 8388.865 8389.865 8390.865 8391.865 8392.865 8393.865 8394.865 8395.865
##      V6656      V6657      V6658      V6659      V6660      V6661      V6662      V6663
## OTU 8396.865 8397.865 8398.865 8399.865 8400.865 8401.865 8402.865 8403.865
##      V6664      V6665      V6666      V6667      V6668      V6669      V6670      V6671
## OTU 8404.865 8405.865 8406.865 8407.865 8408.865 8409.865 8410.865 8411.865
##      V6672      V6673      V6674      V6675      V6676      V6677      V6678      V6679
## OTU 8412.865 8413.865 8414.865 8415.865 8416.865 8417.865 8418.865 8419.865
##      V6680      V6681      V6682      V6683      V6684      V6685      V6686      V6687
## OTU 8420.865 8421.865 8422.865 8423.865 8424.865 8425.865 8426.865 8427.865
##      V6688      V6689      V6690      V6691      V6692      V6693      V6694      V6695
## OTU 8428.865 8429.865 8430.865 8431.865 8432.865 8433.865 8434.865 8435.865
##      V6696      V6697      V6698      V6699      V6700      V6701      V6702      V6703
## OTU 8436.865 8437.865 8438.865 8439.865 8440.865 8441.865 8442.865 8443.865
##      V6704      V6705      V6706      V6707      V6708      V6709      V6710      V6711
## OTU 8444.865 8445.865 8446.865 8447.865 8448.865 8449.865 8450.865 8451.865
##      V6712      V6713      V6714      V6715      V6716      V6717      V6718      V6719
## OTU 8452.865 8453.865 8454.865 8455.865 8456.865 8457.865 8458.865 8459.865
##      V6720      V6721      V6722      V6723      V6724      V6725      V6726      V6727
## OTU 8460.865 8461.865 8462.865 8463.865 8464.865 8465.865 8466.865 8467.865
##      V6728      V6729      V6730      V6731      V6732      V6733      V6734      V6735
## OTU 8468.865 8469.865 8470.865 8471.865 8472.865 8473.865 8474.865 8475.865
##      V6736      V6737      V6738      V6739      V6740      V6741      V6742      V6743
## OTU 8476.865 8477.865 8478.865 8479.865 8480.865 8481.865 8482.865 8483.865

```

```

##      V6744      V6745      V6746      V6747      V6748      V6749      V6750      V6751
## OTU 8484.865 8485.865 8486.865 8487.865 8488.865 8489.865 8490.865 8491.865
##      V6752      V6753      V6754      V6755      V6756      V6757      V6758      V6759
## OTU 8492.865 8493.865 8494.865 8495.865 8496.865 8497.865 8498.865 8499.865
##      V6760      V6761      V6762      V6763      V6764      V6765      V6766      V6767
## OTU 8500.865 8501.865 8502.865 8503.865 8504.865 8505.865 8506.865 8507.865
##      V6768      V6769      V6770      V6771      V6772      V6773      V6774      V6775
## OTU 8508.865 8509.865 8510.865 8511.865 8512.865 8513.865 8514.865 8515.865
##      V6776      V6777      V6778      V6779      V6780      V6781      V6782      V6783
## OTU 8516.865 8517.865 8518.865 8519.865 8520.865 8521.865 8522.865 8523.865
##      V6784      V6785      V6786      V6787      V6788      V6789      V6790      V6791
## OTU 8524.865 8525.865 8526.865 8527.865 8528.865 8529.865 8530.865 8531.865
##      V6792      V6793      V6794      V6795      V6796      V6797      V6798      V6799
## OTU 8532.865 8533.865 8534.865 8535.865 8536.865 8537.865 8538.865 8539.865
##      V6800      V6801      V6802      V6803      V6804      V6805      V6806      V6807
## OTU 8540.865 8541.865 8542.865 8543.865 8544.865 8545.865 8546.865 8547.865
##      V6808      V6809      V6810      V6811      V6812      V6813      V6814      V6815
## OTU 8548.865 8549.865 8550.865 8551.865 8552.865 8553.865 8554.865 8555.865
##      V6816      V6817      V6818      V6819      V6820      V6821      V6822      V6823
## OTU 8556.865 8557.865 8558.865 8559.865 8560.865 8561.865 8562.865 8563.865
##      V6824      V6825      V6826      V6827      V6828      V6829      V6830      V6831
## OTU 8564.865 8565.865 8566.865 8567.865 8568.865 8569.865 8570.865 8571.865
##      V6832      V6833      V6834      V6835      V6836      V6837      V6838      V6839
## OTU 8572.865 8573.865 8574.865 8575.865 8576.865 8577.865 8578.865 8579.865
##      V6840      V6841      V6842      V6843      V6844      V6845      V6846      V6847
## OTU 8580.865 8581.865 8582.865 8583.865 8584.865 8585.865 8586.865 8587.865
##      V6848      V6849      V6850      V6851      V6852      V6853      V6854      V6855
## OTU 8588.865 8589.865 8590.865 8591.865 8592.865 8593.865 8594.865 8595.865
##      V6856      V6857      V6858      V6859      V6860      V6861      V6862      V6863
## OTU 8596.865 8597.865 8598.865 8599.865 8600.865 8601.865 8602.865 8603.865
##      V6864      V6865      V6866      V6867      V6868      V6869      V6870      V6871
## OTU 8604.865 8605.865 8606.865 8607.865 8608.865 8609.865 8610.865 8611.865
##      V6872      V6873      V6874      V6875      V6876      V6877      V6878      V6879
## OTU 8612.865 8613.865 8614.865 8615.865 8616.865 8617.865 8618.865 8619.865
##      V6880      V6881      V6882      V6883      V6884      V6885      V6886      V6887
## OTU 8620.865 8621.865 8622.865 8623.865 8624.865 8625.865 8626.865 8627.865
##      V6888      V6889      V6890      V6891      V6892      V6893      V6894      V6895
## OTU 8628.865 8629.865 8630.865 8631.865 8632.865 8633.865 8634.865 8635.865
##      V6896      V6897      V6898      V6899      V6900      V6901      V6902      V6903
## OTU 8636.865 8637.865 8638.865 8639.865 8640.865 8641.865 8642.865 8643.865
##      V6904      V6905      V6906      V6907      V6908      V6909      V6910      V6911
## OTU 8644.865 8645.865 8646.865 8647.865 8648.865 8649.865 8650.865 8651.865
##      V6912      V6913      V6914      V6915      V6916      V6917      V6918      V6919
## OTU 8652.865 8653.865 8654.865 8655.865 8656.865 8657.865 8658.865 8659.865
##      V6920      V6921      V6922      V6923      V6924      V6925      V6926      V6927
## OTU 8660.865 8661.865 8662.865 8663.865 8664.865 8665.865 8666.865 8667.865
##      V6928      V6929      V6930      V6931      V6932      V6933      V6934      V6935
## OTU 8668.865 8669.865 8670.865 8671.865 8672.865 8673.865 8674.865 8675.865
##      V6936      V6937      V6938      V6939      V6940      V6941      V6942      V6943
## OTU 8676.865 8677.865 8678.865 8679.865 8680.865 8681.865 8682.865 8683.865
##      V6944      V6945      V6946      V6947      V6948      V6949      V6950      V6951
## OTU 8684.865 8685.865 8686.865 8687.865 8688.865 8689.865 8690.865 8691.865
##      V6952      V6953      V6954      V6955      V6956      V6957      V6958      V6959
## OTU 8692.865 8693.865 8694.865 8695.865 8696.865 8697.865 8698.865 8699.865

```

```

##      V6960      V6961      V6962      V6963      V6964      V6965      V6966      V6967
## OTU 8700.865 8701.865 8702.865 8703.865 8704.865 8705.865 8706.865 8707.865
##      V6968      V6969      V6970      V6971      V6972      V6973      V6974      V6975
## OTU 8708.865 8709.865 8710.865 8711.865 8712.865 8713.865 8714.865 8715.865
##      V6976      V6977      V6978      V6979      V6980      V6981      V6982      V6983
## OTU 8716.865 8717.865 8718.865 8719.865 8720.865 8721.865 8722.865 8723.865
##      V6984      V6985      V6986      V6987      V6988      V6989      V6990      V6991
## OTU 8724.865 8725.865 8726.865 8727.865 8728.865 8729.865 8730.865 8731.865
##      V6992      V6993      V6994      V6995      V6996      V6997      V6998      V6999
## OTU 8732.865 8733.865 8734.865 8735.865 8736.865 8737.865 8738.865 8739.865
##      V7000      V7001      V7002      V7003      V7004      V7005      V7006      V7007
## OTU 8740.865 8741.865 8742.865 8743.865 8744.865 8745.865 8746.865 8747.865
##      V7008      V7009      V7010      V7011      V7012      V7013      V7014      V7015
## OTU 8748.865 8749.865 8750.865 8751.865 8752.865 8753.865 8754.865 8755.865
##      V7016      V7017      V7018      V7019      V7020      V7021      V7022      V7023
## OTU 8756.865 8757.865 8758.865 8759.865 8760.865 8761.865 8762.865 8763.865
##      V7024      V7025      V7026      V7027      V7028      V7029      V7030      V7031
## OTU 8764.865 8765.865 8766.865 8767.865 8768.865 8769.865 8770.865 8771.865
##      V7032      V7033      V7034      V7035      V7036      V7037      V7038      V7039
## OTU 8772.865 8773.865 8774.865 8775.865 8776.865 8777.865 8778.865 8779.865
##      V7040      V7041      V7042      V7043      V7044      V7045      V7046      V7047
## OTU 8780.865 8781.865 8782.865 8783.865 8784.865 8785.865 8786.865 8787.865
##      V7048      V7049      V7050      V7051      V7052      V7053      V7054      V7055
## OTU 8788.865 8789.865 8790.865 8791.865 8792.865 8793.865 8794.865 8795.865
##      V7056      V7057      V7058      V7059      V7060      V7061      V7062      V7063
## OTU 8796.865 8797.865 8798.865 8799.865 8800.865 8801.865 8802.865 8803.865
##      V7064      V7065      V7066      V7067      V7068      V7069      V7070      V7071
## OTU 8804.865 8805.865 8806.865 8807.865 8808.865 8809.865 8810.865 8811.865
##      V7072      V7073      V7074      V7075      V7076      V7077      V7078      V7079
## OTU 8812.865 8813.865 8814.865 8815.865 8816.865 8817.865 8818.865 8819.865
##      V7080      V7081      V7082      V7083      V7084      V7085      V7086      V7087
## OTU 8820.865 8821.865 8822.865 8823.865 8824.865 8825.865 8826.865 8827.865
##      V7088      V7089      V7090      V7091      V7092      V7093      V7094      V7095
## OTU 8828.865 8829.865 8830.865 8831.865 8832.865 8833.865 8834.865 8835.865
##      V7096      V7097      V7098      V7099      V7100      V7101      V7102      V7103
## OTU 8836.865 8837.865 8838.865 8839.865 8840.865 8841.865 8842.865 8843.865
##      V7104      V7105      V7106      V7107      V7108      V7109      V7110      V7111
## OTU 8844.865 8845.865 8846.865 8847.865 8848.865 8849.865 8850.865 8851.865
##      V7112      V7113      V7114      V7115      V7116      V7117      V7118      V7119
## OTU 8852.865 8853.865 8854.865 8855.865 8856.865 8857.865 8858.865 8859.865
##      V7120      V7121      V7122      V7123      V7124      V7125      V7126      V7127
## OTU 8860.865 8861.865 8862.865 8863.865 8864.865 8865.865 8866.865 8867.865
##      V7128      V7129      V7130      V7131      V7132      V7133      V7134      V7135
## OTU 8868.865 8869.865 8870.865 8871.865 8872.865 8873.865 8874.865 8875.865
##      V7136      V7137      V7138      V7139      V7140      V7141      V7142      V7143
## OTU 8876.865 8877.865 8878.865 8879.865 8880.865 8881.865 8882.865 8883.865
##      V7144      V7145      V7146      V7147      V7148      V7149      V7150      V7151
## OTU 8884.865 8885.865 8886.865 8887.865 8888.865 8889.865 8890.865 8891.865
##      V7152      V7153      V7154      V7155      V7156      V7157      V7158      V7159
## OTU 8892.865 8893.865 8894.865 8895.865 8896.865 8897.865 8898.865 8899.865
##      V7160      V7161      V7162      V7163      V7164      V7165      V7166      V7167
## OTU 8900.865 8901.865 8902.865 8903.865 8904.865 8905.865 8906.865 8907.865
##      V7168      V7169      V7170      V7171      V7172      V7173      V7174      V7175
## OTU 8908.865 8909.865 8910.865 8911.865 8912.865 8913.865 8914.865 8915.865

```

##	V7176	V7177	V7178	V7179	V7180	V7181	V7182	V7183
## OTU	8916.865	8917.865	8918.865	8919.865	8920.865	8921.865	8922.865	8923.865
##	V7184	V7185	V7186	V7187	V7188	V7189	V7190	V7191
## OTU	8924.865	8925.865	8926.865	8927.865	8928.865	8929.865	8930.865	8931.865
##	V7192	V7193	V7194	V7195	V7196	V7197	V7198	V7199
## OTU	8932.865	8933.865	8934.865	8935.865	8936.865	8937.865	8938.865	8939.865
##	V7200	V7201	V7202	V7203	V7204	V7205	V7206	V7207
## OTU	8940.865	8941.865	8942.865	8943.865	8944.865	8945.865	8946.865	8947.865
##	V7208	V7209	V7210	V7211	V7212	V7213	V7214	V7215
## OTU	8948.865	8949.865	8950.865	8951.865	8952.865	8953.865	8954.865	8955.865
##	V7216	V7217	V7218	V7219	V7220	V7221	V7222	V7223
## OTU	8956.865	8957.865	8958.865	8959.865	8960.865	8961.865	8962.865	8963.865
##	V7224	V7225	V7226	V7227	V7228	V7229	V7230	V7231
## OTU	8964.865	8965.865	8966.865	8967.865	8968.865	8969.865	8970.865	8971.865
##	V7232	V7233	V7234	V7235	V7236	V7237	V7238	V7239
## OTU	8972.865	8973.865	8974.865	8975.865	8976.865	8977.865	8978.865	8979.865
##	V7240	V7241	V7242	V7243	V7244	V7245	V7246	V7247
## OTU	8980.865	8981.865	8982.865	8983.865	8984.865	8985.865	8986.865	8987.865
##	V7248	V7249	V7250	V7251	V7252	V7253	V7254	V7255
## OTU	8988.865	8989.865	8990.865	8991.865	8992.865	8993.865	8994.865	8995.865
##	V7256	V7257	V7258	V7259	V7260	V7261	V7262	V7263
## OTU	8996.865	8997.865	8998.865	8999.865	9000.865	9001.865	9002.865	9003.865
##	V7264	V7265	V7266	V7267	V7268	V7269	V7270	V7271
## OTU	9004.865	9005.865	9006.865	9007.865	9008.865	9009.865	9010.865	9011.865
##	V7272	V7273	V7274	V7275	V7276	V7277	V7278	V7279
## OTU	9012.865	9013.865	9014.865	9015.865	9016.865	9017.865	9018.865	9019.865
##	V7280	V7281	V7282	V7283	V7284	V7285	V7286	V7287
## OTU	9020.865	9021.865	9022.865	9023.865	9024.865	9025.865	9026.865	9027.865
##	V7288	V7289	V7290	V7291	V7292	V7293	V7294	V7295
## OTU	9028.865	9029.865	9030.865	9031.865	9032.865	9033.865	9034.865	9035.865
##	V7296	V7297	V7298	V7299	V7300	V7301	V7302	V7303
## OTU	9036.865	9037.865	9038.865	9039.865	9040.865	9041.865	9042.865	9043.865
##	V7304	V7305	V7306	V7307	V7308	V7309	V7310	V7311
## OTU	9044.865	9045.865	9046.865	9047.865	9048.865	9049.865	9050.865	9051.865
##	V7312	V7313	V7314	V7315	V7316	V7317	V7318	V7319
## OTU	9052.865	9053.865	9054.865	9055.865	9056.865	9057.865	9058.865	9059.865
##	V7320	V7321	V7322	V7323	V7324	V7325	V7326	V7327
## OTU	9060.865	9061.865	9062.865	9063.865	9064.865	9065.865	9066.865	9067.865
##	V7328	V7329	V7330	V7331	V7332	V7333	V7334	V7335
## OTU	9068.865	9069.865	9070.865	9071.865	9072.865	9073.865	9074.865	9075.865
##	V7336	V7337	V7338	V7339	V7340	V7341	V7342	V7343
## OTU	9076.865	9077.865	9078.865	9079.865	9080.865	9081.865	9082.865	9083.865
##	V7344	V7345	V7346	V7347	V7348	V7349	V7350	V7351
## OTU	9084.865	9085.865	9086.865	9087.865	9088.865	9089.865	9090.865	9091.865
##	V7352	V7353	V7354	V7355	V7356	V7357	V7358	V7359
## OTU	9092.865	9093.865	9094.865	9095.865	9096.865	9097.865	9098.865	9099.865
##	V7360	V7361	V7362	V7363	V7364	V7365	V7366	V7367
## OTU	9100.865	9101.865	9102.865	9103.865	9104.865	9105.865	9106.865	9107.865
##	V7368	V7369	V7370	V7371	V7372	V7373	V7374	V7375
## OTU	9108.865	9109.865	9110.865	9111.865	9112.865	9113.865	9114.865	9115.865
##	V7376	V7377	V7378	V7379	V7380	V7381	V7382	V7383
## OTU	9116.865	9117.865	9118.865	9119.865	9120.865	9121.865	9122.865	9123.865
##	V7384	V7385	V7386	V7387	V7388	V7389	V7390	V7391
## OTU	9124.865	9125.865	9126.865	9127.865	9128.865	9129.865	9130.865	9131.865

##	V7392	V7393	V7394	V7395	V7396	V7397	V7398	V7399
## OTU	9132.865	9133.865	9134.865	9135.865	9136.865	9137.865	9138.865	9139.865
##	V7400	V7401	V7402	V7403	V7404	V7405	V7406	V7407
## OTU	9140.865	9141.865	9142.865	9143.865	9144.865	9145.865	9146.865	9147.865
##	V7408	V7409	V7410	V7411	V7412	V7413	V7414	V7415
## OTU	9148.865	9149.865	9150.865	9151.865	9152.865	9153.865	9154.865	9155.865
##	V7416	V7417	V7418	V7419	V7420	V7421	V7422	V7423
## OTU	9156.865	9157.865	9158.865	9159.865	9160.865	9161.865	9162.865	9163.865
##	V7424	V7425	V7426	V7427	V7428	V7429	V7430	V7431
## OTU	9164.865	9165.865	9166.865	9167.865	9168.865	9169.865	9170.865	9171.865
##	V7432	V7433	V7434	V7435	V7436	V7437	V7438	V7439
## OTU	9172.865	9173.865	9174.865	9175.865	9176.865	9177.865	9178.865	9179.865
##	V7440	V7441	V7442	V7443	V7444	V7445	V7446	V7447
## OTU	9180.865	9181.865	9182.865	9183.865	9184.865	9185.865	9186.865	9187.865
##	V7448	V7449	V7450	V7451	V7452	V7453	V7454	V7455
## OTU	9188.865	9189.865	9190.865	9191.865	9192.865	9193.865	9194.865	9195.865
##	V7456	V7457	V7458	V7459	V7460	V7461	V7462	V7463
## OTU	9196.865	9197.865	9198.865	9199.865	9200.865	9201.865	9202.865	9203.865
##	V7464	V7465	V7466	V7467	V7468	V7469	V7470	V7471
## OTU	9204.865	9205.865	9206.865	9207.865	9208.865	9209.865	9210.865	9211.865
##	V7472	V7473	V7474	V7475	V7476	V7477	V7478	V7479
## OTU	9212.865	9213.865	9214.865	9215.865	9216.865	9217.865	9218.865	9219.865
##	V7480	V7481	V7482	V7483	V7484	V7485	V7486	V7487
## OTU	9220.865	9221.865	9222.865	9223.865	9224.865	9225.865	9226.865	9227.865
##	V7488	V7489	V7490	V7491	V7492	V7493	V7494	V7495
## OTU	9228.865	9229.865	9230.865	9231.865	9232.865	9233.865	9234.865	9235.865
##	V7496	V7497	V7498	V7499	V7500	V7501	V7502	V7503
## OTU	9236.865	9237.865	9238.865	9239.865	9240.865	9241.865	9242.865	9243.865
##	V7504	V7505	V7506	V7507	V7508	V7509	V7510	V7511
## OTU	9244.865	9245.865	9246.865	9247.865	9248.865	9249.865	9250.865	9251.865
##	V7512	V7513	V7514	V7515	V7516	V7517	V7518	V7519
## OTU	9252.865	9253.865	9254.865	9255.865	9256.865	9257.865	9258.865	9259.865
##	V7520	V7521	V7522	V7523	V7524	V7525	V7526	V7527
## OTU	9260.865	9261.865	9262.865	9263.865	9264.865	9265.865	9266.865	9267.865
##	V7528	V7529	V7530	V7531	V7532	V7533	V7534	V7535
## OTU	9268.865	9269.865	9270.865	9271.865	9272.865	9273.865	9274.865	9275.865
##	V7536	V7537	V7538	V7539	V7540	V7541	V7542	V7543
## OTU	9276.865	9277.865	9278.865	9279.865	9280.865	9281.865	9282.865	9283.865
##	V7544	V7545	V7546	V7547	V7548	V7549	V7550	V7551
## OTU	9284.865	9285.865	9286.865	9287.865	9288.865	9289.865	9290.865	9291.865
##	V7552	V7553	V7554	V7555	V7556	V7557	V7558	V7559
## OTU	9292.865	9293.865	9294.865	9295.865	9296.865	9297.865	9298.865	9299.865
##	V7560	V7561	V7562	V7563	V7564	V7565	V7566	V7567
## OTU	9300.865	9301.865	9302.865	9303.865	9304.865	9305.865	9306.865	9307.865
##	V7568	V7569	V7570	V7571	V7572	V7573	V7574	V7575
## OTU	9308.865	9309.865	9310.865	9311.865	9312.865	9313.865	9314.865	9315.865
##	V7576	V7577	V7578	V7579	V7580	V7581	V7582	V7583
## OTU	9316.865	9317.865	9318.865	9319.865	9320.865	9321.865	9322.865	9323.865
##	V7584	V7585	V7586	V7587	V7588	V7589	V7590	V7591
## OTU	9324.865	9325.865	9326.865	9327.865	9328.865	9329.865	9330.865	9331.865
##	V7592	V7593	V7594	V7595	V7596	V7597	V7598	V7599
## OTU	9332.865	9333.865	9334.865	9335.865	9336.865	9337.865	9338.865	9339.865
##	V7600	V7601	V7602	V7603	V7604	V7605	V7606	V7607
## OTU	9340.865	9341.865	9342.865	9343.865	9344.865	9345.865	9346.865	9347.865

##	V7608	V7609	V7610	V7611	V7612	V7613	V7614	V7615
## OTU	9348.865	9349.865	9350.865	9351.865	9352.865	9353.865	9354.865	9355.865
##	V7616	V7617	V7618	V7619	V7620	V7621	V7622	V7623
## OTU	9356.865	9357.865	9358.865	9359.865	9360.865	9361.865	9362.865	9363.865
##	V7624	V7625	V7626	V7627	V7628	V7629	V7630	V7631
## OTU	9364.865	9365.865	9366.865	9367.865	9368.865	9369.865	9370.865	9371.865
##	V7632	V7633	V7634	V7635	V7636	V7637	V7638	V7639
## OTU	9372.865	9373.865	9374.865	9375.865	9376.865	9377.865	9378.865	9379.865
##	V7640	V7641	V7642	V7643	V7644	V7645	V7646	V7647
## OTU	9380.865	9381.865	9382.865	9383.865	9384.865	9385.865	9386.865	9387.865
##	V7648	V7649	V7650	V7651	V7652	V7653	V7654	V7655
## OTU	9388.865	9389.865	9390.865	9391.865	9392.865	9393.865	9394.865	9395.865
##	V7656	V7657	V7658	V7659	V7660	V7661	V7662	V7663
## OTU	9396.865	9397.865	9398.865	9399.865	9400.865	9401.865	9402.865	9403.865
##	V7664	V7665	V7666	V7667	V7668	V7669	V7670	V7671
## OTU	9404.865	9405.865	9406.865	9407.865	9408.865	9409.865	9410.865	9411.865
##	V7672	V7673	V7674	V7675	V7676	V7677	V7678	V7679
## OTU	9412.865	9413.865	9414.865	9415.865	9416.865	9417.865	9418.865	9419.865
##	V7680	V7681	V7682	V7683	V7684	V7685	V7686	V7687
## OTU	9420.865	9421.865	9422.865	9423.865	9424.865	9425.865	9426.865	9427.865
##	V7688	V7689	V7690	V7691	V7692	V7693	V7694	V7695
## OTU	9428.865	9429.865	9430.865	9431.865	9432.865	9433.865	9434.865	9435.865
##	V7696	V7697	V7698	V7699	V7700	V7701	V7702	V7703
## OTU	9436.865	9437.865	9438.865	9439.865	9440.865	9441.865	9442.865	9443.865
##	V7704	V7705	V7706	V7707	V7708	V7709	V7710	V7711
## OTU	9444.865	9445.865	9446.865	9447.865	9448.865	9449.865	9450.865	9451.865
##	V7712	V7713	V7714	V7715	V7716	V7717	V7718	V7719
## OTU	9452.865	9453.865	9454.865	9455.865	9456.865	9457.865	9458.865	9459.865
##	V7720	V7721	V7722	V7723	V7724	V7725	V7726	V7727
## OTU	9460.865	9461.865	9462.865	9463.865	9464.865	9465.865	9466.865	9467.865
##	V7728	V7729	V7730	V7731	V7732	V7733	V7734	V7735
## OTU	9468.865	9469.865	9470.865	9471.865	9472.865	9473.865	9474.865	9475.865
##	V7736	V7737	V7738	V7739	V7740	V7741	V7742	V7743
## OTU	9476.865	9477.865	9478.865	9479.865	9480.865	9481.865	9482.865	9483.865
##	V7744	V7745	V7746	V7747	V7748	V7749	V7750	V7751
## OTU	9484.865	9485.865	9486.865	9487.865	9488.865	9489.865	9490.865	9491.865
##	V7752	V7753	V7754	V7755	V7756	V7757	V7758	V7759
## OTU	9492.865	9493.865	9494.865	9495.865	9496.865	9497.865	9498.865	9499.865
##	V7760	V7761	V7762	V7763	V7764	V7765	V7766	V7767
## OTU	9500.865	9501.865	9502.865	9503.865	9504.865	9505.865	9506.865	9507.865
##	V7768	V7769	V7770	V7771	V7772	V7773	V7774	V7775
## OTU	9508.865	9509.865	9510.865	9511.865	9512.865	9513.865	9514.865	9515.865
##	V7776	V7777	V7778	V7779	V7780	V7781	V7782	V7783
## OTU	9516.865	9517.865	9518.865	9519.865	9520.865	9521.865	9522.865	9523.865
##	V7784	V7785	V7786	V7787	V7788	V7789	V7790	V7791
## OTU	9524.865	9525.865	9526.865	9527.865	9528.865	9529.865	9530.865	9531.865
##	V7792	V7793	V7794	V7795	V7796	V7797	V7798	V7799
## OTU	9532.865	9533.865	9534.865	9535.865	9536.865	9537.865	9538.865	9539.865
##	V7800	V7801	V7802	V7803	V7804	V7805	V7806	V7807
## OTU	9540.865	9541.865	9542.865	9543.865	9544.865	9545.865	9546.865	9547.865
##	V7808	V7809	V7810	V7811	V7812	V7813	V7814	V7815
## OTU	9548.865	9549.865	9550.865	9551.865	9552.865	9553.865	9554.865	9555.865
##	V7816	V7817	V7818	V7819	V7820	V7821	V7822	V7823
## OTU	9556.865	9557.865	9558.865	9559.865	9560.865	9561.865	9562.865	9563.865

##	V7824	V7825	V7826	V7827	V7828	V7829	V7830	V7831
## OTU	9564.865	9565.865	9566.865	9567.865	9568.865	9569.865	9570.865	9571.865
##	V7832	V7833	V7834	V7835	V7836	V7837	V7838	V7839
## OTU	9572.865	9573.865	9574.865	9575.865	9576.865	9577.865	9578.865	9579.865
##	V7840	V7841	V7842	V7843	V7844	V7845	V7846	V7847
## OTU	9580.865	9581.865	9582.865	9583.865	9584.865	9585.865	9586.865	9587.865
##	V7848	V7849	V7850	V7851	V7852	V7853	V7854	V7855
## OTU	9588.865	9589.865	9590.865	9591.865	9592.865	9593.865	9594.865	9595.865
##	V7856	V7857	V7858	V7859	V7860	V7861	V7862	V7863
## OTU	9596.865	9597.865	9598.865	9599.865	9600.865	9601.865	9602.865	9603.865
##	V7864	V7865	V7866	V7867	V7868	V7869	V7870	V7871
## OTU	9604.865	9605.865	9606.865	9607.865	9608.865	9609.865	9610.865	9611.865
##	V7872	V7873	V7874	V7875	V7876	V7877	V7878	V7879
## OTU	9612.865	9613.865	9614.865	9615.865	9616.865	9617.865	9618.865	9619.865
##	V7880	V7881	V7882	V7883	V7884	V7885	V7886	V7887
## OTU	9620.865	9621.865	9622.865	9623.865	9624.865	9625.865	9626.865	9627.865
##	V7888	V7889	V7890	V7891	V7892	V7893	V7894	V7895
## OTU	9628.865	9629.865	9630.865	9631.865	9632.865	9633.865	9634.865	9635.865
##	V7896	V7897	V7898	V7899	V7900	V7901	V7902	V7903
## OTU	9636.865	9637.865	9638.865	9639.865	9640.865	9641.865	9642.865	9643.865
##	V7904	V7905	V7906	V7907	V7908	V7909	V7910	V7911
## OTU	9644.865	9645.865	9646.865	9647.865	9648.865	9649.865	9650.865	9651.865
##	V7912	V7913	V7914	V7915	V7916	V7917	V7918	V7919
## OTU	9652.865	9653.865	9654.865	9655.865	9656.865	9657.865	9658.865	9659.865
##	V7920	V7921	V7922	V7923	V7924	V7925	V7926	V7927
## OTU	9660.865	9661.865	9662.865	9663.865	9664.865	9665.865	9666.865	9667.865
##	V7928	V7929	V7930	V7931	V7932	V7933	V7934	V7935
## OTU	9668.865	9669.865	9670.865	9671.865	9672.865	9673.865	9674.865	9675.865
##	V7936	V7937	V7938	V7939	V7940	V7941	V7942	V7943
## OTU	9676.865	9677.865	9678.865	9679.865	9680.865	9681.865	9682.865	9683.865
##	V7944	V7945	V7946	V7947	V7948	V7949	V7950	V7951
## OTU	9684.865	9685.865	9686.865	9687.865	9688.865	9689.865	9690.865	9691.865
##	V7952	V7953	V7954	V7955	V7956	V7957	V7958	V7959
## OTU	9692.865	9693.865	9694.865	9695.865	9696.865	9697.865	9698.865	9699.865
##	V7960	V7961	V7962	V7963	V7964	V7965	V7966	V7967
## OTU	9700.865	9701.865	9702.865	9703.865	9704.865	9705.865	9706.865	9707.865
##	V7968	V7969	V7970	V7971	V7972	V7973	V7974	V7975
## OTU	9708.865	9709.865	9710.865	9711.865	9712.865	9713.865	9714.865	9715.865
##	V7976	V7977	V7978	V7979	V7980	V7981	V7982	V7983
## OTU	9716.865	9717.865	9718.865	9719.865	9720.865	9721.865	9722.865	9723.865
##	V7984	V7985	V7986	V7987	V7988	V7989	V7990	V7991
## OTU	9724.865	9725.865	9726.865	9727.865	9728.865	9729.865	9730.865	9731.865
##	V7992	V7993	V7994	V7995	V7996	V7997	V7998	V7999
## OTU	9732.865	9733.865	9734.865	9735.865	9736.865	9737.865	9738.865	9739.865
##	V8000	V8001	V8002	V8003	V8004	V8005	V8006	V8007
## OTU	9740.865	9741.865	9742.865	9743.865	9744.865	9745.865	9746.865	9747.865
##	V8008	V8009	V8010	V8011	V8012	V8013	V8014	V8015
## OTU	9748.865	9749.865	9750.865	9751.865	9752.865	9753.865	9754.865	9755.865
##	V8016	V8017	V8018	V8019	V8020	V8021	V8022	V8023
## OTU	9756.865	9757.865	9758.865	9759.865	9760.865	9761.865	9762.865	9763.865
##	V8024	V8025	V8026	V8027	V8028	V8029	V8030	V8031
## OTU	9764.865	9765.865	9766.865	9767.865	9768.865	9769.865	9770.865	9771.865
##	V8032	V8033	V8034	V8035	V8036	V8037	V8038	V8039
## OTU	9772.865	9773.865	9774.865	9775.865	9776.865	9777.865	9778.865	9779.865

##	V8040	V8041	V8042	V8043	V8044	V8045	V8046	V8047
## OTU	9780.865	9781.865	9782.865	9783.865	9784.865	9785.865	9786.865	9787.865
##	V8048	V8049	V8050	V8051	V8052	V8053	V8054	V8055
## OTU	9788.865	9789.865	9790.865	9791.865	9792.865	9793.865	9794.865	9795.865
##	V8056	V8057	V8058	V8059	V8060	V8061	V8062	V8063
## OTU	9796.865	9797.865	9798.865	9799.865	9800.865	9801.865	9802.865	9803.865
##	V8064	V8065	V8066	V8067	V8068	V8069	V8070	V8071
## OTU	9804.865	9805.865	9806.865	9807.865	9808.865	9809.865	9810.865	9811.865
##	V8072	V8073	V8074	V8075	V8076	V8077	V8078	V8079
## OTU	9812.865	9813.865	9814.865	9815.865	9816.865	9817.865	9818.865	9819.865
##	V8080	V8081	V8082	V8083	V8084	V8085	V8086	V8087
## OTU	9820.865	9821.865	9822.865	9823.865	9824.865	9825.865	9826.865	9827.865
##	V8088	V8089	V8090	V8091	V8092	V8093	V8094	V8095
## OTU	9828.865	9829.865	9830.865	9831.865	9832.865	9833.865	9834.865	9835.865
##	V8096	V8097	V8098	V8099	V8100	V8101	V8102	V8103
## OTU	9836.865	9837.865	9838.865	9839.865	9840.865	9841.865	9842.865	9843.865
##	V8104	V8105	V8106	V8107	V8108	V8109	V8110	V8111
## OTU	9844.865	9845.865	9846.865	9847.865	9848.865	9849.865	9850.865	9851.865
##	V8112	V8113	V8114	V8115	V8116	V8117	V8118	V8119
## OTU	9852.865	9853.865	9854.865	9855.865	9856.865	9857.865	9858.865	9859.865
##	V8120	V8121	V8122	V8123	V8124	V8125	V8126	V8127
## OTU	9860.865	9861.865	9862.865	9863.865	9864.865	9865.865	9866.865	9867.865
##	V8128	V8129	V8130	V8131	V8132	V8133	V8134	V8135
## OTU	9868.865	9869.865	9870.865	9871.865	9872.865	9873.865	9874.865	9875.865
##	V8136	V8137	V8138	V8139	V8140	V8141	V8142	V8143
## OTU	9876.865	9877.865	9878.865	9879.865	9880.865	9881.865	9882.865	9883.865
##	V8144	V8145	V8146	V8147	V8148	V8149	V8150	V8151
## OTU	9884.865	9885.865	9886.865	9887.865	9888.865	9889.865	9890.865	9891.865
##	V8152	V8153	V8154	V8155	V8156	V8157	V8158	V8159
## OTU	9892.865	9893.865	9894.865	9895.865	9896.865	9897.865	9898.865	9899.865
##	V8160	V8161	V8162	V8163	V8164	V8165	V8166	V8167
## OTU	9900.865	9901.865	9902.865	9903.865	9904.865	9905.865	9906.865	9907.865
##	V8168	V8169	V8170	V8171	V8172	V8173	V8174	V8175
## OTU	9908.865	9909.865	9910.865	9911.865	9912.865	9913.865	9914.865	9915.865
##	V8176	V8177	V8178	V8179	V8180	V8181	V8182	V8183
## OTU	9916.865	9917.865	9918.865	9919.865	9920.865	9921.865	9922.865	9923.865
##	V8184	V8185	V8186	V8187	V8188	V8189	V8190	V8191
## OTU	9924.865	9925.865	9926.865	9927.865	9928.865	9929.865	9930.865	9931.865
##	V8192	V8193	V8194	V8195	V8196	V8197	V8198	V8199
## OTU	9932.865	9933.865	9934.865	9935.865	9936.865	9937.865	9938.865	9939.865
##	V8200	V8201	V8202	V8203	V8204	V8205	V8206	V8207
## OTU	9940.865	9941.865	9942.865	9943.865	9944.865	9945.865	9946.865	9947.865
##	V8208	V8209	V8210	V8211	V8212	V8213	V8214	V8215
## OTU	9948.865	9949.865	9950.865	9951.865	9952.865	9953.865	9954.865	9955.865
##	V8216	V8217	V8218	V8219	V8220	V8221	V8222	V8223
## OTU	9956.865	9957.865	9958.865	9959.865	9960.865	9961.865	9962.865	9963.865
##	V8224	V8225	V8226	V8227	V8228	V8229	V8230	V8231
## OTU	9964.865	9965.865	9966.865	9967.865	9968.865	9969.865	9970.865	9971.865
##	V8232	V8233	V8234	V8235	V8236	V8237	V8238	V8239
## OTU	9972.865	9973.865	9974.865	9975.865	9976.865	9977.865	9978.865	9979.865
##	V8240	V8241	V8242	V8243	V8244	V8245	V8246	V8247
## OTU	9980.865	9981.865	9982.865	9983.865	9984.865	9985.865	9986.865	9987.865
##	V8248	V8249	V8250	V8251	V8252	V8253	V8254	V8255
## OTU	9988.865	9989.865	9990.865	9991.865	9992.865	9993.865	9994.865	9995.865

##	V8256	V8257	V8258	V8259	V8260	V8261	V8262	V8263
## OTU	9996.865	9997.865	9998.865	9999.865	10000.86	10001.86	10002.86	10003.86
##	V8264	V8265	V8266	V8267	V8268	V8269	V8270	V8271
## OTU	10004.86	10005.86	10006.86	10007.86	10008.86	10009.86	10010.86	10011.86
##	V8272	V8273	V8274	V8275	V8276	V8277	V8278	V8279
## OTU	10012.86	10013.86	10014.86	10015.86	10016.86	10017.86	10018.86	10019.86
##	V8280	V8281	V8282	V8283	V8284	V8285	V8286	V8287
## OTU	10020.86	10021.86	10022.86	10023.86	10024.86	10025.86	10026.86	10027.86
##	V8288	V8289	V8290	V8291	V8292	V8293	V8294	V8295
## OTU	10028.86	10029.86	10030.86	10031.86	10032.86	10033.86	10034.86	10035.86
##	V8296	V8297	V8298	V8299	V8300	V8301	V8302	V8303
## OTU	10036.86	10037.86	10038.86	10039.86	10040.86	10041.86	10042.86	10043.86
##	V8304	V8305	V8306	V8307	V8308	V8309	V8310	V8311
## OTU	10044.86	10045.86	10046.86	10047.86	10048.86	10049.86	10050.86	10051.86
##	V8312	V8313	V8314	V8315	V8316	V8317	V8318	V8319
## OTU	10052.86	10053.86	10054.86	10055.86	10056.86	10057.86	10058.86	10059.86
##	V8320	V8321	V8322	V8323	V8324	V8325	V8326	V8327
## OTU	10060.86	10061.86	10062.86	10063.86	10064.86	10065.86	10066.86	10067.86
##	V8328	V8329	V8330	V8331	V8332	V8333	V8334	V8335
## OTU	10068.86	10069.86	10070.86	10071.86	10072.86	10073.86	10074.86	10075.86
##	V8336	V8337	V8338	V8339	V8340	V8341	V8342	V8343
## OTU	10076.86	10077.86	10078.86	10079.86	10080.86	10081.86	10082.86	10083.86
##	V8344	V8345	V8346	V8347	V8348	V8349	V8350	V8351
## OTU	10084.86	10085.86	10086.86	10087.86	10088.86	10089.86	10090.86	10091.86
##	V8352	V8353	V8354	V8355	V8356	V8357	V8358	V8359
## OTU	10092.86	10093.86	10094.86	10095.86	10096.86	10097.86	10098.86	10099.86
##	V8360	V8361	V8362	V8363	V8364	V8365	V8366	V8367
## OTU	10100.86	10101.86	10102.86	10103.86	10104.86	10105.86	10106.86	10107.86
##	V8368	V8369	V8370	V8371	V8372	V8373	V8374	V8375
## OTU	10108.86	10109.86	10110.86	10111.86	10112.86	10113.86	10114.86	10115.86
##	V8376	V8377	V8378	V8379	V8380	V8381	V8382	V8383
## OTU	10116.86	10117.86	10118.86	10119.86	10120.86	10121.86	10122.86	10123.86
##	V8384	V8385	V8386	V8387	V8388	V8389	V8390	V8391
## OTU	10124.86	10125.86	10126.86	10127.86	10128.86	10129.86	10130.86	10131.86
##	V8392	V8393	V8394	V8395	V8396	V8397	V8398	V8399
## OTU	10132.86	10133.86	10134.86	10135.86	10136.86	10137.86	10138.86	10139.86
##	V8400	V8401	V8402	V8403	V8404	V8405	V8406	V8407
## OTU	10140.86	10141.86	10142.86	10143.86	10144.86	10145.86	10146.86	10147.86
##	V8408	V8409	V8410	V8411	V8412	V8413	V8414	V8415
## OTU	10148.86	10149.86	10150.86	10151.86	10152.86	10153.86	10154.86	10155.86
##	V8416	V8417	V8418	V8419	V8420	V8421	V8422	V8423
## OTU	10156.86	10157.86	10158.86	10159.86	10160.86	10161.86	10162.86	10163.86
##	V8424	V8425	V8426	V8427	V8428	V8429	V8430	V8431
## OTU	10164.86	10165.86	10166.86	10167.86	10168.86	10169.86	10170.86	10171.86
##	V8432	V8433	V8434	V8435	V8436	V8437	V8438	V8439
## OTU	10172.86	10173.86	10174.86	10175.86	10176.86	10177.86	10178.86	10179.86
##	V8440	V8441	V8442	V8443	V8444	V8445	V8446	V8447
## OTU	10180.86	10181.86	10182.86	10183.86	10184.86	10185.86	10186.86	10187.86
##	V8448	V8449	V8450	V8451	V8452	V8453	V8454	V8455
## OTU	10188.86	10189.86	10190.86	10191.86	10192.86	10193.86	10194.86	10195.86
##	V8456	V8457	V8458	V8459	V8460	V8461	V8462	V8463
## OTU	10196.86	10197.86	10198.86	10199.86	10200.86	10201.86	10202.86	10203.86
##	V8464	V8465	V8466	V8467	V8468	V8469	V8470	V8471
## OTU	10204.86	10205.86	10206.86	10207.86	10208.86	10209.86	10210.86	10211.86

##	V8472	V8473	V8474	V8475	V8476	V8477	V8478	V8479
## OTU	10212.86	10213.86	10214.86	10215.86	10216.86	10217.86	10218.86	10219.86
##	V8480	V8481	V8482	V8483	V8484	V8485	V8486	V8487
## OTU	10220.86	10221.86	10222.86	10223.86	10224.86	10225.86	10226.86	10227.86
##	V8488	V8489	V8490	V8491	V8492	V8493	V8494	V8495
## OTU	10228.86	10229.86	10230.86	10231.86	10232.86	10233.86	10234.86	10235.86
##	V8496	V8497	V8498	V8499	V8500	V8501	V8502	V8503
## OTU	10236.86	10237.86	10238.86	10239.86	10240.86	10241.86	10242.86	10243.86
##	V8504	V8505	V8506	V8507	V8508	V8509	V8510	V8511
## OTU	10244.86	10245.86	10246.86	10247.86	10248.86	10249.86	10250.86	10251.86
##	V8512	V8513	V8514	V8515	V8516	V8517	V8518	V8519
## OTU	10252.86	10253.86	10254.86	10255.86	10256.86	10257.86	10258.86	10259.86
##	V8520	V8521	V8522	V8523	V8524	V8525	V8526	V8527
## OTU	10260.86	10261.86	10262.86	10263.86	10264.86	10265.86	10266.86	10267.86
##	V8528	V8529	V8530	V8531	V8532	V8533	V8534	V8535
## OTU	10268.86	10269.86	10270.86	10271.86	10272.86	10273.86	10274.86	10275.86
##	V8536	V8537	V8538	V8539	V8540	V8541	V8542	V8543
## OTU	10276.86	10277.86	10278.86	10279.86	10280.86	10281.86	10282.86	10283.86
##	V8544	V8545	V8546	V8547	V8548	V8549	V8550	V8551
## OTU	10284.86	10285.86	10286.86	10287.86	10288.86	10289.86	10290.86	10291.86
##	V8552	V8553	V8554	V8555	V8556	V8557	V8558	V8559
## OTU	10292.86	10293.86	10294.86	10295.86	10296.86	10297.86	10298.86	10299.86
##	V8560	V8561	V8562	V8563	V8564	V8565	V8566	V8567
## OTU	10300.86	10301.86	10302.86	10303.86	10304.86	10305.86	10306.86	10307.86
##	V8568	V8569	V8570	V8571	V8572	V8573	V8574	V8575
## OTU	10308.86	10309.86	10310.86	10311.86	10312.86	10313.86	10314.86	10315.86
##	V8576	V8577	V8578	V8579	V8580	V8581	V8582	V8583
## OTU	10316.86	10317.86	10318.86	10319.86	10320.86	10321.86	10322.86	10323.86
##	V8584	V8585	V8586	V8587	V8588	V8589	V8590	V8591
## OTU	10324.86	10325.86	10326.86	10327.86	10328.86	10329.86	10330.86	10331.86
##	V8592	V8593	V8594	V8595	V8596	V8597	V8598	V8599
## OTU	10332.86	10333.86	10334.86	10335.86	10336.86	10337.86	10338.86	10339.86
##	V8600	V8601	V8602	V8603	V8604	V8605	V8606	V8607
## OTU	10340.86	10341.86	10342.86	10343.86	10344.86	10345.86	10346.86	10347.86
##	V8608	V8609	V8610	V8611	V8612	V8613	V8614	V8615
## OTU	10348.86	10349.86	10350.86	10351.86	10352.86	10353.86	10354.86	10355.86
##	V8616	V8617	V8618	V8619	V8620	V8621	V8622	V8623
## OTU	10356.86	10357.86	10358.86	10359.86	10360.86	10361.86	10362.86	10363.86
##	V8624	V8625	V8626	V8627	V8628	V8629	V8630	V8631
## OTU	10364.86	10365.86	10366.86	10367.86	10368.86	10369.86	10370.86	10371.86
##	V8632	V8633	V8634	V8635	V8636	V8637	V8638	V8639
## OTU	10372.86	10373.86	10374.86	10375.86	10376.86	10377.86	10378.86	10379.86
##	V8640	V8641	V8642	V8643	V8644	V8645	V8646	V8647
## OTU	10380.86	10381.86	10382.86	10383.86	10384.86	10385.86	10386.86	10387.86
##	V8648	V8649	V8650	V8651	V8652	V8653	V8654	V8655
## OTU	10388.86	10389.86	10390.86	10391.86	10392.86	10393.86	10394.86	10395.86
##	V8656	V8657	V8658	V8659	V8660	V8661	V8662	V8663
## OTU	10396.86	10397.86	10398.86	10399.86	10400.86	10401.86	10402.86	10403.86
##	V8664	V8665	V8666	V8667	V8668	V8669	V8670	V8671
## OTU	10404.86	10405.86	10406.86	10407.86	10408.86	10409.86	10410.86	10411.86
##	V8672	V8673	V8674	V8675	V8676	V8677	V8678	V8679
## OTU	10412.86	10413.86	10414.86	10415.86	10416.86	10417.86	10418.86	10419.86
##	V8680	V8681	V8682	V8683	V8684	V8685	V8686	V8687
## OTU	10420.86	10421.86	10422.86	10423.86	10424.86	10425.86	10426.86	10427.86

##	V8688	V8689	V8690	V8691	V8692	V8693	V8694	V8695
## OTU	10428.86	10429.86	10430.86	10431.86	10432.86	10433.86	10434.86	10435.86
##	V8696	V8697	V8698	V8699	V8700	V8701	V8702	V8703
## OTU	10436.86	10437.86	10438.86	10439.86	10440.86	10441.86	10442.86	10443.86
##	V8704	V8705	V8706	V8707	V8708	V8709	V8710	V8711
## OTU	10444.86	10445.86	10446.86	10447.86	10448.86	10449.86	10450.86	10451.86
##	V8712	V8713	V8714	V8715	V8716	V8717	V8718	V8719
## OTU	10452.86	10453.86	10454.86	10455.86	10456.86	10457.86	10458.86	10459.86
##	V8720	V8721	V8722	V8723	V8724	V8725	V8726	V8727
## OTU	10460.86	10461.86	10462.86	10463.86	10464.86	10465.86	10466.86	10467.86
##	V8728	V8729	V8730	V8731	V8732	V8733	V8734	V8735
## OTU	10468.86	10469.86	10470.86	10471.86	10472.86	10473.86	10474.86	10475.86
##	V8736	V8737	V8738	V8739	V8740	V8741	V8742	V8743
## OTU	10476.86	10477.86	10478.86	10479.86	10480.86	10481.86	10482.86	10483.86
##	V8744	V8745	V8746	V8747	V8748	V8749	V8750	V8751
## OTU	10484.86	10485.86	10486.86	10487.86	10488.86	10489.86	10490.86	10491.86
##	V8752	V8753	V8754	V8755	V8756	V8757	V8758	V8759
## OTU	10492.86	10493.86	10494.86	10495.86	10496.86	10497.86	10498.86	10499.86
##	V8760	V8761	V8762	V8763	V8764	V8765	V8766	V8767
## OTU	10500.86	10501.86	10502.86	10503.86	10504.86	10505.86	10506.86	10507.86
##	V8768	V8769	V8770	V8771	V8772	V8773	V8774	V8775
## OTU	10508.86	10509.86	10510.86	10511.86	10512.86	10513.86	10514.86	10515.86
##	V8776	V8777	V8778	V8779	V8780	V8781	V8782	V8783
## OTU	10516.86	10517.86	10518.86	10519.86	10520.86	10521.86	10522.86	10523.86
##	V8784	V8785	V8786	V8787	V8788	V8789	V8790	V8791
## OTU	10524.86	10525.86	10526.86	10527.86	10528.86	10529.86	10530.86	10531.86
##	V8792	V8793	V8794	V8795	V8796	V8797	V8798	V8799
## OTU	10532.86	10533.86	10534.86	10535.86	10536.86	10537.86	10538.86	10539.86
##	V8800	V8801	V8802	V8803	V8804	V8805	V8806	V8807
## OTU	10540.86	10541.86	10542.86	10543.86	10544.86	10545.86	10546.86	10547.86
##	V8808	V8809	V8810	V8811	V8812	V8813	V8814	V8815
## OTU	10548.86	10549.86	10550.86	10551.86	10552.86	10553.86	10554.86	10555.86
##	V8816	V8817	V8818	V8819	V8820	V8821	V8822	V8823
## OTU	10556.86	10557.86	10558.86	10559.86	10560.86	10561.86	10562.86	10563.86
##	V8824	V8825	V8826	V8827	V8828	V8829	V8830	V8831
## OTU	10564.86	10565.86	10566.86	10567.86	10568.86	10569.86	10570.86	10571.86
##	V8832	V8833	V8834	V8835	V8836	V8837	V8838	V8839
## OTU	10572.86	10573.86	10574.86	10575.86	10576.86	10577.86	10578.86	10579.86
##	V8840	V8841	V8842	V8843	V8844	V8845	V8846	V8847
## OTU	10580.86	10581.86	10582.86	10583.86	10584.86	10585.86	10586.86	10587.86
##	V8848	V8849	V8850	V8851	V8852	V8853	V8854	V8855
## OTU	10588.86	10589.86	10590.86	10591.86	10592.86	10593.86	10594.86	10595.86
##	V8856	V8857	V8858	V8859	V8860	V8861	V8862	V8863
## OTU	10596.86	10597.86	10598.86	10599.86	10600.86	10601.86	10602.86	10603.86
##	V8864	V8865	V8866	V8867	V8868	V8869	V8870	V8871
## OTU	10604.86	10605.86	10606.86	10607.86	10608.86	10609.86	10610.86	10611.86
##	V8872	V8873	V8874	V8875	V8876	V8877	V8878	V8879
## OTU	10612.86	10613.86	10614.86	10615.86	10616.86	10617.86	10618.86	10619.86
##	V8880	V8881	V8882	V8883	V8884	V8885	V8886	V8887
## OTU	10620.86	10621.86	10622.86	10623.86	10624.86	10625.86	10626.86	10627.86
##	V8888	V8889	V8890	V8891	V8892	V8893	V8894	V8895
## OTU	10628.86	10629.86	10630.86	10631.86	10632.86	10633.86	10634.86	10635.86
##	V8896	V8897	V8898	V8899	V8900	V8901	V8902	V8903
## OTU	10636.86	10637.86	10638.86	10639.86	10640.86	10641.86	10642.86	10643.86

##	V8904	V8905	V8906	V8907	V8908	V8909	V8910	V8911
## OTU	10644.86	10645.86	10646.86	10647.86	10648.86	10649.86	10650.86	10651.86
##	V8912	V8913	V8914	V8915	V8916	V8917	V8918	V8919
## OTU	10652.86	10653.86	10654.86	10655.86	10656.86	10657.86	10658.86	10659.86
##	V8920	V8921	V8922	V8923	V8924	V8925	V8926	V8927
## OTU	10660.86	10661.86	10662.86	10663.86	10664.86	10665.86	10666.86	10667.86
##	V8928	V8929	V8930	V8931	V8932	V8933	V8934	V8935
## OTU	10668.86	10669.86	10670.86	10671.86	10672.86	10673.86	10674.86	10675.86
##	V8936	V8937	V8938	V8939	V8940	V8941	V8942	V8943
## OTU	10676.86	10677.86	10678.86	10679.86	10680.86	10681.86	10682.86	10683.86
##	V8944	V8945	V8946	V8947	V8948	V8949	V8950	V8951
## OTU	10684.86	10685.86	10686.86	10687.86	10688.86	10689.86	10690.86	10691.86
##	V8952	V8953	V8954	V8955	V8956	V8957	V8958	V8959
## OTU	10692.86	10693.86	10694.86	10695.86	10696.86	10697.86	10698.86	10699.86
##	V8960	V8961	V8962	V8963	V8964	V8965	V8966	V8967
## OTU	10700.86	10701.86	10702.86	10703.86	10704.86	10705.86	10706.86	10707.86
##	V8968	V8969	V8970	V8971	V8972	V8973	V8974	V8975
## OTU	10708.86	10709.86	10710.86	10711.86	10712.86	10713.86	10714.86	10715.86
##	V8976	V8977	V8978	V8979	V8980	V8981	V8982	V8983
## OTU	10716.86	10717.86	10718.86	10719.86	10720.86	10721.86	10722.86	10723.86
##	V8984	V8985	V8986	V8987	V8988	V8989	V8990	V8991
## OTU	10724.86	10725.86	10726.86	10727.86	10728.86	10729.86	10730.86	10731.86
##	V8992	V8993	V8994	V8995	V8996	V8997	V8998	V8999
## OTU	10732.86	10733.86	10734.86	10735.86	10736.86	10737.86	10738.86	10739.86
##	V9000	V9001	V9002	V9003	V9004	V9005	V9006	V9007
## OTU	10740.86	10741.86	10742.86	10743.86	10744.86	10745.86	10746.86	10747.86
##	V9008	V9009	V9010	V9011	V9012	V9013	V9014	V9015
## OTU	10748.86	10749.86	10750.86	10751.86	10752.86	10753.86	10754.86	10755.86
##	V9016	V9017	V9018	V9019	V9020	V9021	V9022	V9023
## OTU	10756.86	10757.86	10758.86	10759.86	10760.86	10761.86	10762.86	10763.86
##	V9024	V9025	V9026	V9027	V9028	V9029	V9030	V9031
## OTU	10764.86	10765.86	10766.86	10767.86	10768.86	10769.86	10770.86	10771.86
##	V9032	V9033	V9034	V9035	V9036	V9037	V9038	V9039
## OTU	10772.86	10773.86	10774.86	10775.86	10776.86	10777.86	10778.86	10779.86
##	V9040	V9041	V9042	V9043	V9044	V9045	V9046	V9047
## OTU	10780.86	10781.86	10782.86	10783.86	10784.86	10785.86	10786.86	10787.86
##	V9048	V9049	V9050	V9051	V9052	V9053	V9054	V9055
## OTU	10788.86	10789.86	10790.86	10791.86	10792.86	10793.86	10794.86	10795.86
##	V9056	V9057	V9058	V9059	V9060	V9061	V9062	V9063
## OTU	10796.86	10797.86	10798.86	10799.86	10800.86	10801.86	10802.86	10803.86
##	V9064	V9065	V9066	V9067	V9068	V9069	V9070	V9071
## OTU	10804.86	10805.86	10806.86	10807.86	10808.86	10809.86	10810.86	10811.86
##	V9072	V9073	V9074	V9075	V9076	V9077	V9078	V9079
## OTU	10812.86	10813.86	10814.86	10815.86	10816.86	10817.86	10818.86	10819.86
##	V9080	V9081	V9082	V9083	V9084	V9085	V9086	V9087
## OTU	10820.86	10821.86	10822.86	10823.86	10824.86	10825.86	10826.86	10827.86
##	V9088	V9089	V9090	V9091	V9092	V9093	V9094	V9095
## OTU	10828.86	10829.86	10830.86	10831.86	10832.86	10833.86	10834.86	10835.86
##	V9096	V9097	V9098	V9099	V9100	V9101	V9102	V9103
## OTU	10836.86	10837.86	10838.86	10839.86	10840.86	10841.86	10842.86	10843.86
##	V9104	V9105	V9106	V9107	V9108	V9109	V9110	V9111
## OTU	10844.86	10845.86	10846.86	10847.86	10848.86	10849.86	10850.86	10851.86
##	V9112	V9113	V9114	V9115	V9116	V9117	V9118	V9119
## OTU	10852.86	10853.86	10854.86	10855.86	10856.86	10857.86	10858.86	10859.86

	V9120	V9121	V9122	V9123	V9124	V9125	V9126	V9127	
##	OTU	10860.86	10861.86	10862.86	10863.86	10864.86	10865.86	10866.86	10867.86
##	V9128	V9129	V9130	V9131	V9132	V9133	V9134	V9135	
##	OTU	10868.86	10869.86	10870.86	10871.86	10872.86	10873.86	10874.86	10875.86
##	V9136	V9137	V9138	V9139	V9140	V9141	V9142	V9143	
##	OTU	10876.86	10877.86	10878.86	10879.86	10880.86	10881.86	10882.86	10883.86
##	V9144	V9145	V9146	V9147	V9148	V9149	V9150	V9151	
##	OTU	10884.86	10885.86	10886.86	10887.86	10888.86	10889.86	10890.86	10891.86
##	V9152	V9153	V9154	V9155	V9156	V9157	V9158	V9159	
##	OTU	10892.86	10893.86	10894.86	10895.86	10896.86	10897.86	10898.86	10899.86
##	V9160	V9161	V9162	V9163	V9164	V9165	V9166	V9167	
##	OTU	10900.86	10901.86	10902.86	10903.86	10904.86	10905.86	10906.86	10907.86
##	V9168	V9169	V9170	V9171	V9172	V9173	V9174	V9175	
##	OTU	10908.86	10909.86	10910.86	10911.86	10912.86	10913.86	10914.86	10915.86
##	V9176	V9177	V9178	V9179	V9180	V9181	V9182	V9183	
##	OTU	10916.86	10917.86	10918.86	10919.86	10920.86	10921.86	10922.86	10923.86
##	V9184	V9185	V9186	V9187	V9188	V9189	V9190	V9191	
##	OTU	10924.86	10925.86	10926.86	10927.86	10928.86	10929.86	10930.86	10931.86
##	V9192	V9193	V9194	V9195	V9196	V9197	V9198	V9199	
##	OTU	10932.86	10933.86	10934.86	10935.86	10936.86	10937.86	10938.86	10939.86
##	V9200	V9201	V9202	V9203	V9204	V9205	V9206	V9207	
##	OTU	10940.86	10941.86	10942.86	10943.86	10944.86	10945.86	10946.86	10947.86
##	V9208	V9209	V9210	V9211	V9212	V9213	V9214	V9215	
##	OTU	10948.86	10949.86	10950.86	10951.86	10952.86	10953.86	10954.86	10955.86
##	V9216	V9217	V9218	V9219	V9220	V9221	V9222	V9223	
##	OTU	10956.86	10957.86	10958.86	10959.86	10960.86	10961.86	10962.86	10963.86
##	V9224	V9225	V9226	V9227	V9228	V9229	V9230	V9231	
##	OTU	10964.86	10965.86	10966.86	10967.86	10968.86	10969.86	10970.86	10971.86
##	V9232	V9233	V9234	V9235	V9236	V9237	V9238	V9239	
##	OTU	10972.86	10973.86	10974.86	10975.86	10976.86	10977.86	10978.86	10979.86
##	V9240	V9241	V9242	V9243	V9244	V9245	V9246	V9247	
##	OTU	10980.86	10981.86	10982.86	10983.86	10984.86	10985.86	10986.86	10987.86
##	V9248	V9249	V9250	V9251	V9252	V9253	V9254	V9255	
##	OTU	10988.86	10989.86	10990.86	10991.86	10992.86	10993.86	10994.86	10995.86
##	V9256	V9257	V9258	V9259	V9260	V9261	V9262	V9263	
##	OTU	10996.86	10997.86	10998.86	10999.86	11000.86	11001.86	11002.86	11003.86
##	V9264	V9265	V9266	V9267	V9268	V9269	V9270	V9271	
##	OTU	11004.86	11005.86	11006.86	11007.86	11008.86	11009.86	11010.86	11011.86
##	V9272	V9273	V9274	V9275	V9276	V9277	V9278	V9279	
##	OTU	11012.86	11013.86	11014.86	11015.86	11016.86	11017.86	11018.86	11019.86
##	V9280	V9281	V9282	V9283	V9284	V9285	V9286	V9287	
##	OTU	11020.86	11021.86	11022.86	11023.86	11024.86	11025.86	11026.86	11027.86
##	V9288	V9289	V9290	V9291	V9292	V9293	V9294	V9295	
##	OTU	11028.86	11029.86	11030.86	11031.86	11032.86	11033.86	11034.86	11035.86
##	V9296	V9297	V9298	V9299	V9300	V9301	V9302	V9303	
##	OTU	11036.86	11037.86	11038.86	11039.86	11040.86	11041.86	11042.86	11043.86
##	V9304	V9305	V9306	V9307	V9308	V9309	V9310	V9311	
##	OTU	11044.86	11045.86	11046.86	11047.86	11048.86	11049.86	11050.86	11051.86
##	V9312	V9313	V9314	V9315	V9316	V9317	V9318	V9319	
##	OTU	11052.86	11053.86	11054.86	11055.86	11056.86	11057.86	11058.86	11059.86
##	V9320	V9321	V9322	V9323	V9324	V9325	V9326	V9327	
##	OTU	11060.86	11061.86	11062.86	11063.86	11064.86	11065.86	11066.86	11067.86
##	V9328	V9329	V9330	V9331	V9332	V9333	V9334	V9335	
##	OTU	11068.86	11069.86	11070.86	11071.86	11072.86	11073.86	11074.86	11075.86

##	V9336	V9337	V9338	V9339	V9340	V9341	V9342	V9343
## OTU	11076.86	11077.86	11078.86	11079.86	11080.86	11081.86	11082.86	11083.86
##	V9344	V9345	V9346	V9347	V9348	V9349	V9350	V9351
## OTU	11084.86	11085.86	11086.86	11087.86	11088.86	11089.86	11090.86	11091.86
##	V9352	V9353	V9354	V9355	V9356	V9357	V9358	V9359
## OTU	11092.86	11093.86	11094.86	11095.86	11096.86	11097.86	11098.86	11099.86
##	V9360	V9361	V9362	V9363	V9364	V9365	V9366	V9367
## OTU	11100.86	11101.86	11102.86	11103.86	11104.86	11105.86	11106.86	11107.86
##	V9368	V9369	V9370	V9371	V9372	V9373	V9374	V9375
## OTU	11108.86	11109.86	11110.86	11111.86	11112.86	11113.86	11114.86	11115.86
##	V9376	V9377	V9378	V9379	V9380	V9381	V9382	V9383
## OTU	11116.86	11117.86	11118.86	11119.86	11120.86	11121.86	11122.86	11123.86
##	V9384	V9385	V9386	V9387	V9388	V9389	V9390	V9391
## OTU	11124.86	11125.86	11126.86	11127.86	11128.86	11129.86	11130.86	11131.86
##	V9392	V9393	V9394	V9395	V9396	V9397	V9398	V9399
## OTU	11132.86	11133.86	11134.86	11135.86	11136.86	11137.86	11138.86	11139.86
##	V9400	V9401	V9402	V9403	V9404	V9405	V9406	V9407
## OTU	11140.86	11141.86	11142.86	11143.86	11144.86	11145.86	11146.86	11147.86
##	V9408	V9409	V9410	V9411	V9412	V9413	V9414	V9415
## OTU	11148.86	11149.86	11150.86	11151.86	11152.86	11153.86	11154.86	11155.86
##	V9416	V9417	V9418	V9419	V9420	V9421	V9422	V9423
## OTU	11156.86	11157.86	11158.86	11159.86	11160.86	11161.86	11162.86	11163.86
##	V9424	V9425	V9426	V9427	V9428	V9429	V9430	V9431
## OTU	11164.86	11165.86	11166.86	11167.86	11168.86	11169.86	11170.86	11171.86
##	V9432	V9433	V9434	V9435	V9436	V9437	V9438	V9439
## OTU	11172.86	11173.86	11174.86	11175.86	11176.86	11177.86	11178.86	11179.86
##	V9440	V9441	V9442	V9443	V9444	V9445	V9446	V9447
## OTU	11180.86	11181.86	11182.86	11183.86	11184.86	11185.86	11186.86	11187.86
##	V9448	V9449	V9450	V9451	V9452	V9453	V9454	V9455
## OTU	11188.86	11189.86	11190.86	11191.86	11192.86	11193.86	11194.86	11195.86
##	V9456	V9457	V9458	V9459	V9460	V9461	V9462	V9463
## OTU	11196.86	11197.86	11198.86	11199.86	11200.86	11201.86	11202.86	11203.86
##	V9464	V9465	V9466	V9467	V9468	V9469	V9470	V9471
## OTU	11204.86	11205.86	11206.86	11207.86	11208.86	11209.86	11210.86	11211.86
##	V9472	V9473	V9474	V9475	V9476	V9477	V9478	V9479
## OTU	11212.86	11213.86	11214.86	11215.86	11216.86	11217.86	11218.86	11219.86
##	V9480	V9481	V9482	V9483	V9484	V9485	V9486	V9487
## OTU	11220.86	11221.86	11222.86	11223.86	11224.86	11225.86	11226.86	11227.86
##	V9488	V9489	V9490	V9491	V9492	V9493	V9494	V9495
## OTU	11228.86	11229.86	11230.86	11231.86	11232.86	11233.86	11234.86	11235.86
##	V9496	V9497	V9498	V9499	V9500	V9501	V9502	V9503
## OTU	11236.86	11237.86	11238.86	11239.86	11240.86	11241.86	11242.86	11243.86
##	V9504	V9505	V9506	V9507	V9508	V9509	V9510	V9511
## OTU	11244.86	11245.86	11246.86	11247.86	11248.86	11249.86	11250.86	11251.86
##	V9512	V9513	V9514	V9515	V9516	V9517	V9518	V9519
## OTU	11252.86	11253.86	11254.86	11255.86	11256.86	11257.86	11258.86	11259.86
##	V9520	V9521	V9522	V9523	V9524	V9525	V9526	V9527
## OTU	11260.86	11261.86	11262.86	11263.86	11264.86	11265.86	11266.86	11267.86
##	V9528	V9529	V9530	V9531	V9532	V9533	V9534	V9535
## OTU	11268.86	11269.86	11270.86	11271.86	11272.86	11273.86	11274.86	11275.86
##	V9536	V9537	V9538	V9539	V9540	V9541	V9542	V9543
## OTU	11276.86	11277.86	11278.86	11279.86	11280.86	11281.86	11282.86	11283.86
##	V9544	V9545	V9546	V9547	V9548	V9549	V9550	V9551
## OTU	11284.86	11285.86	11286.86	11287.86	11288.86	11289.86	11290.86	11291.86

