

Geospatial Fundamentals in R with sf, Part 3

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Part III Prep

1. Open the repo at <https://github.com/dlab-berkeley/Geospatial-Fundamentals-in-R-with-sf>
 - Download and unzip the zip file
 - Take note of where the folder is located
2. Start RStudio and open a **new script**, or `./docs/03-raster__data.Rmd`
3. Set your working directory to the folder you unzipped
4. Install the required libraries in RStudio, if you do not have them already

```
install.packages(  
  c("ggplot2", "ggmap", "sf", "units", "tmap", "ngeo", "raster"),  
  dependencies=TRUE)
```

5. Open the slides, `./docs/03-raster__data.html`, in your browser (or click the “Part 3 Slides” link the repo).

Part III Overview

Review basic raster concepts

Read in our previous spatial data and new raster data

Make some raster and combined raster-vector maps

Run some raster and raster-vector operations and analyses

R Spatial Libraries

Let's load the libraries we will use

```
library(sf)      # simple features objects and methods  
library(tmap)    # mapping spatial objects  
library(raster)  # reading in and operating on rasters
```

Set your working directory

Use `setwd` to set your working directory to the location of the tutorial files.

For example:

```
path = "/path/to/your/working_directory"  
setwd(path)
```

Load some files from Parts I and II

SF Census Tracts

```
# Read in the 'sftracts_wpop' shapefile
sftracts <- st_read("./data", "sftracts_wpop")

## Reading layer `sftracts_wpop' from data source `/home/drew/Desktop/stuff/berk/dlab/Geospatial-Fundam
## Simple feature collection with 195 features and 10 fields
## geometry type: MULTIPOLYGON
## dimension: XY
## bbox: xmin: -122.5145 ymin: 37.70813 xmax: -122.328 ymax: 37.86334
## epsg (SRID): 4269
## proj4string: +proj=longlat +datum=NAD83 +no_defs
```

SF Properties 2015

```
# Read in from CSV file
SFhomes <- read.csv('./data/sf_properties.csv',
                    stringsAsFactors = FALSE)

# subset the data
SFhomes15 <- subset(SFhomes, as.numeric(SalesYear) == 2015)

# coerce to an `sf` object
SFhomes15_sf <- st_as_sf(SFhomes15, coords = c('lon', 'lat'),
                        crs = 4326)

#Reproject to the sftracts projection
#NOTE: We're overwriting the previous SFhomes15_sf object here! This is
#fine to do if we want, but we should always beware.
SFhomes15_sf = st_transform(SFhomes15_sf, st_crs(sftracts))

#check projection equality
st_crs(SFhomes15_sf) == st_crs(sftracts)

## [1] TRUE
```

Section 1: Raster Data in R

Read in a Raster

Using the fabulous `raster` package

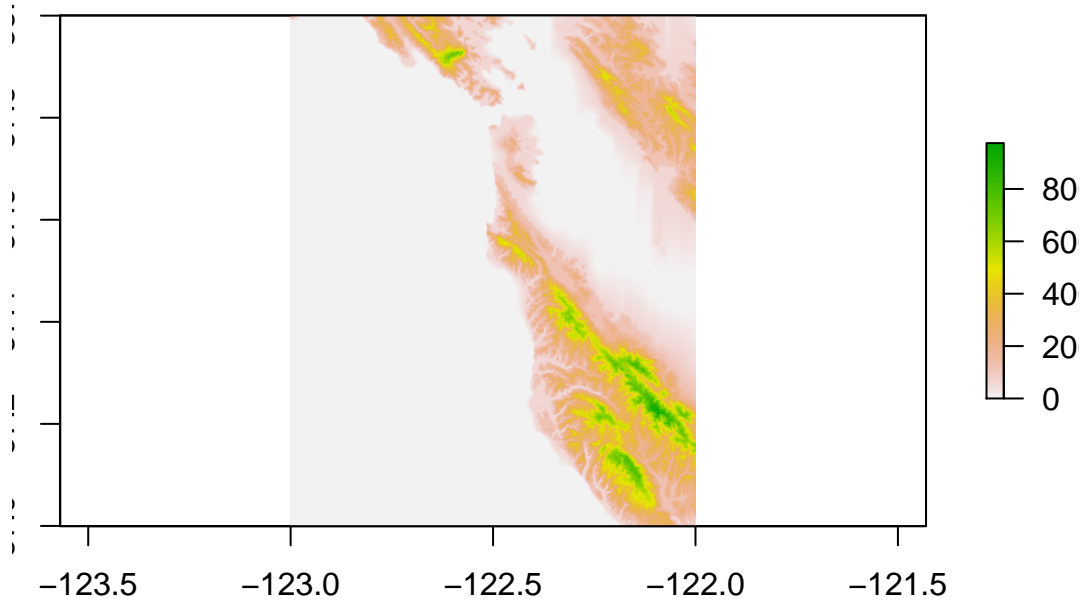
```
# Reading in and plotting raster files

#read in a Bay Area DEM (Digital Elevation Model)
 #(from http://www.webgis.com/terr_pages/CA/dem1/sanfrancisco.html)
DEM = raster('./data/san_francisco-e.DEM')
```

Plot it

Make a quick map of the data to check it out

```
#plot it
plot(DEM)
```



Explore the Structure

To see a summary of the structure and content of a `RasterLayer` object, we can just enter the object's name.

```
DEM
```

```
## class      : RasterLayer
## dimensions : 1201, 1201, 1442401  (nrow, ncol, ncell)
## resolution : 0.0008333333, 0.0008333333  (x, y)
## extent     : -123.0004, -121.9996, 36.99958, 38.00042  (xmin, xmax, ymin, ymax)
## crs        : +proj=longlat +datum=NAD27 +no_defs +ellps=clrk66 +nadgrids=@conus,@alaska,@ntv2_0.gsb,
## source      : /home/drew/Desktop/stuff/berk/dlab/Geospatial-Fundamentals-in-R-with-sf/data/san_franci
## names       : san_francisco.e
## values      : -32768, 32767  (min, max)
```

You can view more detail in the RStudio Environment pane.

Explore the Structure

A raster should really just be a matrix of data, with metadata assigning it the correct location on the Earth's surface, right?

In a `raster` object, the data and metadata will all be saved in their own 'slots', which are indexed by '@' rather than '\$'.

('Slots' are components used to organize 'S4' objects. 'S4' is a data-type commonly used by third-party packages to define their own special data structures.)

Explore the Structure

Here's some of the important metadata.

```
DEM@extent
```

```
## class      : Extent
## xmin       : -123.0004
## xmax       : -121.9996
```

```
## ymin      : 36.99958
## ymax      : 38.00042
DEM@crs

## CRS arguments:
## +proj=longlat +datum=NAD27 +no_defs +ellps=clrk66
## +nadgrids=@conus,@alaska,@ntv2_0.gsb,@ntv1_can.dat
DEM@ncols

## [1] 1201
```

Explore the Structure

And notice that the DEM object is indeed an ‘S4’ object.

```
class(DEM)

## [1] "RasterLayer"
## attr(,"package")
## [1] "raster"

typeof(DEM)

## [1] "S4"
```

Explore the Structure

Note that a `raster` object’s structural organization and string-representation (the bit that is printed to the screen when you call the variable’s name) are fundamentally different from those of `sf` objects.

Explore the Structure

For example, a `RasterLayer` has information on the resolution.

```
DEM

## class      : RasterLayer
## dimensions : 1201, 1201, 1442401 (nrow, ncol, ncell)
## resolution : 0.0008333333, 0.0008333333 (x, y)
## extent     : -123.0004, -121.9996, 36.99958, 38.00042 (xmin, xmax, ymin, ymax)
## crs        : +proj=longlat +datum=NAD27 +no_defs +ellps=clrk66 +nadgrids=@conus,@alaska,@ntv2_0.gsb,@ntv1_can.dat
## source     : /home/drew/Desktop/stuff/berk/dlab/Geospatial-Fundamentals-in-R-with-sf/data/san_francisco_elevation.tif
## names      : san_francisco.e
## values     : -32768, 32767 (min, max)
```

Explore the Structure

What does the resolution mean?

```
(DEM@extent@xmax - DEM@extent@xmin) / DEM@ncols

## [1] 0.0008333333

(DEM@extent@ymax - DEM@extent@ymin) / DEM@nrows

## [1] 0.0008333333

DEM
```

```
## class      : RasterLayer
## dimensions : 1201, 1201, 1442401  (nrow, ncol, ncell)
## resolution : 0.0008333333, 0.0008333333  (x, y)
## extent     : -123.0004, -121.9996, 36.99958, 38.00042  (xmin, xmax, ymin, ymax)
## crs        : +proj=longlat +datum=NAD27 +no_defs +ellps=clrk66 +nadgrids=@conus,@alaska,@ntv2_0.gsb,@
## source     : /home/drew/Desktop/stuff/berk/dlab/Geospatial-Fundamentals-in-R-with-sf/data/san_franci
## names      : san_francisco.e
## values     : -32768, 32767  (min, max)
```

It's the cell-size! That is, the real-world distance of the x and y sides of each cell (i.e. pixel) in our `RasterLayer`, expressed in the distance units of the object (as determined by its projection).

Explore the Structure

As for our matrix of data, it should live somewhere inside the `@data` slot, right?

```
str(DEM@data)
```

```
## Formal class 'SingleLayerData' [package "raster"] with 13 slots
## ..@ values      : logi(0)
## ..@ offset      : num 0
## ..@ gain        : num 1
## ..@ inmemory    : logi FALSE
## ..@ fromdisk    : logi TRUE
## ..@ isfactor    : logi FALSE
## ..@ attributes: list()
## ..@ haveminmax: logi TRUE
## ..@ min         : num -32768
## ..@ max         : num 32767
## ..@ band        : int 1
## ..@ unit        : chr ""
## ..@ names       : chr "san_francisco.e"
```

Explore the Structure

There's a bunch of stuff there. Let's take a look at the `@data@values` slot...

```
DEM@data@values
```

```
## logical(0)
```

Explore the Structure

What happened there? How can our data be `logical(0)`? Where's our data?

```
DEM@data@inmemory
```

```
## [1] FALSE
```

```
DEM@data@fromdisk
```

```
## [1] TRUE
```

It appears our data was not all read into memory. Instead, our `RasterLayer` object contains a pointer to where that data is held on disk (to save memory).

Explore the Structure

How do we see the values, then?

Well, we can still subset the values, using two-dimensional subsetting notation, just as we'd expect for a matrix.

```
DEM[10:15, 20:30]
```

```
## [1] 39 41 39 41 38 36 27 21 15  9  4 24 25 23 26 23 23 17 12  8  5  2 10
## [24] 11  9 11  9 10  7  4  2  1  0  2  2  2  2  2  2  2  1  0  0  0  0  0
## [47]  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

And we'll get back a vector of the values from that subsetting matrix, unfolded.

Explore the Structure

We can even subset the entire thing, getting back all of the values.