```

##      V9552      V9553      V9554      V9555      V9556      V9557      V9558      V9559
## OTU 11292.86 11293.86 11294.86 11295.86 11296.86 11297.86 11298.86 11299.86
##      V9560      V9561      V9562      V9563      V9564      V9565      V9566      V9567
## OTU 11300.86 11301.86 11302.86 11303.86 11304.86 11305.86 11306.86 11307.86
##      V9568      V9569      V9570      V9571      V9572      V9573      V9574      V9575
## OTU 11308.86 11309.86 11310.86 11311.86 11312.86 11313.86 11314.86 11315.86
##      V9576      V9577      V9578      V9579      V9580      V9581      V9582      V9583
## OTU 11316.86 11317.86 11318.86 11319.86 11320.86 11321.86 11322.86 11323.86
##      V9584      V9585      V9586      V9587      V9588      V9589      V9590      V9591
## OTU 11324.86 11325.86 11326.86 11327.86 11328.86 11329.86 11330.86 11331.86
##      V9592      V9593      V9594      V9595      V9596      V9597      V9598      V9599
## OTU 11332.86 11333.86 11334.86 11335.86 11336.86 11337.86 11338.86 11339.86
##      V9600      V9601      V9602      V9603      V9604      V9605      V9606      V9607
## OTU 11340.86 11341.86 11342.86 11343.86 11344.86 11345.86 11346.86 11347.86
##      V9608      V9609      V9610      V9611      V9612      V9613      V9614      V9615
## OTU 11348.86 11349.86 11350.86 11351.86 11352.86 11353.86 11354.86 11355.86
##      V9616      V9617      V9618      V9619      V9620      V9621      V9622      V9623
## OTU 11356.86 11357.86 11358.86 11359.86 11360.86 11361.86 11362.86 11363.86
##      V9624      V9625      V9626      V9627      V9628      V9629      V9630      V9631
## OTU 11364.86 11365.86 11366.86 11367.86 11368.86 11369.86 11370.86 11371.86
##      V9632      V9633      V9634      V9635      V9636      V9637      V9638      V9639
## OTU 11372.86 11373.86 11374.86 11375.86 11376.86 11377.86 11378.86 11379.86
##      V9640      V9641      V9642      V9643      V9644      V9645      V9646      V9647
## OTU 11380.86 11381.86 11382.86 11383.86 11384.86 11385.86 11386.86 11387.86
##      V9648      V9649      V9650      V9651      V9652      V9653      V9654      V9655
## OTU 11388.86 11389.86 11390.86 11391.86 11392.86 11393.86 11394.86 11395.86
##      V9656      V9657      V9658      V9659      V9660      V9661      V9662      V9663
## OTU 11396.86 11397.86 11398.86 11399.86 11400.86 11401.86 11402.86 11403.86
##      V9664      V9665      V9666      V9667      V9668      V9669      V9670      V9671
## OTU 11404.86 11405.86 11406.86 11407.86 11408.86 11409.86 11410.86 11411.86
##      V9672      V9673      V9674      V9675      V9676      V9677      V9678      V9679
## OTU 11412.86 11413.86 11414.86 11415.86 11416.86 11417.86 11418.86 11419.86
##      V9680      V9681      V9682      V9683      V9684      V9685      V9686      V9687
## OTU 11420.86 11421.86 11422.86 11423.86 11424.86 11425.86 11426.86 11427.86
##      V9688      V9689      V9690      V9691      V9692      V9693      V9694      V9695
## OTU 11428.86 11429.86 11430.86 11431.86 11432.86 11433.86 11434.86 11435.86
##      V9696      V9697      V9698      V9699      V9700      V9701      V9702      V9703
## OTU 11436.86 11437.86 11438.86 11439.86 11440.86 11441.86 11442.86 11443.86
##      V9704      V9705      V9706      V9707      V9708      V9709      V9710      V9711
## OTU 11444.86 11445.86 11446.86 11447.86 11448.86 11449.86 11450.86 11451.86
##      V9712      V9713      V9714      V9715      V9716      V9717      V9718      V9719
## OTU 11452.86 11453.86 11454.86 11455.86 11456.86 11457.86 11458.86 11459.86
##      V9720      V9721      V9722      V9723      V9724      V9725      V9726      V9727
## OTU 11460.86 11461.86 11462.86 11463.86 11464.86 11465.86 11466.86 11467.86
##      V9728      V9729      V9730      V9731      V9732      V9733      V9734      V9735
## OTU 11468.86 11469.86 11470.86 11471.86 11472.86 11473.86 11474.86 11475.86
##      V9736      V9737      V9738      V9739      V9740      V9741      V9742      V9743
## OTU 11476.86 11477.86 11478.86 11479.86 11480.86 11481.86 11482.86 11483.86
##      V9744      V9745      V9746      V9747      V9748      V9749      V9750      V9751
## OTU 11484.86 11485.86 11486.86 11487.86 11488.86 11489.86 11490.86 11491.86
##      V9752      V9753      V9754      V9755      V9756      V9757      V9758      V9759
## OTU 11492.86 11493.86 11494.86 11495.86 11496.86 11497.86 11498.86 11499.86
##      V9760      V9761      V9762      V9763      V9764      V9765      V9766      V9767
## OTU 11500.86 11501.86 11502.86 11503.86 11504.86 11505.86 11506.86 11507.86

```

##	V9768	V9769	V9770	V9771	V9772	V9773	V9774	V9775
## OTU	11508.86	11509.86	11510.86	11511.86	11512.86	11513.86	11514.86	11515.86
##	V9776	V9777	V9778	V9779	V9780	V9781	V9782	V9783
## OTU	11516.86	11517.86	11518.86	11519.86	11520.86	11521.86	11522.86	11523.86
##	V9784	V9785	V9786	V9787	V9788	V9789	V9790	V9791
## OTU	11524.86	11525.86	11526.86	11527.86	11528.86	11529.86	11530.86	11531.86
##	V9792	V9793	V9794	V9795	V9796	V9797	V9798	V9799
## OTU	11532.86	11533.86	11534.86	11535.86	11536.86	11537.86	11538.86	11539.86
##	V9800	V9801	V9802	V9803	V9804	V9805	V9806	V9807
## OTU	11540.86	11541.86	11542.86	11543.86	11544.86	11545.86	11546.86	11547.86
##	V9808	V9809	V9810	V9811	V9812	V9813	V9814	V9815
## OTU	11548.86	11549.86	11550.86	11551.86	11552.86	11553.86	11554.86	11555.86
##	V9816	V9817	V9818	V9819	V9820	V9821	V9822	V9823
## OTU	11556.86	11557.86	11558.86	11559.86	11560.86	11561.86	11562.86	11563.86
##	V9824	V9825	V9826	V9827	V9828	V9829	V9830	V9831
## OTU	11564.86	11565.86	11566.86	11567.86	11568.86	11569.86	11570.86	11571.86
##	V9832	V9833	V9834	V9835	V9836	V9837	V9838	V9839
## OTU	11572.86	11573.86	11574.86	11575.86	11576.86	11577.86	11578.86	11579.86
##	V9840	V9841	V9842	V9843	V9844	V9845	V9846	V9847
## OTU	11580.86	11581.86	11582.86	11583.86	11584.86	11585.86	11586.86	11587.86
##	V9848	V9849	V9850	V9851	V9852	V9853	V9854	V9855
## OTU	11588.86	11589.86	11590.86	11591.86	11592.86	11593.86	11594.86	11595.86
##	V9856	V9857	V9858	V9859	V9860	V9861	V9862	V9863
## OTU	11596.86	11597.86	11598.86	11599.86	11600.86	11601.86	11602.86	11603.86
##	V9864	V9865	V9866	V9867	V9868	V9869	V9870	V9871
## OTU	11604.86	11605.86	11606.86	11607.86	11608.86	11609.86	11610.86	11611.86
##	V9872	V9873	V9874	V9875	V9876	V9877	V9878	V9879
## OTU	11612.86	11613.86	11614.86	11615.86	11616.86	11617.86	11618.86	11619.86
##	V9880	V9881	V9882	V9883	V9884	V9885	V9886	V9887
## OTU	11620.86	11621.86	11622.86	11623.86	11624.86	11625.86	11626.86	11627.86
##	V9888	V9889	V9890	V9891	V9892	V9893	V9894	V9895
## OTU	11628.86	11629.86	11630.86	11631.86	11632.86	11633.86	11634.86	11635.86
##	V9896	V9897	V9898	V9899	V9900	V9901	V9902	V9903
## OTU	11636.86	11637.86	11638.86	11639.86	11640.86	11641.86	11642.86	11643.86
##	V9904	V9905	V9906	V9907	V9908	V9909	V9910	V9911
## OTU	11644.86	11645.86	11646.86	11647.86	11648.86	11649.86	11650.86	11651.86
##	V9912	V9913	V9914	V9915	V9916	V9917	V9918	V9919
## OTU	11652.86	11653.86	11654.86	11655.86	11656.86	11657.86	11658.86	11659.86
##	V9920	V9921	V9922	V9923	V9924	V9925	V9926	V9927
## OTU	11660.86	11661.86	11662.86	11663.86	11664.86	11665.86	11666.86	11667.86
##	V9928	V9929	V9930	V9931	V9932	V9933	V9934	V9935
## OTU	11668.86	11669.86	11670.86	11671.86	11672.86	11673.86	11674.86	11675.86
##	V9936	V9937	V9938	V9939	V9940	V9941	V9942	V9943
## OTU	11676.86	11677.86	11678.86	11679.86	11680.86	11681.86	11682.86	11683.86
##	V9944	V9945	V9946	V9947	V9948	V9949	V9950	V9951
## OTU	11684.86	11685.86	11686.86	11687.86	11688.86	11689.86	11690.86	11691.86
##	V9952	V9953	V9954	V9955	V9956	V9957	V9958	V9959
## OTU	11692.86	11693.86	11694.86	11695.86	11696.86	11697.86	11698.86	11699.86
##	V9960	V9961	V9962	V9963	V9964	V9965	V9966	V9967
## OTU	11700.86	11701.86	11702.86	11703.86	11704.86	11705.86	11706.86	11707.86
##	V9968	V9969	V9970	V9971	V9972	V9973	V9974	V9975
## OTU	11708.86	11709.86	11710.86	11711.86	11712.86	11713.86	11714.86	11715.86
##	V9976	V9977	V9978	V9979	V9980	V9981	V9982	V9983
## OTU	11716.86	11717.86	11718.86	11719.86	11720.86	11721.86	11722.86	11723.86

	V9984	V9985	V9986	V9987	V9988	V9989	V9990	V9991
##								
## OTU	11724.86	11725.86	11726.86	11727.86	11728.86	11729.86	11730.86	11731.86
##	V9992	V9993	V9994	V9995	V9996	V9997	V9998	V9999
## OTU	11732.86	11733.86	11734.86	11735.86	11736.86	11737.86	11738.86	11739.86
##	V10000	V10001	V10002	V10003	V10004	V10005	V10006	V10007
## OTU	11740.86	11741.86	11742.86	11743.86	11744.86	11745.86	11746.86	11747.86
##	V10008	V10009	V10010	V10011	V10012	V10013	V10014	V10015
## OTU	11748.86	11749.86	11750.86	11751.86	11752.86	11753.86	11754.86	11755.86
##	V10016	V10017	V10018	V10019	V10020	V10021	V10022	V10023
## OTU	11756.86	11757.86	11758.86	11759.86	11760.86	11761.86	11762.86	11763.86
##	V10024	V10025	V10026	V10027	V10028	V10029	V10030	V10031
## OTU	11764.86	11765.86	11766.86	11767.86	11768.86	11769.86	11770.86	11771.86
##	V10032	V10033	V10034	V10035	V10036	V10037	V10038	V10039
## OTU	11772.86	11773.86	11774.86	11775.86	11776.86	11777.86	11778.86	11779.86
##	V10040	V10041	V10042	V10043	V10044	V10045	V10046	V10047
## OTU	11780.86	11781.86	11782.86	11783.86	11784.86	11785.86	11786.86	11787.86
##	V10048	V10049	V10050	V10051	V10052	V10053	V10054	V10055
## OTU	11788.86	11789.86	11790.86	11791.86	11792.86	11793.86	11794.86	11795.86
##	V10056	V10057	V10058	V10059	V10060	V10061	V10062	V10063
## OTU	11796.86	11797.86	11798.86	11799.86	11800.86	11801.86	11802.86	11803.86
##	V10064	V10065	V10066	V10067	V10068	V10069	V10070	V10071
## OTU	11804.86	11805.86	11806.86	11807.86	11808.86	11809.86	11810.86	11811.86
##	V10072	V10073	V10074	V10075	V10076	V10077	V10078	V10079
## OTU	11812.86	11813.86	11814.86	11815.86	11816.86	11817.86	11818.86	11819.86
##	V10080	V10081	V10082	V10083	V10084	V10085	V10086	V10087
## OTU	11820.86	11821.86	11822.86	11823.86	11824.86	11825.86	11826.86	11827.86
##	V10088	V10089	V10090	V10091	V10092	V10093	V10094	V10095
## OTU	11828.86	11829.86	11830.86	11831.86	11832.86	11833.86	11834.86	11835.86
##	V10096	V10097	V10098	V10099	V10100	V10101	V10102	V10103
## OTU	11836.86	11837.86	11838.86	11839.86	11840.86	11841.86	11842.86	11843.86
##	V10104	V10105	V10106	V10107	V10108	V10109	V10110	V10111
## OTU	11844.86	11845.86	11846.86	11847.86	11848.86	11849.86	11850.86	11851.86
##	V10112	V10113	V10114	V10115	V10116	V10117	V10118	V10119
## OTU	11852.86	11853.86	11854.86	11855.86	11856.86	11857.86	11858.86	11859.86
##	V10120	V10121	V10122	V10123	V10124	V10125	V10126	V10127
## OTU	11860.86	11861.86	11862.86	11863.86	11864.86	11865.86	11866.86	11867.86
##	V10128	V10129	V10130	V10131	V10132	V10133	V10134	V10135
## OTU	11868.86	11869.86	11870.86	11871.86	11872.86	11873.86	11874.86	11875.86
##	V10136	V10137	V10138	V10139	V10140	V10141	V10142	V10143
## OTU	11876.86	11877.86	11878.86	11879.86	11880.86	11881.86	11882.86	11883.86
##	V10144	V10145	V10146	V10147	V10148	V10149	V10150	V10151
## OTU	11884.86	11885.86	11886.86	11887.86	11888.86	11889.86	11890.86	11891.86
##	V10152	V10153	V10154	V10155	V10156	V10157	V10158	V10159
## OTU	11892.86	11893.86	11894.86	11895.86	11896.86	11897.86	11898.86	11899.86
##	V10160	V10161	V10162	V10163	V10164	V10165	V10166	V10167
## OTU	11900.86	11901.86	11902.86	11903.86	11904.86	11905.86	11906.86	11907.86
##	V10168	V10169	V10170	V10171	V10172	V10173	V10174	V10175
## OTU	11908.86	11909.86	11910.86	11911.86	11912.86	11913.86	11914.86	11915.86
##	V10176	V10177	V10178	V10179	V10180	V10181	V10182	V10183
## OTU	11916.86	11917.86	11918.86	11919.86	11920.86	11921.86	11922.86	11923.86
##	V10184	V10185	V10186	V10187	V10188	V10189	V10190	V10191
## OTU	11924.86	11925.86	11926.86	11927.86	11928.86	11929.86	11930.86	11931.86
##	V10192	V10193	V10194	V10195	V10196	V10197	V10198	V10199
## OTU	11932.86	11933.86	11934.86	11935.86	11936.86	11937.86	11938.86	11939.86

##	V10200	V10201	V10202	V10203	V10204	V10205	V10206	V10207
## OTU	11940.86	11941.86	11942.86	11943.86	11944.86	11945.86	11946.86	11947.86
##	V10208	V10209	V10210	V10211	V10212	V10213	V10214	V10215
## OTU	11948.86	11949.86	11950.86	11951.86	11952.86	11953.86	11954.86	11955.86
##	V10216	V10217	V10218	V10219	V10220	V10221	V10222	V10223
## OTU	11956.86	11957.86	11958.86	11959.86	11960.86	11961.86	11962.86	11963.86
##	V10224	V10225	V10226	V10227	V10228	V10229	V10230	V10231
## OTU	11964.86	11965.86	11966.86	11967.86	11968.86	11969.86	11970.86	11971.86
##	V10232	V10233	V10234	V10235	V10236	V10237	V10238	V10239
## OTU	11972.86	11973.86	11974.86	11975.86	11976.86	11977.86	11978.86	11979.86
##	V10240	V10241	V10242	V10243	V10244	V10245	V10246	V10247
## OTU	11980.86	11981.86	11982.86	11983.86	11984.86	11985.86	11986.86	11987.86
##	V10248	V10249	V10250	V10251	V10252	V10253	V10254	V10255
## OTU	11988.86	11989.86	11990.86	11991.86	11992.86	11993.86	11994.86	11995.86
##	V10256	V10257	V10258	V10259	V10260	V10261	V10262	V10263
## OTU	11996.86	11997.86	11998.86	11999.86	12000.86	12001.86	12002.86	12003.86
##	V10264	V10265	V10266	V10267	V10268	V10269	V10270	V10271
## OTU	12004.86	12005.86	12006.86	12007.86	12008.86	12009.86	12010.86	12011.86
##	V10272	V10273	V10274	V10275	V10276	V10277	V10278	V10279
## OTU	12012.86	12013.86	12014.86	12015.86	12016.86	12017.86	12018.86	12019.86
##	V10280	V10281	V10282	V10283	V10284	V10285	V10286	V10287
## OTU	12020.86	12021.86	12022.86	12023.86	12024.86	12025.86	12026.86	12027.86
##	V10288	V10289	V10290	V10291	V10292	V10293	V10294	V10295
## OTU	12028.86	12029.86	12030.86	12031.86	12032.86	12033.86	12034.86	12035.86
##	V10296	V10297	V10298	V10299	V10300	V10301	V10302	V10303
## OTU	12036.86	12037.86	12038.86	12039.86	12040.86	12041.86	12042.86	12043.86
##	V10304	V10305	V10306	V10307	V10308	V10309	V10310	V10311
## OTU	12044.86	12045.86	12046.86	12047.86	12048.86	12049.86	12050.86	12051.86
##	V10312	V10313	V10314	V10315	V10316	V10317	V10318	V10319
## OTU	12052.86	12053.86	12054.86	12055.86	12056.86	12057.86	12058.86	12059.86
##	V10320	V10321	V10322	V10323	V10324	V10325	V10326	V10327
## OTU	12060.86	12061.86	12062.86	12063.86	12064.86	12065.86	12066.86	12067.86
##	V10328	V10329	V10330	V10331	V10332	V10333	V10334	V10335
## OTU	12068.86	12069.86	12070.86	12071.86	12072.86	12073.86	12074.86	12075.86
##	V10336	V10337	V10338	V10339	V10340	V10341	V10342	V10343
## OTU	12076.86	12077.86	12078.86	12079.86	12080.86	12081.86	12082.86	12083.86
##	V10344	V10345	V10346	V10347	V10348	V10349	V10350	V10351
## OTU	12084.86	12085.86	12086.86	12087.86	12088.86	12089.86	12090.86	12091.86
##	V10352	V10353	V10354	V10355	V10356	V10357	V10358	V10359
## OTU	12092.86	12093.86	12094.86	12095.86	12096.86	12097.86	12098.86	12099.86
##	V10360	V10361	V10362	V10363	V10364	V10365	V10366	V10367
## OTU	12100.86	12101.86	12102.86	12103.86	12104.86	12105.86	12106.86	12107.86
##	V10368	V10369	V10370	V10371	V10372	V10373	V10374	V10375
## OTU	12108.86	12109.86	12110.86	12111.86	12112.86	12113.86	12114.86	12115.86
##	V10376	V10377	V10378	V10379	V10380	V10381	V10382	V10383
## OTU	12116.86	12117.86	12118.86	12119.86	12120.86	12121.86	12122.86	12123.86
##	V10384	V10385	V10386	V10387	V10388	V10389	V10390	V10391
## OTU	12124.86	12125.86	12126.86	12127.86	12128.86	12129.86	12130.86	12131.86
##	V10392	V10393	V10394	V10395	V10396	V10397	V10398	V10399
## OTU	12132.86	12133.86	12134.86	12135.86	12136.86	12137.86	12138.86	12139.86
##	V10400	V10401	V10402	V10403	V10404	V10405	V10406	V10407
## OTU	12140.86	12141.86	12142.86	12143.86	12144.86	12145.86	12146.86	12147.86
##	V10408	V10409	V10410	V10411	V10412	V10413	V10414	V10415
## OTU	12148.86	12149.86	12150.86	12151.86	12152.86	12153.86	12154.86	12155.86

##	V10416	V10417	V10418	V10419	V10420	V10421	V10422	V10423
## OTU	12156.86	12157.86	12158.86	12159.86	12160.86	12161.86	12162.86	12163.86
##	V10424	V10425	V10426	V10427	V10428	V10429	V10430	V10431
## OTU	12164.86	12165.86	12166.86	12167.86	12168.86	12169.86	12170.86	12171.86
##	V10432	V10433	V10434	V10435	V10436	V10437	V10438	V10439
## OTU	12172.86	12173.86	12174.86	12175.86	12176.86	12177.86	12178.86	12179.86
##	V10440	V10441	V10442	V10443	V10444	V10445	V10446	V10447
## OTU	12180.86	12181.86	12182.86	12183.86	12184.86	12185.86	12186.86	12187.86
##	V10448	V10449	V10450	V10451	V10452	V10453	V10454	V10455
## OTU	12188.86	12189.86	12190.86	12191.86	12192.86	12193.86	12194.86	12195.86
##	V10456	V10457	V10458	V10459	V10460	V10461	V10462	V10463
## OTU	12196.86	12197.86	12198.86	12199.86	12200.86	12201.86	12202.86	12203.86
##	V10464	V10465	V10466	V10467	V10468	V10469	V10470	V10471
## OTU	12204.86	12205.86	12206.86	12207.86	12208.86	12209.86	12210.86	12211.86
##	V10472	V10473	V10474	V10475	V10476	V10477	V10478	V10479
## OTU	12212.86	12213.86	12214.86	12215.86	12216.86	12217.86	12218.86	12219.86
##	V10480	V10481	V10482	V10483	V10484	V10485	V10486	V10487
## OTU	12220.86	12221.86	12222.86	12223.86	12224.86	12225.86	12226.86	12227.86
##	V10488	V10489	V10490	V10491	V10492	V10493	V10494	V10495
## OTU	12228.86	12229.86	12230.86	12231.86	12232.86	12233.86	12234.86	12235.86
##	V10496	V10497	V10498	V10499	V10500	V10501	V10502	V10503
## OTU	12236.86	12237.86	12238.86	12239.86	12240.86	12241.86	12242.86	12243.86
##	V10504	V10505	V10506	V10507	V10508	V10509	V10510	V10511
## OTU	12244.86	12245.86	12246.86	12247.86	12248.86	12249.86	12250.86	12251.86
##	V10512	V10513	V10514	V10515	V10516	V10517	V10518	V10519
## OTU	12252.86	12253.86	12254.86	12255.86	12256.86	12257.86	12258.86	12259.86
##	V10520	V10521	V10522	V10523	V10524	V10525	V10526	V10527
## OTU	12260.86	12261.86	12262.86	12263.86	12264.86	12265.86	12266.86	12267.86
##	V10528	V10529	V10530	V10531	V10532	V10533	V10534	V10535
## OTU	12268.86	12269.86	12270.86	12271.86	12272.86	12273.86	12274.86	12275.86
##	V10536	V10537	V10538	V10539	V10540	V10541	V10542	V10543
## OTU	12276.86	12277.86	12278.86	12279.86	12280.86	12281.86	12282.86	12283.86
##	V10544	V10545	V10546	V10547	V10548	V10549	V10550	V10551
## OTU	12284.86	12285.86	12286.86	12287.86	12288.86	12289.86	12290.86	12291.86
##	V10552	V10553	V10554	V10555	V10556	V10557	V10558	V10559
## OTU	12292.86	12293.86	12294.86	12295.86	12296.86	12297.86	12298.86	12299.86
##	V10560	V10561	V10562	V10563	V10564	V10565	V10566	V10567
## OTU	12300.86	12301.86	12302.86	12303.86	12304.86	12305.86	12306.86	12307.86
##	V10568	V10569	V10570	V10571	V10572	V10573	V10574	V10575
## OTU	12308.86	12309.86	12310.86	12311.86	12312.86	12313.86	12314.86	12315.86
##	V10576	V10577	V10578	V10579	V10580	V10581	V10582	V10583
## OTU	12316.86	12317.86	12318.86	12319.86	12320.86	12321.86	12322.86	12323.86
##	V10584	V10585	V10586	V10587	V10588	V10589	V10590	V10591
## OTU	12324.86	12325.86	12326.86	12327.86	12328.86	12329.86	12330.86	12331.86
##	V10592	V10593	V10594	V10595	V10596	V10597	V10598	V10599
## OTU	12332.86	12333.86	12334.86	12335.86	12336.86	12337.86	12338.86	12339.86
##	V10600	V10601	V10602	V10603	V10604	V10605	V10606	V10607
## OTU	12340.86	12341.86	12342.86	12343.86	12344.86	12345.86	12346.86	12347.86
##	V10608	V10609	V10610	V10611	V10612	V10613	V10614	V10615
## OTU	12348.86	12349.86	12350.86	12351.86	12352.86	12353.86	12354.86	12355.86
##	V10616	V10617	V10618	V10619	V10620	V10621	V10622	V10623
## OTU	12356.86	12357.86	12358.86	12359.86	12360.86	12361.86	12362.86	12363.86
##	V10624	V10625	V10626	V10627	V10628	V10629	V10630	V10631
## OTU	12364.86	12365.86	12366.86	12367.86	12368.86	12369.86	12370.86	12371.86

##	V10632	V10633	V10634	V10635	V10636	V10637	V10638	V10639	
##	OTU	12372.86	12373.86	12374.86	12375.86	12376.86	12377.86	12378.86	12379.86
##	V10640	V10641	V10642	V10643	V10644	V10645	V10646	V10647	
##	OTU	12380.86	12381.86	12382.86	12383.86	12384.86	12385.86	12386.86	12387.86
##	V10648	V10649	V10650	V10651	V10652	V10653	V10654	V10655	
##	OTU	12388.86	12389.86	12390.86	12391.86	12392.86	12393.86	12394.86	12395.86
##	V10656	V10657	V10658	V10659	V10660	V10661	V10662	V10663	
##	OTU	12396.86	12397.86	12398.86	12399.86	12400.86	12401.86	12402.86	12403.86
##	V10664	V10665	V10666	V10667	V10668	V10669	V10670	V10671	
##	OTU	12404.86	12405.86	12406.86	12407.86	12408.86	12409.86	12410.86	12411.86
##	V10672	V10673	V10674	V10675	V10676	V10677	V10678	V10679	
##	OTU	12412.86	12413.86	12414.86	12415.86	12416.86	12417.86	12418.86	12419.86
##	V10680	V10681	V10682	V10683	V10684	V10685	V10686	V10687	
##	OTU	12420.86	12421.86	12422.86	12423.86	12424.86	12425.86	12426.86	12427.86
##	V10688	V10689	V10690	V10691	V10692	V10693	V10694	V10695	
##	OTU	12428.86	12429.86	12430.86	12431.86	12432.86	12433.86	12434.86	12435.86
##	V10696	V10697	V10698	V10699	V10700	V10701	V10702	V10703	
##	OTU	12436.86	12437.86	12438.86	12439.86	12440.86	12441.86	12442.86	12443.86
##	V10704	V10705	V10706	V10707	V10708	V10709	V10710	V10711	
##	OTU	12444.86	12445.86	12446.86	12447.86	12448.86	12449.86	12450.86	12451.86
##	V10712	V10713	V10714	V10715	V10716	V10717	V10718	V10719	
##	OTU	12452.86	12453.86	12454.86	12455.86	12456.86	12457.86	12458.86	12459.86
##	V10720	V10721	V10722	V10723	V10724	V10725	V10726	V10727	
##	OTU	12460.86	12461.86	12462.86	12463.86	12464.86	12465.86	12466.86	12467.86
##	V10728	V10729	V10730	V10731	V10732	V10733	V10734	V10735	
##	OTU	12468.86	12469.86	12470.86	12471.86	12472.86	12473.86	12474.86	12475.86
##	V10736	V10737	V10738	V10739	V10740	V10741	V10742	V10743	
##	OTU	12476.86	12477.86	12478.86	12479.86	12480.86	12481.86	12482.86	12483.86
##	V10744	V10745	V10746	V10747	V10748	V10749	V10750	V10751	
##	OTU	12484.86	12485.86	12486.86	12487.86	12488.86	12489.86	12490.86	12491.86
##	V10752	V10753	V10754	V10755	V10756	V10757	V10758	V10759	
##	OTU	12492.86	12493.86	12494.86	12495.86	12496.86	12497.86	12498.86	12499.86
##	V10760	V10761	V10762	V10763	V10764	V10765	V10766	V10767	
##	OTU	12500.86	12501.86	12502.86	12503.86	12504.86	12505.86	12506.86	12507.86
##	V10768	V10769	V10770	V10771	V10772	V10773	V10774	V10775	
##	OTU	12508.86	12509.86	12510.86	12511.86	12512.86	12513.86	12514.86	12515.86
##	V10776	V10777	V10778	V10779	V10780	V10781	V10782	V10783	
##	OTU	12516.86	12517.86	12518.86	12519.86	12520.86	12521.86	12522.86	12523.86
##	V10784	V10785	V10786	V10787	V10788	V10789	V10790	V10791	
##	OTU	12524.86	12525.86	12526.86	12527.86	12528.86	12529.86	12530.86	12531.86
##	V10792	V10793	V10794	V10795	V10796	V10797	V10798	V10799	
##	OTU	12532.86	12533.86	12534.86	12535.86	12536.86	12537.86	12538.86	12539.86
##	V10800	V10801	V10802	V10803	V10804	V10805	V10806	V10807	
##	OTU	12540.86	12541.86	12542.86	12543.86	12544.86	12545.86	12546.86	12547.86
##	V10808	V10809	V10810	V10811	V10812	V10813	V10814	V10815	
##	OTU	12548.86	12549.86	12550.86	12551.86	12552.86	12553.86	12554.86	12555.86
##	V10816	V10817	V10818	V10819	V10820	V10821	V10822	V10823	
##	OTU	12556.86	12557.86	12558.86	12559.86	12560.86	12561.86	12562.86	12563.86
##	V10824	V10825	V10826	V10827	V10828	V10829	V10830	V10831	
##	OTU	12564.86	12565.86	12566.86	12567.86	12568.86	12569.86	12570.86	12571.86
##	V10832	V10833	V10834	V10835	V10836	V10837	V10838	V10839	
##	OTU	12572.86	12573.86	12574.86	12575.86	12576.86	12577.86	12578.86	12579.86
##	V10840	V10841	V10842	V10843	V10844	V10845	V10846	V10847	
##	OTU	12580.86	12581.86	12582.86	12583.86	12584.86	12585.86	12586.86	12587.86

```

##      V10848   V10849   V10850   V10851   V10852   V10853   V10854   V10855
## OTU 12588.86 12589.86 12590.86 12591.86 12592.86 12593.86 12594.86 12595.86
##      V10856   V10857   V10858   V10859   V10860   V10861   V10862   V10863
## OTU 12596.86 12597.86 12598.86 12599.86 12600.86 12601.86 12602.86 12603.86
##      V10864   V10865   V10866   V10867   V10868   V10869   V10870   V10871
## OTU 12604.86 12605.86 12606.86 12607.86 12608.86 12609.86 12610.86 12611.86
##      V10872   V10873   V10874   V10875   V10876   V10877   V10878   V10879
## OTU 12612.86 12613.86 12614.86 12615.86 12616.86 12617.86 12618.86 12619.86
##      V10880   V10881   V10882   V10883   V10884   V10885   V10886   V10887
## OTU 12620.86 12621.86 12622.86 12623.86 12624.86 12625.86 12626.86 12627.86
##      V10888   V10889   V10890   V10891   V10892   V10893   V10894   V10895
## OTU 12628.86 12629.86 12630.86 12631.86 12632.86 12633.86 12634.86 12635.86
##      V10896   V10897   V10898   V10899   V10900   V10901   V10902   V10903
## OTU 12636.86 12637.86 12638.86 12639.86 12640.86 12641.86 12642.86 12643.86
##      V10904   V10905   V10906   V10907   V10908   V10909   V10910   V10911
## OTU 12644.86 12645.86 12646.86 12647.86 12648.86 12649.86 12650.86 12651.86
##      V10912   V10913   V10914   V10915   V10916   V10917   V10918   V10919
## OTU 12652.86 12653.86 12654.86 12655.86 12656.86 12657.86 12658.86 12659.86
##      V10920   V10921   V10922   V10923   V10924   V10925   V10926   V10927
## OTU 12660.86 12661.86 12662.86 12663.86 12664.86 12665.86 12666.86 12667.86
##      V10928   V10929   V10930   V10931   V10932   V10933   V10934   V10935
## OTU 12668.86 12669.86 12670.86 12671.86 12672.86 12673.86 12674.86 12675.86
##      V10936   V10937   V10938   V10939   V10940   V10941   V10942   V10943
## OTU 12676.86 12677.86 12678.86 12679.86 12680.86 12681.86 12682.86 12683.86
##      V10944   V10945   V10946   V10947   V10948   V10949   V10950   V10951
## OTU 12684.86 12685.86 12686.86 12687.86 12688.86 12689.86 12690.86 12691.86
##      V10952   V10953   V10954   V10955   V10956   V10957   V10958   V10959
## OTU 12692.86 12693.86 12694.86 12695.86 12696.86 12697.86 12698.86 12699.86
##      V10960   V10961   V10962   V10963   V10964   V10965   V10966   V10967
## OTU 12700.86 12701.86 12702.86 12703.86 12704.86 12705.86 12706.86 12707.86
##      V10968   V10969   V10970   V10971   V10972   V10973   V10974   V10975
## OTU 12708.86 12709.86 12710.86 12711.86 12712.86 12713.86 12714.86 12715.86
##      V10976   V10977   V10978   V10979   V10980   V10981   V10982   V10983
## OTU 12716.86 12717.86 12718.86 12719.86 12720.86 12721.86 12722.86 12723.86
##      V10984   V10985   V10986   V10987   V10988   V10989   V10990   V10991
## OTU 12724.86 12725.86 12726.86 12727.86 12728.86 12729.86 12730.86 12731.86
##      V10992   V10993   V10994   V10995   V10996   V10997   V10998   V10999
## OTU 12732.86 12733.86 12734.86 12735.86 12736.86 12737.86 12738.86 12739.86
##      V11000   V11001   V11002   V11003   V11004   V11005   V11006   V11007
## OTU 12740.86 12741.86 12742.86 12743.86 12744.86 12745.86 12746.86 12747.86
##      V11008   V11009   V11010   V11011   V11012   V11013   V11014   V11015
## OTU 12748.86 12749.86 12750.86 12751.86 12752.86 12753.86 12754.86 12755.86
##      V11016   V11017   V11018   V11019   V11020   V11021   V11022   V11023
## OTU 12756.86 12757.86 12758.86 12759.86 12760.86 12761.86 12762.86 12763.86
##      V11024   V11025   V11026   V11027   V11028   V11029   V11030   V11031
## OTU 12764.86 12765.86 12766.86 12767.86 12768.86 12769.86 12770.86 12771.86
##      V11032   V11033   V11034   V11035   V11036   V11037   V11038   V11039
## OTU 12772.86 12773.86 12774.86 12775.86 12776.86 12777.86 12778.86 12779.86
##      V11040   V11041   V11042   V11043   V11044   V11045   V11046   V11047
## OTU 12780.86 12781.86 12782.86 12783.86 12784.86 12785.86 12786.86 12787.86
##      V11048   V11049   V11050   V11051   V11052   V11053   V11054   V11055
## OTU 12788.86 12789.86 12790.86 12791.86 12792.86 12793.86 12794.86 12795.86
##      V11056   V11057   V11058   V11059   V11060   V11061   V11062   V11063
## OTU 12796.86 12797.86 12798.86 12799.86 12800.86 12801.86 12802.86 12803.86

```

##	V11064	V11065	V11066	V11067	V11068	V11069	V11070	V11071
## OTU	12804.86	12805.86	12806.86	12807.86	12808.86	12809.86	12810.86	12811.86
##	V11072	V11073	V11074	V11075	V11076	V11077	V11078	V11079
## OTU	12812.86	12813.86	12814.86	12815.86	12816.86	12817.86	12818.86	12819.86
##	V11080	V11081	V11082	V11083	V11084	V11085	V11086	V11087
## OTU	12820.86	12821.86	12822.86	12823.86	12824.86	12825.86	12826.86	12827.86
##	V11088	V11089	V11090	V11091	V11092	V11093	V11094	V11095
## OTU	12828.86	12829.86	12830.86	12831.86	12832.86	12833.86	12834.86	12835.86
##	V11096	V11097	V11098	V11099	V11100	V11101	V11102	V11103
## OTU	12836.86	12837.86	12838.86	12839.86	12840.86	12841.86	12842.86	12843.86
##	V11104	V11105	V11106	V11107	V11108	V11109	V11110	V11111
## OTU	12844.86	12845.86	12846.86	12847.86	12848.86	12849.86	12850.86	12851.86
##	V11112	V11113	V11114	V11115	V11116	V11117	V11118	V11119
## OTU	12852.86	12853.86	12854.86	12855.86	12856.86	12857.86	12858.86	12859.86
##	V11120	V11121	V11122	V11123	V11124	V11125	V11126	V11127
## OTU	12860.86	12861.86	12862.86	12863.86	12864.86	12865.86	12866.86	12867.86
##	V11128	V11129	V11130	V11131	V11132	V11133	V11134	V11135
## OTU	12868.86	12869.86	12870.86	12871.86	12872.86	12873.86	12874.86	12875.86
##	V11136	V11137	V11138	V11139	V11140	V11141	V11142	V11143
## OTU	12876.86	12877.86	12878.86	12879.86	12880.86	12881.86	12882.86	12883.86
##	V11144	V11145	V11146	V11147	V11148	V11149	V11150	V11151
## OTU	12884.86	12885.86	12886.86	12887.86	12888.86	12889.86	12890.86	12891.86
##	V11152	V11153	V11154	V11155	V11156	V11157	V11158	V11159
## OTU	12892.86	12893.86	12894.86	12895.86	12896.86	12897.86	12898.86	12899.86
##	V11160	V11161	V11162	V11163	V11164	V11165	V11166	V11167
## OTU	12900.86	12901.86	12902.86	12903.86	12904.86	12905.86	12906.86	12907.86
##	V11168	V11169	V11170	V11171	V11172	V11173	V11174	V11175
## OTU	12908.86	12909.86	12910.86	12911.86	12912.86	12913.86	12914.86	12915.86
##	V11176	V11177	V11178	V11179	V11180	V11181	V11182	V11183
## OTU	12916.86	12917.86	12918.86	12919.86	12920.86	12921.86	12922.86	12923.86
##	V11184	V11185	V11186	V11187	V11188	V11189	V11190	V11191
## OTU	12924.86	12925.86	12926.86	12927.86	12928.86	12929.86	12930.86	12931.86
##	V11192	V11193	V11194	V11195	V11196	V11197	V11198	V11199
## OTU	12932.86	12933.86	12934.86	12935.86	12936.86	12937.86	12938.86	12939.86
##	V11200	V11201	V11202	V11203	V11204	V11205	V11206	V11207
## OTU	12940.86	12941.86	12942.86	12943.86	12944.86	12945.86	12946.86	12947.86
##	V11208	V11209	V11210	V11211	V11212	V11213	V11214	V11215
## OTU	12948.86	12949.86	12950.86	12951.86	12952.86	12953.86	12954.86	12955.86
##	V11216	V11217	V11218	V11219	V11220	V11221	V11222	V11223
## OTU	12956.86	12957.86	12958.86	12959.86	12960.86	12961.86	12962.86	12963.86
##	V11224	V11225	V11226	V11227	V11228	V11229	V11230	V11231
## OTU	12964.86	12965.86	12966.86	12967.86	12968.86	12969.86	12970.86	12971.86
##	V11232	V11233	V11234	V11235	V11236	V11237	V11238	V11239
## OTU	12972.86	12973.86	12974.86	12975.86	12976.86	12977.86	12978.86	12979.86
##	V11240	V11241	V11242	V11243	V11244	V11245	V11246	V11247
## OTU	12980.86	12981.86	12982.86	12983.86	12984.86	12985.86	12986.86	12987.86
##	V11248	V11249	V11250	V11251	V11252	V11253	V11254	V11255
## OTU	12988.86	12989.86	12990.86	12991.86	12992.86	12993.86	12994.86	12995.86
##	V11256	V11257	V11258	V11259	V11260	V11261	V11262	V11263
## OTU	12996.86	12997.86	12998.86	12999.86	13000.86	13001.86	13002.86	13003.86
##	V11264	V11265	V11266	V11267	V11268	V11269	V11270	V11271
## OTU	13004.86	13005.86	13006.86	13007.86	13008.86	13009.86	13010.86	13011.86
##	V11272	V11273	V11274	V11275	V11276	V11277	V11278	V11279
## OTU	13012.86	13013.86	13014.86	13015.86	13016.86	13017.86	13018.86	13019.86

```

##      V11280   V11281   V11282   V11283   V11284   V11285   V11286   V11287
## OTU 13020.86 13021.86 13022.86 13023.86 13024.86 13025.86 13026.86 13027.86
##      V11288   V11289   V11290   V11291   V11292   V11293   V11294   V11295
## OTU 13028.86 13029.86 13030.86 13031.86 13032.86 13033.86 13034.86 13035.86
##      V11296   V11297   V11298   V11299   V11300   V11301   V11302   V11303
## OTU 13036.86 13037.86 13038.86 13039.86 13040.86 13041.86 13042.86 13043.86
##      V11304   V11305   V11306   V11307   V11308   V11309   V11310   V11311
## OTU 13044.86 13045.86 13046.86 13047.86 13048.86 13049.86 13050.86 13051.86
##      V11312   V11313   V11314   V11315   V11316   V11317   V11318   V11319
## OTU 13052.86 13053.86 13054.86 13055.86 13056.86 13057.86 13058.86 13059.86
##      V11320   V11321   V11322   V11323   V11324   V11325   V11326   V11327
## OTU 13060.86 13061.86 13062.86 13063.86 13064.86 13065.86 13066.86 13067.86
##      V11328   V11329   V11330   V11331   V11332   V11333   V11334   V11335
## OTU 13068.86 13069.86 13070.86 13071.86 13072.86 13073.86 13074.86 13075.86
##      V11336   V11337   V11338   V11339   V11340   V11341   V11342   V11343
## OTU 13076.86 13077.86 13078.86 13079.86 13080.86 13081.86 13082.86 13083.86
##      V11344   V11345   V11346   V11347   V11348   V11349   V11350   V11351
## OTU 13084.86 13085.86 13086.86 13087.86 13088.86 13089.86 13090.86 13091.86
##      V11352   V11353   V11354   V11355   V11356   V11357   V11358   V11359
## OTU 13092.86 13093.86 13094.86 13095.86 13096.86 13097.86 13098.86 13099.86
##      V11360   V11361   V11362   V11363   V11364   V11365   V11366   V11367
## OTU 13100.86 13101.86 13102.86 13103.86 13104.86 13105.86 13106.86 13107.86
##      V11368   V11369   V11370   V11371   V11372   V11373   V11374   V11375
## OTU 13108.86 13109.86 13110.86 13111.86 13112.86 13113.86 13114.86 13115.86
##      V11376   V11377   V11378   V11379   V11380   V11381   V11382   V11383
## OTU 13116.86 13117.86 13118.86 13119.86 13120.86 13121.86 13122.86 13123.86
##      V11384   V11385   V11386   V11387   V11388   V11389   V11390   V11391
## OTU 13124.86 13125.86 13126.86 13127.86 13128.86 13129.86 13130.86 13131.86
##      V11392   V11393   V11394   V11395   V11396   V11397   V11398   V11399
## OTU 13132.86 13133.86 13134.86 13135.86 13136.86 13137.86 13138.86 13139.86
##      V11400   V11401   V11402   V11403   V11404   V11405   V11406   V11407
## OTU 13140.86 13141.86 13142.86 13143.86 13144.86 13145.86 13146.86 13147.86
##      V11408   V11409   V11410   V11411   V11412   V11413   V11414   V11415
## OTU 13148.86 13149.86 13150.86 13151.86 13152.86 13153.86 13154.86 13155.86
##      V11416   V11417   V11418   V11419   V11420   V11421   V11422   V11423
## OTU 13156.86 13157.86 13158.86 13159.86 13160.86 13161.86 13162.86 13163.86
##      V11424   V11425   V11426   V11427   V11428   V11429   V11430   V11431
## OTU 13164.86 13165.86 13166.86 13167.86 13168.86 13169.86 13170.86 13171.86
##      V11432   V11433   V11434   V11435   V11436   V11437   V11438   V11439
## OTU 13172.86 13173.86 13174.86 13175.86 13176.86 13177.86 13178.86 13179.86
##      V11440   V11441   V11442   V11443   V11444   V11445   V11446   V11447
## OTU 13180.86 13181.86 13182.86 13183.86 13184.86 13185.86 13186.86 13187.86
##      V11448   V11449   V11450   V11451   V11452   V11453   V11454   V11455
## OTU 13188.86 13189.86 13190.86 13191.86 13192.86 13193.86 13194.86 13195.86
##      V11456   V11457   V11458   V11459   V11460   V11461   V11462   V11463
## OTU 13196.86 13197.86 13198.86 13199.86 13200.86 13201.86 13202.86 13203.86
##      V11464   V11465   V11466   V11467   V11468   V11469   V11470   V11471
## OTU 13204.86 13205.86 13206.86 13207.86 13208.86 13209.86 13210.86 13211.86
##      V11472   V11473   V11474   V11475   V11476   V11477   V11478   V11479
## OTU 13212.86 13213.86 13214.86 13215.86 13216.86 13217.86 13218.86 13219.86
##      V11480   V11481   V11482   V11483   V11484   V11485   V11486   V11487
## OTU 13220.86 13221.86 13222.86 13223.86 13224.86 13225.86 13226.86 13227.86
##      V11488   V11489   V11490   V11491   V11492   V11493   V11494   V11495
## OTU 13228.86 13229.86 13230.86 13231.86 13232.86 13233.86 13234.86 13235.86

```

```

##      V11496   V11497   V11498   V11499   V11500   V11501   V11502   V11503
## OTU 13236.86 13237.86 13238.86 13239.86 13240.86 13241.86 13242.86 13243.86
##      V11504   V11505   V11506   V11507   V11508   V11509   V11510   V11511
## OTU 13244.86 13245.86 13246.86 13247.86 13248.86 13249.86 13250.86 13251.86
##      V11512   V11513   V11514   V11515   V11516   V11517   V11518   V11519
## OTU 13252.86 13253.86 13254.86 13255.86 13256.86 13257.86 13258.86 13259.86
##      V11520   V11521   V11522   V11523   V11524   V11525   V11526   V11527
## OTU 13260.86 13261.86 13262.86 13263.86 13264.86 13265.86 13266.86 13267.86
##      V11528   V11529   V11530   V11531   V11532   V11533   V11534   V11535
## OTU 13268.86 13269.86 13270.86 13271.86 13272.86 13273.86 13274.86 13275.86
##      V11536   V11537   V11538   V11539   V11540   V11541   V11542   V11543
## OTU 13276.86 13277.86 13278.86 13279.86 13280.86 13281.86 13282.86 13283.86
##      V11544   V11545   V11546   V11547   V11548   V11549   V11550   V11551
## OTU 13284.86 13285.86 13286.86 13287.86 13288.86 13289.86 13290.86 13291.86
##      V11552   V11553   V11554   V11555   V11556   V11557   V11558   V11559
## OTU 13292.86 13293.86 13294.86 13295.86 13296.86 13297.86 13298.86 13299.86
##      V11560   V11561   V11562   V11563   V11564   V11565   V11566   V11567
## OTU 13300.86 13301.86 13302.86 13303.86 13304.86 13305.86 13306.86 13307.86
##      V11568   V11569   V11570   V11571   V11572   V11573   V11574   V11575
## OTU 13308.86 13309.86 13310.86 13311.86 13312.86 13313.86 13314.86 13315.86
##      V11576   V11577   V11578   V11579   V11580   V11581   V11582   V11583
## OTU 13316.86 13317.86 13318.86 13319.86 13320.86 13321.86 13322.86 13323.86
##      V11584   V11585   V11586   V11587   V11588   V11589   V11590   V11591
## OTU 13324.86 13325.86 13326.86 13327.86 13328.86 13329.86 13330.86 13331.86
##      V11592   V11593   V11594   V11595   V11596   V11597   V11598   V11599
## OTU 13332.86 13333.86 13334.86 13335.86 13336.86 13337.86 13338.86 13339.86
##      V11600   V11601   V11602   V11603   V11604   V11605   V11606   V11607
## OTU 13340.86 13341.86 13342.86 13343.86 13344.86 13345.86 13346.86 13347.86
##      V11608   V11609   V11610   V11611   V11612   V11613   V11614   V11615
## OTU 13348.86 13349.86 13350.86 13351.86 13352.86 13353.86 13354.86 13355.86
##      V11616   V11617   V11618   V11619   V11620   V11621   V11622   V11623
## OTU 13356.86 13357.86 13358.86 13359.86 13360.86 13361.86 13362.86 13363.86
##      V11624   V11625   V11626   V11627   V11628   V11629   V11630   V11631
## OTU 13364.86 13365.86 13366.86 13367.86 13368.86 13369.86 13370.86 13371.86
##      V11632   V11633   V11634   V11635   V11636   V11637   V11638   V11639
## OTU 13372.86 13373.86 13374.86 13375.86 13376.86 13377.86 13378.86 13379.86
##      V11640   V11641   V11642   V11643   V11644   V11645   V11646   V11647
## OTU 13380.86 13381.86 13382.86 13383.86 13384.86 13385.86 13386.86 13387.86
##      V11648   V11649   V11650   V11651   V11652   V11653   V11654   V11655
## OTU 13388.86 13389.86 13390.86 13391.86 13392.86 13393.86 13394.86 13395.86
##      V11656   V11657   V11658   V11659   V11660   V11661   V11662   V11663
## OTU 13396.86 13397.86 13398.86 13399.86 13400.86 13401.86 13402.86 13403.86
##      V11664   V11665   V11666   V11667   V11668   V11669   V11670   V11671
## OTU 13404.86 13405.86 13406.86 13407.86 13408.86 13409.86 13410.86 13411.86
##      V11672   V11673   V11674   V11675   V11676   V11677   V11678   V11679
## OTU 13412.86 13413.86 13414.86 13415.86 13416.86 13417.86 13418.86 13419.86
##      V11680   V11681   V11682   V11683   V11684   V11685   V11686   V11687
## OTU 13420.86 13421.86 13422.86 13423.86 13424.86 13425.86 13426.86 13427.86
##      V11688   V11689   V11690   V11691   V11692   V11693   V11694   V11695
## OTU 13428.86 13429.86 13430.86 13431.86 13432.86 13433.86 13434.86 13435.86
##      V11696   V11697   V11698   V11699   V11700   V11701   V11702   V11703
## OTU 13436.86 13437.86 13438.86 13439.86 13440.86 13441.86 13442.86 13443.86
##      V11704   V11705   V11706   V11707   V11708   V11709   V11710   V11711
## OTU 13444.86 13445.86 13446.86 13447.86 13448.86 13449.86 13450.86 13451.86

```

```

##      V11712    V11713    V11714    V11715    V11716    V11717    V11718    V11719
## OTU 13452.86 13453.86 13454.86 13455.86 13456.86 13457.86 13458.86 13459.86
##      V11720    V11721    V11722    V11723    V11724    V11725    V11726    V11727
## OTU 13460.86 13461.86 13462.86 13463.86 13464.86 13465.86 13466.86 13467.86
##      V11728    V11729    V11730    V11731    V11732    V11733    V11734    V11735
## OTU 13468.86 13469.86 13470.86 13471.86 13472.86 13473.86 13474.86 13475.86
##      V11736    V11737    V11738    V11739    V11740    V11741    V11742    V11743
## OTU 13476.86 13477.86 13478.86 13479.86 13480.86 13481.86 13482.86 13483.86
##      V11744    V11745    V11746    V11747    V11748    V11749    V11750    V11751
## OTU 13484.86 13485.86 13486.86 13487.86 13488.86 13489.86 13490.86 13491.86
##      V11752    V11753    V11754    V11755    V11756    V11757    V11758    V11759
## OTU 13492.86 13493.86 13494.86 13495.86 13496.86 13497.86 13498.86 13499.86
##      V11760    V11761    V11762    V11763    V11764    V11765    V11766    V11767
## OTU 13500.86 13501.86 13502.86 13503.86 13504.86 13505.86 13506.86 13507.86
##      V11768    V11769    V11770    V11771    V11772    V11773    V11774    V11775
## OTU 13508.86 13509.86 13510.86 13511.86 13512.86 13513.86 13514.86 13515.86
##      V11776    V11777    V11778    V11779    V11780    V11781    V11782    V11783
## OTU 13516.86 13517.86 13518.86 13519.86 13520.86 13521.86 13522.86 13523.86
##      V11784    V11785    V11786    V11787    V11788    V11789    V11790    V11791
## OTU 13524.86 13525.86 13526.86 13527.86 13528.86 13529.86 13530.86 13531.86
##      V11792    V11793    V11794    V11795    V11796    V11797    V11798    V11799
## OTU 13532.86 13533.86 13534.86 13535.86 13536.86 13537.86 13538.86 13539.86
##      V11800    V11801    V11802    V11803    V11804    V11805    V11806    V11807
## OTU 13540.86 13541.86 13542.86 13543.86 13544.86 13545.86 13546.86 13547.86
##      V11808    V11809    V11810    V11811    V11812    V11813    V11814    V11815
## OTU 13548.86 13549.86 13550.86 13551.86 13552.86 13553.86 13554.86 13555.86
##      V11816    V11817    V11818    V11819    V11820    V11821    V11822    V11823
## OTU 13556.86 13557.86 13558.86 13559.86 13560.86 13561.86 13562.86 13563.86
##      V11824    V11825    V11826    V11827    V11828    V11829    V11830    V11831
## OTU 13564.86 13565.86 13566.86 13567.86 13568.86 13569.86 13570.86 13571.86
##      V11832    V11833    V11834    V11835    V11836    V11837    V11838    V11839
## OTU 13572.86 13573.86 13574.86 13575.86 13576.86 13577.86 13578.86 13579.86
##      V11840    V11841    V11842    V11843    V11844    V11845    V11846    V11847
## OTU 13580.86 13581.86 13582.86 13583.86 13584.86 13585.86 13586.86 13587.86
##      V11848    V11849    V11850    V11851    V11852    V11853    V11854    V11855
## OTU 13588.86 13589.86 13590.86 13591.86 13592.86 13593.86 13594.86 13595.86
##      V11856    V11857    V11858    V11859    V11860    V11861    V11862    V11863
## OTU 13596.86 13597.86 13598.86 13599.86 13600.86 13601.86 13602.86 13603.86
##      V11864    V11865    V11866    V11867    V11868    V11869    V11870    V11871
## OTU 13604.86 13605.86 13606.86 13607.86 13608.86 13609.86 13610.86 13611.86
##      V11872    V11873    V11874    V11875    V11876    V11877    V11878    V11879
## OTU 13612.86 13613.86 13614.86 13615.86 13616.86 13617.86 13618.86 13619.86
##      V11880    V11881    V11882    V11883    V11884    V11885    V11886    V11887
## OTU 13620.86 13621.86 13622.86 13623.86 13624.86 13625.86 13626.86 13627.86
##      V11888    V11889    V11890    V11891    V11892    V11893    V11894    V11895
## OTU 13628.86 13629.86 13630.86 13631.86 13632.86 13633.86 13634.86 13635.86
##      V11896    V11897    V11898    V11899    V11900    V11901    V11902    V11903
## OTU 13636.86 13637.86 13638.86 13639.86 13640.86 13641.86 13642.86 13643.86
##      V11904    V11905    V11906    V11907    V11908    V11909    V11910    V11911
## OTU 13644.86 13645.86 13646.86 13647.86 13648.86 13649.86 13650.86 13651.86
##      V11912    V11913    V11914    V11915    V11916    V11917    V11918    V11919
## OTU 13652.86 13653.86 13654.86 13655.86 13656.86 13657.86 13658.86 13659.86
##      V11920    V11921    V11922    V11923    V11924    V11925    V11926    V11927
## OTU 13660.86 13661.86 13662.86 13663.86 13664.86 13665.86 13666.86 13667.86

```

##	V11928	V11929	V11930	V11931	V11932	V11933	V11934	V11935
## OTU	13668.86	13669.86	13670.86	13671.86	13672.86	13673.86	13674.86	13675.86
##	V11936	V11937	V11938	V11939	V11940	V11941	V11942	V11943
## OTU	13676.86	13677.86	13678.86	13679.86	13680.86	13681.86	13682.86	13683.86
##	V11944	V11945	V11946	V11947	V11948	V11949	V11950	V11951
## OTU	13684.86	13685.86	13686.86	13687.86	13688.86	13689.86	13690.86	13691.86
##	V11952	V11953	V11954	V11955	V11956	V11957	V11958	V11959
## OTU	13692.86	13693.86	13694.86	13695.86	13696.86	13697.86	13698.86	13699.86
##	V11960	V11961	V11962	V11963	V11964	V11965	V11966	V11967
## OTU	13700.86	13701.86	13702.86	13703.86	13704.86	13705.86	13706.86	13707.86
##	V11968	V11969	V11970	V11971	V11972	V11973	V11974	V11975
## OTU	13708.86	13709.86	13710.86	13711.86	13712.86	13713.86	13714.86	13715.86
##	V11976	V11977	V11978	V11979	V11980	V11981	V11982	V11983
## OTU	13716.86	13717.86	13718.86	13719.86	13720.86	13721.86	13722.86	13723.86
##	V11984	V11985	V11986	V11987	V11988	V11989	V11990	V11991
## OTU	13724.86	13725.86	13726.86	13727.86	13728.86	13729.86	13730.86	13731.86
##	V11992	V11993	V11994	V11995	V11996	V11997	V11998	V11999
## OTU	13732.86	13733.86	13734.86	13735.86	13736.86	13737.86	13738.86	13739.86
##	V12000	V12001	V12002	V12003	V12004	V12005	V12006	V12007
## OTU	13740.86	13741.86	13742.86	13743.86	13744.86	13745.86	13746.86	13747.86
##	V12008	V12009	V12010	V12011	V12012	V12013	V12014	V12015
## OTU	13748.86	13749.86	13750.86	13751.86	13752.86	13753.86	13754.86	13755.86
##	V12016	V12017	V12018	V12019	V12020	V12021	V12022	V12023
## OTU	13756.86	13757.86	13758.86	13759.86	13760.86	13761.86	13762.86	13763.86
##	V12024	V12025	V12026	V12027	V12028	V12029	V12030	V12031
## OTU	13764.86	13765.86	13766.86	13767.86	13768.86	13769.86	13770.86	13771.86
##	V12032	V12033	V12034	V12035	V12036	V12037	V12038	V12039
## OTU	13772.86	13773.86	13774.86	13775.86	13776.86	13777.86	13778.86	13779.86
##	V12040	V12041	V12042	V12043	V12044	V12045	V12046	V12047
## OTU	13780.86	13781.86	13782.86	13783.86	13784.86	13785.86	13786.86	13787.86
##	V12048	V12049	V12050	V12051	V12052	V12053	V12054	V12055
## OTU	13788.86	13789.86	13790.86	13791.86	13792.86	13793.86	13794.86	13795.86
##	V12056	V12057	V12058	V12059	V12060	V12061	V12062	V12063
## OTU	13796.86	13797.86	13798.86	13799.86	13800.86	13801.86	13802.86	13803.86
##	V12064	V12065	V12066	V12067	V12068	V12069	V12070	V12071
## OTU	13804.86	13805.86	13806.86	13807.86	13808.86	13809.86	13810.86	13811.86
##	V12072	V12073	V12074	V12075	V12076	V12077	V12078	V12079
## OTU	13812.86	13813.86	13814.86	13815.86	13816.86	13817.86	13818.86	13819.86
##	V12080	V12081	V12082	V12083	V12084	V12085	V12086	V12087
## OTU	13820.86	13821.86	13822.86	13823.86	13824.86	13825.86	13826.86	13827.86
##	V12088	V12089	V12090	V12091	V12092	V12093	V12094	V12095
## OTU	13828.86	13829.86	13830.86	13831.86	13832.86	13833.86	13834.86	13835.86
##	V12096	V12097	V12098	V12099	V12100	V12101	V12102	V12103
## OTU	13836.86	13837.86	13838.86	13839.86	13840.86	13841.86	13842.86	13843.86
##	V12104	V12105	V12106	V12107	V12108	V12109	V12110	V12111
## OTU	13844.86	13845.86	13846.86	13847.86	13848.86	13849.86	13850.86	13851.86
##	V12112	V12113	V12114	V12115	V12116	V12117	V12118	V12119
## OTU	13852.86	13853.86	13854.86	13855.86	13856.86	13857.86	13858.86	13859.86
##	V12120	V12121	V12122	V12123	V12124	V12125	V12126	V12127
## OTU	13860.86	13861.86	13862.86	13863.86	13864.86	13865.86	13866.86	13867.86
##	V12128	V12129	V12130	V12131	V12132	V12133	V12134	V12135
## OTU	13868.86	13869.86	13870.86	13871.86	13872.86	13873.86	13874.86	13875.86
##	V12136	V12137	V12138	V12139	V12140	V12141	V12142	V12143
## OTU	13876.86	13877.86	13878.86	13879.86	13880.86	13881.86	13882.86	13883.86

##	V12144	V12145	V12146	V12147	V12148	V12149	V12150	V12151
## OTU	13884.86	13885.86	13886.86	13887.86	13888.86	13889.86	13890.86	13891.86
##	V12152	V12153	V12154	V12155	V12156	V12157	V12158	V12159
## OTU	13892.86	13893.86	13894.86	13895.86	13896.86	13897.86	13898.86	13899.86
##	V12160	V12161	V12162	V12163	V12164	V12165	V12166	V12167
## OTU	13900.86	13901.86	13902.86	13903.86	13904.86	13905.86	13906.86	13907.86
##	V12168	V12169	V12170	V12171	V12172	V12173	V12174	V12175
## OTU	13908.86	13909.86	13910.86	13911.86	13912.86	13913.86	13914.86	13915.86
##	V12176	V12177	V12178	V12179	V12180	V12181	V12182	V12183
## OTU	13916.86	13917.86	13918.86	13919.86	13920.86	13921.86	13922.86	13923.86
##	V12184	V12185	V12186	V12187	V12188	V12189	V12190	V12191
## OTU	13924.86	13925.86	13926.86	13927.86	13928.86	13929.86	13930.86	13931.86
##	V12192	V12193	V12194	V12195	V12196	V12197	V12198	V12199
## OTU	13932.86	13933.86	13934.86	13935.86	13936.86	13937.86	13938.86	13939.86
##	V12200	V12201	V12202	V12203	V12204	V12205	V12206	V12207
## OTU	13940.86	13941.86	13942.86	13943.86	13944.86	13945.86	13946.86	13947.86
##	V12208	V12209	V12210	V12211	V12212	V12213	V12214	V12215
## OTU	13948.86	13949.86	13950.86	13951.86	13952.86	13953.86	13954.86	13955.86
##	V12216	V12217	V12218	V12219	V12220	V12221	V12222	V12223
## OTU	13956.86	13957.86	13958.86	13959.86	13960.86	13961.86	13962.86	13963.86
##	V12224	V12225	V12226	V12227	V12228	V12229	V12230	V12231
## OTU	13964.86	13965.86	13966.86	13967.86	13968.86	13969.86	13970.86	13971.86
##	V12232	V12233	V12234	V12235	V12236	V12237	V12238	V12239
## OTU	13972.86	13973.86	13974.86	13975.86	13976.86	13977.86	13978.86	13979.86
##	V12240	V12241	V12242	V12243	V12244	V12245	V12246	V12247
## OTU	13980.86	13981.86	13982.86	13983.86	13984.86	13985.86	13986.86	13987.86
##	V12248	V12249	V12250	V12251	V12252	V12253	V12254	V12255
## OTU	13988.86	13989.86	13990.86	13991.86	13992.86	13993.86	13994.86	13995.86
##	V12256	V12257	V12258	V12259	V12260	V12261	V12262	V12263
## OTU	13996.86	13997.86	13998.86	13999.86	14000.86	14001.86	14002.86	14003.86
##	V12264	V12265	V12266	V12267	V12268	V12269	V12270	V12271
## OTU	14004.86	14005.86	14006.86	14007.86	14008.86	14009.86	14010.86	14011.86
##	V12272	V12273	V12274	V12275	V12276	V12277	V12278	V12279
## OTU	14012.86	14013.86	14014.86	14015.86	14016.86	14017.86	14018.86	14019.86
##	V12280	V12281	V12282	V12283	V12284	V12285	V12286	V12287
## OTU	14020.86	14021.86	14022.86	14023.86	14024.86	14025.86	14026.86	14027.86
##	V12288	V12289	V12290	V12291	V12292	V12293	V12294	V12295
## OTU	14028.86	14029.86	14030.86	14031.86	14032.86	14033.86	14034.86	14035.86
##	V12296	V12297	V12298	V12299	V12300	V12301	V12302	V12303
## OTU	14036.86	14037.86	14038.86	14039.86	14040.86	14041.86	14042.86	14043.86
##	V12304	V12305	V12306	V12307	V12308	V12309	V12310	V12311
## OTU	14044.86	14045.86	14046.86	14047.86	14048.86	14049.86	14050.86	14051.86
##	V12312	V12313	V12314	V12315	V12316	V12317	V12318	V12319
## OTU	14052.86	14053.86	14054.86	14055.86	14056.86	14057.86	14058.86	14059.86
##	V12320	V12321	V12322	V12323	V12324	V12325	V12326	V12327
## OTU	14060.86	14061.86	14062.86	14063.86	14064.86	14065.86	14066.86	14067.86
##	V12328	V12329	V12330	V12331	V12332	V12333	V12334	V12335
## OTU	14068.86	14069.86	14070.86	14071.86	14072.86	14073.86	14074.86	14075.86
##	V12336	V12337	V12338	V12339	V12340	V12341	V12342	V12343
## OTU	14076.86	14077.86	14078.86	14079.86	14080.86	14081.86	14082.86	14083.86
##	V12344	V12345	V12346	V12347	V12348	V12349	V12350	V12351
## OTU	14084.86	14085.86	14086.86	14087.86	14088.86	14089.86	14090.86	14091.86
##	V12352	V12353	V12354	V12355	V12356	V12357	V12358	V12359
## OTU	14092.86	14093.86	14094.86	14095.86	14096.86	14097.86	14098.86	14099.86

```

##      V12360   V12361   V12362   V12363   V12364   V12365   V12366   V12367
## OTU 14100.86 14101.86 14102.86 14103.86 14104.86 14105.86 14106.86 14107.86
##      V12368   V12369   V12370   V12371   V12372   V12373   V12374   V12375
## OTU 14108.86 14109.86 14110.86 14111.86 14112.86 14113.86 14114.86 14115.86
##      V12376   V12377   V12378   V12379   V12380   V12381   V12382   V12383
## OTU 14116.86 14117.86 14118.86 14119.86 14120.86 14121.86 14122.86 14123.86
##      V12384   V12385   V12386   V12387   V12388   V12389   V12390   V12391
## OTU 14124.86 14125.86 14126.86 14127.86 14128.86 14129.86 14130.86 14131.86
##      V12392   V12393   V12394   V12395   V12396   V12397   V12398   V12399
## OTU 14132.86 14133.86 14134.86 14135.86 14136.86 14137.86 14138.86 14139.86
##      V12400   V12401   V12402   V12403   V12404   V12405   V12406   V12407
## OTU 14140.86 14141.86 14142.86 14143.86 14144.86 14145.86 14146.86 14147.86
##      V12408   V12409   V12410   V12411   V12412   V12413   V12414   V12415
## OTU 14148.86 14149.86 14150.86 14151.86 14152.86 14153.86 14154.86 14155.86
##      V12416   V12417   V12418   V12419   V12420   V12421   V12422   V12423
## OTU 14156.86 14157.86 14158.86 14159.86 14160.86 14161.86 14162.86 14163.86
##      V12424   V12425   V12426   V12427   V12428   V12429   V12430   V12431
## OTU 14164.86 14165.86 14166.86 14167.86 14168.86 14169.86 14170.86 14171.86
##      V12432   V12433   V12434   V12435   V12436   V12437   V12438   V12439
## OTU 14172.86 14173.86 14174.86 14175.86 14176.86 14177.86 14178.86 14179.86
##      V12440   V12441   V12442   V12443   V12444   V12445   V12446   V12447
## OTU 14180.86 14181.86 14182.86 14183.86 14184.86 14185.86 14186.86 14187.86
##      V12448   V12449   V12450   V12451   V12452   V12453   V12454   V12455
## OTU 14188.86 14189.86 14190.86 14191.86 14192.86 14193.86 14194.86 14195.86
##      V12456   V12457   V12458   V12459   V12460   V12461   V12462   V12463
## OTU 14196.86 14197.86 14198.86 14199.86 14200.86 14201.86 14202.86 14203.86
##      V12464   V12465   V12466   V12467   V12468   V12469   V12470   V12471
## OTU 14204.86 14205.86 14206.86 14207.86 14208.86 14209.86 14210.86 14211.86
##      V12472   V12473   V12474   V12475   V12476   V12477   V12478   V12479
## OTU 14212.86 14213.86 14214.86 14215.86 14216.86 14217.86 14218.86 14219.86
##      V12480   V12481   V12482   V12483   V12484   V12485   V12486   V12487
## OTU 14220.86 14221.86 14222.86 14223.86 14224.86 14225.86 14226.86 14227.86
##      V12488   V12489   V12490   V12491   V12492   V12493   V12494   V12495
## OTU 14228.86 14229.86 14230.86 14231.86 14232.86 14233.86 14234.86 14235.86
##      V12496   V12497   V12498   V12499   V12500   V12501   V12502   V12503
## OTU 14236.86 14237.86 14238.86 14239.86 14240.86 14241.86 14242.86 14243.86
##      V12504   V12505   V12506   V12507   V12508   V12509   V12510   V12511
## OTU 14244.86 14245.86 14246.86 14247.86 14248.86 14249.86 14250.86 14251.86
##      V12512   V12513   V12514   V12515   V12516   V12517   V12518   V12519
## OTU 14252.86 14253.86 14254.86 14255.86 14256.86 14257.86 14258.86 14259.86
##      V12520   V12521   V12522   V12523   V12524   V12525   V12526   V12527
## OTU 14260.86 14261.86 14262.86 14263.86 14264.86 14265.86 14266.86 14267.86
##      V12528   V12529   V12530   V12531   V12532   V12533   V12534   V12535
## OTU 14268.86 14269.86 14270.86 14271.86 14272.86 14273.86 14274.86 14275.86
##      V12536   V12537   V12538   V12539   V12540   V12541   V12542   V12543
## OTU 14276.86 14277.86 14278.86 14279.86 14280.86 14281.86 14282.86 14283.86
##      V12544   V12545   V12546   V12547   V12548   V12549   V12550   V12551
## OTU 14284.86 14285.86 14286.86 14287.86 14288.86 14289.86 14290.86 14291.86
##      V12552   V12553   V12554   V12555   V12556   V12557   V12558   V12559
## OTU 14292.86 14293.86 14294.86 14295.86 14296.86 14297.86 14298.86 14299.86
##      V12560   V12561   V12562   V12563   V12564   V12565   V12566   V12567
## OTU 14300.86 14301.86 14302.86 14303.86 14304.86 14305.86 14306.86 14307.86
##      V12568   V12569   V12570   V12571   V12572   V12573   V12574   V12575
## OTU 14308.86 14309.86 14310.86 14311.86 14312.86 14313.86 14314.86 14315.86

```

##	V12576	V12577	V12578	V12579	V12580	V12581	V12582	V12583
## OTU	14316.86	14317.86	14318.86	14319.86	14320.86	14321.86	14322.86	14323.86
##	V12584	V12585	V12586	V12587	V12588	V12589	V12590	V12591
## OTU	14324.86	14325.86	14326.86	14327.86	14328.86	14329.86	14330.86	14331.86
##	V12592	V12593	V12594	V12595	V12596	V12597	V12598	V12599
## OTU	14332.86	14333.86	14334.86	14335.86	14336.86	14337.86	14338.86	14339.86
##	V12600	V12601	V12602	V12603	V12604	V12605	V12606	V12607
## OTU	14340.86	14341.86	14342.86	14343.86	14344.86	14345.86	14346.86	14347.86
##	V12608	V12609	V12610	V12611	V12612	V12613	V12614	V12615
## OTU	14348.86	14349.86	14350.86	14351.86	14352.86	14353.86	14354.86	14355.86
##	V12616	V12617	V12618	V12619	V12620	V12621	V12622	V12623
## OTU	14356.86	14357.86	14358.86	14359.86	14360.86	14361.86	14362.86	14363.86
##	V12624	V12625	V12626	V12627	V12628	V12629	V12630	V12631
## OTU	14364.86	14365.86	14366.86	14367.86	14368.86	14369.86	14370.86	14371.86
##	V12632	V12633	V12634	V12635	V12636	V12637	V12638	V12639
## OTU	14372.86	14373.86	14374.86	14375.86	14376.86	14377.86	14378.86	14379.86
##	V12640	V12641	V12642	V12643	V12644	V12645	V12646	V12647
## OTU	14380.86	14381.86	14382.86	14383.86	14384.86	14385.86	14386.86	14387.86
##	V12648	V12649	V12650	V12651	V12652	V12653	V12654	V12655
## OTU	14388.86	14389.86	14390.86	14391.86	14392.86	14393.86	14394.86	14395.86
##	V12656	V12657	V12658	V12659	V12660	V12661	V12662	V12663
## OTU	14396.86	14397.86	14398.86	14399.86	14400.86	14401.86	14402.86	14403.86
##	V12664	V12665	V12666	V12667	V12668	V12669	V12670	V12671
## OTU	14404.86	14405.86	14406.86	14407.86	14408.86	14409.86	14410.86	14411.86
##	V12672	V12673	V12674	V12675	V12676	V12677	V12678	V12679
## OTU	14412.86	14413.86	14414.86	14415.86	14416.86	14417.86	14418.86	14419.86
##	V12680	V12681	V12682	V12683	V12684	V12685	V12686	V12687
## OTU	14420.86	14421.86	14422.86	14423.86	14424.86	14425.86	14426.86	14427.86
##	V12688	V12689	V12690	V12691	V12692	V12693	V12694	V12695
## OTU	14428.86	14429.86	14430.86	14431.86	14432.86	14433.86	14434.86	14435.86
##	V12696	V12697	V12698	V12699	V12700	V12701	V12702	V12703
## OTU	14436.86	14437.86	14438.86	14439.86	14440.86	14441.86	14442.86	14443.86
##	V12704	V12705	V12706	V12707	V12708	V12709	V12710	V12711
## OTU	14444.86	14445.86	14446.86	14447.86	14448.86	14449.86	14450.86	14451.86
##	V12712	V12713	V12714	V12715	V12716	V12717	V12718	V12719
## OTU	14452.86	14453.86	14454.86	14455.86	14456.86	14457.86	14458.86	14459.86
##	V12720	V12721	V12722	V12723	V12724	V12725	V12726	V12727
## OTU	14460.86	14461.86	14462.86	14463.86	14464.86	14465.86	14466.86	14467.86
##	V12728	V12729	V12730	V12731	V12732	V12733	V12734	V12735
## OTU	14468.86	14469.86	14470.86	14471.86	14472.86	14473.86	14474.86	14475.86
##	V12736	V12737	V12738	V12739	V12740	V12741	V12742	V12743
## OTU	14476.86	14477.86	14478.86	14479.86	14480.86	14481.86	14482.86	14483.86
##	V12744	V12745	V12746	V12747	V12748	V12749	V12750	V12751
## OTU	14484.86	14485.86	14486.86	14487.86	14488.86	14489.86	14490.86	14491.86
##	V12752	V12753	V12754	V12755	V12756	V12757	V12758	V12759
## OTU	14492.86	14493.86	14494.86	14495.86	14496.86	14497.86	14498.86	14499.86
##	V12760	V12761	V12762	V12763	V12764	V12765	V12766	V12767
## OTU	14500.86	14501.86	14502.86	14503.86	14504.86	14505.86	14506.86	14507.86
##	V12768	V12769	V12770	V12771	V12772	V12773	V12774	V12775
## OTU	14508.86	14509.86	14510.86	14511.86	14512.86	14513.86	14514.86	14515.86
##	V12776	V12777	V12778	V12779	V12780	V12781	V12782	V12783
## OTU	14516.86	14517.86	14518.86	14519.86	14520.86	14521.86	14522.86	14523.86
##	V12784	V12785	V12786	V12787	V12788	V12789	V12790	V12791
## OTU	14524.86	14525.86	14526.86	14527.86	14528.86	14529.86	14530.86	14531.86

```

##      V12792   V12793   V12794   V12795   V12796   V12797   V12798   V12799
## OTU 14532.86 14533.86 14534.86 14535.86 14536.86 14537.86 14538.86 14539.86
##      V12800   V12801   V12802   V12803   V12804   V12805   V12806   V12807
## OTU 14540.86 14541.86 14542.86 14543.86 14544.86 14545.86 14546.86 14547.86
##      V12808   V12809   V12810   V12811   V12812   V12813   V12814   V12815
## OTU 14548.86 14549.86 14550.86 14551.86 14552.86 14553.86 14554.86 14555.86
##      V12816   V12817   V12818   V12819   V12820   V12821   V12822   V12823
## OTU 14556.86 14557.86 14558.86 14559.86 14560.86 14561.86 14562.86 14563.86
##      V12824   V12825   V12826   V12827   V12828   V12829   V12830   V12831
## OTU 14564.86 14565.86 14566.86 14567.86 14568.86 14569.86 14570.86 14571.86
##      V12832   V12833   V12834   V12835   V12836   V12837   V12838   V12839
## OTU 14572.86 14573.86 14574.86 14575.86 14576.86 14577.86 14578.86 14579.86
##      V12840   V12841   V12842   V12843   V12844   V12845   V12846   V12847
## OTU 14580.86 14581.86 14582.86 14583.86 14584.86 14585.86 14586.86 14587.86
##      V12848   V12849   V12850   V12851   V12852   V12853   V12854   V12855
## OTU 14588.86 14589.86 14590.86 14591.86 14592.86 14593.86 14594.86 14595.86
##      V12856   V12857   V12858   V12859   V12860   V12861   V12862   V12863
## OTU 14596.86 14597.86 14598.86 14599.86 14600.86 14601.86 14602.86 14603.86
##      V12864   V12865   V12866   V12867   V12868   V12869   V12870   V12871
## OTU 14604.86 14605.86 14606.86 14607.86 14608.86 14609.86 14610.86 14611.86
##      V12872   V12873   V12874   V12875   V12876   V12877   V12878   V12879
## OTU 14612.86 14613.86 14614.86 14615.86 14616.86 14617.86 14618.86 14619.86
##      V12880   V12881   V12882   V12883   V12884   V12885   V12886   V12887
## OTU 14620.86 14621.86 14622.86 14623.86 14624.86 14625.86 14626.86 14627.86
##      V12888   V12889   V12890   V12891   V12892   V12893   V12894   V12895
## OTU 14628.86 14629.86 14630.86 14631.86 14632.86 14633.86 14634.86 14635.86
##      V12896   V12897   V12898   V12899   V12900   V12901   V12902   V12903
## OTU 14636.86 14637.86 14638.86 14639.86 14640.86 14641.86 14642.86 14643.86
##      V12904   V12905   V12906   V12907   V12908   V12909   V12910   V12911
## OTU 14644.86 14645.86 14646.86 14647.86 14648.86 14649.86 14650.86 14651.86
##      V12912   V12913   V12914   V12915   V12916   V12917   V12918   V12919
## OTU 14652.86 14653.86 14654.86 14655.86 14656.86 14657.86 14658.86 14659.86
##      V12920   V12921   V12922   V12923   V12924   V12925   V12926   V12927
## OTU 14660.86 14661.86 14662.86 14663.86 14664.86 14665.86 14666.86 14667.86
##      V12928   V12929   V12930   V12931   V12932   V12933   V12934   V12935
## OTU 14668.86 14669.86 14670.86 14671.86 14672.86 14673.86 14674.86 14675.86
##      V12936   V12937   V12938   V12939   V12940   V12941   V12942   V12943
## OTU 14676.86 14677.86 14678.86 14679.86 14680.86 14681.86 14682.86 14683.86
##      V12944   V12945   V12946   V12947   V12948   V12949   V12950   V12951
## OTU 14684.86 14685.86 14686.86 14687.86 14688.86 14689.86 14690.86 14691.86
##      V12952   V12953   V12954   V12955   V12956   V12957   V12958   V12959
## OTU 14692.86 14693.86 14694.86 14695.86 14696.86 14697.86 14698.86 14699.86
##      V12960   V12961   V12962   V12963   V12964   V12965   V12966   V12967
## OTU 14700.86 14701.86 14702.86 14703.86 14704.86 14705.86 14706.86 14707.86
##      V12968   V12969   V12970   V12971   V12972   V12973   V12974   V12975
## OTU 14708.86 14709.86 14710.86 14711.86 14712.86 14713.86 14714.86 14715.86
##      V12976   V12977   V12978   V12979   V12980   V12981   V12982   V12983
## OTU 14716.86 14717.86 14718.86 14719.86 14720.86 14721.86 14722.86 14723.86
##      V12984   V12985   V12986   V12987   V12988   V12989   V12990   V12991
## OTU 14724.86 14725.86 14726.86 14727.86 14728.86 14729.86 14730.86 14731.86
##      V12992   V12993   V12994   V12995   V12996   V12997   V12998   V12999
## OTU 14732.86 14733.86 14734.86 14735.86 14736.86 14737.86 14738.86 14739.86
##      V13000   V13001   V13002   V13003   V13004   V13005   V13006   V13007
## OTU 14740.86 14741.86 14742.86 14743.86 14744.86 14745.86 14746.86 14747.86

```

##	V13008	V13009	V13010	V13011	V13012	V13013	V13014	V13015
## OTU	14748.86	14749.86	14750.86	14751.86	14752.86	14753.86	14754.86	14755.86
##	V13016	V13017	V13018	V13019	V13020	V13021	V13022	V13023
## OTU	14756.86	14757.86	14758.86	14759.86	14760.86	14761.86	14762.86	14763.86
##	V13024	V13025	V13026	V13027	V13028	V13029	V13030	V13031
## OTU	14764.86	14765.86	14766.86	14767.86	14768.86	14769.86	14770.86	14771.86
##	V13032	V13033	V13034	V13035	V13036	V13037	V13038	V13039
## OTU	14772.86	14773.86	14774.86	14775.86	14776.86	14777.86	14778.86	14779.86
##	V13040	V13041	V13042	V13043	V13044	V13045	V13046	V13047
## OTU	14780.86	14781.86	14782.86	14783.86	14784.86	14785.86	14786.86	14787.86
##	V13048	V13049	V13050	V13051	V13052	V13053	V13054	V13055
## OTU	14788.86	14789.86	14790.86	14791.86	14792.86	14793.86	14794.86	14795.86
##	V13056	V13057	V13058	V13059	V13060	V13061	V13062	V13063
## OTU	14796.86	14797.86	14798.86	14799.86	14800.86	14801.86	14802.86	14803.86
##	V13064	V13065	V13066	V13067	V13068	V13069	V13070	V13071
## OTU	14804.86	14805.86	14806.86	14807.86	14808.86	14809.86	14810.86	14811.86
##	V13072	V13073	V13074	V13075	V13076	V13077	V13078	V13079
## OTU	14812.86	14813.86	14814.86	14815.86	14816.86	14817.86	14818.86	14819.86
##	V13080	V13081	V13082	V13083	V13084	V13085	V13086	V13087
## OTU	14820.86	14821.86	14822.86	14823.86	14824.86	14825.86	14826.86	14827.86
##	V13088	V13089	V13090	V13091	V13092	V13093	V13094	V13095
## OTU	14828.86	14829.86	14830.86	14831.86	14832.86	14833.86	14834.86	14835.86
##	V13096	V13097	V13098	V13099	V13100	V13101	V13102	V13103
## OTU	14836.86	14837.86	14838.86	14839.86	14840.86	14841.86	14842.86	14843.86
##	V13104	V13105	V13106	V13107	V13108	V13109	V13110	V13111
## OTU	14844.86	14845.86	14846.86	14847.86	14848.86	14849.86	14850.86	14851.86
##	V13112	V13113	V13114	V13115	V13116	V13117	V13118	V13119
## OTU	14852.86	14853.86	14854.86	14855.86	14856.86	14857.86	14858.86	14859.86
##	V13120	V13121	V13122	V13123	V13124	V13125	V13126	V13127
## OTU	14860.86	14861.86	14862.86	14863.86	14864.86	14865.86	14866.86	14867.86
##	V13128	V13129	V13130	V13131	V13132	V13133	V13134	V13135
## OTU	14868.86	14869.86	14870.86	14871.86	14872.86	14873.86	14874.86	14875.86
##	V13136	V13137	V13138	V13139	V13140	V13141	V13142	V13143
## OTU	14876.86	14877.86	14878.86	14879.86	14880.86	14881.86	14882.86	14883.86
##	V13144	V13145	V13146	V13147	V13148	V13149	V13150	V13151
## OTU	14884.86	14885.86	14886.86	14887.86	14888.86	14889.86	14890.86	14891.86
##	V13152	V13153	V13154	V13155	V13156	V13157	V13158	V13159
## OTU	14892.86	14893.86	14894.86	14895.86	14896.86	14897.86	14898.86	14899.86
##	V13160	V13161	V13162	V13163	V13164	V13165	V13166	V13167
## OTU	14900.86	14901.86	14902.86	14903.86	14904.86	14905.86	14906.86	14907.86
##	V13168	V13169	V13170	V13171	V13172	V13173	V13174	V13175
## OTU	14908.86	14909.86	14910.86	14911.86	14912.86	14913.86	14914.86	14915.86
##	V13176	V13177	V13178	V13179	V13180	V13181	V13182	V13183
## OTU	14916.86	14917.86	14918.86	14919.86	14920.86	14921.86	14922.86	14923.86
##	V13184	V13185	V13186	V13187	V13188	V13189	V13190	V13191
## OTU	14924.86	14925.86	14926.86	14927.86	14928.86	14929.86	14930.86	14931.86
##	V13192	V13193	V13194	V13195	V13196	V13197	V13198	V13199
## OTU	14932.86	14933.86	14934.86	14935.86	14936.86	14937.86	14938.86	14939.86
##	V13200	V13201	V13202	V13203	V13204	V13205	V13206	V13207
## OTU	14940.86	14941.86	14942.86	14943.86	14944.86	14945.86	14946.86	14947.86
##	V13208	V13209	V13210	V13211	V13212	V13213	V13214	V13215
## OTU	14948.86	14949.86	14950.86	14951.86	14952.86	14953.86	14954.86	14955.86
##	V13216	V13217	V13218	V13219	V13220	V13221	V13222	V13223
## OTU	14956.86	14957.86	14958.86	14959.86	14960.86	14961.86	14962.86	14963.86

```

##      V13224    V13225    V13226    V13227    V13228    V13229    V13230    V13231
## OTU 14964.86 14965.86 14966.86 14967.86 14968.86 14969.86 14970.86 14971.86
##      V13232    V13233    V13234    V13235    V13236    V13237    V13238    V13239
## OTU 14972.86 14973.86 14974.86 14975.86 14976.86 14977.86 14978.86 14979.86
##      V13240    V13241    V13242    V13243    V13244    V13245    V13246    V13247
## OTU 14980.86 14981.86 14982.86 14983.86 14984.86 14985.86 14986.86 14987.86
##      V13248    V13249    V13250    V13251    V13252    V13253    V13254    V13255
## OTU 14988.86 14989.86 14990.86 14991.86 14992.86 14993.86 14994.86 14995.86
##      V13256    V13257    V13258    V13259    V13260    V13261    V13262    V13263
## OTU 14996.86 14997.86 14998.86 14999.86 15000.86 15001.86 15002.86 15003.86
##      V13264    V13265    V13266    V13267    V13268    V13269    V13270    V13271
## OTU 15004.86 15005.86 15006.86 15007.86 15008.86 15009.86 15010.86 15011.86
##      V13272    V13273    V13274    V13275    V13276    V13277    V13278    V13279
## OTU 15012.86 15013.86 15014.86 15015.86 15016.86 15017.86 15018.86 15019.86
##      V13280    V13281    V13282    V13283    V13284    V13285    V13286    V13287
## OTU 15020.86 15021.86 15022.86 15023.86 15024.86 15025.86 15026.86 15027.86
##      V13288    V13289    V13290    V13291    V13292    V13293    V13294    V13295
## OTU 15028.86 15029.86 15030.86 15031.86 15032.86 15033.86 15034.86 15035.86
##      V13296    V13297    V13298    V13299    V13300    V13301    V13302    V13303
## OTU 15036.86 15037.86 15038.86 15039.86 15040.86 15041.86 15042.86 15043.86
##      V13304    V13305    V13306    V13307    V13308    V13309    V13310
## OTU 15044.86 15045.86 15046.86 15047.86 15048.86 15049.86 15050.86

```

```
S.ace(t_mic)
```

```

## Warning in (i * (i - 1)) * x: longer object length is not a multiple of shorter
## object length

```

```
## [1] 42117.02
```

Question 4: What is the difference between ACE and the Chao estimators? Do the estimators give consistent results? Which one would you choose to use and why?

Answer 4: The Chao 2 estimator is an incidence based metric while Ace incorporates abundance. ACE is preferred if the species are common.

Rarefaction

In the R code chunk below, please do the following:

1. Calculate observed richness for all samples in `soilbac`,
2. Determine the size of the smallest sample,
3. Use the `rarefy()` function to rarefy each sample to this level,
4. Plot the rarefaction results, and
5. Add the 1:1 line and label.