```
DEM[,]
```

```
## [1] 120 120 117 111 104 98 92 89 87 85 82 80 79 76 72 67 57
## [18] 45 32 20 12 6 3 1 0 0 0 0 0 0 0 0 0 0
## [35] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [52] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [69] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [86] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [103] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [120] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [137] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [154] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [171] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [188] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [205] 0 1 3 11 19 27 33 40 51 59 70 69 91 108 123 140 158
## [222] 168 185 196 204 205 204 194 195 186 172 164 152 135 118 101 81 69
## [239] 62 54 50 53 53 54 56 58 74 91 107 126 143 162 174 202 223
## [256] 234 246 260 282 308 336 367 383 385 379 371 359 345 325 311 280 259
## [273] 249 236 226 215 202 188 170 157 145 130 118 109 101 95 89 86 83
## [290] 81 82 79 79 85 90 96 99 100 103 111 119 122 123 124 125 128
## [307] 143 158 168 175 182 188 192 209 222 226 234 250 265 279 291 304 306
## [324] 305 326 344 355 367 379 389 395 395 391 380 371 365 352 329 314 300
## [341] 281 271 259 239 214 188 172 158 140 122 112 110 110 115 146 173 180
## [358] 182 212 243 263 275 282 265 249 218 202 198 191 189 194 194 196 193
## [375] 192 198 216 231 239 242 246 249 262 274 284 294 302 306 322 342 357
## [392] 368 374 371 362 357 357 355 356 360 368 376 379 387 397 406 418 419
## [409] 431 434 432 426 420 414 407 403 397 388 378 368 355 345 333 325 313
## [426] 302 295 288 281 273 259 249 237 224 215 211 216 218 230 235 250 249
## [443] 267 285 295 311 324 317 314 305 284 265 253 243 233 222 211 216 217
## [460] 220 216 202 187 180 155 136 126 134 130 123 114 103 94 88 76 67
## [477] 62 58 56 59 67 76 84 90 92 89 84 80 80 88 99 112 126
## [494] 141 156 169 178 183 180 172 160 146 133 119 106 94 84 76 68 63
## [511] 59 57 57 58 60 63 69 76 86 96 106 116 120 116 110 101 92
## [528] 83 74 68 62 57 52 48 46 44 43 43 44 45 47 48 47 45
## [545] 42 39 36 34 33 31 30 30 29 29 29 29 29 28 28 28 28
## [562] 28 28 29 30 31 32 33 34 35 36 38 40 42 45 51 59 69
## [579] 81 94 108 123 136 147 157 162 165 167 170 174 180 187 195 204 213
## [596] 218 214 208 200 189 175 162 147 135 127 126 129 128 121 112 101 90
## [613] 80 72 64 60 60 62 65 71 79 88 97 106 108 107 102 95 87
## [630] 79 72 66 61 57 53 50 47 43 40 36 32 28 24 20 16 13
## [647] 9 6 4 2 1 1 0 0 0 0 0 0 0 0 0 0 0
```

##	[664]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[681]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[698]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[715]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[732]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[749]	0	0	0	0	0	0	0	0	0	0	1	1	3	6	9	13
##	[766]	17	20	21	22	22	21	21	21	21	20	20	20	19	19	19	
##	[783]	19	19	20	20	20	21	22	22	22	22	22	22	22	22	23	
##	[800]	24	24	24	25	25	25	25	26	27	28	29	30	31	32	33	33
##	[817]	34	35	36	37	38	39	40	42	45	49	52	56	58	60	61	62
##	[834]	66	68	70	72	72	70	67	64	61	57	54	52	50	48	47	46
##	[851]	44	41	38	34	31	29	29	31	34	37	41	44	48	51	54	56
##	[868]	60	61	63	65	68	70	74	77	79	79	79	80	80	81	82	82
##	[885]	81	80	78	76	74	71	68	64	61	59	58	58	57	57	56	56
##	[902]	56	57	58	60	62	66	70	75	81	87	94	100	105	110	114	118
##	[919]	129	137	145	152	159	163	168	173	177	179	179	179	179	180	182	186
##	[936]	187	180	170	158	147	138	131	130	132	137	140	138	133	125	117	109
##	[953]	99	97	98	100	102	105	108	110	111	113	117	122	129	138	147	156
##	[970]	169	173	175	176	178	179	180	182	185	188	191	193	194	194	193	193
##	[987]	193	192	191	191	191	191	190	189	190	196	206	205	196	192	185	184
##	[1004]	189	193	196	199	200	200	199	207	198	179	159	142	127	116	109	108
##	[1021]	112	116	120	124	127	129	132	135	137	138	137	133	126	117	106	95
##	[1038]	71	61	53	48	45	43	42	42	43	45	48	51	56	60	62	63
##	[1055]	60	58	55	52	49	46	43	41	39	37	37	36	36	36	37	37
##	[1072]	38	38	38	37	37	36	36	36	36	36	35	35	36	38	41	44
##	[1089]	50	53	56	58	59	60	61	62	62	63	62	60	57	53	48	44
##	[1106]	36	34	32	29	27	24	22	20	19	18	17	17	17	17	18	19
##	[1123]	21	22	23	24	25	26	27	28	29	29	29	29	30	30	30	31
##	[1140]	33	33	33	33	33	33	33	34	34	34	33	33	33	34	34	35
##	[1157]	35	35	35	34	34	33	32	32	32	32	33	33	34	35	35	34
##	[1174]	34	34	34	35	36	38	39	40	40	39	38	38	37	36	35	35
##	[1191]	33	32	31	30	29	29	29	30	30	30	31	123	123	118	109	102
##	[1208]	89	85	83	82	81	80	79	76	72	67	57	45	32	19	11	6
##	[1225]	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[1242]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[1259]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[1276]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[1293]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[1310]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[1327]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[1344]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[1361]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[1378]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[1395]	0	0	0	0	0	0	0	0	0	0	0	0	1	7	16	23
##	[1412]	29	36	49	56	61	64	88	104	121	139	158	170	186	197	203	204
##	[1429]	193	186	180	169	159	149	134	117	100	81	69	61	52	47	44	47
##	[1446]	56	59	75	92	107	126	143	160	172	201	223	232	240	257	280	304
##	[1463]	366	382	385	381	373	360	345	325	311	280	259	254	247	235	222	208
##	[1480]	183	163	147	135	126	118	111	105	98	95	94	93	91	88	87	89
##	[1497]	99	101	101	103	111	119	123	125	124	123	122	141	157	168	176	183
##	[1514]	195	210	223	232	238	251	266	279	291	304	307	306	327	344	355	367
##	[1531]	388	393	393	391	382	372	367	353	329	314	300	289	277	266	254	221
##	[1548]	173	159	141	131	124	117	113	116	147	173	182	184	214	243	263	275
##	[1565]	264	249	218	202	191	186	186	186	187	190	187	184	195	214	230	233

```

## [1582] 233 237 257 272 281 289 300 303 320 341 356 369 377 376 370 367 365
## [1599] 362 362 366 372 378 385 392 400 409 419 425 433 439 437 432 428 422
## [1616] 416 410 404 392 380 371 362 352 342 330 317 304 298 295 290 279 266
## [1633] 253 242 234 227 222 223 227 234 239 252 251 268 285 297 314 326 318
## [1650] 315 306 284 265 253 242 234 227 223 223 227 229 226 207 193 187 159
## [1667] 141 130 134 139 131 120 109 102 95 81 71 64 59 55 58 65 72
## [1684] 79 85 87 84 79 75 77 89 103 115 127 141 158 175 186 189 184
## [1701] 175 162 146 128 111 98 88 80 72 66 61 58 57 58 60 62 64
## [1718] 68 74 82 94 107 118 124 123 118 109 100 90 80 72 67 63 59
## [1735] 55 53 51 50 49 49 49 49 48 47 45 43 41 40 38 36 35
## [1752] 34 33 33 33 33 33 33 33 32 32 32 32 33 34 36 37 38
## [1769] 38 39 41 43 45 47 50 53 57 66 77 90 106 124 141 156 167
## [1786] 175 179 180 181 182 184 189 195 205 215 226 234 232 227 219 206 190
## [1803] 174 156 145 138 145 150 145 136 124 111 97 86 77 72 70 69 71
## [1820] 73 79 88 98 107 114 114 111 107 99 90 81 73 66 60 55 50
## [1837] 45 42 39 36 33 29 25 22 19 15 12 9 6 4 2 1 0
## [1854] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [1871] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [1888] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [1905] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [1922] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [1939] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [1956] 0 0 0 0 0 0 2 4 7 10 13 16 18 20 20 20 20
## [1973] 20 20 21 22 22 22 22 22 22 22 23 24 25 25 25 26 27
## [1990] 28 29 30 30 30 30 30 30 30 30 31 32 33 33 34 34 34
## [2007] 34 35 36 37 38 39 39 40 40 41 41 42 42 43 43 44 45
## [2024] 46 48 50 52 55 58 60 62 63 63 65 68 72 75 77 77 76
## [2041] 74 71 68 65 62 59 57 55 54 53 52 50 47 43 40 37 35
## [2058] 35 36 39 43 46 50 52 55 57 58 60 61 62 65 68 72 77
## [2075] 83 86 88 88 87 87 87 88 89 89 89 89 88 86 85 83 81
## [2092] 76 71 68 66 64 62 60 58 56 54 54 54 55 57 60 63 66
## [2109] 71 76 81 87 94 100 106 111 115 119 124 131 139 148 158 167 172
## [2126] 177 180 184 186 186 188 187 186 189 193 195 192 185 173 159 147 139
## [2143] 134 134 140 146 150 147 140 132 124 116 111 106 103 102 102 103 105
## [2160] 106 107 108 111 115 122 131 141 150 157 163 167 170 172 173 174 175
## [2177] 177 180 183 187 190 192 192 191 190 190 191 191 190 188 187 187 187
## [2194] 188 188 192 206 230 240 229 218 208 202 199 200 200 200 201 202 204
## [2211] 211 229 221 197 168 146 129 117 108 106 107 110 114 118 123 126 128
## [2228] 132 137 139 140 139 136 130 121 111 99 86 75 65 57 53 51 50
## [2245] 49 49 51 52 54 57 61 65 67 66 64 61 58 55 52 50 47
## [2262] 44 42 40 39 39 39 39 39 39 39 38 38 38 38 38 38 38
## [2279] 38 38 39 39 40 41 42 44 46 48 50 52 55 58 60 61 61
## [2296] 61 62 63 65 65 63 61 58 53 49 45 41 39 36 34 31 27
## [2313] 25 23 22 21 21 21 21 22 23 24 26 28 29 30 31 33 34
## [2330] 36 37 38 38 38 38 38 38 39 40 41 42 42 42 42 42 42
## [2347] 42 43 42 42 41 41 41 41 41 42 42 42 42 42 41 39 38
## [2364] 37 36 35 35 35 37 38 39 39 38 37 36 36 36 37 38 38
## [2381] 38 38 38 37 36 35 34 34 33 33 32 32 31 29 29 28 29
## [2398] 29 29 30 30 31 127 127 119 113 106 99 92 88 86 84 81 79
## [2415] 76 73 69 66 57 46 32 21 14 9 6 3 1 0 0 0 0
## [2432] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [2449] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [2466] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [2483] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

```


##	[2500]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[2517]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[2534]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[2551]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[2568]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[2585]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[2602]	0	0	0	0	0	0	0	5	11	17	23	29	39	48	55	67
##	[2619]	77	99	116	132	148	163	174	184	192	196	196	190	183	176	163	150
##	[2636]	125	109	90	77	67	60	52	47	46	50	54	58	61	70	87	103
##	[2653]	133	146	162	185	206	223	235	250	268	292	322	353	369	375	376	371
##	[2670]	345	329	315	301	280	265	252	238	222	205	193	182	162	145	134	126
##	[2687]	115	108	101	98	97	96	94	91	90	92	96	100	101	102	105	111
##	[2704]	126	129	126	123	122	141	156	166	175	183	189	195	210	223	232	238
##	[2721]	266	279	291	304	304	308	327	342	353	365	375	386	389	391	389	382
##	[2738]	369	354	337	322	307	295	283	269	256	222	192	174	159	141	131	125
##	[2755]	114	117	147	173	187	191	217	245	264	276	271	257	240	211	196	188
##	[2772]	184	182	182	185	181	178	185	202	215	219	220	215	220	240	251	263
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## [96119] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