```
specnumber(mic)
```

```

## [1] 12 11 12 10 7 12 12 7 11 5 9 4 8 8 11 10 12 10 9 10 8 10 3 9
## [25] 9 10 5 9 6 10 9 4 8 7 10 7 4 7 6 8 5 12 4 9 11 7 9 8
## [49] 9 11 9 12 10 4 10 9 11 11 5 5 9 11 9 9 8 5 9 8 7 11 12 9
## [73] 6 8 9 6 10 6 4 8 6 9 5 11 8 5 3 5 9 8 5 1 4 7 4 5
## [97] 5 9 4 8 7 1 8 9 4 7 4 5 5 3 6 9 4 6 4 6 10 9 11 8
## [121] 5 4 6 4 9 6 6 5 8 4 2 4 3 5 4 3 8 6 3 9 3 2 5 4
## [145] 6 1 6 8 4 11 4 5 11 10 4 8 4 8 5 4 10 8 3 9 2 5 11 2
## [169] 4 7 9 10 6 7 7 8 3 11 11 8 5 2 3 5 9 8 10 6 5 6 6 4
## [193] 4 5 2 2 3 7 6 5 5 8 10 4 8 3 8 6 4 4 4 6 4 9 2 6
## [217] 9 7 8 3 6 6 2 4 6 8 7 12 4 7 7 11 7 4 5 5 5 5 8 9
## [241] 3 4 2 2 4 5 7 5 5 8 3 8 7 5 6 8 5 6 4 7 5 7 6 3
## [265] 5 8 4 7 2 5 6 3 6 4 2 7 7 3 5 3 7 2 7 6 2 9 3 5
## [289] 5 6 7 3 5 3 4 8 7 4 8 10 6 10 5 3 2 4 7 4 8 6 5 5
## [313] 3 4 4 3 4 4 12 6 5 7 5 2 4 7 4 6 3 5 8 3 7 1 5 3
## [337] 5 2 6 5 9 2 2 5 6 3 9 6 4 4 3 4 5 2 8 7 11 4 5 1
## [361] 4 9 10 3 3 6 4 8 8 9 10 9 4 10 6 5 6 3 4 3 3 1 4 6
## [385] 4 4 3 1 4 5 9 5 6 3 2 5 2 5 2 5 1 2 7 7 5 5 2 4
## [409] 3 1 5 6 4 5 4 4 2 7 6 3 2 4 3 4 5 1 2 3 1 6 4 2
## [433] 5 1 4 4 7 5 2 6 1 4 7 5 2 3 4 7 5 4 3 6 5 5 5 4
## [457] 6 8 6 4 6 3 5 7 3 4 4 4 7 2 3 4 3 1 3 5 4 8 3 2 3
## [481] 6 6 2 4 3 5 5 5 3 8 6 3 1 5 4 5 2 2 2 3 7 4 5 6 7
## [505] 3 4 4 2 2 4 8 7 6 1 1 1 2 6 3 4 4 5 6 6 2 3 2 5
## [529] 3 2 1 2 6 2 1 5 4 7 4 4 4 3 3 6 3 1 2 3 5 1 2 3
## [553] 5 6 10 3 3 4 3 6 3 4 4 4 4 2 3 6 1 3 4 2 1 7 5 6
## [577] 6 6 5 2 4 2 5 3 2 4 5 6 5 3 5 4 4 3 4 5 5 3 4 4
## [601] 3 7 3 6 3 8 4 2 4 7 4 5 4 2 3 2 7 3 4 5 4 4 5 5
## [625] 3 4 3 1 5 2 4 2 7 4 4 3 6 3 5 3 3 8 3 4 6 1 3 6
## [649] 1 1 3 3 4 3 2 4 3 4 6 7 2 2 4 5 5 2 4 2 3 7 4 2
## [673] 7 6 3 5 5 3 7 4 1 2 4 1 2 4 1 6 3 2 6 5 7 3 1 4
## [697] 3 5 5 5 1 4 4 3 6 7 5 5 4 2 3 6 2 1 1 2 8 2 5 6
## [721] 6 1 5 3 4 2 3 6 4 3 5 4 7 3 6 5 4 6 5 3 3 3 5 8
## [745] 6 5 1 1 4 1 5 2 5 3 3 1 5 6 1 2 6 3 4 3 6 2 3 5
## [769] 5 4 8 4 4 5 3 6 1 1 6 5 3 5 1 3 6 6 3 7 5 3 2 3
## [793] 6 6 4 5 5 4 4 4 6 4 5 2 2 3 2 2 3 5 3 3 7 3 3 3
## [817] 2 1 4 3 2 4 2 4 3 6 1 4 5 2 4 6 5 4 2 3 6 2 5 6
## [841] 4 4 2 1 2 7 3 2 4 3 7 4 4 4 5 3 5 4 2 5 4 3 4 1
## [865] 2 4 6 3 8 3 4 7 2 3 2 6 2 3 4 3 3 2 2 2 5 9 3 3
## [889] 6 6 4 3 3 2 3 6 6 5 3 2 4 5 6 4 1 2 2 2 3 5 5 4
## [913] 2 5 5 5 4 5 3 2 4 2 2 2 1 6 3 4 2 1 3 3 5 1 2 3
## [937] 7 3 4 1 2 10 1 1 4 2 3 2 2 3 6 5 2 8 4 2 1 2 4 2
## [961] 8 9 5 1 6 5 1 2 2 3 3 3 6 3 3 4 1 1 3 4 3 3 2 2
## [985] 4 3 1 4 4 2 1 2 4 3 4 6 3 3 3 8 3 6 3 4 5 4 1 4
## [1009] 1 2 2 3 1 2 3 2 1 3 2 3 3 1 1 4 4 2 1 4 4 2 4 2
## [1038] 3 7 1 3 10 2 1 1 8 4 2 1 2 1 2 2 2 7 6 1 4 5 3 2
## [1057] 6 8 5 4 3 1 5 2 1 1 5 1 1 4 2 2 2 1 1 1 1 5 2 2 2
## [1081] 2 4 2 6 1 4 3 4 1 5 2 5 3 3 1 3 6 4 2 3 8 2 2 3 4
## [1105] 1 2 2 4 2 4 1 1 4 3 2 2 3 3 3 7 2 3 6 2 2 5 3 6 2
## [1129] 3 5 6 3 6 3 2 2 5 4 5 4 3 2 1 3 6 1 2 2 5 2 5 2 6
## [1153] 4 4 3 1 3 3 7 6 2 6 3 4 4 3 3 6 3 8 4 5 1 5 1 3
## [1177] 5 4 3 2 2 2 1 3 3 5 4 4 1 2 1 4 5 1 3 3 3 2 1 3
## [1201] 1 3 2 4 2 3 3 1 3 1 1 3 2 3 4 1 3 2 2 1 2 1 1 3 4
## [1225] 2 2 1 1 3 4 2 4 2 2 4 3 2 1 1 2 4 9 6 1 2 1 1 1 2
## [1249] 3 1 2 4 6 2 4 4 3 2 4 2 2 1 2 2 1 3 2 3 4 2 2 3 5
## [1273] 3 6 3 3 1 2 2 3 3 1 1 6 4 4 2 3 3 1 5 3 1 3 2 6

```

```

## [1297] 3 2 1 2 3 1 3 2 1 3 3 2 2 2 1 2 2 5 4 4 7 2 2 4 4 4 2 2 4 2 2 5 8 1 2 3
## [1321] 2 3 3 3 6 4 3 2 2 3 2 4 5 4 6 2 2 4 4 4 3 2 2 3 2 2 6 2 2 4 4 1 1 3 4
## [1345] 5 1 5 2 2 6 5 2 3 4 7 2 2 4 4 4 2 2 4 2 2 5 8 1 2 3
## [1369] 3 3 2 2 2 2 2 4 4 1 3 3 6 2 3 2 2 6 2 2 4 4 4 1 1 3 4
## [1393] 7 1 2 6 2 3 1 2 4 2 1 1 1 2 1 2 1 4 2 2 3 2 5 1
## [1417] 3 2 3 3 4 1 3 3 5 4 3 1 5 2 2 2 1 3 1 5 4 2 1 2
## [1441] 7 4 1 3 2 2 4 3 6 3 2 3 3 3 4 2 2 2 4 2 3 3 3 2 6
## [1465] 1 2 2 3 4 3 6 8 3 2 3 3 3 4 2 2 2 4 2 3 4 2 2 4
## [1489] 4 2 1 2 4 5 6 4 3 1 5 2 4 2 2 2 2 2 3 1 3 2 2 2
## [1513] 2 2 2 4 5 2 4 4 1 2 4 4 1 1 2 2 2 2 7 4 1 1 1 1 2 4
## [1537] 2 1 3 3 2 2 2 1 4 3 2 3 4 2 3 5 1 3 4 4 3 1 4 1
## [1561] 3 6 3 3 3 4 2 7 4 2 6 5 6 3 2 3 2 1 2 4 1 2 2 2
## [1585] 4 2 1 4 3 2 1 4 1 2 1 2 4 3 1 1 2 3 1 3 3 2 2 1
## [1609] 2 2 4 1 1 7 2 2 1 1 2 2 1 2 2 2 1 3 2 2 2 1 1 2 3
## [1633] 3 1 2 3 3 1 1 1 2 1 1 2 3 1 8 2 3 2 6 3 4 2 3 2
## [1657] 1 2 5 1 1 1 2 4 1 2 3 1 2 3 2 1 5 5 1 5 3 2 2 1
## [1681] 2 2 2 2 2 2 4 2 2 4 2 2 1 2 2 3 2 1 2 5 2 6 2 2
## [1705] 4 1 3 1 2 1 5 2 2 1 2 3 4 2 2 4 1 1 1 3 2 5 4 1
## [1729] 2 1 1 3 2 3 2 1 2 2 4 3 4 2 1 3 2 7 2 1 2 3 4 1
## [1753] 2 3 1 1 1 1 2 2 3 1 3 2 4 4 1 1 2 4 3 2 4 2 2 2
## [1777] 1 2 1 2 3 2 2 2 2 1 3 2 1 1 3 3 1 3 4 3 2 1 1 1
## [1801] 1 1 3 2 1 2 2 3 3 3 2 1 1 2 3 2 2 2 2 5 4 1 1 3
## [1825] 3 3 1 2 1 4 1 2 2 1 1 1 2 2 2 2 1 1 5 1 1 1 1
## [1849] 2 2 1 3 2 1 1 2 3 1 3 1 2 3 4 2 3 2 1 4 2 2 4 1
## [1873] 1 2 3 2 1 2 2 2 5 3 3 1 5 2 1 3 2 2 3 1 2 1 3 1
## [1897] 1 2 3 2 2 3 2 1 1 1 3 1 2 1 2 2 1 9 2 2 1 2 2 2
## [1921] 1 3 3 2 2 3 1 6 1 4 3 2 2 1 2 1 1 1 4 2 3 2 2 3
## [1945] 3 6 4 5 1 4 1 1 1 3 2 2 5 2 1 2 3 2 1 2 5 3 2
## [1969] 1 1 2 2 2 4 1 1 1 2 3 2 2 2 4 1 2 4 2 2 3 1 2 2
## [1993] 1 1 3 2 3 2 1 1 1 2 2 2 2 3 4 2 2 2 2 7 1 5 3
## [2017] 1 5 2 2 1 2 2 1 2 1 2 3 1 3 4 1 2 5 2 2 4 1 1 2
## [2041] 1 3 1 4 1 2 1 2 2 1 2 2 2 2 3 2 2 1 2 4 2 2 2 3
## [2065] 2 1 2 3 1 2 2 2 4 2 1 1 2 1 2 3 2 1 2 3 3 3 5 1
## [2089] 2 2 1 3 3 1 5 1 1 1 3 1 2 1 5 2 2 2 3 2 2 2 2 3
## [2113] 1 2 2 3 4 2 3 1 2 1 2 3 1 1 1 2 1 2 3 1 2 2 3 1
## [2137] 2 2 1 3 6 1 2 3 1 3 1 4 1 1 3 2 3 2 1 3 3 2 2 1
## [2161] 3 2 2 2 3 2 3 1 3 2 1 1 1 4 2 1 3 2 5 2 2 2 3 3 4
## [2185] 2 2 2 1 3 2 2 1 4 2 2 4 3 1 3 4 3 2 3 4 2 1 2 2
## [2209] 2 2 1 1 1 3 2 3 2 3 6 4 1 3 1 3 2 1 2 3 2 2 1 5
## [2233] 2 2 3 5 3 2 6 1 3 2 1 2 3 2 2 3 1 4 1 1 3 5 3 2
## [2257] 2 2 1 2 1 2 2 1 3 2 1 1 2 1 4 1 1 2 2 2 1 3 2 1
## [2281] 1 2 5 2 2 5 2 1 3 3 3 2 1 2 1 2 1 1 3 2 2 3 1 1
## [2305] 3 3 2 2 3 2 2 1 2 2 2 3 2 2 3 2 4 2 3 1 1 4 2 2
## [2329] 1 2 1 2 2 2 2 4 3 2 3 1 2 4 1 1 2 2 2 3 1 3 1 3 1
## [2353] 1 2 2 1 3 2 2 5 2 2 4 3 2 1 2 3 3 1 1 2 4 1 1 1
## [2377] 2 2 3 3 1 2 2 5 1 3 1 2 3 1 1 2 3 3 1 1 3 2 3 2
## [2401] 1 2 4 3 3 2 2 2 2 3 2 2 3 1 1 2 1 2 3 1 2 3 3 2
## [2425] 2 2 2 1 1 2 4 2 2 3 2 5 2 2 1 2 2 2 2 1 2 3 2 3 2
## [2449] 1 1 2 1 1 2 2 2 1 2 3 1 2 3 1 2 3 1 3 2 1 1 7 3
## [2473] 1 2 2 2 3 3 2 2 1 2 1 2 2 2 2 4 2 5 1 2 1 3 2 1
## [2497] 1 1 4 2 2 1 2 2 3 1 2 2 1 1 4 1 2 1 1 1 2 4 1 1 1
## [2521] 1 1 2 1 3 1 1 1 2 3 2 3 1 2 2 2 2 2 1 2 2 1 2 2 1
## [2545] 2 4 1 1 3 2 2 2 1 1 2 1 1 3 2 2 2 2 1 1 2 1 2 2 2
## [2569] 2 1 2 1 2 2 2 1 3 1 3 3 1 2 3 1 2 2 2 2 1 2 1 2 1 1

```

```

## [2593] 3 6 2 2 2 4 1 2 1 2 1 1 3 2 2 2 5 1 1 1 1 3 3
## [2617] 2 1 2 3 1 2 2 1 3 2 2 1 3 4 3 2 2 3 3 2 2 3 2 2
## [2641] 3 2 2 1 1 2 2 3 1 1 1 2 2 3 2 2 3 1 2 3 2 1 1 3
## [2665] 1 1 2 1 1 2 2 2 1 2 2 2 1 1 1 1 1 3 1 2 2 3 1 1
## [2689] 2 1 5 2 1 1 1 2 2 3 1 2 2 2 2 1 2 2 1 2 2 1 3 2 2
## [2713] 4 2 3 2 2 1 2 1 1 2 3 2 1 1 2 2 2 2 3 5 2 1 1 2 1
## [2737] 2 2 4 2 5 3 1 2 2 2 2 2 2 2 1 2 2 2 1 1 2 2 2 3
## [2761] 1 1 2 1 4 3 2 1 2 3 3 2 2 3 1 3 1 1 1 2 1 3 2 1 2
## [2785] 3 2 3 3 2 2 2 1 2 2 2 2 2 3 2 3 2 1 2 1 5 1 2 2
## [2809] 2 1 1 2 1 2 3 1 2 2 2 2 4 1 4 2 3 2 2 2 1 1 5 3 2 2
## [2833] 2 2 1 2 3 1 2 1 2 2 2 1 1 2 1 1 1 3 1 2 1 2 1 2 2 2
## [2857] 2 3 2 1 4 1 2 2 1 1 1 1 1 2 2 2 1 1 2 2 2 2 2 2 2
## [2881] 2 3 1 2 1 2 3 2 2 2 2 3 1 3 3 2 3 2 5 3 2 1 1 2 1 2
## [2905] 1 2 2 3 2 1 2 3 1 3 2 1 1 2 2 2 2 3 1 1 1 2 2 1 1 2
## [2929] 3 2 3 2 2 1 3 1 1 3 1 1 2 1 3 1 2 4 2 1 2 3 2 1 2 1
## [2953] 2 2 1 2 1 2 1 1 3 2 3 1 2 2 2 2 1 2 1 1 2 3 2 1 2 3 2
## [2977] 2 2 1 3 2 4 2 3 2 4 4 2 2 2 2 1 3 1 2 3 2 2 2 1 3 3
## [3001] 2 3 3 1 1 2 3 2 1 1 3 2 2 3 2 4 2 3 1 5 1 1 1 2 2 2
## [3025] 1 3 2 2 1 2 3 1 2 1 2 1 1 2 2 2 2 1 1 2 2 2 2 2 2
## [3049] 2 2 2 1 3 4 2 1 1 2 2 3 2 2 2 2 5 2 3 3 2 2 2 3 2 1
## [3073] 1 3 2 1 4 2 1 2 2 2 2 2 2 3 5 2 1 1 1 4 2 1 1 1 4
## [3097] 2 1 1 1 2 2 2 3 2 2 3 1 2 3 2 2 2 2 1 1 2 1 1 2 1 1
## [3121] 1 1 2 1 2 2 1 1 2 2 2 3 2 1 1 1 1 2 2 2 1 2 2 1 2 2 1
## [3145] 1 1 2 1 1 1 2 1 2 2 2 4 4 1 2 3 2 2 2 2 2 2 1 2 1 2
## [3169] 2 1 3 1 1 3 2 2 5 4 2 3 1 2 1 3 4 2 1 2 3 2 2 2 1 3
## [3193] 6 3 3 1 2 1 2 1 1 1 2 4 2 2 2 3 3 3 2 1 1 1 1 1 2
## [3217] 1 1 2 1 3 1 3 2 1 2 2 3 2 2 2 2 3 1 1 6 2 2 2 1 1 3
## [3241] 1 2 2 1 1 3 2 2 2 1 2 2 2 1 1 1 2 2 1 3 4 1 1 2 2 2
## [3265] 1 1 1 1 1 2 1 2 1 1 2 4 3 2 2 4 2 1 3 2 2 1 2 1 2 1
## [3289] 2 2 2 1 1 2 2 2 1 2 1 1 2 2 3 2 2 4 2 1 2 1 1 2 1 2
## [3313] 2 1 1 1 1 2 3 3 1 3 2 2 2 1 2 2 2 1 2 3 3 1 2 2 2 1
## [3337] 1 1 3 2 2 4 3 2 2 1 2 2 2 2 4 1 3 2 2 2 2 1 1 1 2
## [3361] 1 3 2 2 2 2 1 2 1 1 3 4 2 2 2 2 2 1 3 3 2 1 2 1 2 2
## [3385] 2 1 1 2 2 3 2 2 3 2 2 1 1 4 1 1 1 2 2 2 2 2 2 2 2 2
## [3409] 3 4 2 3 1 3 2 3 1 3 2 1 2 1 1 1 3 1 2 2 2 1 2 1 2 1 1
## [3433] 2 1 2 1 1 2 1 2 2 2 2 1 2 3 2 2 1 3 2 2 2 1 3 1 2 1 2
## [3457] 1 1 2 3 1 2 2 2 2 2 3 2 2 2 2 3 1 3 2 1 2 1 2 1 4 2
## [3481] 2 1 1 1 2 2 2 1 3 1 1 2 2 2 2 1 3 3 3 1 1 1 2 3 2 3
## [3505] 2 2 1 3 1 1 2 1 2 3 1 1 2 2 2 2 1 1 2 1 2 1 2 2 2 2
## [3529] 2 1 2 2 2 2 1 2 2 2 1 2 2 2 1 3 2 2 2 2 1 1 2 1 2 1
## [3553] 2 1 2 3 2 1 2 1 1 1 1 2 2 3 2 3 2 1 2 2 2 1 5 2
## [3577] 2 1 1 2 4 1 1 2 2 1 2 3 1 2 2 1 2 1 3 2 2 3 1 1 1 2
## [3601] 2 2 2 2 2 5 3 2 1 1 2 5 1 1 2 1 2 4 2 1 2 2 2 1 1 1
## [3625] 2 2 2 1 2 1 1 3 1 1 2 2 2 1 1 1 3 1 2 2 2 2 1 2 1 2
## [3649] 2 1 2 2 2 2 2 2 2 1 1 2 2 2 1 2 2 4 2 2 2 5 1 2 2
## [3673] 2 1 1 2 2 2 1 1 2 1 3 2 2 2 2 3 1 1 2 1 2 2 1 2 1 2
## [3697] 3 2 2 2 2 2 1 2 2 2 1 1 3 2 1 2 1 2 1 2 1 1 3 2 2 2 1
## [3721] 2 1 1 2 1 2 1 2 1 1 1 2 3 1 1 2 2 2 3 1 1 2 2 2 1 2 2 2
## [3745] 4 2 3 2 1 2 1 2 3 2 1 2 1 2 2 2 2 3 3 4 3 3 2 2 2
## [3769] 1 2 2 1 1 4 2 2 2 1 3 2 2 2 2 1 2 2 2 2 2 1 1 3 2
## [3793] 3 1 3 2 1 1 1 2 3 1 2 2 2 2 1 1 2 1 2 1 3 4 1 3 1 1 2
## [3817] 3 2 2 3 3 1 1 3 2 2 4 2 1 1 1 2 2 2 1 1 2 1 2 1 2 2 2 1
## [3841] 2 1 2 2 2 2 1 1 2 1 2 4 1 2 4 2 1 2 4 2 1 2 1 1 2 3 2 2 2
## [3865] 2 2 2 2 2 3 2 2 3 2 1 4 2 1 2 4 2 5 1 2 3 3 2 2 2

```

```

## [3889] 2 3 3 1 1 1 1 1 1 2 1 2 1 4 1 1 1 1 3 1 2 1 2 1 1 2 1 1 1 1 1 2 1 1 2
## [3913] 1 1 2 3 1 4 2 2 2 2 2 2 3 2 2 2 3 2 2 2 1 2 2 1 2 2 1 1 2 2 1 1 1
## [3937] 2 1 2 4 1 2 1 2 1 1 2 1 2 3 1 3 1 3 1 1 1 1 1 1 1 2 2 2 2 2 1 1 1
## [3961] 2 1 2 1 3 2 2 2 3 2 3 2 3 2 2 3 1 1 1 1 1 1 2 2 2 2 2 2 3 1
## [3985] 2 3 3 2 1 2 4 3 2 4 2 1 3 1 5 2 5 2 2 2 2 2 1 1 1 2 2 2 1 1 1 1
## [4009] 1 2 1 2 1 1 2 2 2 2 1 2 1 3 3 1 1 1 2 2 2 1 3 4 1 1 1 1
## [4033] 2 1 2 1 1 3 2 2 2 3 3 1 2 2 2 3 1 2 2 2 4 1 2 2 2 1
## [4057] 4 2 4 2 1 1 3 3 2 2 1 3 2 2 2 3 3 2 3 2 2 1
## [4081] 3 2 1 3 2 1 1 1 1 2 5 3 2 2 2 1 1 2 2 2 1 2 3 2 2 2 1
## [4105] 2 2 3 2 3 2 2 2 2 1 2 4 1 1 1 2 1 2 1 2 2 2 1 2 2 2 1 1
## [4129] 1 3 3 2 2 2 3 2 1 2 5 5 5 1 1 2 2 4 2 2 2 1 2 2 1 1
## [4153] 2 2 2 2 2 2 1 1 2 2 2 3 3 1 2 4 2 2 2 1 2 2 2 1 6
## [4177] 2 1 2 2 2 1 2 3 3 2 1 1 2 2 2 2 3 3 3 3 3 1 3 3 1
## [4201] 1 1 1 1 2 1 1 2 3 1 2 2 1 1 2 2 2 1 3 3 3 1 1 1 2 1
## [4225] 3 2 3 2 2 2 1 2 1 2 1 2 3 2 3 1 2 3 1 1 2 3 1 1 2 2 2
## [4249] 2 2 1 1 3 3 1 3 2 2 4 2 1 1 2 2 2 3 2 2 2 1 2 2 1 2
## [4273] 1 2 3 1 2 3 1 3 3 2 2 3 3 1 4 2 3 2 2 2 2 1 2 3
## [4297] 2 1 1 2 1 1 2 1 2 1 3 2 2 1 4 1 2 3 2 2 3 1 3 2
## [4321] 1 1 1 1 2 1 3 3 2 1 1 2 2 1 2 1 1 1 2 1 1 1 1 1
## [4345] 3 2 1 1 3 2 2 2 1 3 2 5 2 2 1 1 1 1 3 1 2 2 1 2 1 2
## [4369] 3 2 1 2 1 2 1 2 1 1 2 2 2 2 1 2 2 2 2 1 1 4 2 3 3
## [4393] 2 1 2 3 2 1 1 3 2 1 2 1 2 1 1 2 4 3 2 1 1 2 1 3
## [4417] 1 3 2 3 1 2 2 3 2 3 2 1 2 2 2 2 1 1 1 1 1 1 1 2 2
## [4441] 2 1 1 2 2 1 1 2 2 3 3 1 2 3 3 2 3 1 2 2 3 2 2 1
## [4465] 3 2 6 1 2 3 2 1 1 2 2 2 2 2 1 1 3 2 1 2 2 1 1 2 2 2
## [4489] 3 2 1 1 1 2 4 1 2 2 3 2 3 1 1 3 1 1 2 2 2 1 1 2 1 2
## [4513] 2 1 1 2 1 1 2 2 2 1 2 1 2 1 2 2 2 1 1 2 2 2 5 2 1 1
## [4537] 2 2 1 3 2 2 1 1 2 1 2 1 1 2 2 2 1 1 2 2 2 2 2 1 1
## [4561] 2 2 1 2 2 2 2 2 2 3 2 1 2 2 2 1 2 2 2 1 2 2 2 3 2
## [4585] 1 2 2 2 1 3 2 1 1 1 1 2 1 1 4 1 1 1 2 2 1 1 1 1
## [4609] 1 4 2 1 2 2 2 1 1 2 1 1 2 2 2 1 2 1 1 2 2 2 1 2 2 1
## [4633] 1 2 2 2 2 2 1 1 2 1 2 2 2 2 2 1 2 2 2 2 1 2 1 1 1
## [4657] 2 2 2 3 2 2 2 1 2 1 2 4 1 1 2 2 2 1 1 3 2 1 2 1 2 1 2
## [4681] 2 2 1 1 3 2 1 2 1 1 1 1 1 1 2 3 2 2 2 2 1 2 1 2 1 2
## [4705] 2 1 1 1 2 2 1 1 3 2 1 2 2 2 3 1 1 2 1 2 2 3 2 1 2 1 2
## [4729] 1 1 2 2 2 3 2 2 2 1 3 2 2 2 2 2 2 1 1 1 2 2 2 4 2
## [4753] 2 1 2 1 1 1 1 1 2 2 2 1 2 1 2 2 1 2 1 2 1 1 2 1 2 1 2
## [4777] 2 2 2 1 1 2 2 2 1 2 2 2 1 2 1 2 1 1 2 2 2 2 1 2 1 2 1
## [4801] 2 1 2 2 2 2 1 2 3 1 2 1 2 2 2 1 1 1 1 1 2 2 2 2
## [4825] 2 1 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 1 1 2 2 2 2
## [4849] 1 2 2 2 1 1 2 1 1 2 1 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 1
## [4873] 1 1 2 2 1 1 2 1 2 2 2 2 2 1 2 1 1 2 1 5 2 2 2 1 2 1
## [4897] 1 2 2 2 1 2 3 2 2 2 2 1 2 1 2 2 2 1 2 3 1 2 2 2 2
## [4921] 2 1 3 1 1 2 2 2 1 2 1 1 1 1 2 1 2 2 2 2 2 2 1 2 2 2
## [4945] 2 2 1 3 2 2 1 2 2 2 1 2 2 2 1 1 2 1 1 1 2 1 1 1 3 2
## [4969] 2 2 3 2 1 2 2 1 1 2 1 2 2 1 2 2 2 1 1 1 1 1 1 1 1 1 1
## [4993] 2 2 1 2 2 1 5 2 1 2 1 1 2 3 2 1 1 1 1 2 2 2 1 2 1 2 1 2
## [5017] 1 2 1 2 1 1 1 2 2 2 2 2 2 1 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2
## [5041] 1 1 1 1 2 1 3 1 2 2 2 2 2 2 1 1 2 1 1 2 1 1 2 1 1 3 1
## [5065] 2 1 2 2 2 1 2 2 2 2 2 2 2 1 2 2 2 3 2 2 2 2 1 2 2 1 2 1
## [5089] 2 2 2 1 1 1 2 2 1 1 2 2 2 1 2 2 2 1 1 1 1 1 2 2 2 2 1 1
## [5113] 2 2 2 2 2 2 1 1 2 1 2 1 1 2 1 1 1 2 1 2 2 2 1 1 2 1 2 1 1
## [5137] 1 2 1 1 3 1 1 1 3 2 2 2 1 1 1 1 1 2 2 2 2 3 2 2 2 2 1 1
## [5161] 1 2 1 2 2 2 1 2 2 2 1 1 2 2 3 2 2 2 2 1 1

```

```

## [5185] 2 2 2 2 2 2 2 3 2 1 1 2 1 1 2 2 2 2 2 2 1 1 2 2 2 2 2 2 2 2 2
## [5209] 2 1 1 1 2 1 1 1 1 1 2 2 1 2 1 2 2 2 2 3 2 2 2 3 1 1 2 1 2 2 1
## [5233] 2 2 2 2 1 1 1 1 2 2 2 2 2 3 1 3 2 2 2 3 1 1 2 2 2 2 2 2 2 2 2
## [5257] 2 2 1 2 2 1 2 2 3 2 1 1 2 2 2 2 1 2 2 2 2 2 2 2 1 1 1 1 1 1 2
## [5281] 1 2 2 2 1 2 1 2 1 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 1 1 2 1 2 1 2 2
## [5305] 2 1 1 1 1 1 2 1 2 1 1 2 1 2 1 2 2 2 2 2 2 2 1 1 1 1 1 1 1 2
## [5329] 1 2 2 2 1 1 1 1 2 1 1 2 1 1 2 2 2 2 1 2 2 2 2 2 2 2 2 1 1 1 1
## [5353] 2 1 1 1 1 1 2 1 2 1 1 1 2 1 3 1 1 1 1 1 1 2 2 3 1
## [5377] 2 1 1 2 2 2 2 1 2 2 2 1 1 2 1 2 1 1 1 1 1 2 2 2 2 1 1 1 2 2 1 1
## [5401] 2 1 2 2 2 2 2 1 2 1 2 2 2 2 1 1 2 1 2 2 2 3 2 2 2 2 3 2 2 2 2
## [5425] 1 2 1 2 2 2 2 1 2 2 2 2 1 2 1 2 1 1 1 2 1 2 1 1 1 2 1 1 1 1 2
## [5449] 1 2 2 1 1 2 1 2 1 2 2 1 2 2 2 1 2 1 1 1 1 2 1 2 1 1 2 1 1 1 2
## [5473] 2 2 1 2 2 1 2 2 1 2 2 1 2 1 2 2 1 2 2 2 1 2 2 2 1 1 2 2 2 2 1 1
## [5497] 2 2 2 1 2 2 2 2 1 2 2 2 3 2 2 1 4 2 1 2 2 1 2 2 1 1 2 1 1 1 2
## [5521] 2 2 2 2 1 2 1 1 2 2 2 2 3 1 2 1 2 2 2 1 1 1 1 1 2 2 2 1 1 1 2 2
## [5545] 2 2 2 2 2 2 2 1 2 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1
## [5569] 2 1 2 1 2 1 2 2 1 1 2 2 2 2 1 2 1 1 1 1 1 2 2 2 1 1 2 2 2 2 1 2
## [5593] 2 2 2 1 1 2 2 1 2 1 2 2 1 2 2 2 3 2 1 2 1 1 1 1 2 1 1 1 1 1 2
## [5617] 3 1 1 2 1 2 3 1 2 1 2 1 2 1 2 2 1 1 1 1 1 2 2 1 1 2 2 1 1 2 2 2
## [5641] 2 2 1 2 2 2 1 1 1 1 1 1 2 2 1 1 2 3 1 1 2 1 1 1 2 1 1 1 1 2 2 2
## [5665] 1 1 2 2 1 2 1 1 2 1 1 2 1 1 2 2 1 1 2 1 1 1 2 1 1 2 1 1 1 2 1 1
## [5689] 2 1 2 2 2 2 2 1 1 1 2 2 1 1 1 2 2 2 1 1 1 1 2 1 2 1 1 1 2 1 1 2
## [5713] 1 1 2 2 2 2 1 2 1 2 2 2 2 1 1 2 2 3 1 1 1 3 1 1 3 1 1 3 1 1 3 1
## [5737] 2 1 1 1 2 2 2 1 2 1 2 2 2 1 2 2 2 1 3 2 2 2 2 2 2 2 2 2 2 2 2 2
## [5761] 2 2 2 1 1 1 1 2 1 1 2 1 1 2 2 2 2 1 2 2 3 1 1 2 3 1 1 2 3 1 1 2
## [5785] 2 1 1 3 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 1 2 2 1 2 2 1 2 2 1 2 1
## [5809] 3 2 2 1 1 2 1 1 1 3 2 1 2 2 3 1 2 1 2 2 2 1 1 2 2 2 2 1 1 2 1 1
## [5833] 1 3 1 2 1 2 1 2 1 2 2 2 2 1 2 1 2 1 2 2 2 1 1 1 2 1 1 1 1 1 1 1
## [5857] 2 2 3 2 2 1 2 1 1 2 2 2 2 1 1 3 1 1 1 2 2 1 2 2 1 2 2 1 2 2 1 2
## [5881] 2 2 1 2 1 2 1 1 2 2 2 2 1 2 2 2 1 2 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1
## [5905] 2 2 1 2 2 2 1 2 2 2 2 1 3 1 2 1 4 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2
## [5929] 2 2 2 1 2 2 1 2 1 2 2 2 2 2 2 2 1 1 3 2 2 2 1 2 2 2 1 2 2 2 2 2
## [5953] 2 2 2 2 3 3 2 2 2 2 1 1 1 1 1 1 2 3 2 2 1 2 2 3 1 1 2 3 1 1 3 1
## [5977] 2 2 2 1 1 2 1 1 2 1 2 1 2 1 1 1 1 2 1 2 2 1 2 2 2 1 2 2 2 1 1 1
## [6001] 2 1 2 2 1 1 1 1 1 3 1 2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2
## [6025] 1 2 2 2 2 2 2 1 1 1 1 2 1 2 1 2 2 2 1 1 1 1 1 2 3 1 1 2 2 2 2 2
## [6049] 3 2 1 2 2 2 2 1 2 4 2 2 1 1 1 2 1 1 1 2 1 1 1 2 2 2 2 2 2 2 2 2
## [6073] 2 2 1 2 3 2 2 1 2 2 2 2 2 2 2 2 1 1 1 1 1 2 2 1 1 1 2 2 1 1 1 2
## [6097] 1 2 2 1 3 1 2 1 2 2 2 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 2 2 1 1 2 1 2
## [6121] 2 3 2 2 2 2 1 1 1 2 1 2 1 1 2 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 1
## [6145] 2 2 2 2 2 2 2 1 2 1 2 1 1 1 2 2 2 1 1 2 2 2 1 2 2 3 3 3 1 2
## [6169] 2 2 2 2 2 2 2 2 1 1 1 1 2 2 2 5 2 2 2 2 2 2 1 2 1 2 2 1 2 1 2 1 2
## [6193] 1 2 3 3 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2
## [6217] 2 2 2 2 2 2 1 2 2 2 1 1 2 2 2 1 2 2 2 2 1 1 1 1 2 1 1 2 1 2 1 2 1
## [6241] 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 1 2 2 2 1 2 2 2 1 1 1 2 1 1 2 1 1 2
## [6265] 1 2 2 2 1 2 1 2 2 2 2 1 2 1 2 2 2 2 1 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1
## [6289] 1 1 2 1 1 1 2 2 1 2 2 2 1 2 2 2 2 1 2 2 2 1 2 2 3 2 1 1 1 1 2 1 1 1 2
## [6313] 1 1 2 2 2 1 2 1 2 1 2 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [6337] 1 1 1 2 2 1 2 1 2 2 2 2 1 1 1 1 1 1 1 1 1 2 2 1 1 1 2 1 1 1 2 1 1 1 1
## [6361] 2 2 2 2 2 2 2 1 2 2 2 1 1 1 1 1 1 1 1 1 2 1 2 1 1 1 2 1 1 1 2 2 1 1 1 2
## [6385] 3 2 2 2 2 2 1 1 2 2 2 2 2 2 2 3 2 1 2 2 2 1 1 3 2 2 2 2 2 1 1 2 2 1 1 2
## [6409] 1 2 2 2 2 1 2 1 2 2 1 1 1 2 2 2 2 1 1 1 2 1 1 1 2 2 2 1 1 2 2 2 2 2 2 2
## [6433] 2 2 2 2 2 1 1 1 2 2 2 2 2 2 2 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2
## [6457] 2 1 1 3 2 1 1 2 1 2 1 2 2 2 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
```

```

## [6481] 1 1 2 1 1 2 1 1 2 2 1 2 1 1 2 1 1 2 3 1 2 1 3 1 2 1 3 1
## [6505] 2 2 2 1 2 2 2 3 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
## [6529] 2 2 2 2 1 1 2 2 2 2 3 2 2 2 1 2 1 1 1 2 2 2 2 2 1 2 2 1 2
## [6553] 1 2 1 1 2 2 3 3 2 1 1 2 1 1 2 1 1 2 3 1 1 2 2 2 1 2 2 2 2
## [6577] 1 1 1 2 1 1 2 1 2 1 2 2 2 2 1 2 1 2 2 1 2 2 1 2 2 2 2 2 2
## [6601] 1 1 2 2 1 2 3 2 2 2 2 1 2 2 2 3 2 1 2 2 2 3 2 1 2 2 2 3 2 2
## [6625] 2 2 2 2 2 2 1 2 2 1 2 2 2 1 1 2 2 2 2 2 1 2 2 2 2 2 2 2 2
## [6649] 2 2 2 2 2 1 2 1 1 2 2 2 1 2 2 2 1 1 1 1 2 1 2 1 1 2 1 1 1
## [6673] 1 1 2 2 1 1 1 1 2 2 1 1 1 2 1 2 1 2 1 2 1 2 2 2 1 2 2 1 1 1
## [6697] 2 2 2 1 2 1 2 2 2 2 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 1 2 1 2 1 2
## [6721] 1 2 2 1 2 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 2 2 2 2 1 1 1 1 1 1 1
## [6745] 2 1 2 2 2 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 2
## [6769] 2 2 2 2 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2 2 2 1 2 1 3
## [6793] 1 2 1 1 2 1 1 1 2 3 1 1 1 2 1 1 2 2 2 1 1 1 2 2 2 1 1 2 2 1 2
## [6817] 1 2 1 2 2 1 1 1 2 2 2 2 1 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2
## [6841] 1 2 2 1 2 2 2 2 3 2 2 1 2 1 1 1 1 1 1 2 2 2 1 2 2 2 1 2 2 2 1
## [6865] 2 2 3 2 1 1 1 2 2 2 1 1 1 2 3 1 1 2 1 1 1 1 2 2 1 1 1 1 2 2 2
## [6889] 3 1 2 1 2 2 2 2 2 2 1 1 1 2 2 1 1 2 1 1 1 1 3 1 1 2 2 1 1 2 2 1
## [6913] 1 2 1 2 1 1 2 2 2 2 3 1 2 2 1 2 1 2 1 3 2 1 1 1 1 1 1 1 1 1 1
## [6937] 2 2 1 2 2 2 2 2 2 1 1 1 2 2 2 2 2 1 1 1 1 1 3 2 1 2 1 2 1 2 1
## [6961] 2 1 2 1 2 1 1 1 1 1 1 2 2 2 2 2 1 1 1 2 2 2 1 1 1 1 1 1 2 1 2 1
## [6985] 2 2 2 2 2 2 2 1 2 2 1 2 2 2 1 2 2 2 2 1 2 2 2 1 1 2 2 1 1 1 1 1
## [7009] 2 2 1 2 2 2 1 2 1 1 1 1 1 2 2 2 1 2 2 2 1 2 2 2 1 1 1 1 1 1 1 2
## [7033] 2 2 2 2 2 2 3 2 2 2 2 1 1 2 1 1 2 1 1 2 3 2 1 2 1 2 4 2 1
## [7057] 2 1 3 1 2 4 2 2 2 3 2 3 2 1 2 1 2 1 2 1 1 2 2 2 2 2 2 2 2 2 2
## [7081] 1 2 1 1 2 2 1 2 2 1 1 1 1 1 2 2 1 2 1 2 2 2 2 2 2 2 2 1 1 1 1 1
## [7105] 2 2 2 2 2 1 2 2 2 2 2 2 1 1 1 1 2 2 2 2 1 1 1 2 2 2 1 1 1 2 2 1
## [7129] 2 1 2 1 2 1 1 2 1 2 1 2 2 2 2 1 1 1 2 3 1 1 1 2 2 2 1 1 1 1 1 1
## [7153] 1 2 2 2 1 1 2 1 1 2 2 1 1 2 2 1 1 2 2 2 2 2 2 1 1 1 1 1 1 1 1 2
## [7177] 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 2 2 1 1 1 1 1
## [7201] 1 2 1 1 2 2 1 1 1 2 2 2 3 2 2 2 1 2 1 2 1 2 1 2 1 2 1 2 2 2 2 2
## [7225] 2 1 1 2 1 2 2 2 3 2 1 1 1 2 2 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 2 2
## [7249] 1 2 2 2 2 2 2 1 2 1 1 2 2 1 1 1 2 2 1 1 1 1 1 1 1 2 1 2 2 2 2 2
## [7273] 1 3 1 2 1 1 2 2 1 2 2 3 1 2 2 2 2 2 2 1 1 1 1 1 1 2 1 1 1 1 1 1
## [7297] 2 1 1 2 1 2 2 1 1 1 2 2 2 1 1 2 2 2 1 2 2 1 2 2 1 2 2 1 2 1 1 1
## [7321] 2 2 2 2 1 1 1 2 2 1 1 1 2 2 2 1 1 2 2 2 1 2 2 2 1 1 1 2 2 4 1
## [7345] 2 1 2 1 1 3 1 2 3 2 3 2 2 1 1 2 1 2 1 1 1 1 1 1 1 2 2 2 2 2 2 2
## [7369] 2 2 1 1 2 1 1 1 2 2 2 1 2 1 2 1 1 2 2 2 2 2 2 3 2 1 2 1 1 1 2 1
## [7393] 2 2 1 2 1 1 1 2 2 1 2 1 1 2 1 1 1 2 1 1 1 1 2 2 2 1 1 1 2 2 2 1
## [7417] 2 2 2 1 2 1 2 1 1 1 1 1 2 2 2 2 3 2 1 3 1 1 1 1 1 2 1 1 2 1
## [7441] 2 1 1 1 1 1 1 1 1 2 2 1 1 2 1 1 2 1 2 2 1 1 1 1 1 2 2 2 1 1 2 1 2
## [7465] 1 2 1 2 2 2 2 1 1 2 2 2 2 2 2 2 1 1 2 2 1 1 1 2 2 2 1 2 2 1 2 2 1
## [7489] 2 2 2 1 1 1 2 2 1 2 2 2 2 2 2 2 1 2 2 1 1 1 1 2 1 1 1 2 1 1 2 2 2
## [7513] 1 1 1 2 2 2 2 2 2 2 2 2 2 2 1 2 1 2 3 1 1 2 2 2 1 1 1 2 2 1 1 1 1
## [7537] 3 1 1 2 2 1 2 1 1 2 1 2 1 2 1 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 1 1 2
## [7561] 2 2 2 2 2 1 1 2 2 3 1 1 1 2 2 2 2 2 1 2 1 1 1 1 2 2 2 1 1 1 2 2 1 1
## [7585] 1 2 1 2 1 2 2 3 2 1 1 1 2 2 2 2 2 2 1 2 1 1 1 2 2 2 1 1 2 1 1 1 1
## [7609] 2 2 2 2 2 1 2 2 2 2 2 2 2 1 1 1 1 1 1 2 2 2 3 1 1 1 1 2 2 2 1 1 2
## [7633] 1 2 2 3 2 2 1 1 2 2 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 2 1 2
## [7657] 1 2 2 2 2 1 1 2 2 2 2 2 1 1 2 1 2 1 2 2 2 1 2 2 1 1 2 2 1 2 1 2 1
## [7681] 1 3 2 2 1 2 2 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 1 1 2 2 2 3 1 2 1 2 1
## [7705] 2 1 2 2 2 1 3 2 1 2 2 1 2 1 1 2 3 1 1 1 2 1 2 1 2 1 2 1 2 1 2 2 2
## [7729] 2 1 2 1 1 2 2 2 2 1 2 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [7753] 1 2 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 2 1 2 1 2 1 2 2 2 1 2 2 2
```

```

## [7777] 2 2 2 1 2 2 2 2 1 2 2 2 2 1 1 2 2 2 2 1 2 1 2 1 2 1 2 1 2
## [7801] 1 1 2 1 2 2 2 2 2 1 2 2 2 2 2 1 4 1 2 1 2 2 1 2 2 1 1 1 2 1
## [7825] 2 2 3 1 2 1 2 1 2 1 1 2 1 2 2 2 2 2 2 1 1 1 2 2 1 1 1 2 1 1
## [7849] 2 2 2 2 1 2 1 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 1 3 1
## [7873] 2 1 3 1 1 3 2 2 2 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 1
## [7897] 2 2 1 2 2 2 2 1 1 2 2 2 1 2 2 2 1 1 2 1 1 2 2 2 1 2 1 3 1
## [7921] 2 1 2 1 2 1 1 2 2 1 1 1 2 2 2 1 1 3 1 1 1 2 2 2 2 2 2 1 1
## [7945] 2 2 1 1 2 1 1 1 1 2 1 1 1 2 1 1 2 1 2 1 1 2 2 1 1 2 1 1 1 2
## [7969] 1 1 2 1 1 1 1 2 2 1 1 2 1 2 2 1 1 2 2 2 1 1 2 2 2 2 1 2 1 2
## [7993] 1 1 2 1 1 2 1 2 1 1 2 2 2 1 3 2 2 2 2 2 2 2 2 2 2 1 1 1 2
## [8017] 1 1 1 2 1 2 1 2 1 3 1 2 2 2 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1
## [8041] 1 1 1 1 1 1 1 4 1 1 2 2 2 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 2
## [8065] 2 1 1 2 2 2 2 2 1 2 2 2 1 2 2 1 2 2 1 1 1 3 2 1 2 1 1 1 1 1
## [8089] 2 2 2 3 3 1 2 1 1 1 2 2 2 1 2 2 2 1 2 3 2 1 2 1 1 2 1 1 2 1 1
## [8113] 1 1 2 2 2 1 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 1 3 2 2 2 2
## [8137] 2 1 1 1 2 1 2 2 1 2 1 1 2 2 2 1 1 2 2 2 2 2 1 2 2 1 2 2 1 2
## [8161] 1 2 2 2 1 2 1 2 1 2 2 2 1 2 2 2 1 2 2 2 1 1 2 1 1 2 2 2 1 2
## [8185] 2 1 1 2 2 1 2 2 1 2 1 1 2 2 2 3 2 1 2 2 2 1 1 3 1
## [8209] 1 1 1 2 2 2 1 2 1 2 1 2 2 2 1 2 2 2 1 2 1 2 1 1 2 1 1 2 1
## [8233] 2 2 2 2 2 1 2 1 2 2 2 1 1 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 2
## [8257] 2 2 2 1 2 1 2 2 2 2 2 1 2 1 2 1 1 1 2 2 2 2 1 2 2 2 1 2 1 2
## [8281] 1 2 2 2 2 1 2 2 2 1 2 2 1 2 2 1 1 2 2 2 1 1 2 2 2 2 2 2 1 1
## [8305] 2 2 2 1 1 2 1 1 1 1 1 1 1 1 2 1 1 2 2 2 2 2 2 2 2 2 1 2
## [8329] 1 2 2 2 3 1 2 2 2 1 2 1 2 1 2 1 1 2 2 2 1 1 1 2 2 2 1 1 1 1
## [8353] 1 2 2 2 1 2 1 1 1 2 2 2 1 1 1 2 1 1 2 1 1 2 2 2 1 1 2 2 1 2
## [8377] 1 1 1 1 1 1 2 2 1 1 1 2 2 2 2 2 2 2 1 1 2 1 1 2 1 1 2 1 1 1
## [8401] 1 2 2 2 2 2 2 1 1 1 1 1 3 1 1 1 2 2 2 2 1 2 2 2 2 2 2 2 1 2
## [8425] 1 2 2 2 1 2 1 1 2 1 2 2 1 2 2 2 1 2 2 2 1 1 1 2 2 2 1 1 1 2
## [8449] 1 2 2 1 1 1 2 2 2 1 2 2 1 2 2 1 1 2 3 2 2 2 1 2 2 2 1 1 1 1
## [8473] 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 2 3 1 1 1 1 3 1 1 1 1 1 2
## [8497] 2 1 1 2 1 2 2 2 1 1 1 1 2 1 1 1 2 1 1 2 1 1 2 2 1 1 1 1 1 1
## [8521] 1 1 2 1 1 1 2 1 1 2 2 2 1 2 2 2 1 2 2 2 1 1 2 2 2 1 1 1 2 2
## [8545] 2 2 2 2 1 2 2 2 2 2 1 2 1 2 1 2 2 2 2 2 2 2 1 2 2 2 1 2 1 3
## [8569] 2 2 2 2 2 2 1 1 1 2 2 2 1 1 1 1 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1
## [8593] 2 1 1 5 2 2 2 2 2 2 1 2 2 2 1 2 2 1 2 2 1 2 1 1 2 1 1 2 1 1 2 2
## [8617] 1 1 2 2 1 2 2 2 2 1 1 2 2 2 2 1 2 2 2 1 2 1 3 1 2 2 1 1 1 1 2
## [8641] 2 2 2 1 1 2 2 1 1 2 1 1 2 2 1 1 2 1 1 1 1 1 1 1 1 1 2 2 2 2
## [8665] 1 2 1 1 2 1 2 2 2 2 2 1 1 2 2 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2
## [8689] 2 2 1 2 1 2 2 2 2 2 2 2 2 2 2 1 2 1 1 1 1 1 2 1 1 1 1 2 1 1 2
## [8713] 1 2 2 1 2 2 2 1 2 2 2 2 2 2 2 2 1 2 2 2 2 2 2 2 2 2 1 2 1
## [8737] 2 2 1 2 2 1 1 1 2 3 2 1 2 1 2 1 1 2 2 2 2 2 1 1 2 1 1 2 2 2 2
## [8761] 2 2 1 2 2 2 2 1 2 3 2 2 2 2 2 2 1 2 2 1 2 2 2 2 2 1 1 2 2 1 1 1
## [8785] 2 1 1 1 1 1 1 1 1 2 1 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 1 2 2 2 2 2
## [8809] 2 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 1 3 2 1 1 1 2 2 2 2 1 2 2 2
## [8833] 2 2 2 2 3 1 2 1 1 1 2 1 2 1 2 2 1 1 2 2 1 1 1 2 2 2 2 1 2 2 2
## [8857] 1 2 2 2 2 1 1 1 2 1 2 1 1 2 1 2 1 2 2 2 3 2 2 2 2 2 3 2 2 2 2
## [8881] 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 1 1 2 1 1 2 1 3 2 2 2 2 2 1
## [8905] 2 1 2 2 2 1 2 2 2 1 1 2 1 2 1 2 1 1 2 2 2 2 2 2 2 2 2 2 1 2
## [8929] 2 2 2 2 1 2 1 1 1 2 2 2 2 2 2 1 2 2 2 1 2 2 2 2 2 1 2 2 2 1 2 1
## [8953] 2 1 1 1 2 2 2 1 2 1 2 2 2 1 2 2 2 1 2 2 2 1 1 2 1 1 2 1 1 2 2 2
## [8977] 3 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 2 2 2 2 1 1 1 1 2 2 2 4 1 1 1
## [9001] 1 1 2 4 1 1 2 1 1 1 1 2 2 2 2 1 2 1 2 1 2 1 1 1 2 1 1 1 1 2 2 2
## [9025] 1 2 4 2 2 1 2 1 1 1 1 1 2 1 2 4 2 2 2 1 2 2 2 2 2 2 2 2 1 1
## [9049] 1 1 5 2 1 2 1 2 2 1 3 2 2 2 2 3 3 2 2 2 1 1 2 3 2 2 1 1 2 3 2 1

```

```

## [9073] 2 2 1 1 1 1 2 2 2 2 1 2 2 2 1 2 2 1 1 2 1 2 1 2 1 2 2 2
## [9097] 2 1 2 3 1 2 2 1 2 2 2 2 1 2 2 2 2 2 2 2 2 2 1 2 1 2 1 1
## [9121] 1 2 2 1 1 1 1 2 2 2 2 1 2 1 1 2 2 2 2 2 2 1 2 1 2 1 1 1
## [9145] 2 1 2 2 2 1 2 1 2 2 2 1 1 2 2 2 1 2 2 2 1 1 2 1 1 2 2 1
## [9169] 2 2 2 2 2 1 1 2 1 1 2 2 2 2 2 1 1 2 2 2 1 1 2 1 2 1 1 2 2
## [9193] 2 2 2 2 2 1 2 1 2 2 1 2 3 2 1 2 1 2 2 2 1 1 2 1 1 1 1 1 2
## [9217] 2 1 1 1 2 2 1 2 2 2 2 2 2 1 2 1 1 2 1 3 1 1 1 2 1 2 1
## [9241] 2 2 1 1 2 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 2 1 2 1 2 1 2 1 2
## [9265] 4 1 1 2 1 2 1 2 2 2 1 2 2 3 2 1 2 2 4 2 1 2 2 1 2 2 1 1
## [9289] 1 2 2 2 1 2 1 1 1 2 2 2 2 2 1 1 2 1 1 2 2 2 1 1 2 2 2 2 1
## [9313] 2 2 2 2 1 2 1 1 2 2 2 2 1 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1
## [9337] 1 1 1 2 1 1 1 2 1 1 2 2 1 2 1 2 2 1 2 2 2 1 2 1 2 1 2 1
## [9361] 1 1 1 2 1 1 2 2 2 2 1 1 2 1 1 2 2 2 2 1 2 2 1 1 2 1 1 1 1
## [9385] 2 1 2 2 2 2 2 2 2 1 2 1 1 2 3 1 2 2 1 1 2 2 2 1 1 2 2 2 2
## [9409] 2 2 1 1 2 2 2 1 2 1 1 1 2 1 2 2 2 1 2 2 2 1 2 2 1 2 2 2 2
## [9433] 1 2 1 2 2 1 1 2 1 1 1 1 2 2 2 2 2 1 2 2 2 1 2 2 1 2 2 1
## [9457] 1 2 1 2 2 2 1 1 2 2 1 1 2 1 2 2 2 1 2 2 2 1 2 2 1 2 3 1 1
## [9481] 2 2 2 2 1 1 1 1 1 2 1 1 2 1 1 1 2 1 2 1 1 4 2 3
## [9505] 2 3 1 2 2 1 1 2 1 2 2 2 1 3 1 2 2 1 3 1 2 2 1 2 2 2 1 2 1
## [9529] 1 1 2 1 1 1 2 1 2 1 2 2 1 1 2 2 1 1 2 1 1 3 1 1 2 1 1 1 1
## [9553] 2 1 2 2 1 2 1 1 3 1 2 2 1 2 3 1 1 2 1 2 2 2 1 2 2 2 1 1 1
## [9577] 2 1 3 2 2 2 2 1 1 1 2 3 1 2 1 3 1 2 2 1 3 1 2 2 2 2 2 2 2
## [9601] 2 1 1 2 2 2 2 2 2 2 1 2 2 2 2 1 2 2 2 1 1 2 2 2 1 1 1 1 1
## [9625] 2 2 2 2 1 2 2 2 2 2 1 1 1 1 2 1 3 1 3 1 3 1 2 1 2 2 1 2 2
## [9649] 2 1 2 2 2 1 2 3 2 2 1 1 1 1 1 1 2 2 2 2 2 2 1 1 2 2 2 1
## [9673] 2 2 2 2 2 1 1 2 1 2 1 3 1 1 3 2 1 2 2 2 1 2 2 2 1 2 1 2 1
## [9697] 1 1 1 2 2 2 1 2 2 1 2 1 2 2 2 3 1 1 2 1 1 1 2 1 1 2 2 1
## [9721] 1 2 2 1 2 1 2 1 2 2 2 2 1 2 1 1 2 1 2 2 2 1 1 2 2 1 1 2 2 1
## [9745] 1 2 2 2 2 2 2 1 2 1 2 1 1 2 2 2 2 2 2 1 2 2 2 2 1 2 2 2 1
## [9769] 1 1 2 2 2 2 2 2 1 1 1 1 1 2 2 2 4 2 1 1 1 2 2 2 1 2 2 2 2
## [9793] 2 1 1 2 2 2 2 1 2 2 2 2 2 2 1 2 2 2 2 1 2 2 2 1 2 2 2 1
## [9817] 3 3 2 2 2 2 2 3 2 2 1 1 2 1 1 2 1 2 2 3 2 2 2 3 2 2 3 2
## [9841] 2 2 2 1 1 2 2 2 2 2 2 2 3 1 2 2 2 1 2 1 2 1 2 1 2 1 2 2 2
## [9865] 1 2 1 1 2 1 2 1 1 1 1 2 2 2 2 2 2 2 2 1 2 1 3 2
## [9889] 1 2 2 1 3 1 2 2 2 2 2 1 2 2 2 1 1 2 2 2 1 2 2 2 1 2 2 1
## [9913] 2 2 2 1 2 2 2 2 2 2 2 2 1 2 2 2 1 2 2 2 2 2 1 2 2 2 2 1 2 2
## [9937] 1 2 1 2 1 1 2 2 1 2 2 2 1 1 1 1 2 1 2 1 2 2 2 2 1 2 2 2 2
## [9961] 2 1 1 2 2 2 2 1 2 2 2 2 1 2 1 2 2 2 1 2 2 2 1 2 1 2 1 2 1
## [9985] 2 2 2 1 1 1 2 2 2 1 1 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1
## [10009] 2 2 2 1 1 2 1 2 2 2 1 1 1 1 1 1 1 2 2 2 2 2 1 2 2 2 1 1
## [10033] 1 2 1 2 2 1 2 2 2 2 1 1 1 2 2 2 2 2 2 1 2 2 2 1 2 2 2 1
## [10057] 1 2 2 2 1 2 2 2 2 1 2 2 2 2 2 2 2 2 1 1 2 2 2 2 2 2 2 2
## [10081] 2 3 1 2 1 2 1 1 1 1 2 2 2 1 1 1 2 2 2 2 2 2 2 2 2 2 2 1
## [10105] 3 1 2 2 1 2 2 2 1 2 1 2 2 2 2 2 4 1 2 2 2 2 2 1 1 1 1 1
## [10129] 1 1 1 1 1 2 1 2 2 1 1 2 2 2 2 1 1 2 2 2 1 1 2 2 2 1 2 2 1
## [10153] 2 2 2 1 1 2 2 2 2 1 1 1 2 2 2 1 1 1 1 1 1 1 2 2 2 1 1 1 1
## [10177] 2 2 2 2 2 2 2 2 1 1 1 2 2 2 1 1 1 3 2 2 2 1 1 2 1 1 1 1
## [10201] 2 2 2 1 1 2 2 2 1 1 2 2 3 1 2 2 2 2 1 2 1 2 2 2 2 2 2 2 2
## [10225] 2 1 1 2 2 1 2 2 2 2 1 1 1 1 1 1 1 1 1 2 1 2 1 2 1 2 1 2 1
## [10249] 1 2 2 2 2 2 1 2 2 1 1 2 2 2 2 2 5 2 2 2 2 1 1 1 1 1 1 1 2
## [10273] 3 2 1 2 2 2 2 2 1 1 2 1 2 2 2 2 1 2 1 2 1 1 1 1 1 1 1 1 1
## [10297] 1 1 1 1 2 2 2 2 1 3 1 2 2 2 2 1 2 2 2 1 1 2 2 2 1 3 1 1 2
## [10321] 1 1 2 2 2 1 1 1 2 1 2 1 2 2 2 2 1 1 1 1 1 1 2 1 2 1 2 2 2
## [10345] 2 1 1 2 1 2 2 1 2 2 1 2 1 1 2 2 3 2 1 1 1 1 2 1 2 2 1 1 1

```

```

## [10369] 2 1 1 1 3 2 2 2 1 2 1 2 2 1 1 1 2 1 1 1 2 1 1 1 2 1 2 2 1 1 1 1 2 1 2 2 2
## [10393] 1 1 2 2 2 2 1 2 1 1 1 2 1 1 1 2 2 2 1 1 1 2 2 1 1 1 2 2 3 1 3
## [10417] 1 1 1 2 2 2 2 2 1 1 1 2 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 2 1
## [10441] 1 1 1 2 2 1 1 2 2 2 2 2 1 1 1 1 1 2 2 1 1 1 2 2 1 1 2 2 2 2
## [10465] 2 2 1 2 2 2 1 2 1 1 1 1 1 1 1 2 2 1 1 1 2 2 2 1 1 2 2 2 2 2 2
## [10489] 2 2 2 1 2 2 1 2 2 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 2 2 2 2
## [10513] 1 1 2 1 1 2 2 1 2 1 2 1 1 1 1 2 2 1 1 1 2 2 2 1 1 2 2 2 2 1 2
## [10537] 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 2 2 2 1 1 1 2 2 1 1 2 2 1 2 1 1
## [10561] 1 2 1 1 2 2 2 1 1 2 1 1 1 1 1 2 2 1 1 1 2 2 1 1 2 1 1 2 2 2 1 1
## [10585] 2 2 2 1 3 1 1 1 2 4 1 1 1 1 1 2 2 2 1 1 1 2 1 1 2 2 1 1 2 2 1 1
## [10609] 2 1 1 2 2 2 2 2 2 1 2 2 1 2 2 1 2 1 2 1 2 1 1 1 1 1 1 2 2 2 2
## [10633] 2 2 2 2 2 1 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 1 2 1 1 1 2 2 2 2
## [10657] 2 1 2 2 2 1 2 1 2 2 2 2 2 2 2 1 2 2 2 2 2 1 1 1 1 1 1 2 2 2 1
## [10681] 2 1 2 2 2 2 2 2 1 2 2 2 1 2 2 1 2 2 1 2 2 1 3 2 2 2 1 2 1 2
## [10705] 2 1 2 2 1 2 2 1 1 2 1 2 1 3 4 1 1 1 2 1 2 1 2 1 2 1 2 2 2 2
## [10729] 2 2 1 1 2 2 1 1 1 2 2 1 3 2 1 2 2 2 1 3 3 1 2 2 2 1 3 3 1 2 2
## [10753] 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 3 2 2 2 2 1 2 2 2 1 2
## [10777] 1 1 2 2 2 2 2 1 1 1 1 2 1 2 2 1 2 1 1 1 1 1 1 1 2 2 1 2 1 2 2
## [10801] 1 2 2 1 1 2 1 2 2 2 2 1 2 2 2 1 2 2 2 1 2 3 2 2 2 1 2 3 2 2 1 1 2
## [10825] 1 2 2 2 1 2 1 2 2 2 2 2 2 2 2 3 2 2 2 2 1 2 1 1 1 1 1 2 1 1 1 1
## [10849] 2 2 2 2 1 2 1 2 3 2 1 1 1 1 2 1 2 1 2 1 1 2 2 2 2 1 2 2 2 1 1 1
## [10873] 2 2 1 2 2 2 2 2 1 2 2 1 2 2 1 2 2 2 1 2 1 1 1 1 2 2 2 2 1 2 2 2
## [10897] 2 2 2 2 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 2 1 2 2 2 1 2 2 2 1
## [10921] 2 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 1 1 1 1 1 2 2 2 2 1 2
## [10945] 1 2 1 2 2 1 2 2 2 1 1 2 1 3 2 2 2 1 1 1 2 2 1 2 2 1 2 2 1 2 1 1
## [10969] 1 2 2 1 2 2 2 1 2 2 1 2 2 1 2 2 2 1 2 2 2 1 2 2 1 2 2 1 2 1 2
## [10993] 1 2 2 2 1 2 2 1 2 1 2 1 1 1 1 2 2 2 2 2 2 2 1 2 2 1 2 2 2 1 2 2
## [11017] 2 2 1 1 1 1 1 3 2 2 2 2 1 1 3 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2
## [11041] 1 2 1 1 1 2 1 1 2 2 1 2 2 1 2 1 1 1 2 1 2 2 3 1 2 2 1 2 2 2 2 2
## [11065] 2 1 1 1 1 2 2 2 1 1 2 1 1 3 2 1 1 1 2 2 2 1 2 2 2 1 2 2 2 1 2 1
## [11089] 1 2 1 1 3 2 2 1 1 2 2 1 3 1 2 1 2 2 2 1 2 2 2 1 1 2 3 2 1 2 3 2
## [11113] 2 2 2 2 2 2 2 2 2 2 2 1 2 2 2 3 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2
## [11137] 2 1 2 2 2 3 2 2 2 2 1 2 2 2 2 1 2 2 2 1 2 1 2 2 2 2 2 2 2 1 2 1
## [11161] 1 2 2 2 1 1 1 1 2 2 2 2 1 2 1 1 1 2 1 1 1 2 2 2 2 2 2 2 2 2 2 2
## [11185] 2 2 3 1 1 2 3 2 1 1 2 2 1 1 2 1 1 2 1 1 2 1 1 2 2 2 2 2 2 2 2 1
## [11209] 2 1 2 2 2 2 1 1 1 2 2 2 2 1 2 2 2 2 1 2 2 2 1 2 2 2 2 2 2 2 2 2
## [11233] 1 2 2 1 2 2 3 1 2 2 2 1 1 3 1 2 2 2 2 2 1 2 2 2 2 1 1 1 1 1 2
## [11257] 3 1 2 2 1 2 1 2 1 1 1 1 3 2 2 1 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2
## [11281] 1 2 1 1 1 2 1 1 2 1 1 2 1 2 2 2 1 2 2 2 1 2 2 2 2 2 2 1 1 1 1 1
## [11305] 2 3 2 2 1 1 2 2 4 2 2 2 1 2 2 2 1 2 2 2 1 2 1 1 1 1 1 1 1 1 1 1
## [11329] 2 4 2 2 1 3 1 2 3 1 1 3 2 1 2 1 1 2 2 2 1 1 2 2 2 1 1 1 2 1 1 2
## [11353] 2 1 2 1 2 2 1 1 2 1 2 1 2 1 2 2 2 1 2 2 2 1 2 2 1 2 2 2 1 2 2 2
## [11377] 2 2 2 1 1 2 2 1 2 2 1 2 2 2 1 2 2 2 2 1 3 2 1 2 2 2 1 1 2 2 1 1 1
## [11401] 3 1 1 1 1 2 1 2 2 2 2 2 2 2 1 2 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 1 2
## [11425] 1 2 2 2 1 1 2 1 1 2 1 2 1 1 2 2 1 1 2 2 1 1 1 2 2 1 3 3 2 2 2
## [11449] 1 2 1 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 2 2 2 2 1 2 2
## [11473] 1 2 2 2 2 2 1 2 1 1 1 1 1 1 2 2 2 2 1 2 2 2 1 2 2 2 2 1 1 1 1 2
## [11497] 2 2 2 1 1 2 1 1 2 1 2 1 2 1 2 1 1 2 1 1 2 2 2 1 1 1 1 1 1 1 1 2
## [11521] 2 3 1 2 1 1 1 2 1 1 2 1 1 2 2 2 2 2 2 1 2 2 2 1 2 2 2 1 1 1 1 1
## [11545] 1 2 1 2 1 1 2 1 2 2 3 1 2 2 2 2 2 2 1 1 1 2 2 2 2 2 1 1 2 2 2 2
## [11569] 2 2 2 1 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 4 2 2 2 2 2 2 2 2
## [11593] 2 2 3 2 1 1 2 1 1 4 2 1 1 1 2 1 2 1 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2
## [11617] 2 1 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 3 2 2 2 2 1 1 2 2 2 2 1 1 1 2
## [11641] 2 1 2 2 1 2 3 2 2 2 2 2 2 2 2 2 2 1 1 2 2 2 2 1 2 2 2 1 2 3

```

```

## [11665] 2 2 2 2 1 2 1 1 2 1 2 1 1 2 2 2 2 2 2 2 2 1 2 1 2 1
## [11689] 2 1 2 2 1 1 1 1 1 2 2 1 2 1 2 1 2 1 2 1 1 2 2 1 1 2
## [11713] 2 1 1 1 1 2 2 2 2 1 3 2 4 2 3 2 2 2 1 2 2 2 2 2 1
## [11737] 2 2 2 3 2 2 2 1 2 2 1 2 1 1 2 2 2 2 1 1 2 2 2 2 2
## [11761] 1 2 1 1 1 1 1 1 2 1 1 1 2 1 1 2 1 1 1 2 2 2 1 2 1
## [11785] 1 1 2 1 2 2 1 2 2 2 1 2 2 2 1 2 2 2 2 1 2 2 2 2 1
## [11809] 1 1 2 2 1 2 2 1 1 2 2 1 1 2 2 1 1 2 2 1 2 2 2 2 1
## [11833] 1 1 1 3 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 1 2 2 2 2
## [11857] 2 1 2 1 2 2 1 2 2 2 1 1 2 1 2 1 2 1 2 1 2 2 1 2 1
## [11881] 1 2 2 1 2 2 2 1 1 1 2 1 2 1 2 1 2 1 2 2 2 2 2 2 1
## [11905] 1 2 2 2 2 2 3 2 2 2 2 2 3 3 2 2 2 2 2 1 2 1 2 1 2
## [11929] 2 2 1 2 2 1 2 2 2 2 2 1 2 2 2 2 2 2 2 1 2 1 2 1 1
## [11953] 2 2 1 2 2 2 1 2 1 2 1 2 1 2 1 2 2 2 2 1 2 2 2 1 2
## [11977] 1 1 1 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 1 2 2 2 1 1
## [12001] 1 2 2 2 2 2 1 1 1 2 2 1 1 1 2 1 1 1 2 1 1 2 2 2 1
## [12025] 2 1 2 2 1 1 1 2 2 1 2 2 2 1 2 1 2 1 1 1 1 2 2 1 1
## [12049] 1 1 1 2 2 2 1 2 2 2 2 2 2 1 1 1 1 1 1 2 2 2 1 2 2
## [12073] 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1
## [12097] 1 2 1 2 1 2 2 2 2 2 1 1 2 2 1 1 2 2 2 1 1 1 1 1 2
## [12121] 1 1 2 1 1 1 1 2 1 2 2 2 4 2 2 2 2 2 2 1 2 2 2 1 1
## [12145] 2 2 1 1 1 2 2 1 1 1 1 2 1 2 2 1 2 1 2 1 1 2 1 1 2
## [12169] 1 2 2 1 1 2 1 2 1 1 2 1 1 2 1 2 1 2 2 2 2 3 2 1 1
## [12193] 2 1 2 1 2 1 2 2 2 2 2 1 1 2 2 2 1 2 2 2 1 2 2 1 1
## [12217] 1 1 1 1 2 2 1 2 2 2 2 2 2 1 2 2 2 1 2 2 2 2 2 1 2
## [12241] 1 1 1 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 2 1 2 1 2
## [12265] 2 2 2 1 2 2 2 2 1 2 2 2 2 1 2 2 2 2 2 2 2 1 2 2 1
## [12289] 2 2 2 2 2 1 2 2 2 2 1 1 1 2 1 1 1 2 2 2 1 1 1 2 1
## [12313] 2 2 4 2 1 1 1 2 2 2 1 1 2 1 2 1 1 2 2 2 2 1 3 1 3
## [12337] 2 1 1 2 2 1 1 2 3 2 2 1 1 2 2 2 2 2 2 2 1 2 1 2 2
## [12361] 1 1 1 1 1 2 2 2 1 1 2 1 2 2 2 1 2 2 2 1 1 2 1 1 2
## [12385] 2 2 2 2 2 2 2 1 2 1 1 2 2 2 1 2 2 5 2 1 2 2 2 2 1
## [12409] 2 1 1 1 2 1 1 1 1 2 2 1 2 1 1 1 1 3 1 2 1 1 1 1 1
## [12433] 1 2 1 2 1 1 2 2 1 3 1 1 2 1 1 2 2 2 1 2 1 2 1 2 2
## [12457] 1 2 1 2 1 2 2 2 2 1 2 2 2 1 1 3 1 1 3 2 1 2 2 2 2
## [12481] 1 2 1 2 2 2 1 1 1 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1
## [12505] 2 1 1 1 2 1 2 2 1 2 2 3 1 2 2 2 1 2 2 2 1 1 2 1 1
## [12529] 2 2 2 2 2 2 2 1 2 2 2 1 2 2 1 1 1 1 2 1 3 2 1 2 1
## [12553] 2 2 2 1 2 1 1 1 2 1 2 1 2 1 2 1 1 1 1 2 2 2 2 1
## [12577] 2 2 2 2 3 1 2 2 2 1 1 2 2 2 2 2 1 2 1 2 1 2 1 2 1
## [12601] 1 2 1 2 2 1 2 2 2 2 2 1 1 2 4 2 2 1 2 1 1 1 1 1 2
## [12625] 1 2 2 2 2 2 2 1 2 2 2 1 2 1 2 2 2 1 2 1 2 2 1 2 1
## [12649] 2 1 2 1 1 1 2 2 1 2 2 1 2 1 3 1 1 2 1 2 1 1 1 1 1
## [12673] 2 1 1 1 2 1 2 2 1 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 1
## [12697] 2 1 2 2 1 2 1 2 2 2 2 1 2 2 2 1 2 2 2 2 2 1 2 2 2
## [12721] 1 2 1 2 2 2 2 2 2 1 2 2 1 2 2 2 1 2 2 2 1 2 2 2 3
## [12745] 2 2 2 1 1 2 2 2 1 1 1 2 1 1 2 2 2 1 2 2 2 1 2 2 2
## [12769] 2 2 1 2 2 1 1 2 1 2 1 1 2 2 2 1 1 2 1 2 2 1 1 2 2
## [12793] 1 1 2 2 2 2 2 2 1 2 2 2 2 2 1 2 3 1 1 1 1 2 2 2 2
## [12817] 2 2 1 1 1 2 2 1 2 2 1 2 2 1 2 2 2 2 2 1 2 1 2 2 2
## [12841] 2 1 2 1 1 1 2 1 2 2 2 1 1 1 2 4 1 2 2 2 1 2 2 1 2 2
## [12865] 2 2 2 3 2 2 1 1 4 2 1 2 2 2 2 1 2 2 2 1 1 1 1 2 2
## [12889] 2 2 2 3 2 2 3 2 2 2 2 2 2 2 2 1 2 3 1 2 1 2 2 1 2 1
## [12913] 1 2 2 2 2 2 2 1 2 1 1 2 2 2 1 2 2 2 1 2 2 2 1 2 1 1
## [12937] 1 2 1 1 2 1 2 2 2 1 2 2 2 1 2 1 1 2 2 2 1 2 1 2 2 2

```

```

## [12961] 1 2 1 2 1 1 2 2 1 1 2 2 2 1 2 2 1 2 2 1 2 1 2 2 1 2 2
## [12985] 2 2 1 1 1 2 2 2 2 1 2 2 4 1 1 1 1 2 1 3 2 2 1 1
## [13009] 1 1 1 1 2 1 2 2 1 1 2 2 2 1 1 1 1 2 1 2 2 1 1 2
## [13033] 1 2 2 2 2 2 1 1 2 2 2 1 2 4 1 2 1 1 1 2 2 2 1 1
## [13057] 2 2 2 1 2 2 3 2 2 3 2 2 3 2 1 1 2 2 2 1 1 1 1 1
## [13081] 1 1 2 2 2 1 2 2 2 1 3 3 2 1 1 2 1 1 1 1 2 2 2 2
## [13105] 2 2 3 1 3 1 2 2 2 2 1 1 2 1 2 2 1 1 1 1 1 1 1 2
## [13129] 2 1 3 1 2 3 1 1 4 2 2 2 2 1 2 1 2 2 1 1 1 1 1 2
## [13153] 2 1 2 2 2 2 1 1 1 2 1 2 2 1 2 2 3 2 2 2 2 1 2 1
## [13177] 2 1 2 1 2 2 1 1 2 1 1 1 1 1 1 2 1 2 2 2 2 2 2 1
## [13201] 2 2 1 2 2 2 2 1 2 2 2 1 2 2 2 2 1 2 1 2 2 1 2 1 2
## [13225] 2 1 2 1 2 2 2 1 2 1 1 1 1 2 2 2 1 2 1 2 1 2 1 1 1
## [13249] 1 1 2 2 2 1 1 2 2 1 2 1 2 1 2 1 2 2 2 2 2 1 1 1
## [13273] 2 2 2 1 2 1 1 1 1 1 1 1 2 1 1 2 2 2 2 1 2 1 2 2
## [13297] 2 1 2 2 2 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

#smallest sample size
min_sample<-min(rowSums(mic))

#rarefy the sample

rarefy(mic, sample = min_sample)

## [1] 7.773921 5.370971 6.485036 6.539075 4.046645 6.708364 7.429084 5.309043
## [9] 6.699387 5.000000 5.465098 3.884097 5.140224 6.379685 6.277813 7.817195
## [17] 8.399071 5.884722 6.251297 6.669179 6.407344 6.052241 2.811658 6.479747
## [25] 4.666286 6.923034 4.193814 6.363182 4.318191 5.859706 5.896032 3.741542
## [33] 5.145261 4.926464 6.680708 5.178487 3.931275 5.331473 4.762779 5.102336
## [41] 3.422453 7.664692 3.454337 6.097896 6.421955 4.245334 6.538155 4.525203
## [49] 5.133074 7.010168 5.116802 6.981848 6.255891 3.341599 6.540182 4.891458
## [57] 6.354157 6.214968 3.843267 3.543453 5.292546 5.747638 5.765574 5.170586
## [65] 5.052227 3.790954 5.564203 4.631964 4.466073 5.126999 6.275494 5.336814
## [73] 4.064665 4.394011 4.047386 3.719899 5.887457 3.717218 2.929245 3.477690
## [81] 3.129294 4.669775 1.930381 4.496634 3.490943 3.746591 1.382022 3.760794
## [89] 5.186259 4.273573 2.346087 1.000000 2.678390 3.413438 2.307806 2.897578
## [97] 3.684264 2.763803 1.500000 3.382104 3.602819 1.000000 4.088329 4.283211
## [105] 2.391166 2.512155 3.081299 2.702185 3.121402 2.100299 4.037231 4.462058
## [113] 2.671143 2.689724 1.770405 3.425575 4.055761 5.490848 5.988959 3.691625
## [121] 2.623532 2.646326 4.222422 2.679917 3.440389 3.137827 3.139982 1.623604
## [129] 4.655660 3.115459 1.336545 2.732053 1.801027 2.179353 2.461456 1.246377
## [137] 2.633997 1.881452 1.930574 3.234585 1.340958 1.118881 2.222910 2.666255
## [145] 1.748527 1.000000 2.634509 3.464704 2.862950 4.081040 2.561106 2.524716
## [153] 4.084866 3.775498 2.413148 2.538150 2.270729 2.571607 2.007861 2.385573
## [161] 2.934721 2.454300 1.206061 3.220589 1.919061 1.566095 2.778842 1.271006
## [169] 2.880989 2.210331 3.925424 3.590296 2.076447 2.308161 1.944667 3.425346
## [177] 1.644387 4.232430 3.389033 2.011751 1.818031 1.868064 1.183784 1.916572
## [185] 2.327179 2.255725 2.642575 2.441890 2.976978 2.412605 1.873154 1.564000
## [193] 1.984998 1.827854 1.621797 1.650955 1.494069 1.857649 1.698593 2.002254
## [201] 2.010562 2.633839 3.636347 1.320606 2.979405 1.305665 2.470510 1.972262
## [209] 1.385262 1.687689 1.864755 1.771124 1.825621 2.289779 1.078704 2.206502
## [217] 3.706413 2.172069 2.300770 1.784359 3.059524 1.852850 1.269140 1.832739
## [225] 1.876447 1.878363 2.145720 3.833795 1.480029 2.366965 2.391949 2.753408
## [233] 2.382572 1.406331 2.111841 1.283333 1.775808 2.171672 2.736302 2.638475

```

```

## [241] 1.370854 1.505981 1.069672 1.193322 1.812054 1.727882 2.098430 1.331702
## [249] 1.595803 1.641729 1.196555 2.032518 1.829246 1.499425 1.915768 1.995055
## [257] 1.704046 1.894707 1.469346 1.923306 1.888836 2.543082 2.494584 1.710456
## [265] 1.507708 2.457799 1.843576 1.749369 1.275810 1.517765 1.678315 1.239209
## [273] 1.418036 2.032838 1.356025 1.670528 1.575940 1.121429 1.396758 1.408869
## [281] 1.648539 1.264731 1.660959 1.556453 1.059441 2.004988 1.473318 1.800818
## [289] 1.740244 1.341480 2.814100 1.223500 1.282162 1.168623 1.754089 2.094695
## [297] 2.274463 1.725939 1.776916 2.081364 1.607005 2.513783 1.588780 1.111111
## [305] 1.203469 1.403979 1.569419 1.500527 1.904843 1.725538 1.643595 1.666777
## [313] 1.626642 1.664564 1.479023 1.453329 1.688905 1.418255 3.130869 1.661585
## [321] 1.304390 1.589206 1.350699 1.052308 1.427484 2.250134 1.389172 1.774243
## [329] 1.356726 1.298738 2.132545 1.285482 2.253776 1.000000 1.294428 1.314136
## [337] 1.463693 1.097640 1.674438 1.414709 2.473846 1.261211 1.260548 1.458919
## [345] 1.288384 1.393904 2.459466 1.579734 1.319565 1.724040 1.185148 1.511933
## [353] 1.366354 1.322038 1.705893 1.617828 3.093710 1.141274 1.524586 1.000000
## [361] 1.228168 2.579175 1.964876 1.303321 1.326117 1.630713 1.137838 1.561634
## [369] 1.563731 1.677982 2.652782 1.784889 1.405433 2.294669 1.528559 1.221218
## [377] 1.264459 1.504664 1.461217 1.131300 1.322140 1.000000 1.908483 1.378855
## [385] 1.561306 1.402383 1.276990 1.000000 1.210533 1.292893 1.896556 1.252838
## [393] 1.410209 1.336009 1.123042 1.210274 1.195191 1.169154 1.228122 1.705202
## [401] 1.000000 1.346983 1.794984 1.646846 1.706744 1.244360 1.255992 1.202614
## [409] 1.082725 1.000000 1.894442 1.499293 1.535636 1.162679 1.271490 1.307373
## [417] 1.079593 1.526795 1.380487 1.119044 1.078854 1.300568 1.080000 1.301920
## [425] 1.233724 1.000000 1.114233 1.340884 1.000000 1.437397 1.117512 1.112969
## [433] 1.298768 1.000000 1.153483 1.395786 1.709430 1.330231 1.348504 1.434335
## [441] 1.000000 1.478552 1.298872 1.578184 1.319331 1.183154 1.184095 1.532645
## [449] 1.255764 1.386775 1.270567 1.360344 1.465378 1.382544 1.375050 1.146538
## [457] 1.356567 1.771676 1.251640 1.145286 1.570204 1.142198 1.248295 1.820758
## [465] 1.263260 1.278505 1.306203 1.505333 1.036170 1.072034 1.237395 1.106160
## [473] 1.000000 1.138718 1.369006 1.173218 1.376400 1.310000 1.133921 1.168448
## [481] 1.241563 1.207872 1.132876 1.201491 1.196776 1.236928 1.268141 1.233864
## [489] 1.429749 2.244831 1.402450 1.101918 1.000000 1.169246 1.166762 1.264509
## [497] 1.098762 1.158532 1.282816 1.571671 1.316407 1.525446 1.378240 1.406047
## [505] 1.193408 1.100196 1.337663 1.261628 1.065492 1.131264 1.354237 1.462945
## [513] 1.258025 1.000000 1.000000 1.000000 1.032819 1.285444 1.065259 1.337027
## [521] 1.511922 1.281425 1.428371 1.249970 1.032319 1.095434 1.150415 1.158515
## [529] 1.155380 1.062947 1.000000 1.121280 1.247688 1.250567 1.000000 1.485456
## [537] 1.296562 1.468603 1.183512 1.181429 1.241444 1.385939 1.208379 1.439080
## [545] 1.062157 1.000000 1.196980 1.061818 1.182015 1.000000 1.288919 1.061372
## [553] 1.151455 1.351180 1.551248 1.307780 1.252378 1.256722 1.175455 1.264707
## [561] 1.145163 1.147392 1.175918 1.118874 1.230795 1.059015 1.088635 1.370010
## [569] 1.000000 1.059441 1.171951 1.086245 1.000000 1.314902 1.256435 1.309241
## [577] 1.335573 1.692314 1.383993 1.085094 1.115443 1.029160 1.274667 1.167482
## [585] 1.029010 1.245212 1.115059 1.225139 1.268512 1.192546 1.246863 1.113327
## [593] 1.167265 1.111446 1.362912 1.242091 1.321393 1.056667 1.139235 1.438099
## [601] 1.056385 1.325109 1.083417 1.406692 1.207243 1.449494 1.083607 1.027915
## [609] 1.263500 1.296906 1.162471 1.366536 1.237666 1.105821 1.081811 1.027553
## [617] 1.367093 1.132292 1.234831 1.303890 1.210773 1.208485 1.134660 1.358659
## [625] 1.206820 1.208491 1.200533 1.000000 1.477373 1.078545 1.294137 1.194729
## [633] 1.489808 1.156730 1.130833 1.240894 1.403342 1.053125 1.230981 1.078657
## [641] 1.151293 1.427423 1.103799 1.154359 1.205729 1.000000 1.077817 1.254598
## [649] 1.000000 1.000000 1.125833 1.148866 1.176579 1.173312 1.025915 1.195827
## [657] 1.051593 1.126360 1.249877 1.388388 1.165795 1.025641 1.173418 1.101796
## [665] 1.101644 1.050288 1.196167 1.074204 1.209789 1.363113 1.100143 1.025260

```

```

## [673] 1.405904 1.489632 1.145720 1.488896 1.411310 1.143427 1.220094 1.122927
## [681] 1.000000 1.024890 1.209577 1.000000 1.024781 1.256805 1.000000 1.260954
## [689] 1.096435 1.094638 1.192891 1.121391 1.215750 1.048851 1.000000 1.165463
## [697] 1.184370 1.249208 1.096728 1.233044 1.000000 1.142438 1.140659 1.203187
## [705] 1.211625 1.428333 1.297125 1.141266 1.273148 1.023910 1.161038 1.296168
## [713] 1.154621 1.000000 1.000000 1.069362 1.318560 1.091091 1.336929 1.295469
## [721] 1.264683 1.000000 1.138893 1.046832 1.115416 1.023384 1.113112 1.268823
## [729] 1.222202 1.046448 1.158287 1.135251 1.248402 1.046196 1.137156 1.158198
## [737] 1.068919 1.265327 1.135450 1.175597 1.068056 1.209512 1.177750 1.287236
## [745] 1.156809 1.299380 1.000000 1.000000 1.195787 1.000000 1.196221 1.066126
## [753] 1.111663 1.066896 1.109050 1.000000 1.153902 1.175698 1.000000 1.106548
## [761] 1.132523 1.108979 1.109754 1.147649 1.152783 1.022164 1.128798 1.273351
## [769] 1.214215 1.129643 1.319604 1.129314 1.108355 1.230437 1.145663 1.294358
## [777] 1.000000 1.000000 1.273445 1.190450 1.064608 1.334392 1.000000 1.084987
## [785] 1.364673 1.326340 1.104751 1.288878 1.127017 1.084778 1.021465 1.164957
## [793] 1.287501 1.187610 1.125651 1.085000 1.105562 1.144916 1.203586 1.124882
## [801] 1.186014 1.063354 1.264751 1.021118 1.041713 1.062625 1.041611 1.061651
## [809] 1.102786 1.351838 1.141851 1.062167 1.164447 1.120414 1.082216 1.041565
## [817] 1.080431 1.000000 1.179697 1.061566 1.117508 1.121607 1.153007 1.120548
## [825] 1.137268 1.218440 1.000000 1.140569 1.286661 1.020457 1.178318 1.180008
## [833] 1.249812 1.120271 1.020335 1.079801 1.197326 1.040090 1.100329 1.120187
## [841] 1.099712 1.079998 1.114606 1.000000 1.039762 1.235179 1.059623 1.058808
## [849] 1.155389 1.134842 1.324748 1.098442 1.117273 1.097852 1.136591 1.097259
## [857] 1.117102 1.059233 1.019767 1.116700 1.059028 1.148981 1.134635 1.000000
## [865] 1.038853 1.058688 1.330973 1.113201 1.370380 1.038991 1.114895 1.206657
## [873] 1.019451 1.112452 1.110633 1.224959 1.019362 1.038636 1.219918 1.076226
## [881] 1.057344 1.019253 1.038070 1.019209 1.150258 1.295940 1.093261 1.038202
## [889] 1.132134 1.113500 1.163134 1.074881 1.074799 1.018994 1.037904 1.130787
## [897] 1.221467 1.130167 1.037736 1.018868 1.248691 1.093385 1.166132 1.163392
## [905] 1.000000 1.018743 1.018722 1.123409 1.055594 1.128800 1.267567 1.109824
## [913] 1.018600 1.092169 1.109791 1.162880 1.109236 1.299293 1.054994 1.054301
## [921] 1.108770 1.018418 1.018398 1.018378 1.000000 1.091300 1.106247 1.072648
## [929] 1.018280 1.000000 1.106707 1.036403 1.220489 1.000000 1.018162 1.054004
## [937] 1.210220 1.036170 1.071804 1.000000 1.035749 1.405006 1.000000 1.000000
## [945] 1.071352 1.086416 1.088089 1.052729 1.035451 1.070386 1.189770 1.105878
## [953] 1.085806 1.225939 1.104965 1.052297 1.000000 1.052190 1.104534 1.017690
## [961] 1.380511 1.208298 1.201167 1.000000 1.254062 1.153816 1.000000 1.017544
## [969] 1.017526 1.034979 1.052074 1.068819 1.204041 1.101290 1.085051 1.069104
## [977] 1.000000 1.000000 1.181551 1.068824 1.034588 1.101574 1.017276 1.017259
## [985] 1.118308 1.067858 1.000000 1.068272 1.118110 1.050535 1.000000 1.017120
## [993] 1.163677 1.083465 1.117411 1.260955 1.034034 1.083667 1.050627 1.183637
## [1001] 1.083421 1.227774 1.050427 1.083444 1.100095 1.083280 1.000000 1.115407
## [1009] 1.000000 1.016815 1.049505 1.049982 1.000000 1.049362 1.066208 1.080678
## [1017] 1.000000 1.098059 1.095700 1.033268 1.065568 1.000000 1.000000 1.082090
## [1025] 1.065826 1.032816 1.000000 1.049467 1.081696 1.016489 1.081289 1.016457
## [1033] 1.065067 1.224139 1.000000 1.048833 1.519898 1.079029 1.000000 1.000000
## [1041] 1.207482 1.080443 1.016284 1.000000 1.016252 1.000000 1.078373 1.078301
## [1049] 1.063118 1.205503 1.173220 1.000000 1.064089 1.080022 1.032167 1.031893
## [1057] 1.203012 1.406844 1.095058 1.094261 1.124161 1.000000 1.079349 1.031655
## [1065] 1.000000 1.000000 1.124876 1.000000 1.000000 1.078366 1.015858 1.015843
## [1073] 1.000000 1.000000 1.000000 1.000000 1.093490 1.031248 1.076128 1.015726
## [1081] 1.031162 1.077736 1.075857 1.123185 1.000000 1.046832 1.031221 1.077087
## [1089] 1.000000 1.107576 1.015568 1.077258 1.031050 1.061256 1.000000 1.046180
## [1097] 1.253155 1.121414 1.030656 1.090895 1.167285 1.030574 1.060764 1.061150

```

```

## [1105] 1.000000 1.074332 1.030437 1.060931 1.074137 1.075579 1.000000 1.000000
## [1113] 1.075378 1.146176 1.030220 1.015219 1.088698 1.045278 1.060120 1.219486
## [1121] 1.030060 1.030249 1.075355 1.044613 1.075008 1.073889 1.176603 1.072929
## [1129] 1.088605 1.089367 1.118566 1.044723 1.147075 1.059126 1.072494 1.014952
## [1137] 1.116728 1.059336 1.131835 1.059233 1.029746 1.014873 1.000000 1.101552
## [1145] 1.201538 1.000000 1.014808 1.014795 1.058977 1.014770 1.144419 1.144893
## [1153] 1.072996 1.101491 1.029386 1.000000 1.043763 1.029310 1.199958 1.144108
## [1161] 1.029033 1.101398 1.057672 1.043702 1.043664 1.043428 1.029085 1.100882
## [1169] 1.098288 1.198698 1.043441 1.099768 1.000000 1.086050 1.000000 1.043061
## [1177] 1.057578 1.043184 1.056900 1.014395 1.069758 1.014370 1.000000 1.070343
## [1185] 1.028644 1.057143 1.042857 1.070678 1.000000 1.014274 1.000000 1.056666
## [1193] 1.098600 1.000000 1.070080 1.042346 1.028357 1.014178 1.000000 1.055917
## [1201] 1.000000 1.083140 1.028028 1.042254 1.055137 1.028146 1.055597 1.000000
## [1209] 1.068917 1.000000 1.000000 1.094918 1.014003 1.027961 1.069126 1.000000
## [1217] 1.041620 1.054562 1.000000 1.027641 1.000000 1.000000 1.027755 1.055194
## [1225] 1.027529 1.013855 1.000000 1.000000 1.041217 1.068293 1.013799 1.094812
## [1233] 1.027352 1.013765 1.054706 1.027464 1.013732 1.000000 1.000000 1.027199
## [1241] 1.054443 1.175061 1.160659 1.000000 1.013644 1.000000 1.000000 1.013611
## [1249] 1.053752 1.000000 1.026961 1.067107 1.133243 1.026898 1.053839 1.093369
## [1257] 1.027006 1.052865 1.040412 1.013481 1.013471 1.000000 1.052661 1.013439
## [1265] 1.000000 1.040020 1.013407 1.039957 1.092098 1.013375 1.026709 1.053292
## [1273] 1.026667 1.118102 1.026625 1.052629 1.000000 1.052056 1.026376 1.052629
## [1281] 1.039555 1.000000 1.000000 1.104774 1.052590 1.065352 1.026213 1.039341
## [1289] 1.026336 1.000000 1.091035 1.064890 1.000000 1.026235 1.051387 1.116444
## [1297] 1.039070 1.013087 1.000000 1.051194 1.051630 1.000000 1.026054 1.013027
## [1305] 1.000000 1.025994 1.038773 1.050888 1.050850 1.050812 1.000000 1.012947
## [1313] 1.050698 1.064286 1.076592 1.113475 1.127033 1.012889 1.038578 1.050435
## [1321] 1.025544 1.050819 1.063390 1.087136 1.198209 1.100284 1.087540 1.025410
## [1329] 1.050100 1.038106 1.050027 1.063271 1.172553 1.063177 1.125344 1.012715
## [1337] 1.025240 1.124034 1.075236 1.050145 1.012668 1.037468 1.062164 1.012639
## [1345] 1.075054 1.000000 1.251488 1.061353 1.012593 1.123397 1.074870 1.012565
## [1353] 1.049815 1.037583 1.147783 1.037087 1.037500 1.061924 1.073855 1.036980
## [1361] 1.049671 1.024780 1.024762 1.133441 1.287346 1.000000 1.036793 1.061332
## [1369] 1.024799 1.037001 1.036687 1.036661 1.012373 1.024566 1.048458 1.049132
## [1377] 1.049097 1.000000 1.024620 1.085514 1.024442 1.072504 1.024407 1.024389
## [1385] 1.166424 1.012257 1.036691 1.048710 1.000000 1.000000 1.024408 1.072406
## [1393] 1.268264 1.000000 1.047778 1.119410 1.024164 1.036264 1.000000 1.012134
## [1401] 1.060180 1.047544 1.000000 1.000000 1.000000 1.024010 1.000000 1.035736
## [1409] 1.000000 1.059664 1.047247 1.035636 1.024028 1.047148 1.105981 1.000000
## [1417] 1.035781 1.035487 1.070253 1.058851 1.070945 1.000000 1.058729 1.081710
## [1425] 1.059307 1.116037 1.047122 1.000000 1.127021 1.011880 1.046599 1.068985
## [1433] 1.000000 1.035359 1.000000 1.058856 1.081759 1.035000 1.000000 1.046314
## [1441] 1.159055 1.103779 1.000000 1.057889 1.046156 1.023351 1.125853 1.046446
## [1449] 1.104299 1.023416 1.045969 1.035052 1.000000 1.000000 1.000000 1.058052
## [1457] 1.046162 1.045753 1.207400 1.034733 1.068278 1.023224 1.034410 1.080646
## [1465] 1.000000 1.011588 1.011580 1.068328 1.046039 1.023098 1.080142 1.136119
## [1473] 1.023051 1.011525 1.056692 1.023004 1.034335 1.045760 1.034042 1.011479
## [1481] 1.011471 1.011463 1.067771 1.055870 1.022865 1.034251 1.011425 1.078393
## [1489] 1.100690 1.011402 1.000000 1.011386 1.120912 1.067758 1.155819 1.056387
## [1497] 1.033879 1.000000 1.100388 1.011326 1.067206 1.044437 1.055181 1.011296
## [1505] 1.044351 1.011281 1.011273 1.033633 1.000000 1.022487 1.011243 1.011236
## [1513] 1.022324 1.044092 1.054755 1.066548 1.077616 1.043978 1.033509 1.055388
## [1521] 1.000000 1.033093 1.044415 1.066203 1.000000 1.011133 1.032986 1.032964
## [1529] 1.131017 1.065719 1.000000 1.000000 1.000000 1.032816 1.087061

```

```

## [1537] 1.011053 1.000000 1.022064 1.054336 1.021921 1.011017 1.043278 1.000000
## [1545] 1.054500 1.043532 1.053649 1.054282 1.043673 1.043086 1.032706 1.065244
## [1553] 1.000000 1.032643 1.032734 1.064636 1.032580 1.000000 1.043395 1.000000
## [1561] 1.074686 1.085966 1.021725 1.053515 1.053482 1.075103 1.042627 1.096583
## [1569] 1.053674 1.010821 1.148647 1.074929 1.075098 1.063798 1.021450 1.042712
## [1577] 1.042362 1.000000 1.010759 1.084676 1.000000 1.010739 1.021343 1.021329
## [1585] 1.063682 1.031773 1.000000 1.053038 1.021370 1.021249 1.000000 1.073680
## [1593] 1.000000 1.031616 1.000000 1.041866 1.063208 1.021250 1.000000 1.000000
## [1601] 1.010612 1.052473 1.000000 1.021171 1.021157 1.010579 1.010572 1.000000
## [1609] 1.010559 1.031305 1.062459 1.000000 1.000000 1.104267 1.020923 1.031190
## [1617] 1.000000 1.000000 1.031133 1.031114 1.000000 1.010474 1.020820 1.031039
## [1625] 1.000000 1.020885 1.010442 1.010436 1.000000 1.000000 1.030907 1.041261
## [1633] 1.031072 1.000000 1.010391 1.051195 1.030996 1.000000 1.000000 1.000000
## [1641] 1.010353 1.000000 1.000000 1.030665 1.020644 1.000000 1.082076 1.020506
## [1649] 1.040938 1.030555 1.061458 1.030716 1.051069 1.010272 1.020519 1.020408
## [1657] 1.000000 1.030409 1.060968 1.000000 1.000000 1.000000 1.020322 1.040670
## [1665] 1.000000 1.020286 1.070028 1.000000 1.010180 1.020335 1.010167 1.000000
## [1673] 1.090291 1.070502 1.000000 1.050469 1.030261 1.010125 1.039831 1.000000
## [1681] 1.029998 1.020094 1.020082 1.029945 1.020058 1.029910 1.059869 1.029875
## [1689] 1.029857 1.040047 1.029823 1.010041 1.000000 1.029770 1.029753 1.020024
## [1697] 1.029718 1.000000 1.019894 1.049760 1.009988 1.088865 1.019848 1.039256
## [1705] 1.106785 1.000000 1.019895 1.000000 1.009942 1.000000 1.068717 1.009924
## [1713] 1.009918 1.000000 1.009907 1.019790 1.049087 1.029359 1.038919 1.029600
## [1721] 1.000000 1.000000 1.000000 1.019699 1.057579 1.106403 1.067997 1.000000
## [1729] 1.019551 1.000000 1.000000 1.019608 1.029108 1.038945 1.009793 1.000000
## [1737] 1.029041 1.029025 1.029277 1.029170 1.038879 1.019406 1.000000 1.057667
## [1745] 1.019373 1.077360 1.009725 1.000000 1.009714 1.029004 1.048141 1.000000
## [1753] 1.009692 1.047972 1.000000 1.000000 1.000000 1.000000 1.028682 1.019209
## [1761] 1.101717 1.000000 1.019263 1.028602 1.038353 1.038331 1.000000 1.000000
## [1769] 1.028522 1.038245 1.047346 1.019079 1.056823 1.028442 1.009572 1.037690
## [1777] 1.000000 1.009556 1.000000 1.028347 1.019069 1.009534 1.009529 1.009524
## [1785] 1.009518 1.000000 1.028407 1.009503 1.000000 1.000000 1.037630 1.074226
## [1793] 1.000000 1.037568 1.037715 1.028265 1.009455 1.000000 1.000000 1.000000
## [1801] 1.000000 1.000000 1.028156 1.009418 1.000000 1.037073 1.037053 1.037280
## [1809] 1.037341 1.028047 1.009382 1.000000 1.000000 1.009366 1.055441 1.018620
## [1817] 1.027776 1.009346 1.027746 1.037281 1.046306 1.000000 1.000000 1.046149
## [1825] 1.018610 1.036915 1.000000 1.018498 1.000000 1.027823 1.000000 1.009274
## [1833] 1.027536 1.000000 1.000000 1.000000 1.000000 1.027462 1.027447 1.045277
## [1841] 1.027418 1.000000 1.000000 1.045891 1.000000 1.000000 1.000000 1.000000
## [1849] 1.009189 1.018279 1.000000 1.018339 1.009169 1.000000 1.000000 1.036090
## [1857] 1.036304 1.000000 1.036266 1.000000 1.009130 1.036208 1.036344 1.027083
## [1865] 1.027224 1.027054 1.000000 1.071802 1.027011 1.009086 1.027215 1.000000
## [1873] 1.000000 1.026940 1.053463 1.009057 1.000000 1.009047 1.017999 1.017989
## [1881] 1.080496 1.078812 1.018037 1.000000 1.035998 1.026770 1.000000 1.026894
## [1889] 1.026728 1.017894 1.026851 1.000000 1.008976 1.000000 1.026795 1.000000
## [1897] 1.000000 1.008952 1.035508 1.026575 1.035248 1.008933 1.035508 1.026520
## [1905] 1.000000 1.000000 1.035360 1.000000 1.026451 1.000000 1.008891 1.035048
## [1913] 1.000000 1.079490 1.017662 1.008868 1.000000 1.026328 1.008854 1.026301
## [1921] 1.000000 1.026420 1.035141 1.017580 1.008827 1.035015 1.000000 1.052668
## [1929] 1.000000 1.026384 1.026297 1.008795 1.008790 1.000000 1.008781 1.000000
## [1937] 1.000000 1.000000 1.034925 1.017436 1.017499 1.008749 1.008745 1.043326
## [1945] 1.034675 1.120370 1.051942 1.060585 1.000000 1.068893 1.000000 1.000000
## [1953] 1.000000 1.000000 1.017374 1.017294 1.025808 1.034659 1.017267 1.000000
## [1961] 1.025756 1.017312 1.008656 1.000000 1.008647 1.043055 1.025818 1.017189

```

```

## [1969] 1.000000 1.000000 1.025627 1.025614 1.025601 1.042743 1.000000 1.000000
## [1977] 1.000000 1.033895 1.025662 1.008582 1.025499 1.050285 1.034154 1.000000
## [1985] 1.025448 1.042555 1.025423 1.008547 1.017077 1.000000 1.041907 1.016983
## [1993] 1.000000 1.000000 1.025457 1.008513 1.033780 1.008504 1.000000 1.000000
## [2001] 1.000000 1.000000 1.025221 1.008479 1.008475 1.016865 1.033613 1.050378
## [2009] 1.033379 1.016831 1.025122 1.025110 1.058844 1.000000 1.058455 1.050047
## [2017] 1.000000 1.050262 1.008416 1.025011 1.000000 1.024987 1.016724 1.000000
## [2025] 1.024950 1.000000 1.024926 1.016749 1.000000 1.033300 1.049812 1.000000
## [2033] 1.008358 1.049804 1.016626 1.008346 1.033252 1.000000 1.000000 1.016585
## [2041] 1.000000 1.024874 1.000000 1.033138 1.000000 1.024696 1.000000 1.024672
## [2049] 1.008293 1.000000 1.008285 1.016489 1.008277 1.032658 1.016529 1.016457
## [2057] 1.008260 1.000000 1.008252 1.024721 1.024518 1.008240 1.024495 1.024610
## [2065] 1.024471 1.000000 1.024448 1.024562 1.000000 1.024413 1.008205 1.016330
## [2073] 1.032676 1.008193 1.000000 1.000000 1.008181 1.000000 1.024308 1.032442
## [2081] 1.016260 1.000000 1.024262 1.040317 1.055960 1.016284 1.056581 1.000000
## [2089] 1.008134 1.016190 1.000000 1.016237 1.032242 1.000000 1.048425 1.000000
## [2097] 1.000000 1.000000 1.024201 1.000000 1.024056 1.000000 1.032273 1.024022
## [2105] 1.031877 1.023999 1.016121 1.008061 1.008057 1.023954 1.023943 1.016083
## [2113] 1.000000 1.008038 1.023898 1.039714 1.024057 1.008023 1.047639 1.000000
## [2121] 1.039383 1.000000 1.008004 1.015992 1.000000 1.000000 1.000000 1.023753
## [2129] 1.000000 1.007977 1.070434 1.000000 1.007966 1.023687 1.023795 1.000000
## [2137] 1.023654 1.015828 1.000000 1.023739 1.086137 1.000000 1.007929 1.015843
## [2145] 1.000000 1.015829 1.000000 1.039304 1.000000 1.000000 1.031379 1.038826
## [2153] 1.023596 1.031162 1.000000 1.015755 1.031293 1.007874 1.015675 1.000000
## [2161] 1.023509 1.007859 1.023372 1.007852 1.031178 1.015625 1.031149 1.000000
## [2169] 1.023423 1.015596 1.000000 1.000000 1.000000 1.038894 1.023244 1.000000
## [2177] 1.038614 1.007802 1.038862 1.007795 1.007791 1.023284 1.030979 1.023320
## [2185] 1.007777 1.007773 1.015475 1.000000 1.023210 1.007759 1.038146 1.000000
## [2193] 1.023224 1.023045 1.007741 1.038506 1.015462 1.000000 1.023105 1.046014
## [2201] 1.030727 1.007717 1.015420 1.038312 1.015350 1.000000 1.015336 1.022900
## [2209] 1.015322 1.022879 1.000000 1.000000 1.000000 1.015343 1.022828 1.022928
## [2217] 1.015267 1.022907 1.045788 1.030521 1.000000 1.022866 1.000000 1.022846
## [2225] 1.007637 1.000000 1.007630 1.030302 1.015185 1.022676 1.000000 1.037943
## [2233] 1.022646 1.007606 1.022734 1.045333 1.030181 1.007593 1.052875 1.000000
## [2241] 1.022673 1.015097 1.000000 1.007572 1.015131 1.022516 1.007562 1.022603
## [2249] 1.000000 1.030115 1.000000 1.000000 1.015078 1.067186 1.015064 1.007532
## [2257] 1.022407 1.007525 1.000000 1.007519 1.000000 1.007512 1.022348 1.000000
## [2265] 1.022434 1.007499 1.000000 1.000000 1.022289 1.000000 1.029838 1.000000
## [2273] 1.000000 1.014886 1.022231 1.014873 1.000000 1.022306 1.022192 1.000000
## [2281] 1.000000 1.007446 1.044457 1.022144 1.022135 1.037050 1.007430 1.000000
## [2289] 1.029501 1.036831 1.022180 1.007414 1.000000 1.007407 1.000000 1.014744
## [2297] 1.000000 1.000000 1.014776 1.021991 1.007385 1.029335 1.000000 1.000000
## [2305] 1.014738 1.050692 1.029120 1.021916 1.022008 1.021897 1.021888 1.000000
## [2313] 1.007347 1.021859 1.021850 1.065006 1.007334 1.021822 1.050710 1.007324
## [2321] 1.021945 1.014580 1.021876 1.000000 1.000000 1.079027 1.014548 1.007299
## [2329] 1.000000 1.007293 1.000000 1.014517 1.028799 1.021674 1.007277 1.036161
## [2337] 1.014536 1.007268 1.021727 1.000000 1.014462 1.021748 1.000000 1.000000
## [2345] 1.021573 1.021564 1.021653 1.000000 1.021634 1.000000 1.035882 1.000000
## [2353] 1.000000 1.021491 1.007216 1.000000 1.035792 1.007206 1.007203 1.071104
## [2361] 1.021428 1.007194 1.035798 1.035590 1.014316 1.000000 1.021374 1.021462
## [2369] 1.014340 1.000000 1.000000 1.007164 1.035648 1.000000 1.000000 1.000000
## [2377] 1.021285 1.021276 1.014280 1.028380 1.000000 1.028214 1.014208 1.035532
## [2385] 1.000000 1.014238 1.000000 1.021187 1.014220 1.000000 1.000000 1.021152
## [2393] 1.028227 1.014190 1.000000 1.000000 1.028180 1.007086 1.021185 1.014108

```

```

## [2401] 1.000000 1.014096 1.028204 1.021141 1.028087 1.007063 1.014067 1.014061
## [2409] 1.021004 1.014096 1.014044 1.007045 1.021063 1.000000 1.000000 1.027822
## [2417] 1.000000 1.014003 1.014044 1.000000 1.007019 1.034747 1.020976 1.013969
## [2425] 1.007007 1.013957 1.013951 1.000000 1.000000 1.013934 1.020953 1.013923
## [2433] 1.020799 1.013957 1.013906 1.034776 1.013894 1.006970 1.000000 1.013877
## [2441] 1.020731 1.006959 1.000000 1.013855 1.013895 1.006947 1.027608 1.013832
## [2449] 1.000000 1.000000 1.013815 1.000000 1.000000 1.006925 1.013793 1.013787
## [2457] 1.000000 1.020589 1.020670 1.000000 1.013759 1.013799 1.000000 1.013743
## [2465] 1.013782 1.000000 1.027430 1.013721 1.000000 1.000000 1.088225 1.020562
## [2473] 1.000000 1.013687 1.013682 1.006863 1.027276 1.020512 1.013660 1.013654
## [2481] 1.000000 1.013644 1.000000 1.013633 1.013627 1.006836 1.020351 1.027244
## [2489] 1.027015 1.034024 1.000000 1.006819 1.000000 1.027091 1.013573 1.013567
## [2497] 1.000000 1.000000 1.020384 1.013546 1.013540 1.000000 1.013529 1.013524
## [2505] 1.013562 1.000000 1.013508 1.006776 1.000000 1.000000 1.026995 1.000000
## [2513] 1.006762 1.000000 1.000000 1.000000 1.013455 1.033562 1.000000 1.000000
## [2521] 1.000000 1.000000 1.006735 1.000000 1.013455 1.000000 1.000000 1.000000
## [2529] 1.013391 1.026750 1.006714 1.013418 1.000000 1.006706 1.006703 1.013354
## [2537] 1.006698 1.006696 1.013338 1.000000 1.006688 1.006685 1.000000 1.013312
## [2545] 1.006677 1.026625 1.000000 1.000000 1.013328 1.013281 1.019844 1.000000
## [2553] 1.000000 1.019821 1.000000 1.000000 1.000000 1.013281 1.013235 1.013229
## [2561] 1.013224 1.000000 1.000000 1.013209 1.000000 1.013199 1.013193 1.013188
## [2569] 1.013183 1.000000 1.006610 1.000000 1.006605 1.006602 1.013153 1.000000
## [2577] 1.013183 1.000000 1.013173 1.019704 1.000000 1.013117 1.038994 1.000000
## [2585] 1.006574 1.013097 1.013092 1.013087 1.000000 1.013077 1.000000 1.000000
## [2593] 1.019605 1.052107 1.013052 1.013047 1.006543 1.026094 1.000000 1.013027
## [2601] 1.000000 1.013017 1.000000 1.000000 1.019515 1.012997 1.006518 1.012987
## [2609] 1.026024 1.000000 1.000000 1.000000 1.000000 1.000000 1.019441 1.019433
## [2617] 1.012942 1.000000 1.012933 1.012967 1.000000 1.006481 1.006479 1.000000
## [2625] 1.012943 1.012898 1.006469 1.000000 1.012923 1.025777 1.025689 1.006457
## [2633] 1.012864 1.019301 1.019294 1.006447 1.006444 1.025660 1.012835 1.012830
## [2641] 1.019250 1.019165 1.012816 1.000000 1.000000 1.012801 1.006420 1.012830
## [2649] 1.000000 1.000000 1.000000 1.006408 1.012767 1.012801 1.012758 1.012753
## [2657] 1.025439 1.000000 1.006391 1.012772 1.006386 1.000000 1.000000 1.019084
## [2665] 1.000000 1.000000 1.012701 1.000000 1.000000 1.012686 1.012682 1.012677
## [2673] 1.000000 1.012668 1.006353 1.006350 1.000000 1.000000 1.000000 1.000000
## [2681] 1.000000 1.025204 1.000000 1.012621 1.012616 1.018929 1.000000 1.000000
## [2689] 1.012597 1.000000 1.031491 1.012583 1.000000 1.000000 1.000000 1.012565
## [2697] 1.012560 1.018845 1.000000 1.006294 1.012541 1.012537 1.000000 1.006285
## [2705] 1.012523 1.000000 1.006278 1.000000 1.018768 1.012500 1.018681 1.012491
## [2713] 1.031163 1.006262 1.012514 1.012472 1.012468 1.000000 1.012459 1.000000
## [2721] 1.000000 1.012445 1.012477 1.006239 1.000000 1.000000 1.006232 1.012418
## [2729] 1.006227 1.018624 1.037158 1.006220 1.000000 1.000000 1.012386 1.000000
## [2737] 1.006209 1.024583 1.018600 1.012364 1.024772 1.012391 1.000000 1.012346
## [2745] 1.012341 1.012337 1.018438 1.006184 1.012323 1.018418 1.000000 1.012310
## [2753] 1.012305 1.012301 1.000000 1.000000 1.012288 1.006162 1.012279 1.012310
## [2761] 1.000000 1.000000 1.012261 1.000000 1.018425 1.018383 1.012243 1.000000
## [2769] 1.012235 1.012266 1.018350 1.012221 1.012217 1.018330 1.000000 1.012239
## [2777] 1.000000 1.000000 1.012191 1.000000 1.018284 1.006109 1.000000 1.012169
## [2785] 1.018258 1.012160 1.012191 1.012186 1.012147 1.012143 1.018149 1.000000
## [2793] 1.006084 1.012125 1.006080 1.012117 1.006076 1.012143 1.006071 1.018160
## [2801] 1.006067 1.000000 1.012087 1.000000 1.024208 1.000000 1.012069 1.012065
## [2809] 1.006050 1.000000 1.000000 1.006043 1.000000 1.012040 1.030005 1.000000
## [2817] 1.006033 1.012023 1.012018 1.041755 1.000000 1.018053 1.006020 1.012031
## [2825] 1.006016 1.011989 1.000000 1.000000 1.029959 1.017968 1.011968 1.006001

```