```

##	[96136]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
##	[96153]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
##	[96170]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
##	[96187]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
##	[96204]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
##	[96221]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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##	[96255]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
##	[96272]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
##	[96289]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
##	[96306]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
##	[96323]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
##	[96340]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
##	[96357]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
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##	[96391]	182	169	145	131	121	121	121	129	144	163	182	194	199	221	243	223	182
##	[96408]	170	153	138	121	121	121	121	121	124	121	121	100	94	81	60	60	88
##	[96425]	121	121	121	102	83	66	62	61	60	60	60	60	58	53	50	46	43
##	[96442]	40	36	33	29	27	26	28	29	35	42	49	54	53	55	57	60	60
##	[96459]	64	70	72	69	67	68	83	96	109	118	139	168	182	191	200	211	224
##	[96476]	243	254	259	271	283	294	294	301	310	318	326	331	341	356	373	388	406
##	[96493]	418	423	426	426	426	429	434	437	446	460	477	477	462	447	433	418	397
##	[96510]	376	365	322	297	276	249	243	243	243	243	265	279	289	311	324	341	359
##	[96527]	367	370	355	340	324	312	302	302	326	351	365	382	393	402	417	425	434
##	[96544]	443	451	459	464	471	479	487	486	494	501	509	514	517	515	500	487	487
##	[96561]	460	426	426	426	487	457	441	426	426	409	401	410	426	473	494	491	487
##	[96578]	487	487	441	406	410	426	441	462	487	520	523	505	487	460	426	412	396
##	[96595]	389	382	372	365	329	299	277	264	253	247	243	223	190	148	121	94	60
##	[96612]	60	60	81	121	129	136	142	145	144	144	141	136	131	121	113	90	74
##	[96629]	60	63	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
##	[96646]	58	55	53	52	50	48	46	43	41	39	38	36	34	32	29	27	25
##	[96663]	24	22	19	17	15	13	12	10	8	6	3	2	1	0	0	0	0
##	[96680]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[96697]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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##	[96748]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[96765]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[96782]	0	0	0	0	0	4	11	18	27	35	37	38	39	42	55	44	49
##	[96799]	49	51	56	60	60	35	32	30	3	0	0	0	0	0	0	0	0
##	[96816]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[96833]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
##	[96850]	4	6	8	10	11	14	16	16	17	18	18	19	20	21	21	22	23
##	[96867]	24	24	25	26	26	27	28	29	30	32	33	34	35	35	37	38	39
##	[96884]	40	41	42	43	44	46	47	48	49	50	51	53	54	55	56	57	58
##	[96901]	60	60	70	81	91	101	114	121	121	130	136	144	152	166	179	182	182
##	[96918]	182	182	184	186	188	187	187	185	182	171	139	121	121	121	121	121	121
##	[96935]	121	121	121	121	161	179	182	182	182	182	208	243	182	182	206	219	226
##	[96952]	234	240	243	245	247	250	252	255	254	255	254	250	243	236	213	194	182
##	[96969]	167	151	134	121	121	121	121	121	121	121	121	121	121	121	121	121	121
##	[96986]	121	121	121	121	121	121	121	121	121	121	169	182	182	182	182	186	189
##	[97003]	192	199	225	234	240	243	243	247	248	245	192	186	190	206	220	238	243
##	[97020]	243	243	243	243	243	197	182	182	192	229	243	243	243	240	230	217	205
##	[97037]	194	179	170	173	175	177	180	182	197	205	201	206	212	217	216	192	186

```

## [97054] 184 182 194 218 239 243 243 243 243 243 243 243 246 246 246 246 243
## [97071] 244 263 286 304 304 304 304 295 289 282 281 280 286 300 308 309 306
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## [97105] 275 266 262 263 271 284 296 301 303 304 304 304 319 323 324 321 326
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## [97139] 294 276 255 243 213 196 194 198 193 188 183 169 144 121 126 123 121
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## [97411] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [97428] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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## [97581] 47 64 66 68 69 86 102 115 127 142 153 170 168 149 133 123 121
## [97598] 119 121 121 142 166 182 182 207 230 243 202 182 167 152 129 121 121
## [97615] 121 121 121 122 121 105 97 91 77 60 91 89 108 121 96 79 61
## [97632] 61 60 60 60 60 60 57 52 47 44 40 36 31 26 23 19 17
## [97649] 16 17 20 27 32 37 37 44 52 60 60 60 60 58 59 60 60
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## [97717] 243 243 243 243 284 304 311 331 344 365 370 380 388 380 365 350 342
## [97734] 339 337 355 365 407 394 402 408 417 426 441 452 462 472 473 477 483
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## [97853] 46 43 41 40 38 36 35 32 29 28 26 24 22 20 17 16 14
## [97870] 12 10 9 7 4 3 1 0 0 0 0 0 0 0 0 0 0
## [97887] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [97904] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [97921] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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##	[98006]	26	25	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
##	[98023]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
##	[98040]	0	0	0	0	0	0	0	0	0	0	2	4	6	8	10	11	13
##	[98057]	15	16	17	17	18	18	19	20	21	21	22	23	24	24	25	25	26
##	[98074]	27	29	30	31	32	33	34	35	36	37	38	39	40	41	42	44	45
##	[98091]	46	47	48	49	51	52	53	54	55	56	57	59	60	67	75	84	93
##	[98108]	108	121	121	129	137	144	151	162	172	177	182	182	182	185	189	192	192
##	[98125]	194	194	195	189	172	151	139	128	121	121	121	121	121	121	149	173	182
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##	[98210]	243	243	243	244	243	182	185	182	198	221	243	243	243	243	243	243	203
##	[98227]	182	182	182	243	237	242	243	243	236	217	201	189	176	163	166	169	173
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##	[98278]	287	279	273	266	260	253	267	285	304	305	305	305	304	277	243	243	243
##	[98295]	258	277	304	304	304	304	304	304	304	297	275	259	249	248	253	265	282
##	[98312]	297	302	303	304	304	304	304	304	304	304	304	304	341	365	366	365	366
##	[98329]	365	365	372	371	368	367	366	366	365	349	332	313	304	270	243	229	227
##	[98346]	230	243	225	204	186	166	149	135	121	121	151	172	160	148	135	121	118
##	[98363]	109	99	92	85	78	71	65	60	60	60	60	60	60	60	60	60	60
##	[98380]	60	60	60	60	60	60	60	60	60	60	56	49	47	47	51	52	51
##	[98397]	51	51	51	52	52	53	53	53	53	54	55	55	56	56	56	56	55
##	[98414]	56	56	56	56	56	57	57	58	58	58	59	59	59	59	59	59	60
##	[98431]	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
##	[98448]	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
##	[98465]	60	60	60	60	60	60	60	60	60	55	57	60	64	68	73	78	79
##	[98482]	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[98499]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[98516]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[98533]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[98550]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[98567]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[98584]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[98601]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[98618]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[98635]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[98652]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[98669]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[98686]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[98703]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[98720]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[98737]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[98754]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	[98771]	0	0	0	0	0	0	0	0	0	0	0	0	23	38	44	53	67
##	[98788]	85	97	109	121	121	139	138	134	130	121	117	117	119	120	121	148	162
##	[98805]	174	190	212	195	194	189	184	175	152	135	134	131	121	121	121	121	117
##	[98822]	115	113	98	89	65	60	72	77	80	73	60	61	60	60	60	60	60
##	[98839]	56	50	45	41	37	32	26	20	16	11	8	4	4	5	13	16	23
##	[98856]	25	32	40	50	55	55	52	53	55	58	60	60	66	89	108	134	176
##	[98873]	181	185	189	193	197	203	213	204	230	249	250	251	252	255	261	286	298

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```

```
## [99808] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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## [99910] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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## [99944] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [99961] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [99978] 0 0 0 0 0 0 0 16 27 38 55 73 85 97 102 114 121
## [99995] 121 121 121 113 115
## [ reached getOption("max.print") -- omitted 1342402 entries ]
```

Explore the Structure

And we could even then turn that vector back into a matrix of the proper dimensions.

```
#coerce our whole raster's dataset to a matrix, with the appropriate number
#of columns, and
matrix(DEM[,], ncol = ncol(DEM), byrow = TRUE)
```