```

## [2833] 1.017882 1.011955 1.000000 1.005992 1.011976 1.000000 1.005986 1.000000
## [2841] 1.005982 1.011921 1.011917 1.000000 1.000000 1.011905 1.000000 1.000000
## [2849] 1.000000 1.011921 1.000000 1.005959 1.000000 1.011871 1.011867 1.011863
## [2857] 1.011859 1.011888 1.011851 1.000000 1.023702 1.000000 1.011834 1.017689
## [2865] 1.000000 1.000000 1.000000 1.000000 1.000000 1.011805 1.011801 1.011797
## [2873] 1.000000 1.000000 1.017622 1.005909 1.023407 1.005905 1.011769 1.005901
## [2881] 1.011761 1.017645 1.000000 1.011748 1.000000 1.005888 1.011769 1.011732
## [2889] 1.005882 1.017531 1.011720 1.017584 1.000000 1.011740 1.017566 1.011700
## [2897] 1.029161 1.011692 1.023424 1.011716 1.005858 1.000000 1.000000 1.005852
## [2905] 1.000000 1.011660 1.005846 1.011684 1.005842 1.000000 1.005838 1.011668
## [2913] 1.000000 1.028929 1.011624 1.000000 1.000000 1.011612 1.005822 1.005820
## [2921] 1.011632 1.000000 1.000000 1.011588 1.023026 1.000000 1.000000 1.011572
## [2929] 1.017363 1.011565 1.023105 1.005796 1.005794 1.000000 1.017327 1.000000
## [2937] 1.000000 1.011565 1.000000 1.000000 1.011521 1.000000 1.011545 1.000000
## [2945] 1.011506 1.023020 1.011498 1.000000 1.005763 1.017239 1.011483 1.000000
## [2953] 1.011475 1.005753 1.000000 1.011463 1.000000 1.011455 1.000000 1.000000
## [2961] 1.017176 1.011440 1.011467 1.000000 1.005732 1.011425 1.011421 1.005726
## [2969] 1.000000 1.005722 1.000000 1.000000 1.000000 1.011394 1.022765 1.011386
## [2977] 1.011383 1.011379 1.000000 1.011402 1.011367 1.017085 1.005697 1.011386
## [2985] 1.011352 1.028327 1.017057 1.011341 1.016954 1.011333 1.000000 1.011356
## [2993] 1.000000 1.011318 1.011345 1.011311 1.005670 1.000000 1.011330 1.011326
## [3001] 1.011292 1.016942 1.016936 1.000000 1.000000 1.011273 1.016913 1.011266
## [3009] 1.000000 1.000000 1.011284 1.011251 1.011247 1.016874 1.011240 1.028047
## [3017] 1.011232 1.022442 1.000000 1.033648 1.000000 1.000000 1.005622 1.011206
## [3025] 1.000000 1.011229 1.011195 1.011191 1.000000 1.016726 1.016780 1.000000
## [3033] 1.011173 1.000000 1.011166 1.000000 1.000000 1.005594 1.005592 1.011147
## [3041] 1.016666 1.000000 1.000000 1.011133 1.005581 1.011126 1.005577 1.022106
## [3049] 1.016623 1.005572 1.005570 1.000000 1.027680 1.016683 1.011093 1.000000
## [3057] 1.000000 1.011082 1.011078 1.016621 1.011071 1.005550 1.005548 1.033138
## [3065] 1.005545 1.011082 1.022056 1.011046 1.011042 1.011068 1.021942 1.000000
## [3073] 1.000000 1.027435 1.005527 1.000000 1.016558 1.011010 1.000000 1.011003
## [3081] 1.016451 1.005514 1.005512 1.010989 1.016430 1.011010 1.032921 1.010975
## [3089] 1.000000 1.000000 1.000000 1.021935 1.010957 1.000000 1.000000 1.021907
## [3097] 1.005487 1.000000 1.000000 1.000000 1.010929 1.016341 1.010922 1.010918
## [3105] 1.016381 1.010911 1.005470 1.010932 1.000000 1.021669 1.016350 1.010890
## [3113] 1.010887 1.005457 1.005456 1.000000 1.000000 1.010869 1.000000 1.000000
## [3121] 1.000000 1.000000 1.016231 1.000000 1.010845 1.010842 1.000000 1.000000
## [3129] 1.010831 1.010828 1.010824 1.016240 1.010818 1.000000 1.000000 1.000000
## [3137] 1.000000 1.005416 1.010797 1.005412 1.000000 1.010787 1.010783 1.000000
## [3145] 1.000000 1.000000 1.016108 1.000000 1.000000 1.000000 1.000000 1.010753
## [3153] 1.000000 1.010746 1.010742 1.010739 1.032166 1.021478 1.000000 1.005378
## [3161] 1.016092 1.016032 1.010715 1.010712 1.010709 1.005368 1.000000 1.010698
## [3169] 1.010695 1.000000 1.016041 1.000000 1.000000 1.037115 1.010675 1.015962
## [3177] 1.021377 1.016033 1.010662 1.010685 1.000000 1.010652 1.000000 1.010672
## [3185] 1.015997 1.005334 1.000000 1.010632 1.015951 1.010625 1.010622 1.010618
## [3193] 1.042381 1.015926 1.015921 1.000000 1.010602 1.000000 1.005312 1.000000
## [3201] 1.000000 1.000000 1.005306 1.021171 1.005303 1.010572 1.015809 1.010592
## [3209] 1.015852 1.010585 1.010556 1.000000 1.000000 1.000000 1.000000 1.010539
## [3217] 1.000000 1.000000 1.010530 1.000000 1.015793 1.000000 1.015783 1.010513
## [3225] 1.000000 1.010507 1.010503 1.015759 1.005263 1.005262 1.010491 1.026155
## [3233] 1.000000 1.000000 1.046983 1.010474 1.010471 1.000000 1.000000 1.010487
## [3241] 1.000000 1.015639 1.005240 1.000000 1.000000 1.015671 1.010439 1.010436
## [3249] 1.010433 1.000000 1.010426 1.010423 1.000000 1.000000 1.000000 1.005220
## [3257] 1.010407 1.000000 1.010426 1.020808 1.000000 1.000000 1.005208 1.010385

```

```

## [3265] 1.000000 1.000000 1.000000 1.000000 1.000000 1.010366 1.000000 1.010359
## [3273] 1.000000 1.000000 1.010350 1.015554 1.020650 1.010341 1.010337 1.025825
## [3281] 1.010331 1.000000 1.015495 1.005175 1.005173 1.000000 1.010312 1.000000
## [3289] 1.005167 1.005166 1.015408 1.000000 1.000000 1.010290 1.005158 1.010284
## [3297] 1.000000 1.010278 1.000000 1.000000 1.005148 1.005147 1.010287 1.005144
## [3305] 1.010256 1.015413 1.010250 1.000000 1.015324 1.000000 1.000000 1.005131
## [3313] 1.010232 1.000000 1.000000 1.000000 1.000000 1.010216 1.025424 1.010235
## [3321] 1.000000 1.015314 1.015260 1.005113 1.000000 1.010192 1.010189 1.005107
## [3329] 1.000000 1.010180 1.015272 1.020310 1.000000 1.005097 1.010164 1.000000
## [3337] 1.000000 1.000000 1.015236 1.010149 1.010146 1.035412 1.020244 1.010137
## [3345] 1.010134 1.000000 1.015151 1.005076 1.010122 1.010119 1.025279 1.000000
## [3353] 1.010134 1.010107 1.005066 1.005064 1.000000 1.000000 1.000000 1.015093
## [3361] 1.000000 1.020154 1.010080 1.010077 1.005051 1.015066 1.000000 1.005046
## [3369] 1.000000 1.000000 1.010080 1.020118 1.010050 1.015031 1.005036 1.019976
## [3377] 1.005033 1.000000 1.015056 1.015052 1.005027 1.000000 1.010021 1.010018
## [3385] 1.005021 1.000000 1.000000 1.010006 1.005015 1.015007 1.009997 1.005010
## [3393] 1.019971 1.005007 1.009985 1.000000 1.000000 1.019965 1.000000 1.000000
## [3401] 1.000000 1.009965 1.004994 1.009959 1.009956 1.009953 1.014886 1.009947
## [3409] 1.009968 1.019895 1.004982 1.014911 1.000000 1.014902 1.009927 1.009947
## [3417] 1.000000 1.019802 1.009915 1.000000 1.004968 1.000000 1.000000 1.000000
## [3425] 1.009921 1.000000 1.004959 1.009889 1.000000 1.009884 1.000000 1.000000
## [3433] 1.004950 1.000000 1.004948 1.000000 1.000000 1.009861 1.000000 1.009855
## [3441] 1.009852 1.009849 1.009846 1.000000 1.009841 1.014764 1.009835 1.004929
## [3449] 1.000000 1.014747 1.009824 1.009821 1.000000 1.014730 1.000000 1.004918
## [3457] 1.000000 1.000000 1.009801 1.019563 1.000000 1.004909 1.004908 1.009787
## [3465] 1.009784 1.004903 1.019523 1.009776 1.004899 1.004898 1.004896 1.009787
## [3473] 1.000000 1.009781 1.014596 1.000000 1.004888 1.000000 1.014647 1.014575
## [3481] 1.004882 1.000000 1.000000 1.000000 1.014555 1.009725 1.004874 1.000000
## [3489] 1.009739 1.000000 1.000000 1.004867 1.009706 1.004864 1.000000 1.024190
## [3497] 1.009717 1.009714 1.000000 1.000000 1.009684 1.009703 1.009678 1.009698
## [3505] 1.014472 1.004847 1.000000 1.014504 1.000000 1.000000 1.004841 1.000000
## [3513] 1.009651 1.009670 1.000000 1.000000 1.014423 1.009637 1.009634 1.000000
## [3521] 1.000000 1.004825 1.000000 1.009621 1.000000 1.014386 1.004819 1.019122
## [3529] 1.004816 1.000000 1.004813 1.009599 1.009596 1.009594 1.000000 1.009588
## [3537] 1.009586 1.000000 1.004802 1.004801 1.000000 1.009594 1.009569 1.009567
## [3545] 1.004794 1.009561 1.000000 1.000000 1.009553 1.000000 1.009548 1.000000
## [3553] 1.009542 1.000000 1.009537 1.014308 1.004778 1.000000 1.028292 1.000000
## [3561] 1.000000 1.000000 1.000000 1.000000 1.004767 1.004766 1.009526 1.004763
## [3569] 1.018989 1.009497 1.000000 1.004758 1.009489 1.000000 1.019000 1.004753
## [3577] 1.009479 1.000000 1.000000 1.009471 1.014230 1.000000 1.000000 1.009460
## [3585] 1.009458 1.000000 1.009452 1.014181 1.000000 1.009444 1.009442 1.000000
## [3593] 1.009437 1.000000 1.009452 1.009429 1.009447 1.000000 1.000000 1.004721
## [3601] 1.009416 1.009413 1.009410 1.009408 1.014073 1.018837 1.014107 1.009397
## [3609] 1.000000 1.000000 1.009390 1.028151 1.000000 1.000000 1.009379 1.000000
## [3617] 1.009374 1.023399 1.009369 1.000000 1.004694 1.004692 1.000000 1.000000
## [3625] 1.004688 1.009351 1.009348 1.000000 1.009343 1.000000 1.000000 1.018640
## [3633] 1.000000 1.000000 1.009328 1.004674 1.000000 1.000000 1.000000 1.013979
## [3641] 1.000000 1.009310 1.009307 1.009305 1.009302 1.000000 1.009297 1.000000
## [3649] 1.009292 1.000000 1.009287 1.004654 1.013889 1.009279 1.009277 1.009274
## [3657] 1.009272 1.000000 1.000000 1.013862 1.009262 1.000000 1.004640 1.004638
## [3665] 1.013904 1.009249 1.009247 1.009244 1.023115 1.000000 1.009237 1.004628
## [3673] 1.004627 1.000000 1.000000 1.004623 1.009222 1.013795 1.000000 1.000000
## [3681] 1.004617 1.000000 1.013816 1.009204 1.009202 1.009199 1.009197 1.009214
## [3689] 1.000000 1.000000 1.009187 1.000000 1.004602 1.013735 1.000000 1.009174

```

```

## [3697] 1.022881 1.004596 1.009167 1.009164 1.009162 1.009159 1.000000 1.009155
## [3705] 1.009152 1.004586 1.000000 1.000000 1.013719 1.009140 1.000000 1.009135
## [3713] 1.000000 1.009130 1.000000 1.000000 1.013690 1.013647 1.004570 1.000000
## [3721] 1.004567 1.000000 1.000000 1.004564 1.000000 1.009101 1.000000 1.009096
## [3729] 1.000000 1.000000 1.000000 1.000000 1.009084 1.009101 1.000000 1.000000
## [3737] 1.009074 1.009071 1.009088 1.000000 1.009064 1.004542 1.009059 1.000000
## [3745] 1.018119 1.009052 1.009069 1.004535 1.000000 1.009043 1.000000 1.004530
## [3753] 1.013559 1.009033 1.000000 1.004525 1.000000 1.004522 1.009021 1.009019
## [3761] 1.009016 1.017999 1.013523 1.018028 1.013516 1.009023 1.009002 1.008999
## [3769] 1.000000 1.004508 1.004507 1.000000 1.000000 1.017980 1.008983 1.008980
## [3777] 1.004500 1.000000 1.008992 1.008971 1.008969 1.004494 1.000000 1.008961
## [3785] 1.004490 1.004489 1.008954 1.004487 1.000000 1.000000 1.008964 1.008943
## [3793] 1.035387 1.000000 1.008954 1.008933 1.000000 1.000000 1.000000 1.004473
## [3801] 1.008940 1.000000 1.008917 1.004468 1.004467 1.000000 1.000000 1.008905
## [3809] 1.000000 1.017773 1.031038 1.000000 1.008912 1.000000 1.000000 1.013298
## [3817] 1.008903 1.004451 1.008880 1.008896 1.008894 1.000000 1.000000 1.013308
## [3825] 1.004443 1.008863 1.013316 1.004440 1.000000 1.000000 1.000000 1.008850
## [3833] 1.008847 1.000000 1.000000 1.004431 1.000000 1.008836 1.008833 1.000000
## [3841] 1.004425 1.000000 1.008824 1.008822 1.004420 1.008817 1.000000 1.000000
## [3849] 1.008811 1.000000 1.008806 1.017617 1.000000 1.008799 1.017603 1.004408
## [3857] 1.000000 1.008790 1.000000 1.000000 1.004402 1.008799 1.008779 1.008776
## [3865] 1.008774 1.008772 1.004395 1.008767 1.008765 1.008781 1.008761 1.008758
## [3873] 1.008774 1.013100 1.000000 1.026167 1.008747 1.000000 1.008743 1.030489
## [3881] 1.004379 1.017499 1.000000 1.008731 1.008747 1.008745 1.004372 1.008722
## [3889] 1.017360 1.008736 1.013079 1.000000 1.000000 1.000000 1.000000 1.000000
## [3897] 1.000000 1.008700 1.000000 1.008696 1.000000 1.017391 1.000000 1.000000
## [3905] 1.000000 1.000000 1.021622 1.000000 1.004348 1.000000 1.000000 1.004344
## [3913] 1.000000 1.000000 1.004341 1.012996 1.000000 1.017320 1.004337 1.004336
## [3921] 1.008649 1.008647 1.008645 1.004331 1.012966 1.008638 1.008636 1.012956
## [3929] 1.008632 1.008629 1.008627 1.000000 1.004321 1.008621 1.000000 1.000000
## [3937] 1.008614 1.000000 1.008610 1.021511 1.000000 1.008603 1.000000 1.004309
## [3945] 1.000000 1.000000 1.004306 1.000000 1.008588 1.008603 1.000000 1.008599
## [3953] 1.000000 1.000000 1.000000 1.000000 1.008571 1.008569 1.008566 1.008564
## [3961] 1.004291 1.000000 1.004289 1.000000 1.012836 1.008551 1.008549 1.008564
## [3969] 1.004282 1.008560 1.008541 1.017051 1.008536 1.016991 1.012803 1.000000
## [3977] 1.000000 1.012759 1.008523 1.012753 1.004269 1.008517 1.012778 1.000000
## [3985] 1.004265 1.008526 1.008523 1.004262 1.000000 1.012721 1.017004 1.008513
## [3993] 1.004256 1.012760 1.008489 1.000000 1.008502 1.000000 1.016987 1.008479
## [4001] 1.016979 1.004247 1.008472 1.008470 1.004244 1.000000 1.000000 1.000000
## [4009] 1.000000 1.008458 1.000000 1.008453 1.000000 1.000000 1.008447 1.008445
## [4017] 1.008443 1.000000 1.012630 1.000000 1.012657 1.008449 1.000000 1.000000
## [4025] 1.008426 1.004222 1.000000 1.016832 1.016844 1.000000 1.000000 1.000000
## [4033] 1.004214 1.000000 1.004212 1.000000 1.000000 1.020957 1.012568 1.004207
## [4041] 1.008393 1.008408 1.008405 1.000000 1.008385 1.004201 1.004200 1.008395
## [4049] 1.000000 1.004196 1.004195 1.004194 1.016745 1.000000 1.008364 1.008362
## [4057] 1.012562 1.004188 1.016720 1.004186 1.000000 1.000000 1.000000 1.012524
## [4065] 1.012520 1.008341 1.004179 1.000000 1.008352 1.008333 1.012469 1.016585
## [4073] 1.012496 1.008342 1.004171 1.012487 1.008319 1.008317 1.012445 1.000000
## [4081] 1.008327 1.004164 1.000000 1.012462 1.008303 1.000000 1.000000 1.000000
## [4089] 1.000000 1.004155 1.028974 1.012438 1.004152 1.008285 1.000000 1.000000
## [4097] 1.004148 1.008276 1.000000 1.004145 1.008287 1.004143 1.008266 1.000000
## [4105] 1.008262 1.008260 1.012393 1.004137 1.008270 1.004135 1.008250 1.008248
## [4113] 1.004132 1.000000 1.008242 1.020594 1.000000 1.000000 1.000000 1.008232
## [4121] 1.000000 1.004123 1.000000 1.008224 1.012307 1.004119 1.000000 1.000000

```

```

## [4129] 1.000000 1.008228 1.008226 1.008209 1.008207 1.008205 1.016397 1.008201
## [4137] 1.000000 1.008197 1.016413 1.036703 1.016405 1.000000 1.000000 1.008185
## [4145] 1.008183 1.016370 1.004098 1.008177 1.000000 1.008173 1.000000 1.000000
## [4153] 1.004092 1.004091 1.004090 1.008161 1.004089 1.008157 1.000000 1.000000
## [4161] 1.008151 1.004084 1.004083 1.008161 1.012220 1.000000 1.016209 1.012227
## [4169] 1.008136 1.008134 1.000000 1.004074 1.008128 1.004072 1.000000 1.032458
## [4177] 1.008120 1.000000 1.008116 1.004066 1.004065 1.000000 1.008109 1.012165
## [4185] 1.012162 1.008103 1.000000 1.000000 1.004057 1.004056 1.012114 1.008091
## [4193] 1.008105 1.012136 1.012133 1.008099 1.000000 1.008095 1.012122 1.000000
## [4201] 1.000000 1.000000 1.000000 1.000000 1.008066 1.000000 1.000000 1.012065
## [4209] 1.012093 1.000000 1.008055 1.008053 1.000000 1.000000 1.008047 1.008045
## [4217] 1.000000 1.012067 1.012064 1.000000 1.000000 1.000000 1.004025 1.000000
## [4225] 1.008044 1.004022 1.012042 1.008023 1.008021 1.004018 1.000000 1.004016
## [4233] 1.000000 1.004014 1.000000 1.015947 1.000000 1.008004 1.008017 1.008000
## [4241] 1.012002 1.000000 1.007994 1.011993 1.000000 1.000000 1.007987 1.007985
## [4249] 1.011949 1.003999 1.000000 1.000000 1.011968 1.007989 1.019893 1.000000
## [4257] 1.007983 1.003992 1.007964 1.011963 1.015854 1.000000 1.000000 1.015843
## [4265] 1.007953 1.007951 1.007964 1.007948 1.003981 1.019735 1.000000 1.007940
## [4273] 1.000000 1.007936 1.015847 1.000000 1.003974 1.011898 1.000000 1.011893
## [4281] 1.015840 1.007922 1.007920 1.011882 1.007931 1.000000 1.015832 1.011841
## [4289] 1.011868 1.007907 1.007905 1.007903 1.023507 1.000000 1.007898 1.007911
## [4297] 1.007894 1.000000 1.000000 1.007889 1.000000 1.000000 1.011800 1.000000
## [4305] 1.007879 1.000000 1.007890 1.003945 1.007872 1.000000 1.011822 1.000000
## [4313] 1.003941 1.011799 1.003939 1.007859 1.015708 1.000000 1.007869 1.007852
## [4321] 1.000000 1.000000 1.000000 1.000000 1.000000 1.003929 1.000000 1.011761
## [4329] 1.011758 1.003925 1.000000 1.000000 1.007829 1.007827 1.000000 1.007823
## [4337] 1.000000 1.000000 1.000000 1.003916 1.000000 1.000000 1.000000 1.000000
## [4345] 1.011715 1.007805 1.000000 1.000000 1.007814 1.007798 1.007796 1.003905
## [4353] 1.000000 1.007805 1.011660 1.027232 1.003901 1.003900 1.000000 1.000000
## [4361] 1.000000 1.000000 1.011667 1.000000 1.007771 1.007770 1.000000 1.011625
## [4369] 1.007779 1.007763 1.000000 1.007759 1.000000 1.007755 1.000000 1.011604
## [4377] 1.000000 1.000000 1.007747 1.007745 1.011591 1.000000 1.007740 1.007738
## [4385] 1.007736 1.003875 1.000000 1.000000 1.011612 1.003872 1.007740 1.015426
## [4393] 1.007722 1.000000 1.007718 1.011579 1.007715 1.000000 1.000000 1.007724
## [4401] 1.003862 1.000000 1.011533 1.000000 1.007701 1.000000 1.000000 1.007696
## [4409] 1.019229 1.007706 1.007691 1.000000 1.000000 1.007685 1.000000 1.011527
## [4417] 1.000000 1.015336 1.007677 1.019126 1.000000 1.003844 1.003843 1.007682
## [4425] 1.007666 1.015322 1.003839 1.000000 1.007659 1.007658 1.007656 1.003835
## [4433] 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.007642 1.007640
## [4441] 1.007639 1.000000 1.000000 1.003825 1.011425 1.000000 1.000000 1.003821
## [4449] 1.003820 1.007637 1.011437 1.000000 1.007618 1.011429 1.011426 1.007613
## [4457] 1.011421 1.000000 1.003812 1.007606 1.011411 1.003809 1.007601 1.000000
## [4465] 1.011401 1.007596 1.037877 1.000000 1.007591 1.007603 1.003801 1.000000
## [4473] 1.000000 1.007582 1.003798 1.007579 1.003796 1.003795 1.000000 1.000000
## [4481] 1.015121 1.007569 1.000000 1.011326 1.000000 1.000000 1.007561 1.011316
## [4489] 1.007571 1.003785 1.000000 1.000000 1.000000 1.007549 1.018862 1.000000
## [4497] 1.003779 1.007542 1.007554 1.007539 1.007551 1.000000 1.000000 1.007545
## [4505] 1.000000 1.000000 1.003771 1.003770 1.003769 1.000000 1.000000 1.007519
## [4513] 1.003766 1.000000 1.000000 1.003764 1.000000 1.000000 1.003761 1.003760
## [4521] 1.003759 1.000000 1.003758 1.000000 1.003756 1.003755 1.003754 1.000000
## [4529] 1.000000 1.007489 1.003751 1.003750 1.014988 1.007482 1.000000 1.000000
## [4537] 1.003746 1.007476 1.000000 1.011213 1.003743 1.011182 1.000000 1.000000
## [4545] 1.003740 1.000000 1.000000 1.003737 1.000000 1.003735 1.003735 1.000000
## [4553] 1.000000 1.003732 1.003731 1.003731 1.003730 1.003729 1.000000 1.000000

```

```

## [4561] 1.003726 1.003726 1.000000 1.003724 1.003723 1.003722 1.003722 1.003721
## [4569] 1.003720 1.007437 1.007422 1.000000 1.003717 1.003716 1.000000 1.003714
## [4577] 1.003713 1.000000 1.003712 1.000000 1.003710 1.003709 1.007415 1.003708
## [4585] 1.000000 1.003706 1.003705 1.007394 1.000000 1.007404 1.003702 1.000000
## [4593] 1.000000 1.000000 1.000000 1.000000 1.003697 1.000000 1.000000 1.018433
## [4601] 1.000000 1.000000 1.000000 1.003692 1.003691 1.000000 1.000000 1.000000
## [4609] 1.000000 1.014725 1.003686 1.000000 1.003684 1.003684 1.003683 1.000000
## [4617] 1.000000 1.003680 1.000000 1.000000 1.003678 1.003677 1.003676 1.000000
## [4625] 1.003675 1.000000 1.000000 1.003672 1.003672 1.000000 1.003670 1.000000
## [4633] 1.000000 1.003668 1.003667 1.003666 1.003665 1.003665 1.000000 1.000000
## [4641] 1.003662 1.000000 1.003661 1.003660 1.003659 1.003658 1.003657 1.000000
## [4649] 1.003656 1.003655 1.003654 1.000000 1.003653 1.000000 1.000000 1.000000
## [4657] 1.003650 1.003649 1.003648 1.007293 1.003647 1.003646 1.003645 1.000000
## [4665] 1.003643 1.000000 1.003642 1.014542 1.000000 1.000000 1.003639 1.003638
## [4673] 1.000000 1.000000 1.010890 1.003635 1.000000 1.003633 1.000000 1.003632
## [4681] 1.003631 1.003630 1.000000 1.000000 1.007254 1.003627 1.000000 1.003626
## [4689] 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.003619
## [4697] 1.007236 1.007222 1.003617 1.007219 1.003615 1.000000 1.003614 1.000000
## [4705] 1.003612 1.000000 1.000000 1.000000 1.003609 1.007203 1.000000 1.000000
## [4713] 1.007211 1.003606 1.000000 1.003604 1.003603 1.014376 1.000000 1.000000
## [4721] 1.003600 1.000000 1.003599 1.003598 1.007193 1.003596 1.000000 1.003595
## [4729] 1.000000 1.000000 1.007171 1.003592 1.003591 1.007179 1.003590 1.003589
## [4737] 1.003588 1.000000 1.007171 1.003586 1.003585 1.003584 1.003583 1.003583
## [4745] 1.003582 1.000000 1.000000 1.000000 1.003579 1.003578 1.014289 1.003577
## [4753] 1.003576 1.000000 1.003574 1.000000 1.000000 1.000000 1.000000 1.000000
## [4761] 1.000000 1.003569 1.003568 1.003568 1.000000 1.003566 1.000000 1.003565
## [4769] 1.007114 1.000000 1.003562 1.000000 1.000000 1.003560 1.000000 1.003559
## [4777] 1.003558 1.003557 1.003556 1.000000 1.000000 1.003554 1.003554 1.003553
## [4785] 1.000000 1.003551 1.003551 1.000000 1.003549 1.000000 1.003548 1.000000
## [4793] 1.000000 1.003545 1.007076 1.003544 1.003543 1.000000 1.003542 1.000000
## [4801] 1.003540 1.000000 1.003539 1.003538 1.003537 1.007060 1.000000 1.003535
## [4809] 1.007067 1.000000 1.003533 1.000000 1.003531 1.003531 1.003530 1.000000
## [4817] 1.000000 1.000000 1.000000 1.000000 1.003526 1.003525 1.003524 1.003523
## [4825] 1.003523 1.000000 1.003521 1.003520 1.003520 1.003519 1.000000 1.003517
## [4833] 1.003517 1.003516 1.003515 1.003515 1.003514 1.003513 1.007012 1.003512
## [4841] 1.003511 1.003510 1.003509 1.000000 1.000000 1.003507 1.003507 1.003506
## [4849] 1.000000 1.003504 1.003504 1.003503 1.000000 1.000000 1.003501 1.000000
## [4857] 1.000000 1.003499 1.000000 1.000000 1.000000 1.003496 1.003495 1.003494
## [4865] 1.000000 1.003493 1.003492 1.000000 1.003491 1.003490 1.000000 1.000000
## [4873] 1.000000 1.000000 1.003486 1.003486 1.000000 1.000000 1.003484 1.000000
## [4881] 1.003482 1.003481 1.003481 1.003480 1.000000 1.003479 1.000000 1.000000
## [4889] 1.003476 1.000000 1.020806 1.006936 1.003474 1.003473 1.000000 1.003472
## [4897] 1.000000 1.003470 1.003469 1.003469 1.000000 1.003467 1.006932 1.003466
## [4905] 1.003465 1.003464 1.000000 1.003463 1.000000 1.006911 1.003461 1.003460
## [4913] 1.000000 1.003459 1.006915 1.000000 1.006901 1.003456 1.003455 1.003455
## [4921] 1.003454 1.000000 1.006904 1.000000 1.000000 1.003450 1.003450 1.003449
## [4929] 1.000000 1.006883 1.000000 1.000000 1.000000 1.000000 1.003444 1.000000
## [4937] 1.006873 1.003442 1.003441 1.003441 1.003440 1.000000 1.003439 1.003438
## [4945] 1.003437 1.003436 1.000000 1.006869 1.003434 1.003434 1.000000 1.003432
## [4953] 1.003432 1.003431 1.000000 1.003429 1.003429 1.000000 1.000000 1.003427
## [4961] 1.000000 1.000000 1.000000 1.003424 1.000000 1.000000 1.006842 1.003421
## [4969] 1.003421 1.003420 1.006837 1.003418 1.000000 1.003417 1.003416 1.000000
## [4977] 1.000000 1.006816 1.000000 1.003413 1.003412 1.000000 1.003411 1.003410
## [4985] 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000

```

```

## [4993] 1.003404 1.003403 1.000000 1.003402 1.003401 1.000000 1.027086 1.003399
## [5001] 1.000000 1.003398 1.000000 1.000000 1.003396 1.006789 1.003395 1.000000
## [5009] 1.000000 1.000000 1.003392 1.003391 1.000000 1.003390 1.000000 1.003388
## [5017] 1.000000 1.003387 1.000000 1.003386 1.000000 1.000000 1.000000 1.003383
## [5025] 1.003382 1.003382 1.003381 1.003380 1.000000 1.003379 1.000000 1.003378
## [5033] 1.003377 1.003376 1.003376 1.000000 1.003374 1.003374 1.003373 1.003372
## [5041] 1.000000 1.000000 1.000000 1.000000 1.006726 1.000000 1.006734 1.000000
## [5049] 1.003366 1.003366 1.003365 1.003364 1.003364 1.003363 1.000000 1.000000
## [5057] 1.003361 1.000000 1.000000 1.003359 1.000000 1.000000 1.006713 1.000000
## [5065] 1.003356 1.000000 1.003354 1.003354 1.003353 1.000000 1.003352 1.003351
## [5073] 1.003350 1.003350 1.003349 1.003348 1.000000 1.003347 1.003346 1.003346
## [5081] 1.006689 1.003344 1.003344 1.003343 1.003343 1.000000 1.006671 1.000000
## [5089] 1.003340 1.003339 1.003339 1.000000 1.000000 1.000000 1.003336 1.003335
## [5097] 1.000000 1.000000 1.003333 1.003333 1.000000 1.003331 1.003331 1.000000
## [5105] 1.000000 1.000000 1.000000 1.003327 1.003327 1.003326 1.000000 1.000000
## [5113] 1.003324 1.003324 1.003323 1.003322 1.006632 1.003321 1.000000 1.000000
## [5121] 1.003319 1.000000 1.000000 1.003317 1.000000 1.000000 1.000000 1.006617
## [5129] 1.000000 1.003313 1.003313 1.000000 1.000000 1.003311 1.000000 1.000000
## [5137] 1.000000 1.003308 1.000000 1.000000 1.009904 1.000000 1.000000 1.000000
## [5145] 1.006606 1.003303 1.003302 1.003302 1.000000 1.000000 1.000000 1.000000
## [5153] 1.000000 1.000000 1.003297 1.003296 1.003296 1.006589 1.003295 1.003294
## [5161] 1.000000 1.003293 1.000000 1.003291 1.003291 1.003290 1.000000 1.003289
## [5169] 1.003288 1.003288 1.000000 1.000000 1.000000 1.003285 1.000000 1.000000
## [5177] 1.003283 1.006564 1.003282 1.003281 1.003281 1.003280 1.000000 1.000000
## [5185] 1.003278 1.003277 1.003277 1.003276 1.003276 1.003275 1.003274 1.006546
## [5193] 1.003273 1.000000 1.000000 1.003271 1.000000 1.000000 1.003269 1.006526
## [5201] 1.003268 1.003267 1.000000 1.000000 1.003265 1.003265 1.003264 1.003264
## [5209] 1.003263 1.000000 1.000000 1.000000 1.003260 1.000000 1.000000 1.000000
## [5217] 1.000000 1.000000 1.003257 1.003256 1.000000 1.003255 1.000000 1.003254
## [5225] 1.000000 1.003252 1.003252 1.006501 1.003250 1.000000 1.003249 1.000000
## [5233] 1.003248 1.003247 1.003247 1.003246 1.000000 1.000000 1.000000 1.000000
## [5241] 1.003243 1.003242 1.003242 1.003241 1.003241 1.006479 1.000000 1.006476
## [5249] 1.003238 1.003237 1.006472 1.000000 1.000000 1.003235 1.003234 1.003234
## [5257] 1.003233 1.003233 1.000000 1.009661 1.003231 1.000000 1.003229 1.003229
## [5265] 1.006455 1.003228 1.000000 1.003226 1.003226 1.003225 1.000000 1.003224
## [5273] 1.003223 1.003223 1.003222 1.003222 1.003221 1.000000 1.003220 1.003219
## [5281] 1.000000 1.003218 1.003217 1.003217 1.000000 1.003215 1.000000 1.003214
## [5289] 1.000000 1.000000 1.003212 1.003212 1.006411 1.000000 1.003210 1.003209
## [5297] 1.003209 1.003208 1.003208 1.000000 1.006402 1.000000 1.003205 1.000000
## [5305] 1.003204 1.000000 1.000000 1.000000 1.000000 1.000000 1.006390 1.000000
## [5313] 1.003199 1.000000 1.003198 1.000000 1.003197 1.003196 1.003195 1.003195
## [5321] 1.003194 1.003194 1.000000 1.000000 1.000000 1.000000 1.000000 1.003190
## [5329] 1.000000 1.003189 1.003188 1.003188 1.000000 1.000000 1.000000 1.000000
## [5337] 1.003185 1.000000 1.000000 1.003183 1.003182 1.003182 1.000000 1.003181
## [5345] 1.003180 1.003179 1.003179 1.003178 1.003178 1.003177 1.000000 1.000000
## [5353] 1.003175 1.000000 1.000000 1.000000 1.000000 1.000000 1.003172 1.000000
## [5361] 1.003170 1.000000 1.000000 1.000000 1.003168 1.000000 1.006333 1.000000
## [5369] 1.000000 1.000000 1.000000 1.000000 1.003163 1.003163 1.006323 1.000000
## [5377] 1.003161 1.000000 1.000000 1.003159 1.003159 1.003158 1.003158 1.000000
## [5385] 1.003156 1.003156 1.003155 1.000000 1.000000 1.003153 1.000000 1.003152
## [5393] 1.000000 1.000000 1.000000 1.003150 1.003149 1.003149 1.000000 1.000000
## [5401] 1.003147 1.000000 1.003146 1.003145 1.003145 1.003144 1.003144 1.003143 1.000000
## [5409] 1.003142 1.000000 1.003141 1.003141 1.003140 1.000000 1.000000 1.003138
## [5417] 1.000000 1.003137 1.003137 1.003136 1.006270 1.003135 1.003134 1.003134

```

```

## [5425] 1.000000 1.003132 1.000000 1.003131 1.003131 1.003130 1.003130 1.000000
## [5433] 1.003128 1.003128 1.003127 1.003127 1.000000 1.003126 1.000000 1.000000
## [5441] 1.000000 1.003123 1.000000 1.003122 1.000000 1.000000 1.000000 1.003120
## [5449] 1.000000 1.003119 1.003118 1.000000 1.000000 1.003116 1.000000 1.003115
## [5457] 1.000000 1.003114 1.003114 1.000000 1.003112 1.003112 1.000000 1.000000
## [5465] 1.000000 1.000000 1.003109 1.000000 1.003108 1.000000 1.000000 1.003106
## [5473] 1.003106 1.003105 1.000000 1.003104 1.003103 1.000000 1.003102 1.003102
## [5481] 1.000000 1.003100 1.000000 1.003099 1.000000 1.003098 1.003098 1.000000
## [5489] 1.003097 1.003096 1.000000 1.000000 1.003094 1.003094 1.003093 1.000000
## [5497] 1.003092 1.003091 1.003091 1.000000 1.003090 1.003089 1.003089 1.003088
## [5505] 1.000000 1.003087 1.003086 1.003086 1.006169 1.003085 1.003084 1.000000
## [5513] 1.009246 1.003083 1.000000 1.003081 1.003081 1.000000 1.000000 1.003079
## [5521] 1.003079 1.003078 1.003077 1.003077 1.000000 1.003076 1.000000 1.000000
## [5529] 1.003074 1.003074 1.003073 1.003072 1.006143 1.000000 1.003071 1.000000
## [5537] 1.003070 1.003069 1.000000 1.000000 1.000000 1.000000 1.000000 1.003066
## [5545] 1.003065 1.003065 1.003064 1.003064 1.003063 1.003063 1.003062 1.003061
## [5553] 1.003061 1.000000 1.003060 1.003059 1.003059 1.003058 1.003058 1.003057
## [5561] 1.003056 1.006102 1.003055 1.003055 1.003054 1.003054 1.003053 1.000000
## [5569] 1.006094 1.000000 1.003051 1.000000 1.003050 1.000000 1.003049 1.003048
## [5577] 1.000000 1.000000 1.003047 1.003046 1.003046 1.000000 1.003044 1.000000
## [5585] 1.000000 1.000000 1.000000 1.003042 1.003041 1.003041 1.000000 1.003040
## [5593] 1.003039 1.003038 1.003038 1.000000 1.000000 1.003036 1.003036 1.000000
## [5601] 1.003035 1.000000 1.003034 1.003033 1.000000 1.003032 1.003031 1.003031
## [5609] 1.006060 1.003030 1.000000 1.003029 1.000000 1.000000 1.000000 1.003027
## [5617] 1.006051 1.000000 1.000000 1.003024 1.000000 1.003023 1.006044 1.000000
## [5625] 1.003022 1.000000 1.003021 1.000000 1.003020 1.000000 1.003018 1.003018
## [5633] 1.000000 1.000000 1.000000 1.003016 1.003015 1.000000 1.003014 1.003014
## [5641] 1.003013 1.003013 1.000000 1.003012 1.003011 1.003010 1.000000 1.000000
## [5649] 1.000000 1.000000 1.000000 1.003007 1.003007 1.000000 1.000000 1.003005
## [5657] 1.006008 1.000000 1.003004 1.000000 1.000000 1.000000 1.003001 1.003001
## [5665] 1.000000 1.000000 1.002999 1.002999 1.000000 1.002998 1.000000 1.000000
## [5673] 1.002996 1.000000 1.000000 1.002995 1.002994 1.000000 1.000000 1.005975
## [5681] 1.000000 1.000000 1.002991 1.000000 1.000000 1.002989 1.000000 1.000000
## [5689] 1.002988 1.000000 1.002987 1.002986 1.002986 1.002985 1.002985 1.002984
## [5697] 1.002984 1.000000 1.000000 1.000000 1.002981 1.002981 1.002980 1.000000
## [5705] 1.000000 1.000000 1.002978 1.000000 1.002977 1.000000 1.000000 1.002976
## [5713] 1.000000 1.000000 1.005939 1.002974 1.002973 1.002973 1.000000 1.002972
## [5721] 1.000000 1.002970 1.002970 1.002969 1.002969 1.000000 1.000000 1.002967
## [5729] 1.002967 1.005932 1.000000 1.000000 1.005929 1.000000 1.005926 1.000000
## [5737] 1.002963 1.000000 1.000000 1.000000 1.002961 1.002960 1.002960 1.000000
## [5745] 1.002959 1.000000 1.002958 1.002957 1.000000 1.002956 1.002955 1.002955
## [5753] 1.000000 1.005907 1.002953 1.002953 1.002952 1.002952 1.002951 1.002951
## [5761] 1.002950 1.002950 1.002949 1.000000 1.000000 1.000000 1.000000 1.000000
## [5769] 1.002946 1.000000 1.000000 1.005880 1.000000 1.000000 1.002943 1.002943
## [5777] 1.002942 1.002942 1.000000 1.002941 1.008809 1.000000 1.000000 1.002939
## [5785] 1.002938 1.000000 1.000000 1.005872 1.000000 1.002936 1.002935 1.000000
## [5793] 1.002934 1.002934 1.002933 1.002933 1.002932 1.002932 1.002931 1.002931
## [5801] 1.002930 1.002930 1.000000 1.002929 1.002928 1.000000 1.002927 1.000000
## [5809] 1.008767 1.002925 1.002925 1.000000 1.000000 1.002923 1.000000 1.000000
## [5817] 1.000000 1.005842 1.002921 1.000000 1.002920 1.002919 1.008746 1.000000
## [5825] 1.002918 1.000000 1.002917 1.002916 1.002916 1.002915 1.000000 1.000000
## [5833] 1.000000 1.005826 1.000000 1.005816 1.000000 1.002911 1.000000 1.002910
## [5841] 1.002910 1.002909 1.002909 1.000000 1.002908 1.000000 1.002907 1.000000
## [5849] 1.002906 1.002905 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000

```

```

## [5857] 1.002902 1.002902 1.005801 1.002901 1.002900 1.000000 1.002899 1.000000
## [5865] 1.000000 1.002898 1.002897 1.002897 1.000000 1.000000 1.005789 1.000000
## [5873] 1.000000 1.002894 1.002893 1.000000 1.002892 1.002892 1.000000 1.002891
## [5881] 1.002890 1.002890 1.000000 1.002889 1.000000 1.002888 1.000000 1.000000
## [5889] 1.002886 1.002886 1.002885 1.000000 1.002884 1.002884 1.002883 1.000000
## [5897] 1.005756 1.002882 1.002881 1.000000 1.002880 1.002880 1.008612 1.000000
## [5905] 1.002878 1.002878 1.000000 1.002877 1.002876 1.002876 1.000000 1.002875
## [5913] 1.002875 1.002874 1.000000 1.005745 1.000000 1.002872 1.000000 1.008611
## [5921] 1.002871 1.002870 1.005738 1.002869 1.002869 1.005728 1.002868 1.002867
## [5929] 1.002867 1.002866 1.002866 1.000000 1.002865 1.002864 1.000000 1.002863
## [5937] 1.000000 1.002862 1.002862 1.002861 1.002861 1.002861 1.002860 1.000000
## [5945] 1.000000 1.005716 1.002858 1.002858 1.000000 1.002857 1.005704 1.002856
## [5953] 1.002855 1.002855 1.002854 1.002854 1.005706 1.005705 1.002852 1.002852
## [5961] 1.002851 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.002848
## [5969] 1.005694 1.002847 1.002847 1.000000 1.005683 1.002845 1.005688 1.000000
## [5977] 1.002844 1.002843 1.002843 1.000000 1.000000 1.008499 1.000000 1.000000
## [5985] 1.002840 1.000000 1.002839 1.000000 1.002838 1.000000 1.000000 1.000000
## [5993] 1.000000 1.002836 1.000000 1.002835 1.002834 1.002834 1.000000 1.000000
## [6001] 1.002832 1.000000 1.002831 1.002831 1.000000 1.000000 1.000000 1.000000
## [6009] 1.000000 1.000000 1.005654 1.000000 1.002827 1.002826 1.002826 1.000000
## [6017] 1.000000 1.000000 1.000000 1.002823 1.002823 1.002823 1.002822 1.002822
## [6025] 1.000000 1.002821 1.002820 1.002820 1.002819 1.002819 1.000000 1.000000
## [6033] 1.000000 1.000000 1.002816 1.000000 1.002816 1.002815 1.000000 1.000000
## [6041] 1.000000 1.000000 1.002813 1.005624 1.000000 1.000000 1.002811 1.002810
## [6049] 1.005619 1.002809 1.000000 1.002809 1.002808 1.002808 1.002807 1.000000
## [6057] 1.002806 1.008414 1.002805 1.002805 1.000000 1.000000 1.000000 1.002803
## [6065] 1.000000 1.000000 1.000000 1.000000 1.002801 1.002800 1.002800 1.002799
## [6073] 1.002799 1.002798 1.000000 1.002797 1.005593 1.002797 1.002796 1.000000
## [6081] 1.002795 1.002795 1.002794 1.002794 1.002793 1.002793 1.000000 1.000000
## [6089] 1.000000 1.000000 1.002791 1.002790 1.000000 1.000000 1.000000 1.002788
## [6097] 1.000000 1.002787 1.002787 1.000000 1.005571 1.000000 1.002785 1.000000
## [6105] 1.002784 1.002784 1.002783 1.000000 1.000000 1.000000 1.002781 1.000000
## [6113] 1.000000 1.000000 1.002780 1.000000 1.002779 1.002778 1.000000 1.002777
## [6121] 1.002777 1.005552 1.002776 1.002776 1.002775 1.002775 1.000000 1.000000
## [6129] 1.000000 1.002773 1.000000 1.002772 1.000000 1.000000 1.000000 1.000000
## [6137] 1.000000 1.002769 1.005529 1.002768 1.002768 1.002767 1.002767 1.000000
## [6145] 1.002766 1.002766 1.002765 1.002765 1.002764 1.002764 1.002763 1.002763
## [6153] 1.000000 1.002762 1.000000 1.002761 1.000000 1.000000 1.000000 1.005511
## [6161] 1.002759 1.000000 1.002758 1.002758 1.005513 1.005512 1.000000 1.002756
## [6169] 1.002755 1.002755 1.002754 1.002754 1.002753 1.002753 1.002753 1.002752
## [6177] 1.000000 1.000000 1.000000 1.005493 1.002750 1.002749 1.013729 1.002749
## [6185] 1.002748 1.005487 1.002747 1.002747 1.000000 1.002746 1.000000 1.002745
## [6193] 1.000000 1.002744 1.005487 1.005486 1.002743 1.000000 1.002742 1.002741
## [6201] 1.002741 1.002741 1.002740 1.002740 1.002739 1.002739 1.002738 1.002738
## [6209] 1.000000 1.002737 1.008186 1.002736 1.002736 1.002735 1.002735 1.002734
## [6217] 1.002734 1.002734 1.002733 1.002733 1.002732 1.002732 1.000000 1.002731
## [6225] 1.002730 1.000000 1.000000 1.002729 1.002729 1.000000 1.002728 1.002727
## [6233] 1.002727 1.000000 1.000000 1.000000 1.002725 1.000000 1.002724 1.000000
## [6241] 1.002723 1.002723 1.002723 1.002722 1.002722 1.002721 1.002721 1.000000
## [6249] 1.000000 1.000000 1.000000 1.002719 1.002718 1.002718 1.002717 1.000000
## [6257] 1.002717 1.002716 1.000000 1.000000 1.002715 1.000000 1.000000 1.002713
## [6265] 1.000000 1.002713 1.002712 1.000000 1.002711 1.000000 1.002710 1.002710
## [6273] 1.002710 1.002709 1.000000 1.002708 1.000000 1.002707 1.002707 1.002707
## [6281] 1.000000 1.000000 1.000000 1.000000 1.002704 1.000000 1.000000 1.000000

```

```

## [6289] 1.000000 1.000000 1.002702 1.000000 1.000000 1.000000 1.002700 1.002700
## [6297] 1.000000 1.002699 1.002698 1.002698 1.002698 1.000000 1.002697 1.002696
## [6305] 1.000000 1.002695 1.002695 1.008074 1.002694 1.000000 1.000000 1.002693
## [6313] 1.000000 1.000000 1.002692 1.002691 1.002691 1.000000 1.002690 1.000000
## [6321] 1.002689 1.000000 1.002688 1.000000 1.000000 1.000000 1.002686 1.000000
## [6329] 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000
## [6337] 1.000000 1.000000 1.000000 1.002681 1.002681 1.000000 1.005352 1.000000
## [6345] 1.002679 1.002678 1.005348 1.002678 1.000000 1.000000 1.000000 1.000000
## [6353] 1.000000 1.002675 1.002675 1.000000 1.000000 1.002673 1.000000 1.000000
## [6361] 1.002672 1.002672 1.002671 1.002671 1.002670 1.005332 1.002670 1.000000
## [6369] 1.002669 1.002668 1.000000 1.000000 1.000000 1.000000 1.000000 1.002666
## [6377] 1.000000 1.002665 1.000000 1.000000 1.000000 1.002663 1.002663 1.000000
## [6385] 1.005323 1.002662 1.002661 1.002661 1.002660 1.000000 1.000000 1.002659
## [6393] 1.002659 1.002658 1.002658 1.002657 1.005313 1.002657 1.000000 1.002656
## [6401] 1.002655 1.000000 1.000000 1.005308 1.002654 1.002653 1.002653 1.000000
## [6409] 1.000000 1.005296 1.002651 1.002651 1.000000 1.002650 1.000000 1.002649
## [6417] 1.002649 1.000000 1.000000 1.000000 1.002647 1.000000 1.000000 1.000000
## [6425] 1.000000 1.002645 1.002645 1.000000 1.002644 1.002643 1.002643 1.002643
## [6433] 1.002642 1.002642 1.002641 1.002641 1.000000 1.000000 1.000000 1.002639
## [6441] 1.002639 1.002639 1.002638 1.002638 1.002637 1.002637 1.000000 1.002636
## [6449] 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.002633 1.002633
## [6457] 1.005257 1.000000 1.000000 1.005262 1.002631 1.000000 1.000000 1.002630
## [6465] 1.000000 1.002629 1.005249 1.002628 1.000000 1.000000 1.002627 1.002626
## [6473] 1.002626 1.002625 1.002625 1.002625 1.002624 1.002624 1.002623 1.002623
## [6481] 1.000000 1.000000 1.002622 1.000000 1.000000 1.002621 1.000000 1.000000
## [6489] 1.002619 1.002619 1.000000 1.002618 1.000000 1.000000 1.002617 1.000000
## [6497] 1.000000 1.002616 1.005230 1.000000 1.002615 1.000000 1.005227 1.000000
## [6505] 1.002613 1.002613 1.002612 1.000000 1.002611 1.002611 1.002611 1.005220
## [6513] 1.002610 1.005218 1.002609 1.002609 1.002608 1.002608 1.002607 1.002607
## [6521] 1.002607 1.002606 1.002606 1.002605 1.002605 1.002605 1.002604 1.002604
## [6529] 1.002603 1.002603 1.002603 1.002602 1.000000 1.000000 1.002601 1.002601
## [6537] 1.002600 1.002600 1.005198 1.002599 1.002599 1.000000 1.002598 1.000000
## [6545] 1.000000 1.000000 1.002596 1.002596 1.002595 1.002595 1.000000 1.002594
## [6553] 1.000000 1.002593 1.000000 1.000000 1.002592 1.005177 1.005182 1.005181
## [6561] 1.002591 1.000000 1.000000 1.002589 1.000000 1.000000 1.002588 1.000000
## [6569] 1.002588 1.005173 1.000000 1.000000 1.002586 1.002586 1.005163 1.002585
## [6577] 1.000000 1.000000 1.000000 1.002583 1.000000 1.000000 1.002582 1.000000
## [6585] 1.002581 1.000000 1.002580 1.002580 1.002580 1.000000 1.005151 1.000000
## [6593] 1.002578 1.002578 1.000000 1.002577 1.002577 1.005145 1.002576 1.002575
## [6601] 1.000000 1.000000 1.002574 1.002574 1.000000 1.002573 1.005144 1.002572
## [6609] 1.002572 1.002571 1.002571 1.000000 1.002570 1.005133 1.002570 1.005138
## [6617] 1.002569 1.000000 1.005129 1.002568 1.002567 1.007692 1.002566 1.002566
## [6625] 1.002566 1.002565 1.002565 1.002564 1.002564 1.002564 1.002563 1.000000
## [6633] 1.002563 1.002562 1.000000 1.000000 1.002561 1.002561 1.002560 1.002560
## [6641] 1.002559 1.000000 1.002559 1.002558 1.002558 1.002558 1.002557 1.002557
## [6649] 1.002556 1.002556 1.002556 1.002555 1.002555 1.000000 1.002554 1.000000
## [6657] 1.000000 1.002553 1.002553 1.000000 1.002552 1.002551 1.002551 1.000000
## [6665] 1.000000 1.000000 1.000000 1.002549 1.000000 1.002548 1.000000 1.000000
## [6673] 1.000000 1.000000 1.002546 1.002546 1.000000 1.000000 1.000000 1.000000
## [6681] 1.002544 1.002544 1.000000 1.000000 1.000000 1.002542 1.000000 1.002541
## [6689] 1.000000 1.002541 1.000000 1.002540 1.005072 1.002539 1.000000 1.000000
## [6697] 1.002538 1.002538 1.002537 1.000000 1.002537 1.000000 1.002536 1.002535
## [6705] 1.002535 1.002535 1.000000 1.000000 1.002534 1.000000 1.005059 1.000000
## [6713] 1.002532 1.000000 1.002531 1.000000 1.000000 1.002530 1.000000 1.002529

```