```
##      [,1] [,2] [,3] [,4] [,5] [,6] [,7] [,8] [,9] [,10] [,11] [,12]
## [1,] 120 120 117 111 104 98 92 89 87 85 82 80
## [2,] 123 123 118 109 102 96 89 85 83 82 81 80
## [3,] 127 127 119 113 106 99 92 88 86 84 81 79
## [4,] 130 130 125 119 113 108 101 97 94 90 83 77
## [5,] 130 131 128 123 120 115 110 107 104 97 87 77
## [6,] 126 128 125 122 120 118 116 114 111 103 91 78
## [7,] 115 123 116 113 111 110 109 108 103 92 79 68
## [8,] 99 97 102 97 95 95 95 93 86 76 67 57
## [9,] 77 74 78 74 73 73 74 73 60 58 46 38
## [10,] 50 47 48 49 48 50 51 51 49 48 38 27
## [11,] 23 10 18 19 19 28 28 31 38 42 37 27
## [12,] 0 3 9 10 10 11 11 17 29 38 37 25
## [13,] 0 0 1 2 2 2 2 13 26 35 34 22
## [14,] 0 0 0 0 0 0 0 11 23 31 30 19
## [15,] 0 0 0 0 0 0 0 10 21 28 27 18
## [16,] 0 0 0 0 0 0 0 9 19 24 23 17
## [17,] 0 0 0 0 0 0 0 7 16 20 20 15
## [18,] 0 0 0 0 0 0 0 6 13 16 16 13
## [19,] 0 0 0 0 0 0 0 4 10 12 13 11
## [20,] 0 0 0 0 0 0 0 3 7 8 8 8
## [21,] 0 0 0 0 0 0 0 1 3 3 4 4
## [22,] 0 0 0 0 0 0 0 0 0 0 1 1
## [23,] 0 0 0 0 0 0 0 0 0 0 0 0
## [24,] 0 0 0 0 0 0 0 0 0 0 0 0
## [25,] 0 0 0 0 0 0 0 0 0 0 0 0
## [26,] 0 0 0 0 0 0 0 0 0 0 0 0
## [27,] 0 0 0 0 0 0 0 0 0 0 0 0
## [28,] 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
## [30,] 0 0 0 0 0 0 0 0 0 0 0 0
## [31,] 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
```

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

##	[3,]	76	73	69	66	57	46	32	21	14	9	6
##	[4,]	72	68	66	64	60	52	42	32	23	18	13
##	[5,]	69	65	63	62	61	57	50	43	37	30	25
##	[6,]	68	62	61	60	60	59	56	52	48	44	38
##	[7,]	60	55	56	56	58	57	57	57	56	54	49
##	[8,]	48	44	45	46	51	51	53	56	57	57	56
##	[9,]	35	31	31	37	40	40	45	50	52	51	52
##	[10,]	23	19	18	22	26	26	33	39	41	39	41
##	[11,]	17	11	9	12	13	13	18	24	25	23	26
##	[12,]	15	9	6	5	6	4	7	10	11	9	11
##	[13,]	13	8	5	3	2	1	1	2	2	2	2
##	[14,]	12	8	5	3	2	1	0	0	0	0	0
##	[15,]	11	7	5	4	2	1	1	0	0	0	0
##	[16,]	11	7	5	4	3	2	1	0	0	0	0
##	[17,]	10	7	6	5	3	2	1	1	0	0	0
##	[18,]	10	8	7	5	4	3	2	1	0	0	0
##	[19,]	9	8	7	5	4	3	2	1	0	0	0
##	[20,]	7	6	5	5	3	2	1	1	0	0	0
##	[21,]	4	4	3	3	2	1	0	0	0	0	0
##	[22,]	1	1	1	1	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0	0	0	0

##	[57,]	0	0	0	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0	0	0	0
##		[,24]	[,25]	[,26]	[,27]	[,28]	[,29]	[,30]	[,31]	[,32]	[,33]	[,34]
##	[1,]	1	0	0	0	0	0	0	0	0	0	0
##	[2,]	1	0	0	0	0	0	0	0	0	0	0
##	[3,]	3	1	0	0	0	0	0	0	0	0	0
##	[4,]	8	5	2	1	0	0	0	0	0	0	0
##	[5,]	17	11	7	4	2	1	0	0	0	0	0
##	[6,]	28	21	14	8	4	2	1	0	0	0	0
##	[7,]	40	33	23	15	9	5	2	0	0	0	0
##	[8,]	50	43	33	23	15	8	4	1	0	0	1
##	[9,]	47	46	40	32	20	11	5	1	1	2	5
##	[10,]	38	36	27	21	15	9	4	1	2	6	13
##	[11,]	23	23	17	12	8	5	2	1	3	11	23
##	[12,]	9	10	7	4	2	1	0	0	3	17	38
##	[13,]	2	2	2	1	0	0	0	0	0	7	25
##	[14,]	0	0	0	0	0	0	0	0	0	1	10
##	[15,]	0	0	0	0	0	0	0	0	0	0	2
##	[16,]	0	0	0	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0	0	0	0

##	[27,]	0	0	0	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0	0	0	0

##	[81,]	0	0	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0	0	0	0
##		[,35]	[,36]	[,37]	[,38]	[,39]	[,40]	[,41]	[,42]	[,43]	[,44]	[,45]
##	[1,]	0	0	0	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0	0	0	0
##	[3,]	0	0	0	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0	0	0	0
##	[7,]	0	0	1	1	0	0	0	0	0	0	0
##	[8,]	2	3	4	3	2	1	0	0	0	0	0
##	[9,]	7	11	11	8	5	3	1	0	0	0	0
##	[10,]	17	23	23	17	11	6	3	1	0	0	0
##	[11,]	28	36	36	31	20	11	5	2	0	0	0
##	[12,]	38	46	51	39	28	17	7	2	0	0	0
##	[13,]	41	52	44	29	19	11	5	1	0	0	0
##	[14,]	31	32	30	17	9	5	2	0	0	0	0
##	[15,]	9	14	14	8	4	2	1	0	0	0	0
##	[16,]	1	4	4	2	1	0	0	0	0	0	0
##	[17,]	0	0	1	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0	0	0	0

##	[51,]	0	0	0	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0	0	0	0
##		[,46]	[,47]	[,48]	[,49]	[,50]	[,51]	[,52]	[,53]	[,54]	[,55]	[,56]
##	[1,]	0	0	0	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0	0	0	0
##	[3,]	0	0	0	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0	0	0	0
##	[9,]	0	0	0	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0	0	0	0
##	[15,]	0	0	0	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0	0	0	0

##	[21,]	0	0	0	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0	0	0	0

##	[75,]	0	0	0	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0	0	0	0
##		[,57]	[,58]	[,59]	[,60]	[,61]	[,62]	[,63]	[,64]	[,65]	[,66]	[,67]
##	[1,]	0	0	0	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0	0	0	0
##	[3,]	0	0	0	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0	0	0	0
##	[9,]	0	0	0	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0	0	0	0
##	[15,]	0	0	0	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0	0	0	0

##	[45,]	0	0	0	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0	0	0	0
##		[,68]	[,69]	[,70]	[,71]	[,72]	[,73]	[,74]	[,75]	[,76]	[,77]	[,78]
##	[1,]	0	0	0	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0	0	0	0
##	[3,]	0	0	0	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0	0	0	0
##	[9,]	0	0	0	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0	0	0	0

##	[15,]	0	0	0	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0	0	0	0

##	[69,]	0	0	0	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0	0	0	0
##		[,79]	[,80]	[,81]	[,82]	[,83]	[,84]	[,85]	[,86]	[,87]	[,88]	[,89]
##	[1,]	0	0	0	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0	0	0	0
##	[3,]	0	0	0	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0	0	0	0
##	[9,]	0	0	0	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0	0	0	0
##	[15,]	0	0	0	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0	0	0	0

##	[39,]	0	0	0	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0	0	0	0
##		[,90]	[,91]	[,92]	[,93]	[,94]	[,95]	[,96]	[,97]	[,98]	[,99]	[,100]
##	[1,]	0	0	0	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0	0	0	0
##	[3,]	0	0	0	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0	0	0	0

##	[9,]	0	0	0	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0	0	0	0
##	[15,]	0	0	0	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0	0	0	0

##	[63,]	0	0	0	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0	0	0	0
##		[,101]	[,102]	[,103]	[,104]	[,105]	[,106]	[,107]	[,108]	[,109]		
##	[1,]	0	0	0	0	0	0	0	0	0		
##	[2,]	0	0	0	0	0	0	0	0	0		
##	[3,]	0	0	0	0	0	0	0	0	0		
##	[4,]	0	0	0	0	0	0	0	0	0		
##	[5,]	0	0	0	0	0	0	0	0	0		
##	[6,]	0	0	0	0	0	0	0	0	0		
##	[7,]	0	0	0	0	0	0	0	0	0		
##	[8,]	0	0	0	0	0	0	0	0	0		
##	[9,]	0	0	0	0	0	0	0	0	0		
##	[10,]	0	0	0	0	0	0	0	0	0		
##	[11,]	0	0	0	0	0	0	0	0	0		
##	[12,]	0	0	0	0	0	0	0	0	0		
##	[13,]	0	0	0	0	0	0	0	0	0		
##	[14,]	0	0	0	0	0	0	0	0	0		
##	[15,]	0	0	0	0	0	0	0	0	0		
##	[16,]	0	0	0	0	0	0	0	0	0		
##	[17,]	0	0	0	0	0	0	0	0	0		
##	[18,]	0	0	0	0	0	0	0	0	0		
##	[19,]	0	0	0	0	0	0	0	0	0		
##	[20,]	0	0	0	0	0	0	0	0	0		
##	[21,]	0	0	0	0	0	0	0	0	0		
##	[22,]	0	0	0	0	0	0	0	0	0		
##	[23,]	0	0	0	0	0	0	0	0	0		
##	[24,]	0	0	0	0	0	0	0	0	0		
##	[25,]	0	0	0	0	0	0	0	0	0		
##	[26,]	0	0	0	0	0	0	0	0	0		
##	[27,]	0	0	0	0	0	0	0	0	0		
##	[28,]	0	0	0	0	0	0	0	0	0		
##	[29,]	0	0	0	0	0	0	0	0	0		
##	[30,]	0	0	0	0	0	0	0	0	0		
##	[31,]	0	0	0	0	0	0	0	0	0		
##	[32,]	0	0	0	0	0	0	0	0	0		

##	[33,]	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0
##									
##		[,110]	[,111]	[,112]	[,113]	[,114]	[,115]	[,116]	[,117]
##									
##	[1,]	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0

##	[3,]	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0
##	[9,]	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0
##	[15,]	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0

##	[57,]	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0
##		[,119]	[,120]	[,121]	[,122]	[,123]	[,124]	[,125]	[,126]
##	[1,]	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0
##	[3,]	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0
##	[9,]	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0
##	[15,]	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0

##	[27,]	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0

##	[81,]	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0	0
##		[,128]	[,129]	[,130]	[,131]	[,132]	[,133]	[,134]	[,135]	[,136]
##	[1,]	0	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0	0
##	[3,]	0	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0	0
##	[9,]	0	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0	0
##	[15,]	0	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0	0

##	[51,]	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0
##		[,137]	[,138]	[,139]	[,140]	[,141]	[,142]	[,143]	[,144]
##	[1,]	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0
##	[3,]	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0
##	[9,]	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0
##	[15,]	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0

##	[21,]	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0

##	[75,]	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0
##		[,146]	[,147]	[,148]	[,149]	[,150]	[,151]	[,152]	[,153]
##	[1,]	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0
##	[3,]	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0
##	[9,]	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0
##	[15,]	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0

##	[45,]	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0
##		[,155]	[,156]	[,157]	[,158]	[,159]	[,160]	[,161]	[,162]
##	[1,]	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0
##	[3,]	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0
##	[9,]	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0

##	[15,]	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0

##	[69,]	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0
##		[,164]	[,165]	[,166]	[,167]	[,168]	[,169]	[,170]	[,171]
##	[1,]	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0
##	[3,]	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0
##	[9,]	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0
##	[15,]	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0

##	[39,]	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0
##		[,173]	[,174]	[,175]	[,176]	[,177]	[,178]	[,179]	[,180]
##	[1,]	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0
##	[3,]	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0

##	[9,]	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0
##	[15,]	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0

##	[63,]	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0
##		[,182]	[,183]	[,184]	[,185]	[,186]	[,187]	[,188]	[,189]
##	[1,]	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0
##	[3,]	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0
##	[9,]	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0
##	[15,]	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0

##	[33,]	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0
##		[,191]	[,192]	[,193]	[,194]	[,195]	[,196]	[,197]	[,198]
##	[1,]	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0

##	[3,]	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0
##	[9,]	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0
##	[15,]	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0

##	[57,]	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0
##		[,200]	[,201]	[,202]	[,203]	[,204]	[,205]	[,206]	[,207]
##	[1,]	0	0	0	0	0	0	1	3
##	[2,]	0	0	0	0	0	0	0	1
##	[3,]	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0
##	[9,]	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0
##	[15,]	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0

##	[27,]	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0

##	[81,]	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0	0
##		[,209]	[,210]	[,211]	[,212]	[,213]	[,214]	[,215]	[,216]	[,217]
##	[1,]	19	27	33	40	51	59	70	69	91
##	[2,]	16	23	29	36	49	56	61	64	88
##	[3,]	11	17	23	29	39	48	55	67	77
##	[4,]	5	10	14	20	28	37	45	56	70
##	[5,]	1	3	5	9	17	25	33	42	51
##	[6,]	0	0	1	2	7	13	21	29	36
##	[7,]	0	0	0	0	1	5	11	18	24
##	[8,]	0	0	0	0	0	1	4	9	14
##	[9,]	0	0	0	0	0	0	0	3	7
##	[10,]	0	0	0	0	0	0	0	0	1
##	[11,]	0	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0	0
##	[15,]	0	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0	0

##	[51,]	0	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0	0
##										
##		[,218]	[,219]	[,220]	[,221]	[,222]	[,223]	[,224]	[,225]	[,226]
##	[1,]	108	123	140	158	168	185	196	204	205
##	[2,]	104	121	139	158	170	186	197	203	204
##	[3,]	99	116	132	148	163	174	184	192	196
##	[4,]	94	110	125	139	152	161	171	179	185
##	[5,]	64	75	100	120	134	145	156	163	170
##	[6,]	44	53	62	90	111	126	138	146	153
##	[7,]	31	38	49	68	89	106	118	129	136
##	[8,]	20	27	37	51	61	72	95	109	121
##	[9,]	12	18	28	40	55	62	87	101	108
##	[10,]	5	11	22	35	48	73	97	100	98
##	[11,]	1	5	14	27	51	78	98	91	81
##	[12,]	0	0	4	17	32	64	85	73	60
##	[13,]	0	0	0	11	25	53	72	64	62
##	[14,]	0	0	0	4	16	35	51	52	56
##	[15,]	0	0	0	0	6	14	29	43	53
##	[16,]	0	0	0	0	0	4	22	39	58
##	[17,]	0	0	0	0	0	0	11	33	60
##	[18,]	0	0	0	0	0	0	0	8	28
##	[19,]	0	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0	0

##	[21,]	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0

##	[75,]	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0
##		[,227]	[,228]	[,229]	[,230]	[,231]	[,232]	[,233]	[,234]
##	[1,]	204	194	195	186	172	164	152	135
##	[2,]	203	193	186	180	169	159	149	134
##	[3,]	196	190	183	176	163	150	138	125
##	[4,]	185	183	174	167	152	136	123	108
##	[5,]	170	170	160	151	136	120	105	90
##	[6,]	153	153	141	129	116	103	88	75
##	[7,]	136	132	118	105	94	82	75	67
##	[8,]	117	103	82	70	75	70	66	63
##	[9,]	95	79	72	65	63	63	62	61
##	[10,]	84	72	65	62	61	61	60	63
##	[11,]	73	66	62	61	60	60	60	71
##	[12,]	60	62	61	60	60	60	60	87
##	[13,]	60	61	61	61	60	60	85	103
##	[14,]	58	60	61	66	74	95	111	134
##	[15,]	58	60	68	82	97	121	133	172
##	[16,]	60	60	72	82	94	112	131	172
##	[17,]	60	60	67	72	77	91	103	121
##	[18,]	46	50	50	52	57	68	72	77
##	[19,]	15	21	20	28	39	44	48	54
##	[20,]	0	1	0	6	18	26	31	43
##	[21,]	0	0	0	0	0	10	16	32
##	[22,]	0	0	0	0	0	0	0	14
##	[23,]	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0

##	[45,]	0	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0	0
##		[,236]	[,237]	[,238]	[,239]	[,240]	[,241]	[,242]	[,243]	[,244]
##	[1,]	101	81	69	62	54	50	53	53	54
##	[2,]	100	81	69	61	52	47	44	47	52
##	[3,]	90	77	67	60	52	47	46	50	54
##	[4,]	75	67	63	59	54	52	55	61	60
##	[5,]	68	64	62	60	58	62	73	72	72
##	[6,]	64	62	61	61	67	81	100	99	90
##	[7,]	61	61	62	63	78	98	110	114	106
##	[8,]	61	62	71	74	91	107	117	121	116
##	[9,]	65	75	85	89	101	114	126	133	127
##	[10,]	80	100	103	108	118	128	140	147	140
##	[11,]	97	112	124	130	139	146	159	162	155
##	[12,]	121	135	146	152	161	168	182	177	182
##	[13,]	135	149	163	170	182	180	178	182	182
##	[14,]	156	174	180	182	181	182	183	183	183

##	[15,]	167	182	182	181	182	184	186	188	188
##	[16,]	161	163	175	182	182	185	192	198	204
##	[17,]	138	140	153	168	182	187	202	215	226
##	[18,]	110	118	129	147	164	189	213	236	243
##	[19,]	78	100	115	121	141	175	206	222	235
##	[20,]	60	86	111	120	130	168	188	211	226
##	[21,]	60	86	121	119	138	170	182	201	223
##	[22,]	52	68	87	111	131	175	194	209	236
##	[23,]	30	45	60	87	121	148	182	200	205
##	[24,]	15	31	47	60	95	131	161	182	182
##	[25,]	0	9	28	51	68	100	131	146	158
##	[26,]	0	0	0	26	43	70	101	121	137
##	[27,]	0	0	0	5	21	45	71	91	112
##	[28,]	0	0	0	0	0	22	45	60	87
##	[29,]	0	0	0	0	0	3	22	37	53
##	[30,]	0	0	0	0	0	0	0	14	31
##	[31,]	0	0	0	0	0	0	0	0	8
##	[32,]	0	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0	0

##	[69,]	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0
##		[,245]	[,246]	[,247]	[,248]	[,249]	[,250]	[,251]	[,252]
##	[1,]	56	58	74	91	107	126	143	162
##	[2,]	56	59	75	92	107	126	143	160
##	[3,]	58	61	70	87	103	118	133	146
##	[4,]	61	61	63	76	94	106	121	131
##	[5,]	68	64	63	74	91	105	116	122
##	[6,]	82	73	71	80	96	109	124	130
##	[7,]	98	86	83	93	107	127	139	145
##	[8,]	109	99	96	102	111	143	159	169
##	[9,]	119	111	109	112	116	128	145	160
##	[10,]	131	123	120	120	121	123	130	140
##	[11,]	143	133	132	129	130	127	124	129
##	[12,]	166	156	144	140	143	135	121	121
##	[13,]	182	176	173	182	165	157	147	144
##	[14,]	182	182	182	191	188	185	174	165
##	[15,]	182	182	182	205	204	199	192	182
##	[16,]	200	197	215	223	219	216	211	210
##	[17,]	224	229	238	238	235	233	233	235
##	[18,]	243	243	243	243	242	241	241	243
##	[19,]	242	243	243	243	243	243	243	243
##	[20,]	237	242	243	243	243	243	243	243
##	[21,]	237	243	243	243	243	243	243	243
##	[22,]	243	242	243	243	243	243	243	243
##	[23,]	223	243	243	243	243	243	243	243
##	[24,]	182	208	237	243	243	243	243	243
##	[25,]	169	179	209	243	243	243	243	243
##	[26,]	152	169	194	227	243	243	243	243
##	[27,]	131	158	190	218	243	243	243	243
##	[28,]	121	137	170	200	220	243	243	243
##	[29,]	75	106	141	172	192	195	198	198
##	[30,]	48	60	109	142	155	161	162	173
##	[31,]	28	51	81	113	129	131	131	146
##	[32,]	0	26	66	89	96	104	113	121
##	[33,]	0	0	48	75	78	87	95	98
##	[34,]	0	0	26	51	57	67	69	70
##	[35,]	0	0	10	30	41	48	52	54
##	[36,]	0	0	2	15	28	34	39	45
##	[37,]	0	0	0	0	15	22	29	37
##	[38,]	0	0	0	0	3	11	20	31

##	[39,]	0	0	0	0	0	0	11	30	55
##	[40,]	0	0	0	0	0	0	0	22	55
##	[41,]	0	0	0	0	0	0	0	0	45
##	[42,]	0	0	0	0	0	0	0	0	22
##	[43,]	0	0	0	0	0	0	0	0	10
##	[44,]	0	0	0	0	0	0	0	0	5
##	[45,]	0	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0	0
##		[,254]	[,255]	[,256]	[,257]	[,258]	[,259]	[,260]	[,261]	[,262]
##	[1,]	202	223	234	246	260	282	308	336	367
##	[2,]	201	223	232	240	257	280	304	334	366
##	[3,]	185	206	223	235	250	268	292	322	353
##	[4,]	156	171	188	208	226	244	269	297	321
##	[5,]	141	158	171	186	205	222	242	271	294
##	[6,]	142	155	173	185	202	212	227	257	282
##	[7,]	160	173	186	198	206	219	241	266	285
##	[8,]	183	192	207	225	236	248	271	288	300

##	[9,]	192	212	228	242	260	276	289	295	305
##	[10,]	182	203	224	245	274	285	287	294	303
##	[11,]	168	190	212	231	250	267	275	286	296
##	[12,]	159	182	194	211	227	243	256	275	287
##	[13,]	165	176	182	197	215	231	243	257	272
##	[14,]	172	177	180	182	198	220	234	242	251
##	[15,]	178	180	181	181	182	213	231	239	243
##	[16,]	198	192	182	201	212	221	237	249	277
##	[17,]	243	243	243	243	243	243	251	277	304
##	[18,]	243	243	243	243	243	255	267	293	302
##	[19,]	243	243	243	243	243	257	269	293	304
##	[20,]	243	243	243	243	243	252	259	273	291
##	[21,]	243	243	243	243	243	243	243	259	261
##	[22,]	243	243	243	243	243	243	239	243	243
##	[23,]	243	243	243	243	243	243	230	227	231
##	[24,]	243	243	243	243	243	243	218	213	220
##	[25,]	243	243	243	243	243	243	202	199	210
##	[26,]	243	243	243	243	243	243	192	182	199
##	[27,]	243	243	243	243	226	192	186	182	192
##	[28,]	243	243	243	216	202	182	182	182	189
##	[29,]	232	231	215	200	182	174	174	180	184
##	[30,]	200	201	194	182	144	148	161	174	181
##	[31,]	173	186	169	147	121	121	145	167	178
##	[32,]	142	144	142	121	126	122	131	156	167
##	[33,]	121	129	121	122	121	123	129	150	161
##	[34,]	92	102	107	112	118	121	129	144	154
##	[35,]	60	60	78	97	111	121	133	144	153
##	[36,]	57	59	60	70	101	121	132	143	151
##	[37,]	54	58	59	60	90	121	128	139	147
##	[38,]	54	58	60	68	86	104	124	134	142
##	[39,]	60	60	63	75	89	100	116	130	138
##	[40,]	60	60	66	76	87	98	116	128	136
##	[41,]	60	60	70	78	87	97	115	125	132
##	[42,]	60	60	68	76	84	93	106	118	125
##	[43,]	40	60	65	71	78	87	99	110	116
##	[44,]	27	44	60	66	73	81	94	106	112
##	[45,]	7	27	43	56	64	73	86	100	108
##	[46,]	0	12	30	47	60	67	81	95	105
##	[47,]	0	4	20	38	54	63	75	92	104
##	[48,]	0	0	8	27	41	52	66	90	106
##	[49,]	0	0	0	15	32	47	63	86	106
##	[50,]	0	0	0	8	25	43	67	92	109
##	[51,]	0	0	0	0	17	38	61	91	112
##	[52,]	0	0	0	0	8	30	56	79	90
##	[53,]	0	0	0	0	0	30	62	67	68
##	[54,]	0	0	0	0	0	25	60	60	60
##	[55,]	0	0	0	0	0	15	50	60	60
##	[56,]	0	0	0	0	0	0	41	60	60
##	[57,]	0	0	0	0	0	0	30	47	57
##	[58,]	0	0	0	0	0	0	22	45	53
##	[59,]	0	0	0	0	0	0	27	50	60
##	[60,]	0	0	0	0	0	0	30	60	58
##	[61,]	0	0	0	0	0	0	29	60	60
##	[62,]	0	0	0	0	0	0	25	51	60

##	[63,]	0	0	0	0	0	0	16	39	60
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##	[65,]	0	0	0	0	0	0	0	17	34