```

## [6721] 1.000000 1.002529 1.002528 1.000000 1.002528 1.002527 1.002527 1.002526
## [6729] 1.000000 1.002526 1.002525 1.000000 1.002525 1.002524 1.002524 1.002523
## [6737] 1.002523 1.002523 1.002522 1.002522 1.000000 1.000000 1.000000 1.000000
## [6745] 1.002520 1.000000 1.002519 1.002519 1.002519 1.000000 1.000000 1.002517
## [6753] 1.000000 1.002517 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000
## [6761] 1.000000 1.000000 1.000000 1.000000 1.000000 1.002512 1.000000 1.002511
## [6769] 1.002511 1.002511 1.002510 1.002510 1.002510 1.002509 1.002509 1.000000
## [6777] 1.000000 1.000000 1.002507 1.002507 1.002507 1.000000 1.000000 1.000000
## [6785] 1.002505 1.005003 1.002504 1.002504 1.000000 1.002503 1.000000 1.005004
## [6793] 1.000000 1.002502 1.000000 1.000000 1.002501 1.000000 1.000000 1.000000
## [6801] 1.007478 1.004997 1.000000 1.000000 1.000000 1.002497 1.000000 1.000000
## [6809] 1.002496 1.002496 1.000000 1.000000 1.002495 1.002494 1.000000 1.004981
## [6817] 1.000000 1.002493 1.000000 1.002492 1.002492 1.000000 1.000000 1.000000
## [6825] 1.002490 1.002490 1.002490 1.002489 1.002489 1.000000 1.004976 1.002488
## [6833] 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.002485
## [6841] 1.000000 1.002484 1.002484 1.000000 1.002483 1.002483 1.002482 1.002482
## [6849] 1.004963 1.002481 1.002481 1.000000 1.002480 1.000000 1.000000 1.000000
## [6857] 1.000000 1.002478 1.002478 1.000000 1.002477 1.002477 1.002477 1.000000
## [6865] 1.002476 1.002476 1.004950 1.002475 1.000000 1.000000 1.000000 1.002473
## [6873] 1.002473 1.002473 1.000000 1.000000 1.000000 1.002471 1.004941 1.000000
## [6881] 1.002470 1.000000 1.000000 1.000000 1.000000 1.002468 1.002468 1.002468
## [6889] 1.004934 1.000000 1.002467 1.000000 1.002466 1.002466 1.002465 1.002465
## [6897] 1.002464 1.002464 1.002464 1.000000 1.000000 1.002463 1.002462 1.000000
## [6905] 1.002462 1.000000 1.000000 1.004920 1.000000 1.002460 1.002459 1.000000
## [6913] 1.000000 1.002458 1.000000 1.002458 1.000000 1.000000 1.002457 1.002456
## [6921] 1.002456 1.002456 1.004910 1.000000 1.002455 1.004902 1.000000 1.002453
## [6929] 1.000000 1.002453 1.000000 1.004903 1.002452 1.000000 1.000000 1.000000
## [6937] 1.002450 1.002450 1.000000 1.002449 1.002449 1.002449 1.002448 1.002448
## [6945] 1.000000 1.000000 1.002447 1.002446 1.002446 1.002446 1.002445 1.000000
## [6953] 1.000000 1.000000 1.000000 1.004886 1.002443 1.000000 1.002443 1.000000
## [6961] 1.002442 1.000000 1.002441 1.000000 1.002440 1.000000 1.000000 1.000000
## [6969] 1.000000 1.000000 1.002438 1.002438 1.002438 1.004868 1.000000 1.000000
## [6977] 1.002436 1.002436 1.000000 1.000000 1.000000 1.000000 1.002434 1.000000
## [6985] 1.002433 1.002433 1.002433 1.002432 1.002432 1.002432 1.002431 1.002431
## [6993] 1.000000 1.002430 1.002430 1.000000 1.002429 1.002429 1.002429 1.002428
## [7001] 1.002428 1.000000 1.002427 1.002427 1.000000 1.000000 1.000000 1.000000
## [7009] 1.002425 1.002425 1.000000 1.002424 1.002424 1.002423 1.000000 1.002423
## [7017] 1.000000 1.000000 1.000000 1.000000 1.000000 1.004835 1.002420 1.002420
## [7025] 1.000000 1.002419 1.002419 1.000000 1.000000 1.000000 1.000000 1.002417
## [7033] 1.002417 1.002416 1.002416 1.002416 1.002415 1.002415 1.007237 1.004823
## [7041] 1.002414 1.002414 1.004821 1.000000 1.000000 1.002412 1.000000 1.000000
## [7049] 1.002411 1.004821 1.002411 1.000000 1.002410 1.007227 1.002409 1.000000
## [7057] 1.002409 1.000000 1.007216 1.000000 1.002407 1.009618 1.002407 1.002406
## [7065] 1.002406 1.004810 1.002405 1.004809 1.004803 1.000000 1.002404 1.000000
## [7073] 1.002403 1.000000 1.000000 1.002402 1.002402 1.002401 1.002401 1.002401
## [7081] 1.000000 1.002400 1.000000 1.000000 1.002399 1.002399 1.000000 1.002398
## [7089] 1.002398 1.000000 1.000000 1.000000 1.000000 1.002396 1.002396 1.000000
## [7097] 1.002395 1.002395 1.002394 1.002394 1.002394 1.002393 1.000000 1.000000
## [7105] 1.002392 1.002392 1.002392 1.002391 1.002391 1.000000 1.002390 1.002390
## [7113] 1.002390 1.002389 1.002389 1.002389 1.000000 1.000000 1.000000 1.002387
## [7121] 1.002387 1.002387 1.002386 1.000000 1.000000 1.002385 1.002385 1.000000
## [7129] 1.002384 1.000000 1.002384 1.000000 1.002383 1.000000 1.000000 1.002382
## [7137] 1.000000 1.002381 1.002381 1.002381 1.002380 1.000000 1.000000 1.002379
## [7145] 1.004757 1.000000 1.000000 1.002378 1.002378 1.000000 1.000000 1.000000

```

```

## [7153] 1.000000 1.002376 1.002376 1.002375 1.000000 1.000000 1.000000 1.002374 1.000000
## [7161] 1.000000 1.002373 1.002373 1.000000 1.000000 1.000000 1.000000 1.002372 1.002372 1.002371
## [7169] 1.002371 1.002371 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.002369
## [7177] 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000
## [7185] 1.000000 1.000000 1.000000 1.000000 1.002365 1.000000 1.000000 1.000000 1.000000 1.002363
## [7193] 1.000000 1.000000 1.000000 1.000000 1.000000 1.002362 1.002361 1.000000 1.000000 1.000000
## [7201] 1.000000 1.002360 1.000000 1.000000 1.000000 1.002359 1.002359 1.000000 1.000000 1.000000
## [7209] 1.000000 1.002358 1.002357 1.002357 1.004712 1.002356 1.002356 1.002356 1.002356
## [7217] 1.000000 1.002355 1.000000 1.002354 1.000000 1.002354 1.002353 1.002353 1.002353
## [7225] 1.002353 1.000000 1.000000 1.002352 1.000000 1.004696 1.002351 1.002350
## [7233] 1.007043 1.002350 1.000000 1.000000 1.000000 1.002348 1.002348 1.000000
## [7241] 1.000000 1.002347 1.000000 1.000000 1.002346 1.000000 1.002345 1.002345
## [7249] 1.000000 1.002345 1.002344 1.002344 1.002344 1.002343 1.002343 1.002343
## [7257] 1.000000 1.002342 1.000000 1.000000 1.002341 1.002341 1.000000 1.000000
## [7265] 1.000000 1.000000 1.000000 1.002339 1.000000 1.002338 1.002338 1.002337
## [7273] 1.000000 1.004673 1.000000 1.002336 1.000000 1.000000 1.002335 1.002335
## [7281] 1.000000 1.002334 1.002334 1.004666 1.000000 1.002333 1.002333 1.002332
## [7289] 1.002332 1.002332 1.000000 1.000000 1.000000 1.002330 1.000000 1.000000
## [7297] 1.002329 1.000000 1.000000 1.002328 1.000000 1.002328 1.002327 1.000000
## [7305] 1.000000 1.000000 1.002326 1.002326 1.002326 1.000000 1.002325 1.002325
## [7313] 1.000000 1.002324 1.002324 1.000000 1.002323 1.000000 1.000000 1.000000
## [7321] 1.002322 1.002321 1.002321 1.002321 1.000000 1.000000 1.000000 1.002320
## [7329] 1.002319 1.000000 1.000000 1.000000 1.002318 1.002318 1.002317 1.000000
## [7337] 1.002317 1.002316 1.000000 1.000000 1.000000 1.002315 1.002315 1.006942
## [7345] 1.002314 1.000000 1.002314 1.000000 1.000000 1.004625 1.000000 1.002312
## [7353] 1.004623 1.002311 1.004621 1.002311 1.004615 1.000000 1.002310 1.000000
## [7361] 1.002309 1.000000 1.000000 1.000000 1.002308 1.002308 1.002307 1.002307
## [7369] 1.002307 1.002306 1.000000 1.000000 1.002305 1.000000 1.000000 1.000000
## [7377] 1.002304 1.002304 1.002304 1.000000 1.002303 1.000000 1.000000 1.002302
## [7385] 1.002302 1.002301 1.002301 1.002301 1.004600 1.002300 1.000000 1.002299
## [7393] 1.002299 1.002299 1.000000 1.002298 1.000000 1.000000 1.000000 1.002297
## [7401] 1.004588 1.000000 1.002296 1.000000 1.000000 1.002295 1.000000 1.000000
## [7409] 1.000000 1.002294 1.000000 1.000000 1.002293 1.002293 1.002292 1.000000
## [7417] 1.002292 1.002291 1.002291 1.000000 1.002290 1.000000 1.002290 1.000000
## [7425] 1.000000 1.000000 1.000000 1.000000 1.002288 1.002288 1.002287 1.002287
## [7433] 1.004573 1.002286 1.000000 1.004571 1.000000 1.000000 1.002285 1.000000
## [7441] 1.002284 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000
## [7449] 1.000000 1.002282 1.002281 1.002281 1.000000 1.000000 1.002280 1.000000
## [7457] 1.002279 1.002279 1.000000 1.000000 1.002278 1.002278 1.000000 1.002277
## [7465] 1.000000 1.002277 1.000000 1.002276 1.002276 1.002275 1.002275 1.000000
## [7473] 1.000000 1.002274 1.002274 1.002274 1.002273 1.002273 1.002273 1.002272
## [7481] 1.000000 1.000000 1.002272 1.002271 1.000000 1.002271 1.002270 1.000000
## [7489] 1.002270 1.002269 1.002269 1.000000 1.000000 1.000000 1.002268 1.002268
## [7497] 1.000000 1.002267 1.002267 1.002266 1.002266 1.002266 1.000000 1.004525
## [7505] 1.000000 1.000000 1.000000 1.002264 1.000000 1.000000 1.002263 1.002263
## [7513] 1.000000 1.000000 1.000000 1.002262 1.002261 1.002261 1.002261 1.002260
## [7521] 1.002260 1.002260 1.002259 1.002259 1.000000 1.002259 1.000000 1.002258
## [7529] 1.006766 1.000000 1.002257 1.002257 1.002256 1.000000 1.000000 1.000000
## [7537] 1.004510 1.000000 1.000000 1.002254 1.002254 1.000000 1.002253 1.000000
## [7545] 1.000000 1.002253 1.000000 1.002252 1.000000 1.002251 1.002251 1.000000
## [7553] 1.002250 1.000000 1.006734 1.000000 1.002249 1.000000 1.000000 1.002248
## [7561] 1.002248 1.002248 1.002247 1.002247 1.004488 1.000000 1.000000 1.002246
## [7569] 1.002246 1.004490 1.000000 1.000000 1.002245 1.002244 1.002244 1.002244
## [7577] 1.000000 1.000000 1.000000 1.002242 1.002242 1.002242 1.000000 1.000000

```

```

## [7585] 1.000000 1.002241 1.000000 1.002240 1.000000 1.002239 1.002239 1.004477
## [7593] 1.002239 1.000000 1.000000 1.000000 1.002237 1.002237 1.002237 1.002237
## [7601] 1.002236 1.002236 1.000000 1.002235 1.000000 1.000000 1.000000 1.000000
## [7609] 1.004463 1.002234 1.002233 1.002233 1.002233 1.000000 1.002232 1.002232
## [7617] 1.002232 1.002231 1.002231 1.002231 1.000000 1.000000 1.000000 1.000000
## [7625] 1.000000 1.002229 1.002229 1.002228 1.004456 1.000000 1.000000 1.002227
## [7633] 1.000000 1.002227 1.002226 1.004451 1.002226 1.002225 1.000000 1.000000
## [7641] 1.002225 1.002224 1.000000 1.002224 1.000000 1.002223 1.002223 1.000000
## [7649] 1.000000 1.002222 1.000000 1.000000 1.002221 1.002221 1.000000 1.002220
## [7657] 1.000000 1.002220 1.002219 1.002219 1.002219 1.000000 1.000000 1.002218
## [7665] 1.002218 1.004429 1.002217 1.002217 1.000000 1.000000 1.002216 1.000000
## [7673] 1.002215 1.002215 1.002215 1.000000 1.002214 1.000000 1.002214 1.000000
## [7681] 1.000000 1.004425 1.002212 1.002212 1.000000 1.002212 1.002211 1.002211
## [7689] 1.006616 1.000000 1.004415 1.002210 1.000000 1.002209 1.002209 1.002209
## [7697] 1.002208 1.000000 1.000000 1.002208 1.002207 1.004413 1.000000 1.002206
## [7705] 1.004407 1.000000 1.002206 1.002205 1.002205 1.000000 1.004408 1.004403
## [7713] 1.000000 1.002203 1.002203 1.000000 1.000000 1.002202 1.004404 1.000000
## [7721] 1.000000 1.002201 1.000000 1.002201 1.000000 1.002200 1.002200 1.002200
## [7729] 1.002199 1.000000 1.002199 1.000000 1.000000 1.002198 1.002198 1.002197
## [7737] 1.002197 1.000000 1.002196 1.000000 1.002196 1.000000 1.002195 1.000000
## [7745] 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000
## [7753] 1.000000 1.004379 1.002192 1.000000 1.002191 1.000000 1.000000 1.000000
## [7761] 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.002188
## [7769] 1.002188 1.000000 1.002187 1.000000 1.002187 1.002186 1.002186 1.006543
## [7777] 1.002186 1.002185 1.002185 1.000000 1.002185 1.002184 1.002184 1.002184
## [7785] 1.000000 1.002183 1.002183 1.002183 1.002182 1.000000 1.000000 1.002181
## [7793] 1.002181 1.002181 1.000000 1.002180 1.000000 1.002180 1.000000 1.002179
## [7801] 1.000000 1.000000 1.002178 1.000000 1.002178 1.004350 1.002177 1.002177
## [7809] 1.002177 1.000000 1.002176 1.002176 1.002176 1.002175 1.002175 1.000000
## [7817] 1.006522 1.000000 1.002174 1.000000 1.002173 1.002173 1.000000 1.000000
## [7825] 1.002172 1.002172 1.004343 1.000000 1.002171 1.000000 1.002171 1.000000
## [7833] 1.002170 1.000000 1.000000 1.002169 1.000000 1.002169 1.002168 1.002168
## [7841] 1.002168 1.002168 1.000000 1.000000 1.000000 1.002166 1.000000 1.000000
## [7849] 1.002166 1.002165 1.002165 1.002165 1.000000 1.002164 1.000000 1.002164
## [7857] 1.002163 1.002163 1.000000 1.000000 1.002162 1.002162 1.000000 1.000000
## [7865] 1.002161 1.002161 1.002161 1.000000 1.002160 1.000000 1.004319 1.000000
## [7873] 1.002159 1.000000 1.004316 1.000000 1.000000 1.004315 1.002157 1.002157
## [7881] 1.002157 1.002157 1.002156 1.004311 1.002156 1.002155 1.002155 1.002155
## [7889] 1.002155 1.002154 1.002154 1.002154 1.002154 1.002153 1.004305 1.000000
## [7897] 1.002152 1.002152 1.000000 1.002152 1.002151 1.002151 1.002151 1.000000
## [7905] 1.000000 1.002150 1.002150 1.000000 1.002149 1.002149 1.000000 1.000000
## [7913] 1.000000 1.002148 1.000000 1.004290 1.002147 1.002147 1.000000 1.000000
## [7921] 1.002146 1.000000 1.002145 1.000000 1.002145 1.000000 1.000000 1.002144
## [7929] 1.002144 1.000000 1.002143 1.002143 1.002143 1.000000 1.000000 1.004283
## [7937] 1.000000 1.000000 1.002141 1.002141 1.002141 1.002140 1.002140 1.000000
## [7945] 1.002139 1.002139 1.000000 1.000000 1.002138 1.000000 1.000000 1.000000
## [7953] 1.000000 1.000000 1.000000 1.002136 1.000000 1.000000 1.002136 1.000000
## [7961] 1.002135 1.000000 1.000000 1.002134 1.002134 1.000000 1.000000 1.002133
## [7969] 1.000000 1.000000 1.002132 1.000000 1.000000 1.000000 1.000000 1.000000
## [7977] 1.002131 1.002131 1.000000 1.000000 1.002130 1.000000 1.002129 1.002129
## [7985] 1.000000 1.000000 1.002128 1.002128 1.002128 1.002127 1.000000 1.002127
## [7993] 1.000000 1.000000 1.002126 1.000000 1.000000 1.004246 1.000000 1.002125
## [8001] 1.000000 1.000000 1.002124 1.002124 1.000000 1.004246 1.002123 1.002123
## [8009] 1.002122 1.002122 1.002122 1.002122 1.002121 1.000000 1.000000 1.002120

```

```

## [8017] 1.000000 1.000000 1.000000 1.002119 1.000000 1.002119 1.000000 1.002118
## [8025] 1.000000 1.004235 1.000000 1.002117 1.002117 1.000000 1.004228 1.000000
## [8033] 1.000000 1.000000 1.002115 1.000000 1.000000 1.000000 1.000000 1.000000
## [8041] 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000
## [8049] 1.006334 1.000000 1.000000 1.002111 1.002111 1.000000 1.002110 1.000000
## [8057] 1.000000 1.000000 1.002109 1.000000 1.000000 1.002108 1.000000 1.002108
## [8065] 1.002108 1.000000 1.000000 1.002107 1.002107 1.002106 1.002106 1.002106
## [8073] 1.000000 1.002105 1.002105 1.002105 1.000000 1.002104 1.002104 1.000000
## [8081] 1.000000 1.000000 1.004205 1.002103 1.000000 1.000000 1.000000 1.000000
## [8089] 1.002101 1.002101 1.002101 1.004201 1.004200 1.000000 1.002100 1.000000
## [8097] 1.000000 1.000000 1.004193 1.002099 1.002098 1.000000 1.002098 1.004194
## [8105] 1.002097 1.000000 1.002097 1.000000 1.000000 1.002096 1.000000 1.000000
## [8113] 1.000000 1.000000 1.002095 1.002094 1.002094 1.000000 1.002094 1.002093
## [8121] 1.002093 1.002093 1.000000 1.000000 1.000000 1.000000 1.002092 1.002091
## [8129] 1.002091 1.000000 1.000000 1.000000 1.006264 1.002090 1.002089 1.002089
## [8137] 1.002089 1.000000 1.000000 1.000000 1.002088 1.000000 1.002087 1.002087
## [8145] 1.000000 1.002087 1.000000 1.000000 1.002086 1.000000 1.004166 1.002085
## [8153] 1.002085 1.002085 1.002084 1.000000 1.002084 1.002084 1.000000 1.002083
## [8161] 1.000000 1.004161 1.002082 1.002082 1.000000 1.002082 1.000000 1.002081
## [8169] 1.000000 1.002081 1.002080 1.000000 1.002080 1.002080 1.002079 1.000000
## [8177] 1.000000 1.002078 1.000000 1.000000 1.002078 1.002077 1.000000 1.002077
## [8185] 1.004149 1.000000 1.000000 1.004147 1.002076 1.000000 1.002075 1.002075
## [8193] 1.000000 1.002074 1.000000 1.000000 1.000000 1.002073 1.002073 1.004145
## [8201] 1.002073 1.000000 1.002072 1.002072 1.000000 1.000000 1.004142 1.000000
## [8209] 1.000000 1.000000 1.000000 1.002070 1.002070 1.002069 1.000000 1.002069
## [8217] 1.000000 1.002068 1.000000 1.002068 1.002068 1.000000 1.002067 1.002067
## [8225] 1.000000 1.002066 1.000000 1.002066 1.000000 1.000000 1.002065 1.000000
## [8233] 1.002065 1.002064 1.002064 1.002064 1.002064 1.000000 1.002063 1.000000
## [8241] 1.002063 1.002062 1.000000 1.000000 1.000000 1.002061 1.000000 1.000000
## [8249] 1.000000 1.002060 1.000000 1.000000 1.002060 1.000000 1.000000 1.002059
## [8257] 1.002059 1.002058 1.002058 1.000000 1.004111 1.000000 1.002057 1.002057
## [8265] 1.002057 1.002056 1.002056 1.000000 1.002056 1.000000 1.000000 1.000000
## [8273] 1.002055 1.002054 1.002054 1.000000 1.002054 1.002053 1.000000 1.002053
## [8281] 1.000000 1.002052 1.002052 1.002052 1.002052 1.000000 1.002051 1.002051
## [8289] 1.000000 1.002050 1.002050 1.000000 1.000000 1.002049 1.002049 1.000000
## [8297] 1.000000 1.002048 1.002048 1.002048 1.002048 1.002047 1.000000 1.000000
## [8305] 1.002047 1.002046 1.002046 1.000000 1.000000 1.002045 1.000000 1.000000
## [8313] 1.000000 1.000000 1.000000 1.000000 1.000000 1.002044 1.000000 1.000000
## [8321] 1.002043 1.002043 1.002042 1.002042 1.002042 1.002042 1.000000 1.002041
## [8329] 1.000000 1.002041 1.002040 1.002040 1.004079 1.000000 1.002039 1.002039
## [8337] 1.002039 1.000000 1.002038 1.000000 1.002038 1.000000 1.000000 1.004070
## [8345] 1.002037 1.000000 1.000000 1.000000 1.002036 1.002036 1.000000 1.000000
## [8353] 1.000000 1.004065 1.002034 1.002034 1.000000 1.004063 1.000000 1.000000
## [8361] 1.000000 1.000000 1.002033 1.002032 1.002032 1.000000 1.000000 1.000000
## [8369] 1.002031 1.000000 1.000000 1.002030 1.002030 1.000000 1.002030 1.002029
## [8377] 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.002028 1.002027
## [8385] 1.000000 1.000000 1.002027 1.002026 1.002026 1.002026 1.002026 1.002025
## [8393] 1.000000 1.000000 1.002025 1.000000 1.000000 1.002024 1.000000 1.000000
## [8401] 1.000000 1.002023 1.002023 1.002023 1.002022 1.002022 1.002022 1.000000
## [8409] 1.000000 1.000000 1.000000 1.004041 1.000000 1.000000 1.002020 1.002020
## [8417] 1.002019 1.000000 1.002019 1.002019 1.002019 1.002018 1.002018 1.000000
## [8425] 1.000000 1.002017 1.002017 1.002017 1.000000 1.002016 1.000000 1.000000
## [8433] 1.002016 1.000000 1.002015 1.002015 1.000000 1.002014 1.002014 1.002014
## [8441] 1.000000 1.000000 1.000000 1.004022 1.002013 1.000000 1.000000 1.002012

```

```

## [8449] 1.000000 1.002012 1.002011 1.000000 1.000000 1.000000 1.002010 1.002010
## [8457] 1.002010 1.000000 1.002009 1.002009 1.000000 1.000000 1.002009 1.006020
## [8465] 1.002008 1.004011 1.000000 1.002007 1.004010 1.000000 1.000000 1.000000
## [8473] 1.000000 1.000000 1.000000 1.000000 1.000000 1.002005 1.000000 1.000000
## [8481] 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.002003 1.004005
## [8489] 1.000000 1.000000 1.000000 1.004003 1.000000 1.000000 1.000000 1.002001
## [8497] 1.002000 1.000000 1.000000 1.003995 1.000000 1.001999 1.001999 1.001999
## [8505] 1.000000 1.000000 1.000000 1.001998 1.000000 1.000000 1.000000 1.001997
## [8513] 1.000000 1.000000 1.001996 1.001996 1.000000 1.000000 1.000000 1.000000
## [8521] 1.000000 1.000000 1.001994 1.000000 1.000000 1.000000 1.003983 1.000000
## [8529] 1.000000 1.001993 1.001992 1.000000 1.001992 1.001992 1.001992 1.000000
## [8537] 1.000000 1.001991 1.001991 1.000000 1.000000 1.000000 1.003975 1.001989
## [8545] 1.001989 1.001989 1.001989 1.001989 1.000000 1.001988 1.001988 1.001988
## [8553] 1.001987 1.000000 1.001987 1.000000 1.001986 1.000000 1.001986 1.001986
## [8561] 1.001986 1.001985 1.001985 1.000000 1.003965 1.001984 1.000000 1.005947
## [8569] 1.001984 1.001983 1.001983 1.001983 1.001983 1.001983 1.000000 1.000000
## [8577] 1.000000 1.001982 1.001981 1.001981 1.000000 1.000000 1.000000 1.000000
## [8585] 1.000000 1.001980 1.000000 1.001979 1.000000 1.000000 1.001979 1.000000
## [8593] 1.001978 1.000000 1.000000 1.007907 1.001977 1.001977 1.001977 1.001977
## [8601] 1.001976 1.000000 1.001976 1.001976 1.000000 1.001975 1.001975 1.000000
## [8609] 1.001974 1.000000 1.000000 1.001974 1.000000 1.000000 1.001973 1.001973
## [8617] 1.000000 1.000000 1.005904 1.001972 1.000000 1.001971 1.001971 1.001971
## [8625] 1.000000 1.000000 1.001970 1.001970 1.001970 1.000000 1.001969 1.000000
## [8633] 1.003937 1.000000 1.001969 1.001968 1.000000 1.000000 1.000000 1.001967
## [8641] 1.001967 1.001967 1.001967 1.000000 1.000000 1.001966 1.001966 1.000000
## [8649] 1.000000 1.001965 1.000000 1.000000 1.001964 1.001964 1.000000 1.000000
## [8657] 1.000000 1.000000 1.000000 1.000000 1.000000 1.001962 1.001962 1.001962
## [8665] 1.000000 1.001961 1.000000 1.000000 1.001961 1.000000 1.001960 1.001960
## [8673] 1.001960 1.001960 1.001959 1.000000 1.000000 1.001959 1.001959 1.001958
## [8681] 1.003916 1.001958 1.003911 1.001957 1.001957 1.001957 1.001957 1.001956
## [8689] 1.001956 1.001956 1.000000 1.001956 1.000000 1.003906 1.001955 1.001955
## [8697] 1.001954 1.001954 1.001954 1.001954 1.001954 1.000000 1.001953 1.000000
## [8705] 1.000000 1.000000 1.000000 1.001952 1.000000 1.000000 1.000000 1.001951
## [8713] 1.000000 1.001951 1.001950 1.000000 1.003896 1.001950 1.001950 1.000000
## [8721] 1.001949 1.001949 1.001949 1.001948 1.001948 1.001948 1.000000 1.001948
## [8729] 1.001947 1.001947 1.001947 1.001947 1.001946 1.000000 1.007760 1.000000
## [8737] 1.001946 1.001945 1.000000 1.001945 1.001945 1.000000 1.000000 1.000000
## [8745] 1.001944 1.003887 1.001943 1.000000 1.001943 1.000000 1.001942 1.000000
## [8753] 1.000000 1.001942 1.001942 1.001941 1.000000 1.000000 1.001941 1.001940
## [8761] 1.001940 1.001940 1.000000 1.001940 1.001939 1.001939 1.001939 1.000000
## [8769] 1.001938 1.005810 1.001938 1.001938 1.001938 1.001937 1.001937 1.000000
## [8777] 1.001937 1.000000 1.001936 1.001936 1.001936 1.000000 1.000000 1.000000
## [8785] 1.001935 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000
## [8793] 1.000000 1.000000 1.001933 1.000000 1.001932 1.001932 1.003860 1.000000
## [8801] 1.001931 1.001931 1.000000 1.001931 1.000000 1.001930 1.001930 1.001930
## [8809] 1.003855 1.001929 1.001929 1.001929 1.000000 1.001929 1.001928 1.001928
## [8817] 1.000000 1.001928 1.001927 1.001927 1.000000 1.000000 1.003853 1.001926
## [8825] 1.000000 1.000000 1.001926 1.001925 1.001925 1.000000 1.001925 1.001925
## [8833] 1.003845 1.001924 1.001924 1.001924 1.001924 1.003846 1.000000 1.001923
## [8841] 1.000000 1.000000 1.000000 1.001922 1.000000 1.001922 1.001921 1.000000
## [8849] 1.000000 1.000000 1.001920 1.001920 1.001920 1.000000 1.001920 1.001919
## [8857] 1.000000 1.001919 1.001919 1.001919 1.001918 1.000000 1.000000 1.000000
## [8865] 1.001917 1.000000 1.001917 1.000000 1.000000 1.001916 1.000000 1.001916
## [8873] 1.001916 1.003831 1.001915 1.001915 1.001915 1.003829 1.001914 1.001914

```

```

## [8881] 1.001914 1.000000 1.001914 1.001913 1.001913 1.000000 1.001913 1.001912
## [8889] 1.001912 1.000000 1.001912 1.001912 1.000000 1.001911 1.000000 1.000000
## [8897] 1.000000 1.001910 1.000000 1.003819 1.001910 1.001909 1.001909 1.000000
## [8905] 1.001909 1.000000 1.001908 1.001908 1.001908 1.000000 1.001908 1.001907
## [8913] 1.000000 1.000000 1.001907 1.000000 1.001906 1.000000 1.000000 1.001906
## [8921] 1.001905 1.001905 1.001905 1.001905 1.001905 1.001904 1.000000 1.001904
## [8929] 1.001904 1.001903 1.001903 1.001903 1.000000 1.001903 1.000000 1.000000
## [8937] 1.000000 1.001902 1.001902 1.001901 1.001901 1.001901 1.000000 1.001901
## [8945] 1.001900 1.000000 1.001900 1.003795 1.001899 1.000000 1.001899 1.000000
## [8953] 1.001899 1.000000 1.000000 1.000000 1.001898 1.001898 1.001897 1.000000
## [8961] 1.001897 1.000000 1.001896 1.003789 1.001896 1.000000 1.001896 1.001895
## [8969] 1.000000 1.000000 1.001895 1.000000 1.000000 1.001894 1.001894 1.001894
## [8977] 1.003787 1.001893 1.000000 1.000000 1.001893 1.000000 1.000000 1.005665
## [8985] 1.000000 1.000000 1.001891 1.000000 1.001891 1.001891 1.001891 1.001890
## [8993] 1.000000 1.000000 1.000000 1.001890 1.001889 1.005666 1.000000 1.000000
## [9001] 1.000000 1.000000 1.001888 1.005662 1.000000 1.000000 1.001887 1.000000
## [9009] 1.000000 1.000000 1.000000 1.001886 1.001886 1.001886 1.000000 1.001885
## [9017] 1.000000 1.001885 1.000000 1.000000 1.000000 1.000000 1.001884 1.001884
## [9025] 1.000000 1.001883 1.005648 1.001883 1.001883 1.000000 1.001882 1.000000
## [9033] 1.000000 1.000000 1.000000 1.000000 1.001881 1.000000 1.001881 1.007515
## [9041] 1.001880 1.001880 1.000000 1.001879 1.001879 1.001879 1.001879 1.000000
## [9049] 1.000000 1.000000 1.011252 1.001878 1.000000 1.001877 1.000000 1.001877
## [9057] 1.001877 1.000000 1.005625 1.003749 1.001876 1.001876 1.003751 1.003750
## [9065] 1.001875 1.001875 1.000000 1.000000 1.001874 1.003748 1.001874 1.000000
## [9073] 1.001873 1.001873 1.000000 1.000000 1.000000 1.000000 1.001872 1.001872
## [9081] 1.001872 1.001872 1.000000 1.001871 1.001871 1.000000 1.001871 1.001870
## [9089] 1.000000 1.000000 1.001870 1.000000 1.001869 1.000000 1.001869 1.001869
## [9097] 1.001869 1.000000 1.001868 1.003735 1.000000 1.001868 1.001867 1.000000
## [9105] 1.001867 1.001867 1.001866 1.001866 1.000000 1.001866 1.001866 1.001865
## [9113] 1.001865 1.001865 1.001865 1.001865 1.000000 1.001864 1.000000 1.000000
## [9121] 1.000000 1.001863 1.003723 1.000000 1.000000 1.000000 1.000000 1.000000
## [9129] 1.001862 1.001862 1.001862 1.000000 1.001861 1.000000 1.000000 1.001861
## [9137] 1.001860 1.001860 1.001860 1.000000 1.001860 1.000000 1.000000 1.000000
## [9145] 1.001859 1.000000 1.001858 1.001858 1.001858 1.000000 1.003711 1.000000
## [9153] 1.001857 1.001857 1.000000 1.000000 1.001856 1.001856 1.000000 1.001856
## [9161] 1.001855 1.001855 1.000000 1.000000 1.000000 1.001854 1.001854 1.000000
## [9169] 1.001854 1.001854 1.001853 1.001853 1.000000 1.000000 1.001853 1.000000
## [9177] 1.000000 1.000000 1.001852 1.001852 1.001851 1.001851 1.000000 1.000000
## [9185] 1.001851 1.001850 1.000000 1.001850 1.000000 1.000000 1.001849 1.001849
## [9193] 1.001849 1.001849 1.001849 1.001848 1.000000 1.001848 1.000000 1.001848
## [9201] 1.001847 1.000000 1.001847 1.003693 1.001847 1.000000 1.001846 1.000000
## [9209] 1.001846 1.001846 1.001845 1.000000 1.000000 1.000000 1.000000 1.001844
## [9217] 1.001844 1.000000 1.000000 1.000000 1.003683 1.001843 1.000000 1.001843
## [9225] 1.001843 1.001842 1.001842 1.001842 1.001842 1.000000 1.001841 1.000000
## [9233] 1.000000 1.001841 1.000000 1.003680 1.000000 1.000000 1.001840 1.000000
## [9241] 1.001839 1.001839 1.000000 1.000000 1.001839 1.001838 1.001838 1.001838
## [9249] 1.000000 1.001838 1.003671 1.001837 1.000000 1.001837 1.001837 1.001836
## [9257] 1.001836 1.001836 1.001836 1.001836 1.000000 1.001835 1.000000 1.001835
## [9265] 1.005503 1.000000 1.000000 1.001834 1.000000 1.001834 1.000000 1.001833
## [9273] 1.005489 1.000000 1.001833 1.001832 1.003664 1.001832 1.000000 1.001832
## [9281] 1.001832 1.005493 1.001831 1.000000 1.001831 1.001831 1.000000 1.000000
## [9289] 1.000000 1.003656 1.001830 1.001829 1.000000 1.001829 1.000000 1.000000
## [9297] 1.000000 1.001828 1.001828 1.001828 1.001828 1.001827 1.000000 1.000000
## [9305] 1.001827 1.000000 1.000000 1.001826 1.001826 1.001826 1.001826 1.000000

```

```

## [9313] 1.001825 1.001825 1.001825 1.001825 1.000000 1.001824 1.000000 1.000000
## [9321] 1.001824 1.001823 1.001823 1.000000 1.000000 1.000000 1.001822 1.000000
## [9329] 1.000000 1.001822 1.000000 1.000000 1.000000 1.000000 1.001821 1.000000
## [9337] 1.000000 1.000000 1.000000 1.001820 1.000000 1.000000 1.000000 1.001819
## [9345] 1.000000 1.000000 1.005445 1.001818 1.000000 1.001818 1.001818 1.000000
## [9353] 1.001817 1.001817 1.001817 1.000000 1.001817 1.000000 1.001816 1.000000
## [9361] 1.000000 1.000000 1.000000 1.001815 1.000000 1.000000 1.001815 1.001814
## [9369] 1.001814 1.001814 1.000000 1.000000 1.001814 1.000000 1.001813 1.001813
## [9377] 1.001813 1.001813 1.000000 1.001812 1.000000 1.000000 1.000000 1.000000
## [9385] 1.001811 1.000000 1.001811 1.001811 1.001810 1.001810 1.001810 1.001810
## [9393] 1.001810 1.000000 1.001809 1.000000 1.000000 1.001809 1.005421 1.000000
## [9401] 1.001808 1.001808 1.000000 1.000000 1.000000 1.001807 1.001807 1.001807
## [9409] 1.001807 1.001806 1.000000 1.000000 1.001806 1.003608 1.000000 1.001805
## [9417] 1.000000 1.000000 1.000000 1.001804 1.000000 1.001804 1.001804 1.001804
## [9425] 1.001804 1.000000 1.001803 1.001803 1.000000 1.001803 1.001802 1.001802
## [9433] 1.000000 1.001802 1.000000 1.001801 1.003599 1.000000 1.000000 1.001801
## [9441] 1.000000 1.000000 1.000000 1.000000 1.000000 1.001800 1.001799 1.001799
## [9449] 1.001799 1.001799 1.000000 1.001798 1.001798 1.000000 1.001798 1.000000
## [9457] 1.000000 1.001797 1.000000 1.001797 1.001797 1.001796 1.000000 1.000000
## [9465] 1.001796 1.001796 1.000000 1.000000 1.001795 1.000000 1.001795 1.001795
## [9473] 1.000000 1.001794 1.001794 1.000000 1.001794 1.003586 1.000000 1.000000
## [9481] 1.001793 1.001793 1.001792 1.001792 1.000000 1.000000 1.000000 1.000000
## [9489] 1.000000 1.000000 1.001791 1.000000 1.000000 1.000000 1.001790 1.000000
## [9497] 1.001790 1.000000 1.001789 1.000000 1.000000 1.005366 1.001789 1.003577
## [9505] 1.001788 1.003576 1.000000 1.001788 1.001788 1.000000 1.000000 1.001787
## [9513] 1.000000 1.001787 1.001786 1.001786 1.000000 1.003571 1.000000 1.001786
## [9521] 1.001785 1.000000 1.001785 1.001785 1.001785 1.000000 1.001784 1.000000
## [9529] 1.000000 1.000000 1.001783 1.000000 1.000000 1.000000 1.001783 1.000000
## [9537] 1.001782 1.000000 1.001782 1.001782 1.000000 1.000000 1.001781 1.000000
## [9545] 1.000000 1.000000 1.003561 1.000000 1.000000 1.001780 1.000000 1.000000
## [9553] 1.003555 1.000000 1.001779 1.001779 1.000000 1.001778 1.000000 1.000000
## [9561] 1.003555 1.000000 1.001777 1.001777 1.000000 1.001777 1.003553 1.000000
## [9569] 1.000000 1.001776 1.000000 1.001776 1.001776 1.001775 1.000000 1.000000
## [9577] 1.001775 1.000000 1.003549 1.001774 1.001774 1.001774 1.001774 1.001774
## [9585] 1.000000 1.000000 1.000000 1.001773 1.003545 1.000000 1.001772 1.000000
## [9593] 1.003544 1.000000 1.001772 1.001771 1.001771 1.001771 1.001771 1.001771
## [9601] 1.001770 1.000000 1.000000 1.001770 1.001770 1.001770 1.001769 1.001769
## [9609] 1.001769 1.001769 1.001769 1.000000 1.001768 1.001768 1.001768 1.001768
## [9617] 1.000000 1.000000 1.001767 1.001767 1.001767 1.000000 1.000000 1.000000
## [9625] 1.001766 1.001766 1.001766 1.001766 1.000000 1.001765 1.001765 1.001765
## [9633] 1.003526 1.000000 1.000000 1.000000 1.000000 1.001764 1.000000 1.003526
## [9641] 1.000000 1.003526 1.003525 1.000000 1.001762 1.000000 1.001762 1.001762
## [9649] 1.001762 1.000000 1.001761 1.001761 1.001761 1.000000 1.001761 1.003520
## [9657] 1.001760 1.001760 1.000000 1.000000 1.000000 1.000000 1.000000 1.001759
## [9665] 1.001759 1.001759 1.001758 1.001758 1.000000 1.000000 1.001758 1.001757
## [9673] 1.001757 1.001757 1.001757 1.001757 1.001757 1.000000 1.000000 1.001756
## [9681] 1.000000 1.001756 1.000000 1.003510 1.000000 1.000000 1.003509 1.003506
## [9689] 1.000000 1.001754 1.001754 1.001754 1.000000 1.001753 1.000000 1.001753
## [9697] 1.000000 1.000000 1.000000 1.001752 1.001752 1.001752 1.000000 1.001752
## [9705] 1.001751 1.000000 1.001751 1.000000 1.001751 1.001751 1.001750 1.003500
## [9713] 1.000000 1.000000 1.001750 1.000000 1.000000 1.001749 1.001749 1.000000
## [9721] 1.000000 1.001748 1.001748 1.000000 1.001748 1.000000 1.001748 1.000000
## [9729] 1.001747 1.001747 1.001747 1.000000 1.001746 1.000000 1.000000 1.001746
## [9737] 1.000000 1.001746 1.001745 1.000000 1.000000 1.001745 1.001745 1.000000

```

```

## [9745] 1.000000 1.001744 1.001744 1.001744 1.001744 1.001743 1.001743 1.000000
## [9753] 1.001743 1.000000 1.001743 1.000000 1.000000 1.001742 1.001742 1.001742
## [9761] 1.001741 1.001741 1.000000 1.001741 1.001741 1.001741 1.001740 1.000000
## [9769] 1.000000 1.000000 1.001740 1.001739 1.001739 1.001739 1.001739 1.001739
## [9777] 1.000000 1.000000 1.000000 1.000000 1.000000 1.001738 1.001738 1.001737
## [9785] 1.005210 1.001737 1.000000 1.000000 1.000000 1.001736 1.001736 1.001736
## [9793] 1.001736 1.000000 1.000000 1.001735 1.001735 1.001735 1.001735 1.000000
## [9801] 1.001734 1.001734 1.001734 1.001734 1.001734 1.001733 1.000000 1.001733
## [9809] 1.001733 1.001733 1.001733 1.000000 1.001732 1.001732 1.001732 1.000000
## [9817] 1.003463 1.003462 1.001731 1.001731 1.001731 1.001731 1.001730 1.003460
## [9825] 1.001730 1.001730 1.000000 1.000000 1.001729 1.000000 1.000000 1.001729
## [9833] 1.000000 1.001729 1.001728 1.003456 1.001728 1.001728 1.003455 1.001727
## [9841] 1.001727 1.001727 1.001727 1.000000 1.000000 1.001726 1.001726 1.001726
## [9849] 1.001726 1.001726 1.001726 1.003450 1.000000 1.001725 1.001725 1.000000
## [9857] 1.003446 1.000000 1.001724 1.000000 1.001724 1.000000 1.001723 1.001723
## [9865] 1.000000 1.001723 1.000000 1.000000 1.001722 1.000000 1.001722 1.000000
## [9873] 1.000000 1.000000 1.000000 1.001721 1.001721 1.001721 1.001721 1.001720
## [9881] 1.001720 1.001720 1.001720 1.000000 1.001720 1.000000 1.003438 1.001719
## [9889] 1.000000 1.001719 1.001719 1.000000 1.003436 1.000000 1.001718 1.001718
## [9897] 1.001718 1.001717 1.001717 1.000000 1.001717 1.001717 1.000000 1.000000
## [9905] 1.001716 1.001716 1.000000 1.001716 1.001715 1.001715 1.000000 1.001715
## [9913] 1.001715 1.001715 1.001714 1.000000 1.001714 1.001714 1.001714 1.001714
## [9921] 1.001713 1.001713 1.001713 1.000000 1.001713 1.001713 1.003422 1.000000
## [9929] 1.001712 1.001712 1.001712 1.001711 1.001711 1.000000 1.001711 1.001711
## [9937] 1.000000 1.001710 1.000000 1.003417 1.000000 1.000000 1.001710 1.001709
## [9945] 1.000000 1.001709 1.001709 1.001709 1.000000 1.000000 1.000000 1.000000
## [9953] 1.001708 1.000000 1.001708 1.000000 1.001707 1.001707 1.001707 1.001707
## [9961] 1.001706 1.000000 1.000000 1.001706 1.001706 1.001706 1.001705 1.000000
## [9969] 1.001705 1.001705 1.001705 1.000000 1.001704 1.000000 1.001704 1.001704
## [9977] 1.000000 1.001704 1.001703 1.001703 1.000000 1.001703 1.000000 1.001703
## [9985] 1.001702 1.001702 1.001702 1.000000 1.000000 1.000000 1.001701 1.001701
## [9993] 1.001701 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000
## [10001] 1.001700 1.001699 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000
## [10009] 1.001698 1.001698 1.001698 1.000000 1.000000 1.001697 1.000000 1.001697
## [10017] 1.001697 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.001696
## [10025] 1.001696 1.001695 1.001695 1.000000 1.001695 1.001695 1.000000 1.000000
## [10033] 1.000000 1.001694 1.000000 1.005072 1.001694 1.000000 1.003383 1.001693
## [10041] 1.001693 1.001693 1.000000 1.000000 1.001692 1.001692 1.000000 1.001692
## [10049] 1.001692 1.001691 1.001691 1.001691 1.000000 1.001691 1.001691 1.000000
## [10057] 1.000000 1.001690 1.001690 1.001690 1.000000 1.001689 1.001689 1.001689
## [10065] 1.000000 1.001689 1.001689 1.001688 1.001688 1.001688 1.001688 1.001688
## [10073] 1.000000 1.000000 1.001687 1.001687 1.003371 1.001687 1.001687 1.001686
## [10081] 1.001686 1.003372 1.000000 1.001686 1.000000 1.001685 1.000000 1.000000
## [10089] 1.000000 1.000000 1.001685 1.001684 1.000000 1.000000 1.000000 1.001684
## [10097] 1.001684 1.001683 1.001683 1.001683 1.001683 1.001683 1.001683 1.000000
## [10105] 1.003364 1.000000 1.001682 1.001682 1.000000 1.001681 1.001681 1.001681
## [10113] 1.000000 1.001681 1.000000 1.001680 1.001680 1.001680 1.001680 1.005038
## [10121] 1.000000 1.001679 1.001679 1.001679 1.001679 1.000000 1.000000 1.000000
## [10129] 1.000000 1.000000 1.000000 1.000000 1.000000 1.001677 1.000000 1.001677
## [10137] 1.001677 1.000000 1.000000 1.001676 1.001676 1.001676 1.000000 1.000000
## [10145] 1.001676 1.001675 1.000000 1.000000 1.001675 1.001675 1.001675 1.000000
## [10153] 1.001674 1.001674 1.001674 1.000000 1.000000 1.001673 1.001673 1.001673
## [10161] 1.001673 1.000000 1.000000 1.000000 1.000000 1.001672 1.001672 1.000000
## [10169] 1.000000 1.000000 1.000000 1.000000 1.000000 1.001671 1.001671 1.000000

```

```

## [10177] 1.001670 1.001670 1.001670 1.001670 1.001670 1.001669 1.001669 1.001669
## [10185] 1.000000 1.000000 1.000000 1.001668 1.001668 1.000000 1.000000 1.000000
## [10193] 1.003335 1.001667 1.001667 1.000000 1.000000 1.001667 1.000000 1.000000
## [10201] 1.001666 1.001666 1.001666 1.000000 1.000000 1.001666 1.001665 1.000000
## [10209] 1.000000 1.001665 1.001665 1.003329 1.000000 1.001664 1.001664 1.001664
## [10217] 1.000000 1.001664 1.000000 1.001663 1.001663 1.001663 1.001663 1.001663
## [10225] 1.001662 1.000000 1.000000 1.001662 1.001662 1.000000 1.001661 1.001661
## [10233] 1.003319 1.001661 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000
## [10241] 1.000000 1.001660 1.000000 1.001659 1.000000 1.001659 1.000000 1.001659
## [10249] 1.000000 1.001658 1.001658 1.001658 1.001658 1.001658 1.000000 1.001657
## [10257] 1.001657 1.000000 1.000000 1.001657 1.003310 1.001656 1.001656 1.006623
## [10265] 1.001656 1.001656 1.001656 1.000000 1.000000 1.000000 1.000000 1.001655
## [10273] 1.004960 1.001655 1.000000 1.001654 1.001654 1.001654 1.001654 1.001654
## [10281] 1.000000 1.000000 1.001653 1.000000 1.001653 1.001653 1.000000 1.003302
## [10289] 1.001652 1.000000 1.001652 1.000000 1.000000 1.000000 1.001651 1.000000
## [10297] 1.000000 1.000000 1.000000 1.000000 1.001650 1.001650 1.001650 1.001650
## [10305] 1.000000 1.003298 1.000000 1.001649 1.001649 1.001649 1.001649 1.001648
## [10313] 1.000000 1.001648 1.001648 1.001648 1.000000 1.003295 1.000000 1.001647
## [10321] 1.000000 1.000000 1.003290 1.001646 1.001646 1.000000 1.000000 1.000000
## [10329] 1.001646 1.000000 1.001645 1.003288 1.001645 1.001645 1.000000 1.000000
## [10337] 1.000000 1.000000 1.000000 1.000000 1.001644 1.000000 1.001643 1.001643
## [10345] 1.001643 1.000000 1.000000 1.001643 1.000000 1.001642 1.001642 1.000000
## [10353] 1.001642 1.000000 1.000000 1.001641 1.003280 1.004920 1.001641 1.000000
## [10361] 1.000000 1.000000 1.001640 1.000000 1.001640 1.001640 1.000000 1.000000
## [10369] 1.003276 1.000000 1.000000 1.000000 1.004913 1.001639 1.001638 1.001638
## [10377] 1.001638 1.000000 1.001638 1.000000 1.001637 1.001637 1.000000 1.000000
## [10385] 1.001637 1.000000 1.000000 1.000000 1.001636 1.000000 1.001636 1.001636
## [10393] 1.000000 1.000000 1.001635 1.001635 1.001635 1.001635 1.000000 1.001634
## [10401] 1.000000 1.000000 1.000000 1.001634 1.000000 1.000000 1.000000 1.001633
## [10409] 1.001633 1.000000 1.000000 1.001633 1.001632 1.006520 1.000000 1.003264
## [10417] 1.000000 1.000000 1.000000 1.001631 1.001631 1.001631 1.001631 1.001631
## [10425] 1.000000 1.000000 1.001630 1.001630 1.001630 1.000000 1.000000 1.001629
## [10433] 1.001629 1.000000 1.000000 1.001629 1.000000 1.001629 1.001628 1.000000
## [10441] 1.000000 1.000000 1.000000 1.003252 1.001627 1.000000 1.000000 1.001627
## [10449] 1.001627 1.001627 1.001626 1.001626 1.001626 1.000000 1.000000 1.000000
## [10457] 1.000000 1.003248 1.001625 1.000000 1.001625 1.003247 1.001625 1.001624
## [10465] 1.001624 1.001624 1.000000 1.001624 1.001624 1.001624 1.000000 1.001623
## [10473] 1.000000 1.000000 1.000000 1.000000 1.000000 1.003242 1.001622 1.000000
## [10481] 1.000000 1.001622 1.001622 1.001621 1.001621 1.001621 1.001621 1.001621
## [10489] 1.001621 1.001620 1.003238 1.000000 1.001620 1.001620 1.000000 1.001620
## [10497] 1.001619 1.000000 1.000000 1.000000 1.001619 1.001619 1.000000 1.000000
## [10505] 1.000000 1.000000 1.000000 1.000000 1.000000 1.001617 1.001617 1.001617
## [10513] 1.000000 1.000000 1.001617 1.000000 1.000000 1.001616 1.001616 1.000000
## [10521] 1.001616 1.000000 1.001615 1.000000 1.000000 1.000000 1.001615 1.001615
## [10529] 1.000000 1.001614 1.001614 1.001614 1.001614 1.000000 1.001614 1.001613
## [10537] 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000
## [10545] 1.000000 1.001612 1.000000 1.000000 1.000000 1.001611 1.001611 1.001611
## [10553] 1.000000 1.000000 1.000000 1.001610 1.001610 1.000000 1.001610 1.000000
## [10561] 1.000000 1.001609 1.000000 1.000000 1.001609 1.001609 1.001609 1.000000
## [10569] 1.000000 1.001608 1.000000 1.000000 1.001608 1.001608 1.000000 1.001607
## [10577] 1.000000 1.001607 1.000000 1.000000 1.003210 1.001606 1.000000 1.000000
## [10585] 1.001606 1.001606 1.001606 1.000000 1.003210 1.000000 1.000000 1.000000
## [10593] 1.003207 1.004813 1.000000 1.000000 1.000000 1.001604 1.001604 1.001604
## [10601] 1.000000 1.000000 1.001603 1.000000 1.001603 1.001603 1.000000 1.000000

```

```

## [10609] 1.003202 1.000000 1.000000 1.001602 1.001602 1.001602 1.001601 1.001601
## [10617] 1.001601 1.000000 1.001601 1.003198 1.000000 1.001600 1.000000 1.001600
## [10625] 1.000000 1.001600 1.000000 1.000000 1.000000 1.001599 1.001599 1.001599
## [10633] 1.001599 1.001598 1.001598 1.001598 1.001598 1.000000 1.001598 1.001598
## [10641] 1.000000 1.001597 1.001597 1.001597 1.001597 1.000000 1.001597 1.001596
## [10649] 1.001596 1.000000 1.001596 1.000000 1.000000 1.003188 1.001595 1.001595
## [10657] 1.001595 1.000000 1.001595 1.001595 1.001594 1.000000 1.001594 1.000000
## [10665] 1.001594 1.001594 1.001594 1.001593 1.001593 1.001593 1.001593 1.001593
## [10673] 1.001593 1.000000 1.000000 1.000000 1.001592 1.001592 1.001592 1.000000
## [10681] 1.001591 1.000000 1.001591 1.001591 1.001591 1.001591 1.001591 1.001590
## [10689] 1.000000 1.001590 1.001590 1.000000 1.001590 1.001590 1.000000 1.001589
## [10697] 1.003175 1.001589 1.000000 1.003177 1.001588 1.001588 1.000000 1.001588
## [10705] 1.001588 1.000000 1.001588 1.001587 1.000000 1.001587 1.001587 1.000000
## [10713] 1.000000 1.001587 1.000000 1.001586 1.000000 1.003172 1.004757 1.000000
## [10721] 1.000000 1.001585 1.000000 1.001585 1.000000 1.001585 1.001585 1.001584
## [10729] 1.001584 1.001584 1.000000 1.000000 1.001584 1.001584 1.000000 1.000000
## [10737] 1.000000 1.001583 1.001583 1.000000 1.003165 1.001582 1.000000 1.001582
## [10745] 1.001582 1.001582 1.000000 1.004741 1.003162 1.000000 1.001581 1.003159
## [10753] 1.001581 1.000000 1.000000 1.001580 1.001580 1.001580 1.001580 1.001580
## [10761] 1.001580 1.001579 1.001579 1.001579 1.001579 1.000000 1.000000 1.000000
## [10769] 1.000000 1.003156 1.001578 1.001578 1.001578 1.000000 1.001578 1.001577
## [10777] 1.000000 1.000000 1.001577 1.001577 1.001577 1.001577 1.001576 1.000000
## [10785] 1.000000 1.000000 1.001576 1.000000 1.001576 1.001575 1.000000 1.001575
## [10793] 1.000000 1.000000 1.000000 1.001575 1.003146 1.000000 1.001574 1.001574
## [10801] 1.000000 1.001574 1.001573 1.000000 1.000000 1.001573 1.000000 1.001573
## [10809] 1.001573 1.001572 1.001572 1.000000 1.001572 1.001572 1.001572 1.001572
## [10817] 1.000000 1.001571 1.003142 1.001571 1.001571 1.000000 1.000000 1.001570
## [10825] 1.000000 1.001570 1.001570 1.001570 1.000000 1.001570 1.000000 1.001569
## [10833] 1.001569 1.001569 1.001569 1.001569 1.003137 1.001568 1.001568 1.001568
## [10841] 1.000000 1.001568 1.000000 1.000000 1.000000 1.001567 1.000000 1.000000
## [10849] 1.001567 1.001567 1.001567 1.001566 1.000000 1.001566 1.000000 1.001566
## [10857] 1.003131 1.001566 1.000000 1.000000 1.000000 1.003127 1.000000 1.001565
## [10865] 1.000000 1.000000 1.001564 1.001564 1.001564 1.001564 1.000000 1.000000
## [10873] 1.001563 1.001563 1.000000 1.003123 1.001563 1.001563 1.001563 1.001562
## [10881] 1.000000 1.001562 1.001562 1.000000 1.001562 1.001561 1.001561 1.000000
## [10889] 1.001561 1.000000 1.000000 1.000000 1.001560 1.001560 1.001560 1.001560
## [10897] 1.001560 1.001560 1.001560 1.001559 1.001559 1.001559 1.000000 1.000000
## [10905] 1.000000 1.001559 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000
## [10913] 1.000000 1.001557 1.000000 1.001557 1.001557 1.001557 1.001557 1.000000
## [10921] 1.001556 1.001556 1.000000 1.000000 1.001556 1.001556 1.003109 1.001555
## [10929] 1.001555 1.001555 1.001555 1.001555 1.001555 1.001555 1.001554 1.000000
## [10937] 1.000000 1.000000 1.000000 1.003105 1.001554 1.001554 1.000000 1.001553
## [10945] 1.000000 1.001553 1.000000 1.001553 1.001553 1.000000 1.001552 1.001552
## [10953] 1.001552 1.000000 1.000000 1.001552 1.000000 1.003102 1.001551 1.001551
## [10961] 1.000000 1.000000 1.001551 1.001550 1.000000 1.001550 1.000000 1.000000
## [10969] 1.000000 1.001550 1.001549 1.000000 1.001549 1.001549 1.001549 1.001549
## [10977] 1.000000 1.001548 1.001548 1.000000 1.001548 1.001548 1.001548 1.001548
## [10985] 1.001547 1.000000 1.001547 1.001547 1.000000 1.001547 1.000000 1.001546
## [10993] 1.000000 1.001546 1.001546 1.001546 1.000000 1.001546 1.001545 1.000000
## [11001] 1.001545 1.000000 1.001545 1.000000 1.000000 1.000000 1.001544 1.001544
## [11009] 1.001544 1.001544 1.001544 1.001544 1.000000 1.001543 1.001543 1.001543
## [11017] 1.001543 1.001543 1.000000 1.000000 1.000000 1.000000 1.000000 1.003084
## [11025] 1.001542 1.001542 1.001542 1.000000 1.000000 1.003082 1.000000 1.001541
## [11033] 1.000000 1.000000 1.000000 1.001540 1.000000 1.000000 1.000000 1.001540

```