##	[66,]	0	0	0	0	0	0	0	0	14
##	[67,]	0	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0	0
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##	[80,]	0	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0	0
##		[,263]	[,264]	[,265]	[,266]	[,267]	[,268]	[,269]	[,270]	[,271]
##	[1,]	383	385	379	371	359	345	325	311	280
##	[2,]	382	385	381	373	360	345	325	311	280
##	[3,]	369	375	376	371	360	345	329	315	301
##	[4,]	343	358	367	368	362	350	339	329	316
##	[5,]	318	342	355	363	362	357	351	342	330
##	[6,]	302	325	346	358	363	363	362	355	344
##	[7,]	300	320	342	355	362	364	365	364	356
##	[8,]	313	329	347	358	363	365	365	365	364
##	[9,]	317	332	348	358	363	365	365	365	365
##	[10,]	314	330	347	358	363	365	365	365	365
##	[11,]	308	325	345	357	363	365	365	365	365
##	[12,]	296	304	330	365	365	365	365	365	365
##	[13,]	286	297	304	338	365	365	365	365	365
##	[14,]	276	293	304	322	336	348	350	347	332
##	[15,]	272	294	304	306	308	304	304	304	304
##	[16,]	294	303	306	310	316	311	304	304	304
##	[17,]	300	307	312	319	330	339	322	304	304
##	[18,]	304	310	319	327	343	365	354	324	304
##	[19,]	304	309	317	326	343	358	365	344	320
##	[20,]	294	300	308	319	338	362	364	359	328
##	[21,]	263	277	291	304	326	348	365	365	334
##	[22,]	243	259	274	290	312	334	349	365	332
##	[23,]	236	241	251	266	291	312	327	323	321
##	[24,]	227	234	239	243	275	293	304	310	309
##	[25,]	219	227	235	243	261	278	289	299	305
##	[26,]	210	220	229	236	248	263	274	283	292
##	[27,]	202	211	220	228	238	248	258	265	273
##	[28,]	196	204	212	221	232	240	243	248	251
##	[29,]	190	197	205	215	229	239	243	243	244
##	[30,]	182	190	199	213	231	239	243	243	243
##	[31,]	182	182	188	215	240	242	243	243	243
##	[32,]	174	180	182	212	243	242	243	242	243

##	[33,]	170	177	182	210	243	243	243	243	243
##	[34,]	165	174	182	202	233	243	243	243	243
##	[35,]	162	171	182	192	217	243	243	243	217
##	[36,]	159	167	174	180	197	220	228	216	203
##	[37,]	155	163	169	175	181	197	198	197	194
##	[38,]	149	157	164	171	179	182	185	187	186
##	[39,]	146	154	162	170	180	181	182	182	183
##	[40,]	144	152	161	170	181	182	182	182	182
##	[41,]	139	147	156	166	179	182	182	182	182
##	[42,]	133	141	153	169	182	182	182	165	131
##	[43,]	121	132	149	170	182	182	157	142	121
##	[44,]	118	121	148	175	180	182	150	121	130
##	[45,]	115	121	151	178	182	169	145	121	121
##	[46,]	114	121	162	182	182	148	121	129	121
##	[47,]	115	121	182	179	182	131	126	121	121
##	[48,]	121	149	182	182	182	121	122	121	121
##	[49,]	121	145	170	172	121	131	124	122	121
##	[50,]	121	133	144	129	123	120	120	122	121
##	[51,]	119	120	123	124	118	119	120	121	121
##	[52,]	103	121	121	116	113	118	120	121	121
##	[53,]	76	83	91	79	103	117	121	121	121
##	[54,]	60	60	62	63	73	118	121	121	121
##	[55,]	60	60	60	61	121	109	120	121	121
##	[56,]	60	60	60	75	99	115	121	121	121
##	[57,]	59	60	60	74	101	109	113	121	121
##	[58,]	58	60	60	73	96	103	109	112	117
##	[59,]	58	60	60	72	91	98	103	107	111
##	[60,]	60	60	60	70	85	91	97	101	106
##	[61,]	60	60	60	67	79	85	91	96	101
##	[62,]	60	60	60	66	73	80	85	91	97
##	[63,]	60	60	60	65	71	76	82	88	94
##	[64,]	60	60	60	63	70	75	80	86	92
##	[65,]	45	40	38	50	63	69	75	81	88
##	[66,]	14	14	15	29	47	60	67	74	80
##	[67,]	0	0	0	7	23	38	53	64	71
##	[68,]	0	0	0	0	0	15	33	48	60
##	[69,]	0	0	0	0	0	0	17	31	44
##	[70,]	0	0	0	0	0	0	7	14	21
##	[71,]	0	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0	0
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##	[79,]	0	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0
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##	[1,]	259	249	236	226	215	202	188	170	157
##	[2,]	259	254	247	235	222	208	195	183	163

##	[3,]	280	265	252	238	222	205	193	182	162
##	[4,]	302	281	262	241	218	200	189	182	167
##	[5,]	317	297	271	243	213	199	189	184	176
##	[6,]	330	312	279	254	231	207	193	188	183
##	[7,]	342	322	298	274	254	234	213	198	187
##	[8,]	354	328	305	285	268	255	233	210	190
##	[9,]	363	351	326	299	273	253	224	202	178
##	[10,]	365	353	330	309	287	265	238	208	180
##	[11,]	365	352	335	319	300	272	248	214	188
##	[12,]	365	357	337	318	309	304	263	243	196
##	[13,]	349	344	330	316	304	265	243	234	198
##	[14,]	331	327	320	308	295	259	245	233	210
##	[15,]	313	313	311	304	292	277	264	243	226
##	[16,]	304	304	306	306	305	297	282	272	247
##	[17,]	304	302	304	304	304	304	304	304	275
##	[18,]	304	295	297	304	304	304	304	304	299
##	[19,]	304	285	280	295	304	304	304	304	304
##	[20,]	304	269	259	279	292	304	304	304	304
##	[21,]	304	243	247	263	278	292	304	304	304
##	[22,]	304	243	243	252	266	282	293	300	304
##	[23,]	304	243	243	243	249	269	286	298	304
##	[24,]	304	284	243	243	243	264	285	304	305
##	[25,]	305	284	243	243	243	266	289	304	306
##	[26,]	304	258	243	243	243	272	304	298	304
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##	[28,]	253	246	242	242	243	253	259	269	283
##	[29,]	245	243	239	238	241	243	243	250	273
##	[30,]	243	241	232	234	238	241	242	243	266
##	[31,]	243	237	220	227	238	242	243	263	297
##	[32,]	243	223	182	213	243	243	273	304	302
##	[33,]	243	192	189	182	243	246	271	288	304
##	[34,]	226	184	184	182	243	249	267	284	301
##	[35,]	202	183	182	182	213	243	268	287	303
##	[36,]	182	185	183	182	213	243	270	298	303
##	[37,]	182	181	183	182	213	243	274	294	304
##	[38,]	182	179	181	182	213	243	274	304	303
##	[39,]	182	172	178	182	213	243	274	304	304
##	[40,]	162	147	172	182	213	243	273	304	304
##	[41,]	121	125	160	182	213	243	272	304	304
##	[42,]	126	122	152	182	212	243	269	304	304
##	[43,]	122	123	152	182	211	234	251	270	290
##	[44,]	122	121	155	182	206	219	230	243	258
##	[45,]	123	135	172	183	199	208	216	223	239
##	[46,]	121	145	165	182	190	195	200	203	207
##	[47,]	121	140	158	169	182	184	186	184	182
##	[48,]	121	134	145	157	171	182	182	182	182
##	[49,]	121	125	128	140	164	177	180	181	182
##	[50,]	121	121	121	121	160	179	180	181	182
##	[51,]	121	121	134	156	172	184	187	182	182
##	[52,]	121	131	154	182	178	198	212	223	182
##	[53,]	121	131	158	167	182	191	208	233	243
##	[54,]	121	130	153	164	171	179	189	212	235
##	[55,]	121	128	146	157	164	170	176	190	213
##	[56,]	121	125	137	150	157	163	168	176	190

##	[57,]	121	121	128	143	149	154	159	166	175
##	[58,]	119	120	121	136	142	146	149	155	162
##	[59,]	114	118	121	130	134	137	139	143	148
##	[60,]	110	116	121	124	126	128	129	132	133
##	[61,]	106	113	119	121	121	122	123	124	124
##	[62,]	105	113	118	121	121	121	121	121	121
##	[63,]	103	112	118	121	121	121	121	121	121
##	[64,]	102	113	121	120	121	121	121	121	121
##	[65,]	98	109	117	121	121	121	121	121	121
##	[66,]	90	100	106	113	121	121	121	121	121
##	[67,]	81	90	95	102	112	121	121	121	121
##	[68,]	70	76	80	85	100	121	121	121	121
##	[69,]	56	50	50	56	71	91	111	118	116
##	[70,]	22	20	20	33	47	60	81	93	104
##	[71,]	0	0	0	8	23	38	53	73	92
##	[72,]	0	0	0	0	0	15	30	53	78
##	[73,]	0	0	0	0	0	0	7	34	55
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##	[79,]	0	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0	0
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##	[1,]	145	130	118	109	101	95	89	86	83
##	[2,]	147	135	126	118	111	105	98	95	94
##	[3,]	145	134	126	120	115	108	101	98	97
##	[4,]	145	134	127	122	117	110	104	101	99
##	[5,]	159	142	130	123	118	112	107	103	102
##	[6,]	167	145	132	123	118	114	109	106	104
##	[7,]	169	146	132	124	120	116	112	109	107
##	[8,]	166	143	131	124	123	120	115	111	109
##	[9,]	150	138	130	130	131	126	119	114	112
##	[10,]	159	141	137	142	143	134	124	118	115
##	[11,]	168	157	152	159	159	143	130	120	117
##	[12,]	176	170	171	177	181	171	123	119	119
##	[13,]	182	182	182	180	182	121	128	121	121
##	[14,]	182	186	184	182	157	132	122	134	149
##	[15,]	224	200	192	182	170	154	152	162	182
##	[16,]	244	235	211	194	182	175	175	189	199
##	[17,]	250	243	227	208	182	182	182	208	224
##	[18,]	274	254	238	234	214	198	208	233	242
##	[19,]	304	284	271	253	243	235	238	239	250
##	[20,]	304	304	296	281	265	251	242	253	258
##	[21,]	304	305	305	304	289	278	276	271	268
##	[22,]	304	306	307	304	304	298	300	304	281
##	[23,]	309	313	317	318	317	320	322	311	305
##	[24,]	316	322	331	340	352	365	356	320	308
##	[25,]	315	321	333	347	365	363	358	311	306
##	[26,]	306	304	322	340	365	365	354	329	304

##	[27,]	302	304	304	314	342	359	362	355	353
##	[28,]	297	301	304	304	329	344	360	365	365
##	[29,]	295	303	304	315	323	336	353	362	365
##	[30,]	297	301	304	304	313	329	347	355	361
##	[31,]	303	303	303	304	304	322	343	352	358
##	[32,]	306	317	314	314	314	323	341	350	356
##	[33,]	311	330	343	345	345	349	349	354	358
##	[34,]	310	356	363	365	365	364	361	361	362
##	[35,]	333	365	365	364	365	365	365	364	364
##	[36,]	328	342	357	365	365	365	365	365	365
##	[37,]	320	330	338	342	345	350	365	365	365
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##	[39,]	304	304	305	304	305	304	334	344	348