```

## [11041] 1.000000 1.001539 1.000000 1.000000 1.000000 1.001539 1.000000 1.000000
## [11049] 1.001538 1.001538 1.000000 1.001538 1.000000 1.000000 1.000000 1.001537
## [11057] 1.000000 1.001537 1.003072 1.003074 1.000000 1.001537 1.001537 1.001536
## [11065] 1.001536 1.000000 1.000000 1.000000 1.000000 1.001536 1.001535 1.001535
## [11073] 1.000000 1.000000 1.001535 1.000000 1.000000 1.003069 1.001534 1.000000
## [11081] 1.000000 1.001534 1.001534 1.001534 1.001533 1.000000 1.001533 1.000000
## [11089] 1.000000 1.001533 1.000000 1.000000 1.006121 1.001532 1.001532 1.000000
## [11097] 1.000000 1.001532 1.001532 1.000000 1.003062 1.000000 1.001531 1.000000
## [11105] 1.001531 1.001531 1.001530 1.000000 1.000000 1.001530 1.003059 1.001530
## [11113] 1.001530 1.001529 1.001529 1.001529 1.001529 1.001529 1.001529 1.001529
## [11121] 1.001529 1.001528 1.000000 1.001528 1.001528 1.001528 1.004580 1.000000
## [11129] 1.000000 1.001527 1.000000 1.001527 1.000000 1.001527 1.000000 1.001526
## [11137] 1.003050 1.000000 1.001526 1.001526 1.001526 1.003051 1.001525 1.001525
## [11145] 1.001525 1.001525 1.000000 1.001525 1.001525 1.001525 1.001524 1.000000
## [11153] 1.001524 1.000000 1.001524 1.001524 1.001524 1.001523 1.001523 1.000000
## [11161] 1.000000 1.001523 1.001523 1.001523 1.000000 1.000000 1.000000 1.000000
## [11169] 1.001522 1.001522 1.001522 1.001522 1.001521 1.000000 1.001521 1.000000
## [11177] 1.000000 1.001521 1.001521 1.001520 1.001520 1.001520 1.001520 1.001520
## [11185] 1.001520 1.001520 1.003039 1.000000 1.000000 1.003036 1.003038 1.001519
## [11193] 1.000000 1.000000 1.001518 1.001518 1.000000 1.000000 1.001518 1.000000
## [11201] 1.000000 1.001517 1.000000 1.003032 1.001517 1.001517 1.001517 1.000000
## [11209] 1.001517 1.000000 1.001516 1.001516 1.001516 1.001516 1.000000 1.000000
## [11217] 1.000000 1.001515 1.001515 1.001515 1.001515 1.000000 1.001515 1.001514
## [11225] 1.000000 1.001514 1.001514 1.001514 1.001514 1.001514 1.001514 1.001513
## [11233] 1.000000 1.001513 1.004532 1.000000 1.001513 1.001513 1.003025 1.000000
## [11241] 1.001512 1.001512 1.001512 1.000000 1.000000 1.003023 1.000000 1.001511
## [11249] 1.001511 1.001511 1.001511 1.001511 1.000000 1.000000 1.000000 1.001510
## [11257] 1.003020 1.000000 1.001510 1.001510 1.000000 1.001509 1.000000 1.001509
## [11265] 1.000000 1.000000 1.000000 1.000000 1.003017 1.001508 1.001508 1.000000
## [11273] 1.001508 1.001508 1.000000 1.000000 1.000000 1.001507 1.001507 1.001507
## [11281] 1.000000 1.001507 1.000000 1.000000 1.000000 1.000000 1.001506 1.000000
## [11289] 1.000000 1.000000 1.001505 1.000000 1.003008 1.001505 1.001505 1.000000
## [11297] 1.001505 1.001505 1.001504 1.001504 1.001504 1.000000 1.000000 1.000000
## [11305] 1.001504 1.003007 1.001503 1.001503 1.000000 1.000000 1.001503 1.001503
## [11313] 1.004507 1.001502 1.001502 1.001502 1.001502 1.000000 1.001502 1.001502
## [11321] 1.000000 1.001501 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000
## [11329] 1.001500 1.005998 1.001500 1.001500 1.000000 1.002999 1.000000 1.001500
## [11337] 1.002999 1.000000 1.000000 1.002998 1.001499 1.000000 1.001499 1.000000
## [11345] 1.000000 1.001498 1.001498 1.001498 1.001498 1.000000 1.000000 1.001497
## [11353] 1.001497 1.000000 1.002992 1.000000 1.001497 1.001497 1.000000 1.000000
## [11361] 1.001496 1.000000 1.001496 1.000000 1.001496 1.002989 1.001495 1.001495
## [11369] 1.000000 1.001495 1.001495 1.000000 1.001495 1.001495 1.001494 1.001494
## [11377] 1.001494 1.001494 1.001494 1.000000 1.000000 1.001493 1.001493 1.000000
## [11385] 1.001493 1.002984 1.000000 1.001493 1.001493 1.001492 1.000000 1.002984
## [11393] 1.001492 1.000000 1.001492 1.001492 1.000000 1.000000 1.000000 1.000000
## [11401] 1.002982 1.000000 1.000000 1.000000 1.000000 1.000000 1.001490 1.000000
## [11409] 1.001490 1.001490 1.001490 1.001490 1.001489 1.001489 1.000000 1.001489
## [11417] 1.001489 1.000000 1.000000 1.001488 1.001488 1.000000 1.000000 1.001488
## [11425] 1.000000 1.001488 1.002973 1.001487 1.000000 1.000000 1.001487 1.000000
## [11433] 1.000000 1.001487 1.000000 1.001486 1.000000 1.000000 1.001486 1.001486
## [11441] 1.000000 1.000000 1.000000 1.001485 1.001485 1.000000 1.002970 1.002969
## [11449] 1.000000 1.001485 1.000000 1.005923 1.001484 1.001484 1.000000 1.001484
## [11457] 1.001484 1.001484 1.001483 1.001483 1.001483 1.001483 1.001483 1.001483
## [11465] 1.001483 1.001483 1.001482 1.001482 1.000000 1.001482 1.001482 1.001482

```

```

## [11473] 1.000000 1.001481 1.001481 1.001481 1.001481 1.001481 1.000000 1.001481
## [11481] 1.000000 1.000000 1.000000 1.000000 1.001480 1.001480 1.001480 1.001480
## [11489] 1.000000 1.001479 1.001479 1.002956 1.001479 1.000000 1.000000 1.001479
## [11497] 1.001479 1.001478 1.001478 1.000000 1.000000 1.001478 1.000000 1.000000
## [11505] 1.001477 1.000000 1.001477 1.000000 1.001477 1.000000 1.000000 1.001477
## [11513] 1.000000 1.001476 1.001476 1.000000 1.000000 1.000000 1.000000 1.001476
## [11521] 1.002949 1.002950 1.000000 1.001475 1.000000 1.000000 1.000000 1.000000
## [11529] 1.001474 1.000000 1.000000 1.001474 1.001474 1.001474 1.001474 1.001474
## [11537] 1.001473 1.000000 1.001473 1.001473 1.000000 1.000000 1.000000 1.000000
## [11545] 1.000000 1.001472 1.000000 1.001472 1.000000 1.000000 1.001472 1.000000
## [11553] 1.001471 1.001471 1.002942 1.000000 1.001471 1.001471 1.001471 1.001470
## [11561] 1.001470 1.000000 1.000000 1.001470 1.001470 1.002937 1.001470 1.001469
## [11569] 1.001469 1.001469 1.001469 1.000000 1.004404 1.002935 1.001469 1.001468
## [11577] 1.001468 1.001468 1.001468 1.001468 1.001468 1.001468 1.001468 1.001467
## [11585] 1.001467 1.001467 1.001467 1.004400 1.001467 1.001467 1.001467 1.001466
## [11593] 1.001466 1.001466 1.002932 1.001466 1.000000 1.000000 1.001466 1.000000
## [11601] 1.000000 1.004395 1.001465 1.000000 1.000000 1.000000 1.001465 1.000000
## [11609] 1.001464 1.000000 1.001464 1.001464 1.001464 1.000000 1.001463 1.001463
## [11617] 1.001463 1.000000 1.001463 1.001463 1.001463 1.001463 1.001463 1.000000
## [11625] 1.001462 1.001462 1.001462 1.001462 1.002923 1.001462 1.002921 1.002920
## [11633] 1.000000 1.000000 1.001461 1.001461 1.001461 1.000000 1.000000 1.001460
## [11641] 1.001460 1.000000 1.001460 1.001460 1.000000 1.001460 1.002919 1.001459
## [11649] 1.001459 1.001459 1.001459 1.001459 1.001459 1.001459 1.001458 1.000000
## [11657] 1.000000 1.001458 1.001458 1.001458 1.001458 1.000000 1.001457 1.002914
## [11665] 1.001457 1.001457 1.001457 1.001457 1.000000 1.001457 1.000000 1.000000
## [11673] 1.001456 1.000000 1.001456 1.000000 1.000000 1.001456 1.001455 1.001455
## [11681] 1.001455 1.001455 1.001455 1.000000 1.001455 1.000000 1.001454 1.000000
## [11689] 1.001454 1.000000 1.001454 1.001454 1.000000 1.000000 1.000000 1.000000
## [11697] 1.000000 1.001453 1.001453 1.000000 1.001453 1.000000 1.001452 1.000000
## [11705] 1.002902 1.000000 1.000000 1.001452 1.001452 1.000000 1.000000 1.001451
## [11713] 1.001451 1.000000 1.000000 1.000000 1.000000 1.001451 1.001451 1.001450
## [11721] 1.002898 1.000000 1.002900 1.001450 1.004349 1.001450 1.002899 1.001449
## [11729] 1.001449 1.000000 1.001449 1.001449 1.001449 1.001449 1.001449 1.000000
## [11737] 1.001448 1.001448 1.001448 1.004341 1.001448 1.001448 1.001448 1.000000
## [11745] 1.001447 1.001447 1.000000 1.001447 1.000000 1.000000 1.001447 1.001446
## [11753] 1.001446 1.000000 1.000000 1.001446 1.001446 1.001446 1.002889 1.001445
## [11761] 1.000000 1.001445 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000
## [11769] 1.001444 1.000000 1.000000 1.000000 1.001444 1.000000 1.000000 1.000000
## [11777] 1.000000 1.000000 1.001443 1.001443 1.001443 1.000000 1.001443 1.000000
## [11785] 1.000000 1.000000 1.002882 1.000000 1.001442 1.001442 1.000000 1.001442
## [11793] 1.001441 1.001441 1.001441 1.000000 1.001441 1.001441 1.001441 1.001441
## [11801] 1.001440 1.000000 1.001440 1.001440 1.001440 1.001440 1.000000 1.001440
## [11809] 1.000000 1.000000 1.002876 1.001439 1.000000 1.001439 1.001439 1.000000
## [11817] 1.000000 1.001438 1.001438 1.000000 1.000000 1.000000 1.001438 1.001438
## [11825] 1.000000 1.001437 1.001437 1.001437 1.001437 1.001437 1.000000 1.000000
## [11833] 1.000000 1.000000 1.000000 1.002872 1.000000 1.001436 1.001436 1.000000
## [11841] 1.001436 1.001435 1.001435 1.001435 1.001435 1.001435 1.001435 1.001435
## [11849] 1.001435 1.001434 1.001434 1.001434 1.000000 1.001434 1.001434 1.001434
## [11857] 1.001434 1.000000 1.001433 1.000000 1.001433 1.001433 1.000000 1.001433
## [11865] 1.001433 1.001433 1.000000 1.000000 1.001432 1.000000 1.001432 1.000000
## [11873] 1.001432 1.000000 1.001431 1.001431 1.000000 1.001431 1.000000 1.001431
## [11881] 1.000000 1.001431 1.001430 1.000000 1.001430 1.001430 1.001430 1.000000
## [11889] 1.000000 1.000000 1.001430 1.000000 1.001429 1.000000 1.001429 1.000000
## [11897] 1.001429 1.001429 1.001429 1.001428 1.001428 1.001428 1.000000 1.002856

```

```

## [11905] 1.000000 1.001428 1.001428 1.001427 1.001427 1.001427 1.002854 1.001427
## [11913] 1.001427 1.001427 1.001427 1.001427 1.002853 1.002852 1.001426 1.001426
## [11921] 1.001426 1.001426 1.001426 1.000000 1.001425 1.000000 1.001425 1.001425
## [11929] 1.001425 1.002848 1.000000 1.001425 1.001425 1.000000 1.001424 1.001424
## [11937] 1.001424 1.001424 1.001424 1.000000 1.001424 1.001423 1.001423 1.001423
## [11945] 1.001423 1.001423 1.001423 1.000000 1.001423 1.000000 1.000000 1.000000
## [11953] 1.001422 1.001422 1.000000 1.001422 1.001422 1.001422 1.000000 1.001421
## [11961] 1.000000 1.001421 1.000000 1.001421 1.000000 1.001421 1.001420 1.001420
## [11969] 1.001420 1.000000 1.001420 1.001420 1.000000 1.001420 1.000000 1.001419
## [11977] 1.000000 1.000000 1.000000 1.001419 1.001419 1.001419 1.000000 1.001418
## [11985] 1.001418 1.001418 1.001418 1.004248 1.001418 1.001418 1.001418 1.001417
## [11993] 1.001417 1.001417 1.001417 1.001417 1.000000 1.000000 1.000000 1.001417
## [12001] 1.000000 1.001416 1.001416 1.001416 1.001416 1.001416 1.000000 1.000000
## [12009] 1.001415 1.001415 1.000000 1.000000 1.000000 1.001415 1.000000 1.000000
## [12017] 1.000000 1.001414 1.000000 1.000000 1.001414 1.001414 1.001414 1.000000
## [12025] 1.001414 1.000000 1.001413 1.001413 1.000000 1.000000 1.000000 1.001413
## [12033] 1.001413 1.000000 1.001412 1.001412 1.001412 1.000000 1.001412 1.000000
## [12041] 1.001412 1.000000 1.000000 1.001411 1.000000 1.000000 1.000000 1.001411
## [12049] 1.000000 1.000000 1.000000 1.001410 1.001410 1.001410 1.000000 1.001410
## [12057] 1.001410 1.001410 1.001410 1.001410 1.001409 1.000000 1.000000 1.000000
## [12065] 1.000000 1.000000 1.001409 1.001409 1.000000 1.001408 1.001408 1.000000
## [12073] 1.000000 1.000000 1.000000 1.001408 1.001408 1.000000 1.000000 1.000000
## [12081] 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.001406
## [12089] 1.001406 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000
## [12097] 1.000000 1.001405 1.000000 1.001405 1.000000 1.001405 1.001404 1.001404
## [12105] 1.001404 1.001404 1.000000 1.000000 1.000000 1.001404 1.001404 1.000000
## [12113] 1.001403 1.001403 1.000000 1.000000 1.000000 1.000000 1.001403 1.000000
## [12121] 1.000000 1.000000 1.001402 1.000000 1.000000 1.000000 1.000000 1.001402
## [12129] 1.000000 1.001401 1.001401 1.001401 1.004202 1.001401 1.001401 1.001401
## [12137] 1.001401 1.001400 1.001400 1.000000 1.001400 1.001400 1.000000 1.000000
## [12145] 1.001400 1.001400 1.000000 1.000000 1.000000 1.001399 1.001399 1.000000
## [12153] 1.000000 1.000000 1.000000 1.001398 1.000000 1.001398 1.001398 1.000000
## [12161] 1.001398 1.000000 1.001398 1.000000 1.000000 1.001397 1.000000 1.001397
## [12169] 1.000000 1.001397 1.001397 1.000000 1.000000 1.001396 1.000000 1.001396
## [12177] 1.000000 1.000000 1.001396 1.000000 1.001396 1.000000 1.001395 1.004179
## [12185] 1.001395 1.001395 1.001395 1.002789 1.001395 1.000000 1.000000 1.000000
## [12193] 1.001394 1.000000 1.001394 1.000000 1.000000 1.001394 1.000000 1.001393 1.001393
## [12201] 1.002784 1.002784 1.001393 1.000000 1.000000 1.001393 1.001393 1.001392
## [12209] 1.000000 1.001392 1.001392 1.001392 1.000000 1.000000 1.001392 1.001392
## [12217] 1.000000 1.000000 1.000000 1.000000 1.000000 1.001391 1.001391 1.000000 1.001391
## [12225] 1.001390 1.001390 1.001390 1.001390 1.000000 1.001390 1.001390 1.000000
## [12233] 1.001390 1.001389 1.001389 1.001389 1.001389 1.000000 1.001389 1.000000
## [12241] 1.000000 1.000000 1.000000 1.001388 1.000000 1.001388 1.001388 1.001388
## [12249] 1.000000 1.002773 1.001388 1.001387 1.000000 1.001387 1.001387 1.000000
## [12257] 1.002772 1.001387 1.001387 1.000000 1.001386 1.000000 1.001386 1.001386
## [12265] 1.001386 1.001386 1.001386 1.000000 1.001385 1.001385 1.001385 1.001385
## [12273] 1.000000 1.001385 1.001385 1.001385 1.000000 1.001385 1.000000 1.001384 1.001384
## [12281] 1.001384 1.001384 1.001384 1.002766 1.000000 1.001384 1.001383 1.000000
## [12289] 1.001383 1.001383 1.001383 1.001383 1.001383 1.000000 1.001383 1.001382
## [12297] 1.001382 1.000000 1.000000 1.000000 1.001382 1.000000 1.000000 1.000000
## [12305] 1.001381 1.001381 1.000000 1.000000 1.000000 1.001381 1.000000 1.000000 1.000000
## [12313] 1.001381 1.001380 1.006896 1.001380 1.000000 1.000000 1.000000 1.000000 1.001380
## [12321] 1.002757 1.001380 1.000000 1.000000 1.001379 1.000000 1.000000 1.000000 1.001379
## [12329] 1.001379 1.001379 1.000000 1.002757 1.000000 1.002756 1.000000 1.002756

```

```

## [12337] 1.002754 1.000000 1.000000 1.001378 1.001377 1.000000 1.000000 1.000000 1.001377
## [12345] 1.002754 1.001377 1.001377 1.000000 1.000000 1.001376 1.001376 1.001376 1.001376
## [12353] 1.001376 1.001376 1.001376 1.000000 1.001376 1.000000 1.001375 1.001375 1.001375
## [12361] 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.001375 1.001375 1.001374
## [12369] 1.000000 1.000000 1.001374 1.000000 1.001374 1.001374 1.001374 1.001374 1.000000
## [12377] 1.001373 1.001373 1.000000 1.000000 1.001373 1.000000 1.000000 1.000000 1.001373
## [12385] 1.001373 1.001372 1.002743 1.001372 1.001372 1.001372 1.001372 1.000000 1.000000
## [12393] 1.001372 1.000000 1.000000 1.001371 1.001371 1.000000 1.001371 1.001371 1.001371
## [12401] 1.005482 1.001371 1.000000 1.001370 1.001370 1.002738 1.001370 1.000000 1.000000
## [12409] 1.001370 1.000000 1.000000 1.000000 1.001369 1.000000 1.000000 1.000000 1.000000
## [12417] 1.000000 1.000000 1.001369 1.001369 1.000000 1.001368 1.000000 1.000000 1.000000
## [12425] 1.000000 1.000000 1.002736 1.000000 1.001368 1.000000 1.000000 1.000000 1.000000
## [12433] 1.000000 1.001367 1.000000 1.001367 1.000000 1.000000 1.000000 1.001367 1.001366
## [12441] 1.000000 1.002732 1.000000 1.000000 1.001366 1.000000 1.000000 1.000000 1.000000
## [12449] 1.002729 1.001365 1.000000 1.001365 1.000000 1.001365 1.001365 1.001365 1.001365
## [12457] 1.000000 1.001364 1.000000 1.001364 1.000000 1.001364 1.001364 1.001364 1.001364
## [12465] 1.001364 1.001364 1.000000 1.001363 1.001363 1.000000 1.000000 1.000000 1.002726
## [12473] 1.000000 1.000000 1.004085 1.001363 1.000000 1.001362 1.001362 1.001362 1.001362
## [12481] 1.000000 1.001362 1.000000 1.001362 1.001362 1.001361 1.000000 1.000000 1.000000
## [12489] 1.000000 1.000000 1.000000 1.000000 1.000000 1.001361 1.000000 1.000000 1.000000
## [12497] 1.000000 1.000000 1.001360 1.000000 1.000000 1.000000 1.000000 1.001360 1.000000
## [12505] 1.001359 1.000000 1.000000 1.000000 1.000000 1.001359 1.000000 1.001359 1.001359
## [12513] 1.000000 1.001358 1.001358 1.002716 1.000000 1.001358 1.001358 1.001358 1.001358
## [12521] 1.000000 1.001358 1.001357 1.000000 1.000000 1.001357 1.000000 1.000000 1.000000
## [12529] 1.001357 1.001357 1.001357 1.001356 1.001356 1.001356 1.001356 1.001356 1.001356
## [12537] 1.000000 1.001356 1.001356 1.001356 1.000000 1.001355 1.001355 1.001355 1.000000
## [12545] 1.000000 1.000000 1.000000 1.001355 1.000000 1.002709 1.001354 1.000000 1.000000
## [12553] 1.004057 1.001354 1.001354 1.000000 1.001354 1.000000 1.000000 1.000000 1.000000
## [12561] 1.001353 1.000000 1.001353 1.000000 1.001353 1.000000 1.001353 1.000000 1.000000
## [12569] 1.000000 1.000000 1.000000 1.001352 1.001352 1.001352 1.001352 1.000000 1.000000
## [12577] 1.001352 1.001351 1.001351 1.001351 1.002702 1.000000 1.001351 1.001351 1.001351
## [12585] 1.001351 1.000000 1.000000 1.001350 1.001350 1.001350 1.001350 1.001350 1.001350
## [12593] 1.000000 1.001350 1.000000 1.001350 1.000000 1.001349 1.000000 1.000000 1.000000
## [12601] 1.000000 1.001349 1.000000 1.001349 1.001349 1.000000 1.001348 1.001348 1.001348
## [12609] 1.001348 1.001348 1.001348 1.000000 1.000000 1.001348 1.004042 1.001347 1.001347
## [12617] 1.001347 1.000000 1.001347 1.000000 1.000000 1.000000 1.000000 1.000000 1.001347
## [12625] 1.000000 1.001346 1.001346 1.001346 1.001346 1.001346 1.001346 1.001346 1.000000
## [12633] 1.001346 1.001345 1.001345 1.000000 1.001345 1.000000 1.001345 1.001345 1.001345
## [12641] 1.000000 1.001345 1.000000 1.001344 1.001344 1.000000 1.001344 1.001344 1.000000
## [12649] 1.001344 1.000000 1.001344 1.000000 1.000000 1.000000 1.000000 1.001343 1.001343
## [12657] 1.000000 1.001343 1.001343 1.000000 1.001343 1.000000 1.002685 1.000000 1.000000
## [12665] 1.000000 1.001342 1.000000 1.001342 1.000000 1.000000 1.000000 1.000000 1.000000
## [12673] 1.001341 1.000000 1.000000 1.000000 1.001341 1.000000 1.001341 1.001341 1.001341
## [12681] 1.000000 1.000000 1.001340 1.001340 1.001340 1.000000 1.001340 1.001340 1.001340
## [12689] 1.001340 1.000000 1.001339 1.001339 1.001339 1.000000 1.001339 1.000000 1.001339
## [12697] 1.001339 1.000000 1.001339 1.001338 1.000000 1.001338 1.000000 1.001338 1.000000
## [12705] 1.001338 1.001338 1.001338 1.001338 1.000000 1.000000 1.002673 1.001337 1.001337
## [12713] 1.001337 1.001337 1.001337 1.000000 1.001337 1.001337 1.001336 1.000000 1.000000
## [12721] 1.000000 1.001336 1.000000 1.001336 1.001336 1.001336 1.001336 1.001336 1.001336
## [12729] 1.001335 1.000000 1.001335 1.001335 1.000000 1.001335 1.001335 1.001335 1.001335
## [12737] 1.000000 1.001334 1.001334 1.000000 1.001334 1.001334 1.002668 1.000000 1.000000
## [12745] 1.001334 1.001334 1.001334 1.000000 1.000000 1.001333 1.001333 1.001333 1.000000
## [12753] 1.000000 1.000000 1.001333 1.000000 1.000000 1.000000 1.000000 1.001332 1.001332
## [12761] 1.000000 1.001332 1.001332 1.000000 1.001332 1.001332 1.001331 1.000000 1.000000

```

```

## [12769] 1.001331 1.001331 1.000000 1.001331 1.001331 1.000000 1.000000 1.000000 1.001331
## [12777] 1.000000 1.000000 1.001330 1.001330 1.001330 1.000000 1.000000 1.000000 1.001330
## [12785] 1.000000 1.002657 1.001329 1.000000 1.000000 1.001329 1.001329 1.001329 1.001329
## [12793] 1.000000 1.000000 1.001329 1.001328 1.001328 1.001328 1.001328 1.001328 1.001328
## [12801] 1.000000 1.002654 1.003978 1.001328 1.001328 1.001327 1.000000 1.000000 1.001327
## [12809] 1.002654 1.000000 1.000000 1.000000 1.002651 1.001327 1.001326 1.002651
## [12817] 1.001326 1.001326 1.000000 1.000000 1.000000 1.001326 1.001326 1.000000
## [12825] 1.001325 1.001325 1.000000 1.001325 1.000000 1.001325 1.001325 1.001325
## [12833] 1.001325 1.001325 1.000000 1.001324 1.000000 1.001324 1.001324 1.001324 1.001324
## [12841] 1.001324 1.000000 1.001324 1.000000 1.000000 1.000000 1.000000 1.001323 1.000000
## [12849] 1.001323 1.001323 1.001323 1.000000 1.000000 1.000000 1.000000 1.001322 1.005286
## [12857] 1.000000 1.001322 1.001322 1.001322 1.000000 1.001322 1.001322 1.000000
## [12865] 1.001321 1.001321 1.001321 1.002642 1.001321 1.001321 1.000000 1.000000 1.000000
## [12873] 1.003961 1.001320 1.000000 1.001320 1.001320 1.001320 1.000000 1.002638
## [12881] 1.001320 1.001320 1.000000 1.000000 1.000000 1.001319 1.001319 1.001319
## [12889] 1.001319 1.001319 1.001319 1.002637 1.001318 1.001318 1.002636 1.001318
## [12897] 1.001318 1.001318 1.001318 1.001318 1.001318 1.001318 1.000000 1.000000 1.001317
## [12905] 1.002634 1.000000 1.001317 1.000000 1.001317 1.001317 1.000000 1.001317
## [12913] 1.000000 1.001316 1.001316 1.001316 1.002630 1.001316 1.001316 1.000000
## [12921] 1.001316 1.000000 1.000000 1.001315 1.001315 1.000000 1.001315 1.001315
## [12929] 1.000000 1.001315 1.001315 1.001314 1.000000 1.001314 1.000000 1.000000
## [12937] 1.000000 1.001314 1.000000 1.000000 1.001314 1.000000 1.001313 1.002625
## [12945] 1.002624 1.001313 1.000000 1.001313 1.001313 1.001313 1.000000 1.000000
## [12953] 1.001312 1.001312 1.000000 1.001312 1.000000 1.001312 1.003930 1.001312
## [12961] 1.000000 1.001311 1.000000 1.001311 1.000000 1.000000 1.001311 1.001311
## [12969] 1.000000 1.000000 1.001311 1.001310 1.001310 1.000000 1.001310 1.001310
## [12977] 1.000000 1.001310 1.001310 1.000000 1.001310 1.000000 1.001309 1.001309
## [12985] 1.001309 1.001309 1.000000 1.000000 1.000000 1.001309 1.001308 1.001308
## [12993] 1.001308 1.000000 1.001308 1.001308 1.003923 1.000000 1.000000 1.000000
## [13001] 1.000000 1.001307 1.000000 1.002614 1.001307 1.001307 1.000000 1.000000
## [13009] 1.000000 1.000000 1.000000 1.000000 1.001306 1.000000 1.001306 1.001306
## [13017] 1.000000 1.000000 1.001306 1.001306 1.001305 1.000000 1.000000 1.000000
## [13025] 1.000000 1.001305 1.000000 1.001305 1.001305 1.000000 1.000000 1.001304
## [13033] 1.000000 1.001304 1.001304 1.001304 1.001304 1.001304 1.000000 1.000000
## [13041] 1.001303 1.002605 1.001303 1.000000 1.001303 1.003908 1.000000 1.001303
## [13049] 1.000000 1.000000 1.000000 1.001302 1.001302 1.001302 1.001302 1.000000
## [13057] 1.001302 1.001302 1.001302 1.000000 1.001301 1.001301 1.005201 1.002601
## [13065] 1.001301 1.002602 1.001301 1.001301 1.002601 1.001301 1.000000 1.000000
## [13073] 1.001300 1.001300 1.001300 1.000000 1.000000 1.000000 1.000000 1.000000
## [13081] 1.000000 1.000000 1.001299 1.001299 1.001299 1.000000 1.001299 1.002596
## [13089] 1.001299 1.000000 1.002597 1.002597 1.001298 1.000000 1.000000 1.001298
## [13097] 1.000000 1.000000 1.000000 1.000000 1.001298 1.001297 1.001297 1.002593
## [13105] 1.001297 1.001297 1.002594 1.000000 1.002593 1.000000 1.002591 1.001296
## [13113] 1.002591 1.002591 1.001296 1.000000 1.000000 1.001296 1.000000 1.001296
## [13121] 1.001296 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.001295
## [13129] 1.001295 1.000000 1.002589 1.000000 1.001294 1.002588 1.000000 1.000000
## [13137] 1.005173 1.001294 1.001294 1.001294 1.001294 1.001293 1.001293 1.000000
## [13145] 1.001293 1.003874 1.001293 1.001293 1.001293 1.001293 1.001293 1.001292
## [13153] 1.001292 1.000000 1.002583 1.001292 1.003871 1.001292 1.000000 1.000000
## [13161] 1.000000 1.001291 1.000000 1.001291 1.001291 1.000000 1.001291 1.001291
## [13169] 1.002581 1.001291 1.001291 1.001291 1.001290 1.000000 1.001290 1.000000
## [13177] 1.001290 1.000000 1.001290 1.000000 1.001290 1.002577 1.000000 1.000000
## [13185] 1.001289 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.001289
## [13193] 1.000000 1.001288 1.001288 1.001288 1.001288 1.001288 1.001288 1.000000

```

```

## [13201] 1.001288 1.001288 1.000000 1.001287 1.001287 1.001287 1.001287 1.000000
## [13209] 1.001287 1.001287 1.001287 1.000000 1.002571 1.001286 1.001286 1.001286
## [13217] 1.001286 1.000000 1.001286 1.000000 1.001286 1.001286 1.000000 1.001285
## [13225] 1.001285 1.000000 1.001285 1.000000 1.001285 1.001285 1.001285 1.000000
## [13233] 1.001285 1.000000 1.000000 1.000000 1.000000 1.001284 1.001284 1.001284
## [13241] 1.000000 1.001284 1.000000 1.001284 1.000000 1.001283 1.000000 1.000000
## [13249] 1.000000 1.000000 1.001283 1.001283 1.001283 1.000000 1.000000 1.001282
## [13257] 1.001282 1.000000 1.001282 1.000000 1.001282 1.000000 1.001282 1.000000
## [13265] 1.001281 1.001281 1.001281 1.001281 1.001281 1.000000 1.000000 1.000000
## [13273] 1.001281 1.001281 1.001281 1.000000 1.001280 1.000000 1.000000 1.000000
## [13281] 1.000000 1.000000 1.000000 1.000000 1.002557 1.000000 1.000000 1.001279
## [13289] 1.001279 1.001279 1.001279 1.000000 1.001279 1.000000 1.001279 1.001278
## [13297] 1.001278 1.000000 1.001278 1.001278 1.001278 1.000000 1.000000 1.001278
## [13305] 1.001278 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000
## attr(),"Subsample")
## [1] 17

```

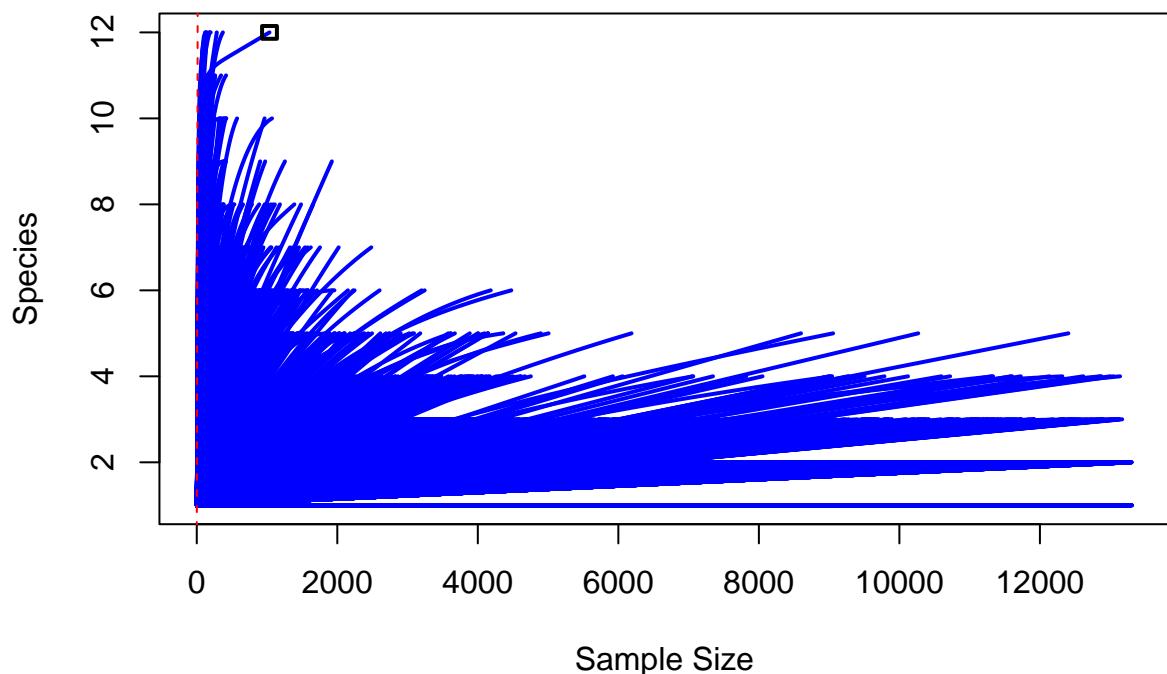
```

#curves
rarecurve(mic, step = 20, col = "blue", lwd = 2, xlab = "Sample Size", ylab = "Species", label = TRUE)

# 1:1 reference line
abline(0, 1, col = "red", lty = 2)

# Adding text labels for the rarefied lines
text(1500, 1500, "1:1", pos = 2, col = "red", cex = 1)

```



4) SPECIES EVENNESS

Here, we consider how abundance varies among species, that is, **species evenness**.

Visualizing evenness: the rank abundance curve (RAC)

One of the most common ways to visualize evenness is in a **rank-abundance curve** (sometime referred to as a rank-abundance distribution or Whittaker plot). An RAC can be constructed by ranking species from the most abundant to the least abundant without respect to species labels (and hence no worries about ‘ties’ in abundance).

In the R code chunk below, do the following:

1. Write a function to construct a RAC,
2. Be sure your function removes species that have zero abundances,
3. Order the vector (RAC) from greatest (most abundant) to least (least abundant), and
4. Return the ranked vector

```
# Function for Rank-Abundance Curve (RAC)
RAC <- function(x) {
  x.ab <- x[x > 0] # Remove species with zero abundance
  x.ab.ranked <- sort(x.ab, decreasing = TRUE) # Rank from most to least abundant
  return(as.data.frame(x.ab.ranked)) # Convert to dataframe
}

# Using RAC function on BCI
site1 <- BCI[1, ]
rac_site1 <- RAC(site1)

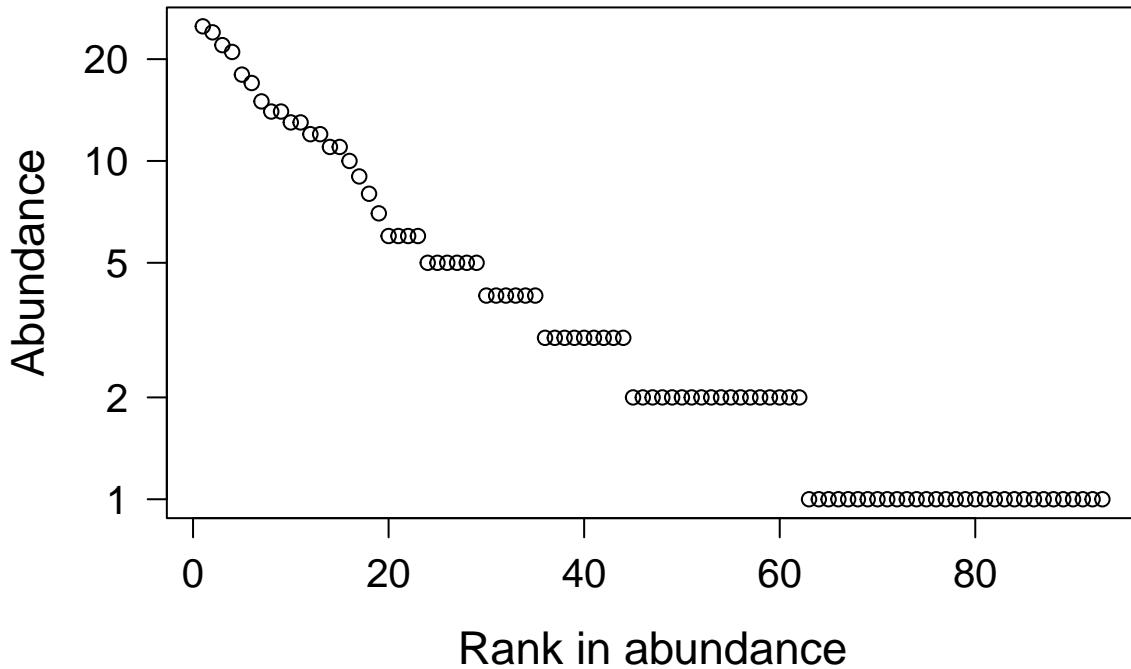
# rank sequence
ranks <- seq(1, length(rac_site1$x.ab.ranked))

opar <- par(no.readonly = TRUE)

par(mar = c(5.1, 5.1, 4.1, 2.1))

plot.new()
# Rank-Abundance Plot (Whittaker plot)
plot(ranks, log(rac_site1$x.ab.ranked), type = 'p', axes = FALSE,
      xlab = "Rank in abundance", ylab = "Abundance",
      las = 1, cex.lab = 1.4, cex.axis = 1.25)

box()
axis(side = 1, labels = TRUE, cex.axis = 1.25) # X-axis
axis(side = 2, las = 1, cex.axis = 1.25, # Log-scaled Y-axis
      labels = c(1, 2, 5, 10, 20), at = log(c(1, 2, 5, 10, 20)))
```



```
par <- opar
```

Now, let us examine the RAC for `site1` of the BCI data set.

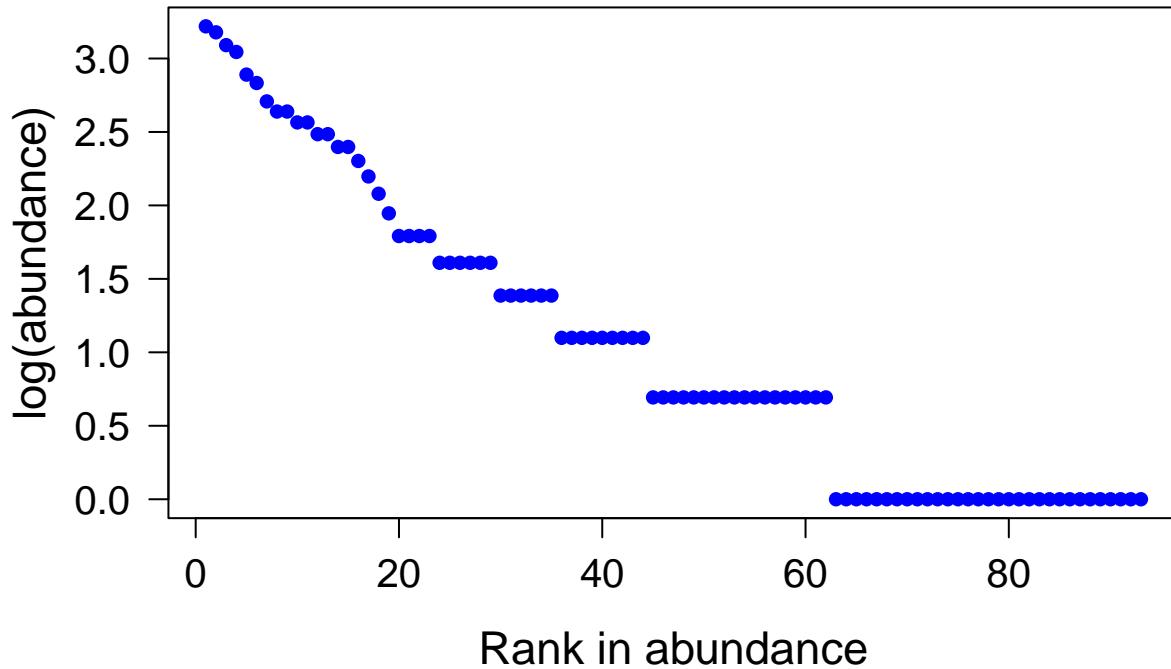
In the R code chunk below, do the following:

1. Create a sequence of ranks and plot the RAC with natural-log-transformed abundances,
2. Label the x-axis “Rank in abundance” and the y-axis “log(abundance)”

```
# Apply RAC function to site1 of the BCI dataset
site1 <- BCI[1, ]
rac_site1 <- RAC(site1)

# sequence of ranks
ranks <- seq(1, length(rac_site1$x.ab.ranked))

# Plot the RAC with natural-log-transformed abundances
plot(ranks, log(rac_site1$x.ab.ranked), type = 'p',
      xlab = "Rank in abundance", ylab = "log(abundance)",
      las = 1, cex.lab = 1.4, cex.axis = 1.25, col = "blue", pch = 16)
```



Question 5: What effect does visualizing species abundance data on a log-scaled axis have on how we interpret evenness in the RAC?

Answer 5: The log scale is particularly important when there is a disproportionately high Frequency of specific variables. This can be either high abundance of a few dominant species or high number of individuals within a species in younger cohorts. Log helps us normalize this data.

Now that we have visualized unevenness, it is time to quantify it using Simpson's evenness ($E_{1/D}$) and Smith and Wilson's evenness index (E_{var}).

Simpson's evenness ($E_{1/D}$)

In the R code chunk below, do the following:

1. Write the function to calculate $E_{1/D}$, and
2. Calculate $E_{1/D}$ for `site1`.

```
# Function for Simpson's Evenness
E_1D <- function(x) {
  x <- x[x > 0]
  D <- sum((x / sum(x))^2) # Simpson's Diversity Index
  E_1D <- (1 / D) / length(x) # Simpson's Evenness
  return(E_1D)
```

```

}

# Applying function
site1 <- BCI[1, ]
E_1D_site1 <- E_1D(site1)
E_1D_site1

## [1] 0.4238232

```

Smith and Wilson's evenness index (E_{var})

In the R code chunk below, please do the following:

1. Write the function to calculate E_{var} ,
2. Calculate E_{var} for `site1`, and
3. Compare $E_{1/D}$ and E_{var} .

```

# Smith and Wilson's Evenness Index (E_var) - function
Evar <- function(x) {
  x <- as.vector(x[x > 0]) # Remove species with zero abundance
  1 - (2/pi) * atan(var(log(x)))
}

# Apply function
site1 <- BCI[1, ]
E_var_site1 <- Evar(site1) # E_var for site1

E_var_site1

## [1] 0.5067211

```

Question 6: Compare estimates of evenness for `site1` of BCI using $E_{1/D}$ and E_{var} . Do they agree? If so, why? If not, why? What can you infer from the results.

Answer 6: Both the values are not the same. $E_{1/D}$ is lower when there are few dominant species. E_{var} being greater suggests that there are a few dominant species and the other species are of similar relative dominance.

5) INTEGRATING RICHNESS AND EVENNESS: DIVERSITY METRICS

So far, we have introduced two primary aspects of diversity, i.e., richness and evenness. Here, we will use popular indices to estimate diversity, which explicitly incorporate richness and evenness. We will write our own diversity functions and compare them against the functions in `vegan`.

Shannon's diversity (a.k.a., Shannon's entropy)

In the R code chunk below, please do the following:

1. Provide the code for calculating H' (Shannon's diversity),
2. Compare this estimate with the output of `vegan`'s diversity function using method = "shannon".

```
# Shannon's Diversity Index (H)
ShanH <- function(x) {
  H <- 0
  for (n_i in x) {
    if (n_i > 0) {
      p <- n_i / sum(x)
      H <- H - p * log(p)
    }
  }
  return(H)
}

# Apply function
site1 <- BCI[1, ]
Shannon_H_site1 <- ShanH(site1) # Calculating Shannon's diversity for site1

Shannon_H_site1
```

[1] 4.018412

Simpson's diversity (or dominance)

In the R code chunk below, please do the following:

1. Provide the code for calculating D (Simpson's diversity),
2. Calculate both the inverse (1/D) and 1 - D,
3. Compare this estimate with the output of `vegan`'s diversity function using method = "simp".

```
# Simpson's Diversity Index (D)
SimpD <- function(x) {
  D <- 0
  N <- sum(x)
  for (n_i in x) {
    D <- D + (n_i^2) / (N^2)
  }
  return(D)
}

# Apply function
site1 <- BCI[1, ]
D_site1 <- SimpD(site1) # D for site1
```

```

# Calculating inverse
D_inv <- 1 / D_site1
D_sub <- 1 - D_site1

# Comparison with vegan's diversity function
library(vegan)
vegan_D_inv <- diversity(site1, index = "inv")
vegan_D_simp <- diversity(site1, index = "simpson")

D_site1

## [1] 0.0253707

D_inv

## [1] 39.41555

D_sub

## [1] 0.9746293

vegan_D_inv

## [1] 39.41555

vegan_D_simp

## [1] 0.9746293

```

Fisher's $\boldsymbol{\alpha}$

In the R code chunk below, please do the following:

1. Provide the code for calculating Fisher's $\boldsymbol{\alpha}$,
2. Calculate Fisher's $\boldsymbol{\alpha}$ for site1 of BCI.

```

rac <- as.vector(site1[site1 > 0])
invD <- diversity(rac, "inv")
invD

## [1] 39.41555

fisher <- fisher.alpha(rac)

fisher

## [1] 35.67297

```

Question 7: How is Fisher's $\boldsymbol{\alpha}$ different from $E_{H'}$ and E_{var} ? What does Fisher's $\boldsymbol{\alpha}$ take into account that $E_{H'}$ and E_{var} do not?

Answer 7: Fisher's alsphs does not take into account evenness. Meanwhile Shannon's metric, and Smith -Wilson metric measures how evenness of species across communities.

6) HILL NUMBERS

Remember that we have learned about the advantages of Hill Numbers to measure and compare diversity among samples. We also learned to explore the effects of rare species in a community by examining diversity for a series of exponents q .

Question 8: Using `site1` of BCI and `vegan` package, a) calculate Hill numbers for q exponent 0, 1 and 2 (richness, exponential Shannon's entropy, and inverse Simpson's diversity). b) Interpret the effect of rare species in your community based on the response of diversity to increasing exponent q .

Answer 8a:

Answer 8b:

##7) MOVING BEYOND UNIVARIATE METRICS OF /alpha DIVERSITY

The diversity metrics that we just learned about attempt to integrate richness and evenness into a single, univariate metric. Although useful, information is invariably lost in this process. If we go back to the rank-abundance curve, we can retrieve additional information – and in some cases – make inferences about the processes influencing the structure of an ecological system.

Species abundance models

The RAC is a simple data structure that is both a vector of abundances. It is also a row in the site-by-species matrix (minus the zeros, i.e., absences).

Predicting the form of the RAC is the first test that any biodiversity theory must pass and there are no less than 20 models that have attempted to explain the uneven form of the RAC across ecological systems.

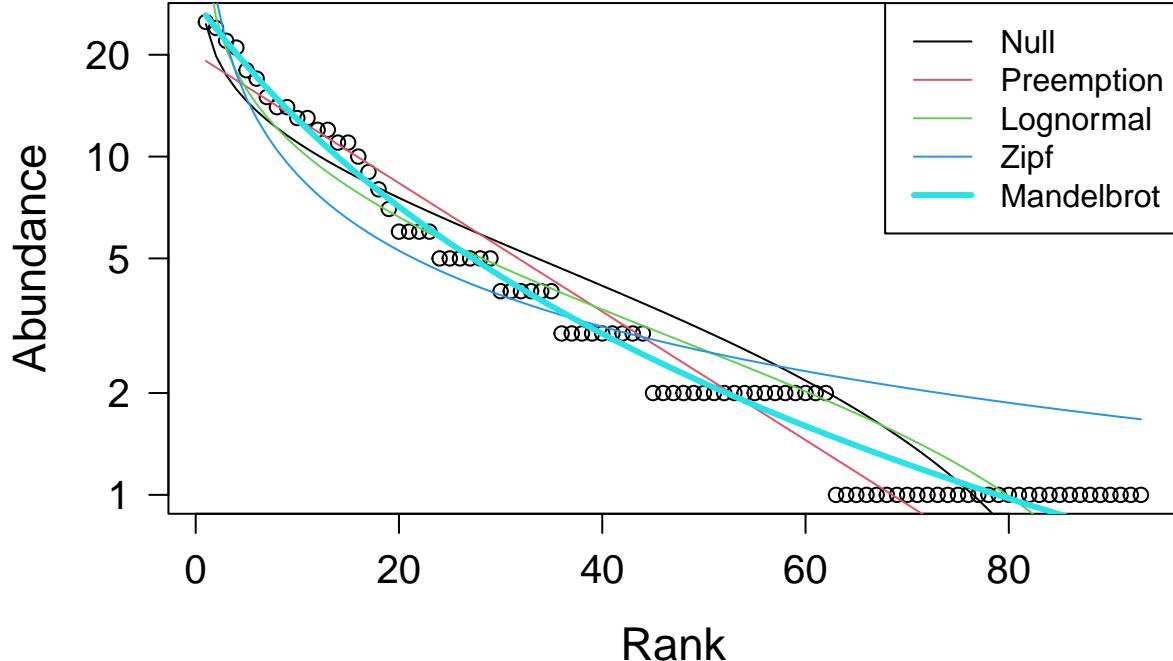
In the R code chunk below, please do the following:

1. Use the `radfit()` function in the `vegan` package to fit the predictions of various species abundance models to the RAC of `site1` in BCI,
2. Display the results of the `radfit()` function, and
3. Plot the results of the `radfit()` function using the code provided in the handout.

```
RACresults<-radfit(site1)
RACresults
```

```
##
## RAD models, family poisson
## No. of species 93, total abundance 448
##
##          par1      par2      par3    Deviance   AIC      BIC
## Null           39.5261  315.4362 315.4362
## Preemption  0.042797  21.8939 299.8041 302.3367
## Lognormal    1.0687   1.0186  25.1528 305.0629 310.1281
## Zipf         0.11033 -0.74705  61.0465 340.9567 346.0219
## Mandelbrot  100.52   -2.312   24.084   4.2271 286.1372 293.7350
```

```
plot(RACresults, las=1, cex.lab=1.4, cex.axis=1.25)
```



Question 9: Answer the following questions about the rank abundance curves: a) Based on the output of `radfit()` and plotting above, discuss which model best fits our rank-abundance curve for `site1`? b) Can we make any inferences about the forces, processes, and/or mechanisms influencing the structure of our system, e.g., an ecological community?

Answer 9a: The mandelbrot model has the lowest AIC and BIC values, hence it is the best fit.

Answer 9b:

Question 10: Answer the following questions about the preemption model: a. What does the preemption model assume about the relationship between total abundance (N) and total resources that can be preempted? b. Why does the niche preemption model look like a straight line in the RAD plot?

Answer 10a:

Answer 10b:

Question 11: Why is it important to account for the number of parameters a model uses when judging how well it explains a given set of data?

Answer 11: It is important to account for the number of parameters so as to avoid overfitting by placing weights based on the number of parameters.

SYNTHESIS

1. As stated by Magurran (2004) the $D = \sum p_i^2$ derivation of Simpson's Diversity only applies to communities of infinite size. For anything but an infinitely large community, Simpson's Diversity index is calculated as $D = \sum \frac{n_i(n_i - 1)}{N(N - 1)}$. Assuming a finite community, calculate Simpson's D, 1 - D, and Simpson's inverse (i.e. 1/D) for site 1 of the BCI site-by-species matrix.
2. Along with the rank-abundance curve (RAC), another way to visualize the distribution of abundance among species is with a histogram (a.k.a., frequency distribution) that shows the frequency of different abundance classes. For example, in a given sample, there may be 10 species represented by a single individual, 8 species with two individuals, 4 species with three individuals, and so on. In fact, the rank-abundance curve and the frequency distribution are the two most common ways to visualize the species-abundance distribution (SAD) and to test species abundance models and biodiversity theories. To address this homework question, use the R function `hist()` to plot the frequency distribution for site 1 of the BCI site-by-species matrix, and describe the general pattern you see.
3. We asked you to find a biodiversity dataset with your partner. This data could be one of your own or it could be something that you obtained from the literature. Load that dataset. How many sites are there? How many species are there in the entire site-by-species matrix? Any other interesting observations based on what you learned this week?

SUBMITTING YOUR ASSIGNMENT

Use Knitr to create a PDF of your completed 5.AlphaDiversity_Worksheet.Rmd document, push it to GitHub, and create a pull request. Please make sure your updated repo include both the pdf and RMarkdown files.

Unless otherwise noted, this assignment is due on **Wednesday, January 29th, 2025 at 12:00 PM (noon)**.