##	[40,]	304	304	300	300	301	312	327	334	337
##	[41,]	304	292	292	288	293	308	319	325	326
##	[42,]	304	284	276	270	278	298	312	318	319
##	[43,]	278	267	250	245	252	280	298	308	308
##	[44,]	258	253	243	243	243	264	278	284	297
##	[45,]	246	238	241	242	243	250	256	256	275
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##	[77,]	11	24	36	39	49	60	73	85	93
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##	[79,]	140	173	194	206	219	231	243	243	216
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##	[81,]	121	129	144	163	182	194	199	221	243
##	[82,]	119	121	121	142	166	182	182	207	230
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##	[22,]	188	206	217	228	243	242	243	248	262
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##	[80,]	90	121	121	121	96	80	69	63	61
##	[81,]	88	121	121	121	102	83	66	62	61
##	[82,]	91	89	108	121	96	79	61	61	60
##	[83,]	65	60	72	77	80	73	60	61	60
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##	[1,]	110	115	146	173	180	182	212	243	263
##	[2,]	113	116	147	173	182	184	214	243	263

##	[3,]	114	117	147	173	187	191	217	245	264
##	[4,]	117	118	128	148	165	189	228	257	270
##	[5,]	121	120	122	134	147	178	234	273	286
##	[6,]	125	122	122	124	137	173	235	274	291
##	[7,]	131	125	124	126	142	174	236	275	291
##	[8,]	139	129	127	134	156	178	209	250	259
##	[9,]	141	130	126	127	135	158	189	217	225
##	[10,]	142	130	124	123	124	139	166	179	192
##	[11,]	139	129	124	122	121	129	143	155	161
##	[12,]	137	121	121	121	121	121	125	130	131
##	[13,]	150	136	121	121	121	121	121	121	121
##	[14,]	165	157	144	132	125	121	121	121	121
##	[15,]	182	182	167	156	145	133	121	121	121
##	[16,]	212	200	188	176	164	149	129	121	121
##	[17,]	243	227	209	195	182	174	161	131	121
##	[18,]	242	243	221	210	206	203	188	162	137
##	[19,]	252	243	238	232	234	233	218	182	159
##	[20,]	273	264	243	243	261	254	245	205	182
##	[21,]	298	309	306	288	292	274	250	222	207
##	[22,]	365	365	365	304	309	304	256	233	227
##	[23,]	412	397	384	372	345	304	278	254	249
##	[24,]	426	426	410	395	380	365	297	277	267
##	[25,]	426	426	426	418	403	385	353	297	282
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##	[28,]	426	426	426	426	426	420	389	360	339
##	[29,]	416	426	426	426	426	426	416	387	365
##	[30,]	399	413	426	426	426	426	426	416	396
##	[31,]	380	398	413	426	426	426	426	426	426
##	[32,]	365	381	396	410	422	426	426	426	426
##	[33,]	355	365	381	396	411	426	426	426	426
##	[34,]	344	359	369	381	396	415	426	426	426
##	[35,]	328	344	356	365	382	403	426	426	426
##	[36,]	320	332	347	360	369	388	408	421	426
##	[37,]	313	323	335	346	356	372	393	405	426
##	[38,]	304	314	328	338	347	361	380	387	408
##	[39,]	295	304	316	325	334	348	359	363	379
##	[40,]	281	291	304	313	321	335	345	353	360
##	[41,]	262	268	282	297	309	322	335	343	352
##	[42,]	243	243	259	277	291	309	324	335	346
##	[43,]	229	237	243	259	273	294	310	326	339
##	[44,]	214	226	236	243	256	284	304	316	330
##	[45,]	199	215	228	239	243	281	304	311	319
##	[46,]	182	208	226	243	261	290	299	303	306
##	[47,]	190	205	225	243	262	288	304	303	303
##	[48,]	197	213	226	243	259	276	291	304	304
##	[49,]	197	213	228	243	255	268	279	283	279
##	[50,]	197	212	227	243	246	253	259	261	257
##	[51,]	196	211	226	243	243	244	246	246	243
##	[52,]	192	206	220	235	243	243	243	241	240
##	[53,]	182	197	206	214	218	229	232	235	238
##	[54,]	182	186	189	191	192	208	222	229	235
##	[55,]	171	182	179	181	182	191	212	223	233
##	[56,]	162	168	174	179	182	190	202	214	224

##	[57,]	153	162	170	179	182	189	192	202	208
##	[58,]	143	154	165	177	182	183	182	187	189
##	[59,]	131	141	153	163	167	171	177	179	182
##	[60,]	121	131	145	153	157	163	171	177	182
##	[61,]	114	121	133	139	143	149	159	171	182
##	[62,]	104	114	121	124	124	121	138	158	170
##	[63,]	94	106	116	121	121	121	127	144	154
##	[64,]	83	94	103	108	118	121	128	133	137
##	[65,]	73	82	91	100	111	121	121	122	123
##	[66,]	60	70	79	89	105	121	121	121	121
##	[67,]	60	60	65	75	94	108	115	118	120
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##	[70,]	60	60	60	60	65	76	88	99	110
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##	[73,]	60	60	60	60	60	60	60	63	66
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##	[80,]	60	60	60	60	58	55	52	49	46
##	[81,]	60	60	60	60	58	53	50	46	43
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##	[2,]	275	279	264	249	218	202	191	186	186
##	[3,]	276	271	257	240	211	196	188	184	184
##	[4,]	272	258	247	220	205	193	185	181	178
##	[5,]	283	265	240	213	196	188	181	176	172
##	[6,]	290	266	240	212	194	182	174	168	162
##	[7,]	283	262	237	210	190	178	167	158	151
##	[8,]	255	243	226	205	186	171	159	148	140
##	[9,]	218	211	197	184	170	158	147	139	132
##	[10,]	190	181	175	164	154	145	137	133	132
##	[11,]	159	154	151	145	138	133	131	133	136
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##	[14,]	121	121	121	121	121	126	129	175	184
##	[15,]	121	121	121	121	121	121	182	173	192
##	[16,]	121	121	121	121	121	182	170	188	197
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##	[30,]	379	370	335	305	284	267	256	248	233
##	[31,]	410	392	377	335	310	291	286	270	253
##	[32,]	426	410	397	377	347	305	306	295	271
##	[33,]	426	426	414	393	373	365	316	304	292
##	[34,]	426	426	426	409	382	365	342	306	296
##	[35,]	426	426	426	421	395	378	365	304	288
##	[36,]	426	426	426	426	409	388	365	325	299
##	[37,]	426	426	426	426	426	408	388	365	338
##	[38,]	426	426	426	426	426	426	406	386	365
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##	[40,]	365	386	411	426	426	426	426	426	426
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##	[42,]	356	365	382	404	426	426	426	426	426
##	[43,]	351	365	375	389	405	419	426	426	426
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##	[45,]	326	333	335	347	360	373	377	397	416
##	[46,]	309	311	311	313	336	346	358	365	386
##	[47,]	305	305	294	301	312	326	345	357	365
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##	[49,]	275	261	261	275	286	296	304	323	345
##	[50,]	249	245	246	260	273	285	296	304	328
##	[51,]	244	243	243	243	262	275	288	296	304
##	[52,]	242	243	243	247	256	268	279	289	297
##	[53,]	240	242	243	251	259	265	274	282	291
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##	[57,]	219	232	243	243	243	249	256	263	269
##	[58,]	207	222	234	241	243	243	252	259	265
##	[59,]	188	209	225	239	243	245	249	254	260
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##	[67,]	121	121	131	139	142	149	149	151	164
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##	[69,]	121	121	121	121	121	121	122	121	121
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##	[71,]	108	121	102	101	106	113	121	121	135
##	[72,]	90	87	82	73	91	103	116	121	135
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##	[74,]	62	62	61	60	60	67	86	101	120
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##	[76,]	57	55	57	57	59	63	65	67	91
##	[77,]	53	52	53	52	54	56	60	60	73
##	[78,]	50	48	48	46	47	49	53	56	67
##	[79,]	46	43	42	40	40	41	45	48	57
##	[80,]	44	40	39	36	35	35	38	41	49

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##	[2,]	186	187	190	187	184	195	214	230	233
##	[3,]	182	182	185	181	178	185	202	215	219
##	[4,]	175	175	176	170	169	172	182	192	191
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##	[6,]	155	151	149	146	145	149	154	158	163
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##	[8,]	134	131	129	126	126	128	130	133	135
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##	[18,]	211	227	243	257	276	293	304	304	295
##	[19,]	198	215	233	243	261	291	304	304	304
##	[20,]	182	202	223	235	243	304	302	304	304
##	[21,]	164	190	213	228	243	284	304	304	304
##	[22,]	151	186	202	216	229	243	263	282	289
##	[23,]	129	160	188	200	212	224	236	252	268
##	[24,]	121	131	161	182	194	206	215	225	243
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##	[26,]	121	121	121	121	142	155	167	179	182
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##	[33,]	263	213	182	167	153	137	121	121	121
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##	[38,]	320	304	291	279	271	259	243	243	228
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##	[42,]	426	426	426	426	404	385	365	342	304
##	[43,]	426	428	432	434	430	416	395	374	350
##	[44,]	426	430	439	448	445	436	426	402	381
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##	[46,]	417	438	460	487	487	474	456	444	439
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##	[48,]	386	426	443	455	471	478	474	469	471
##	[49,]	376	406	426	438	450	457	466	477	482
##	[50,]	363	391	406	420	432	442	456	475	484

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##	[52,]	318	365	378	390	402	413	431	471	478
##	[53,]	301	331	365	376	389	401	420	438	451
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##	[56,]	284	293	299	304	329	355	376	392	405
##	[57,]	278	287	294	300	304	332	358	377	395
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##	[63,]	237	243	258	270	281	293	296	300	311
##	[64,]	231	243	251	256	260	270	273	279	285
##	[65,]	215	223	231	235	240	250	251	252	263
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##	[76,]	115	126	128	130	128	127	112	110	129
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##	[78,]	84	87	89	86	84	72	62	69	91
##	[79,]	70	69	71	71	67	62	60	60	78
##	[80,]	60	60	64	64	60	60	61	60	75
##	[81,]	42	49	54	53	55	57	60	60	64
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##	[2,]	232	233	237	257	272	281	289	300	303
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##	[11,]	126	123	123	126	133	151	166	178	183
##	[12,]	129	121	121	121	121	130	174	180	181
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##	[14,]	176	168	175	186	196	217	228	202	182
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##	[22,]	304	304	304	304	304	315	330	341	355
##	[23,]	283	294	300	304	304	317	332	345	360
##	[24,]	259	269	277	291	304	309	325	338	352
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##	[36,]	182	148	121	121	121	121	138	145	149
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##	[44,]	365	365	304	298	300	314	312	304	283
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##	[49,]	487	487	487	449	419	384	365	304	296
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##	[53,]	456	452	448	441	431	411	391	365	304
##	[54,]	440	438	436	434	431	428	417	397	376
##	[55,]	426	429	429	430	431	431	430	426	406
##	[56,]	417	426	426	429	433	436	437	437	435
##	[57,]	410	422	426	431	436	442	447	452	459
##	[58,]	406	426	428	433	439	447	455	464	475
##	[59,]	393	403	417	429	431	443	455	470	487
##	[60,]	377	382	388	391	405	426	444	464	487
##	[61,]	357	357	357	359	369	397	418	439	487
##	[62,]	333	334	334	338	353	365	398	426	426
##	[63,]	311	312	312	315	338	359	373	393	405
##	[64,]	292	298	302	304	318	342	352	365	365
##	[65,]	276	290	301	309	320	326	333	336	334
##	[66,]	261	285	304	304	307	309	311	311	304
##	[67,]	253	277	304	304	304	304	304	304	286
##	[68,]	260	275	285	296	274	274	259	253	243
##	[69,]	256	267	277	272	258	243	248	244	243
##	[70,]	247	252	256	251	242	241	242	243	243
##	[71,]	243	243	243	239	234	237	238	240	242
##	[72,]	236	235	230	224	227	231	234	238	241
##	[73,]	216	214	213	212	219	225	229	234	239
##	[74,]	198	198	198	200	211	217	223	230	239

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##	[76,]	123	121	137	175	187	190	192	194	195
##	[77,]	117	121	136	154	182	164	166	169	174
##	[78,]	110	121	130	142	146	145	150	156	165
##	[79,]	102	121	121	124	125	120	128	138	148
##	[80,]	89	101	121	96	94	105	114	121	131
##	[81,]	70	72	69	67	68	83	96	109	118
##	[82,]	60	58	59	60	60	67	81	97	111
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##	[2,]	320	341	356	369	377	376	370	367	365
##	[3,]	311	332	351	368	379	385	380	373	368
##	[4,]	296	315	343	371	387	399	395	381	370
##	[5,]	286	305	338	375	402	416	411	390	370
##	[6,]	269	286	323	363	393	411	398	385	363
##	[7,]	255	271	294	329	357	370	364	350	337
##	[8,]	237	251	268	293	315	325	314	306	296
##	[9,]	216	229	241	256	269	274	273	267	256
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##	[20,]	328	324	322	309	310	304	289	281	262
##	[21,]	346	344	343	340	336	324	314	308	294
##	[22,]	365	365	365	365	365	349	339	327	315
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##	[24,]	365	365	373	386	398	400	390	365	353
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##	[28,]	304	328	362	383	397	411	426	436	459
##	[29,]	298	304	338	365	379	396	412	426	487
##	[30,]	285	298	318	341	357	374	393	415	436
##	[31,]	270	282	298	319	334	350	365	385	405
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##	[35,]	182	182	191	202	211	223	231	240	243
##	[36,]	160	162	178	182	196	210	222	233	243
##	[37,]	130	131	150	169	182	194	207	220	232
##	[38,]	121	121	121	143	162	182	192	205	218
##	[39,]	130	121	121	121	132	152	172	188	200
##	[40,]	161	140	121	121	121	121	142	164	182
##	[41,]	191	172	142	121	121	121	121	140	160
##	[42,]	222	199	172	142	121	121	121	121	141
##	[43,]	243	224	198	172	152	130	121	121	126
##	[44,]	263	243	219	195	182	155	121	121	121

##	[45,]	294	263	236	209	192	182	151	130	121
##	[46,]	304	278	250	219	192	182	163	153	126
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##	[51,]	276	263	243	243	243	260	263	252	243
##	[52,]	294	294	286	335	292	292	294	279	262
##	[53,]	304	335	365	355	365	335	324	304	279
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##	[56,]	437	441	435	446	426	411	384	365	298
##	[57,]	470	480	477	487	470	426	400	365	331
##	[58,]	487	484	487	487	463	454	426	392	356
##	[59,]	485	486	487	487	472	451	426	409	390
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##	[72,]	243	267	289	304	310	316	319	318	326
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##	[7,]	316	297	288	282	290	299	317	341	353
##	[8,]	283	272	268	266	269	275	286	304	315
##	[9,]	256	251	252	252	254	256	268	279	288
##	[10,]	231	236	241	243	244	245	254	259	264
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##	[15,]	253	243	243	249	276	300	316	331	347
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##	[19,]	357	342	327	312	303	302	304	310	338
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##	[21,]	365	367	367	357	344	318	309	304	316
##	[22,]	365	372	377	381	369	349	334	333	334
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##	[29,]	487	480	483	487	487	487	458	426	427
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##	[36,]	304	325	365	387	408	426	428	426	405
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##	[44,]	214	236	243	232	232	243	243	265	275
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##	[50,]	258	313	355	365	365	365	365	368	370
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##	[52,]	267	283	291	297	302	321	350	372	385
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##	[57,]	223	245	252	257	263	266	268	275	286
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##	[59,]	186	205	220	234	246	247	247	251	264
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##	[66,]	321	311	291	284	257	233	208	182	182
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##	[6,]	334	329	327	327	323	316	308	298	285
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##	[8,]	356	353	351	348	339	328	317	309	305
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##	[30,]	413	403	403	418	426	422	400	379	369
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##	[37,]	378	369	363	362	363	365	416	426	424
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##	[2,]	234	227	222	223	227	234	239	252	251

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##	[8,]	302	302	302	303	305	307	309	319	331
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##	[17,]	66	60	75	85	92	100	111	121	121
##	[18,]	77	82	91	101	108	119	126	132	142
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##	[20,]	88	94	103	106	115	124	140	154	166
##	[21,]	69	68	60	60	83	119	137	147	157
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##	[25,]	60	60	60	60	60	63	62	72	79
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##	[44,]	101	88	73	60	60	60	60	60	60

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##	[23,]	140	145	140	131	128	125	122	115	98
##	[24,]	121	126	124	121	124	123	122	121	113
##	[25,]	79	91	107	118	121	122	122	122	121
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##	[6,]	50	52	54	56	59	63	68	75	87
##	[7,]	53	54	56	59	64	69	76	83	93
##	[8,]	55	56	58	62	69	78	86	93	103
##	[9,]	57	58	61	64	74	88	97	104	115
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##	[65,]	50	49	48	48	45	44	45	42	34
##	[66,]	47	46	45	43	41	39	39	35	29
##	[67,]	44	42	41	39	36	33	32	29	23
##	[68,]	41	39	37	35	31	28	25	22	18
##	[69,]	38	35	33	30	27	24	21	18	14
##	[70,]	35	32	29	27	24	21	18	15	11
##	[71,]	33	29	26	23	21	18	16	14	9
##	[72,]	31	27	23	21	18	16	14	11	6
##	[73,]	30	26	22	20	17	15	12	10	6
##	[74,]	30	26	22	20	17	15	13	10	7
##	[75,]	30	26	23	20	18	16	14	11	8
##	[76,]	30	27	23	21	19	17	15	13	10
##	[77,]	31	28	24	22	21	18	17	15	12
##	[78,]	32	29	26	24	22	20	18	16	13
##	[79,]	33	30	28	25	24	22	20	17	14
##	[80,]	34	31	28	26	24	23	21	18	16
##	[81,]	34	32	29	27	25	24	22	19	17
##	[82,]	35	32	29	28	26	24	22	20	17
##	[83,]	35	33	30	28	26	25	23	21	18
##		[,587]	[,588]	[,589]	[,590]	[,591]	[,592]	[,593]	[,594]	[,595]
##	[1,]	165	167	170	174	180	187	195	204	213
##	[2,]	180	181	182	184	189	195	205	215	226
##	[3,]	195	194	194	194	198	205	216	228	241
##	[4,]	208	205	204	204	208	214	228	245	261
##	[5,]	216	213	212	213	217	223	238	254	269
##	[6,]	216	210	212	219	222	226	235	246	258
##	[7,]	207	200	205	214	214	217	221	229	239
##	[8,]	194	184	186	193	199	204	206	212	222
##	[9,]	175	165	168	174	178	189	189	193	199
##	[10,]	140	145	148	155	159	171	174	180	189
##	[11,]	128	125	127	137	143	154	162	171	183
##	[12,]	112	105	105	119	127	138	152	165	175
##	[13,]	92	85	86	110	118	121	145	162	176
##	[14,]	76	66	74	108	119	130	148	168	182
##	[15,]	60	64	81	121	131	146	164	182	195
##	[16,]	62	60	106	131	144	158	176	181	199
##	[17,]	61	60	106	136	150	164	182	182	191
##	[18,]	60	80	107	135	149	163	182	182	182
##	[19,]	60	75	109	130	142	151	160	167	165
##	[20,]	60	60	92	121	131	134	138	137	142
##	[21,]	60	60	69	77	103	106	106	106	121
##	[22,]	60	60	60	60	60	60	60	60	96
##	[23,]	59	60	60	60	60	60	60	60	77
##	[24,]	59	60	60	60	60	60	60	60	82
##	[25,]	59	59	60	60	60	60	60	60	75
##	[26,]	59	59	60	60	60	60	60	60	62
##	[27,]	59	59	60	60	60	60	60	60	60
##	[28,]	59	59	60	60	60	60	60	60	60
##	[29,]	59	59	60	60	60	60	60	60	60
##	[30,]	58	59	60	60	60	60	60	60	59
##	[31,]	57	58	59	60	60	60	60	60	59
##	[32,]	56	56	57	58	60	60	60	60	58

##	[33,]	54	54	56	56	58	60	60	60	53
##	[34,]	50	51	52	53	54	58	60	60	51
##	[35,]	44	44	45	46	47	50	55	55	47
##	[36,]	35	36	37	38	39	42	46	43	37
##	[37,]	26	27	28	29	30	32	35	32	27
##	[38,]	16	18	19	20	21	23	25	22	21
##	[39,]	6	9	10	11	12	13	14	13	13
##	[40,]	0	3	4	5	6	7	7	7	6
##	[41,]	0	0	0	1	1	1	1	1	1
##	[42,]	0	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0	0
##	[44,]	1	0	0	0	2	2	2	1	2
##	[45,]	5	2	2	5	5	5	5	4	4
##	[46,]	10	7	8	9	9	9	8	7	7
##	[47,]	14	12	12	13	13	12	11	10	9
##	[48,]	19	17	17	17	17	16	14	12	11
##	[49,]	24	21	21	21	19	18	17	14	12
##	[50,]	29	26	26	25	23	21	19	17	14
##	[51,]	32	29	29	28	26	24	22	19	16
##	[52,]	36	34	33	32	30	28	24	21	19
##	[53,]	41	39	38	35	33	31	27	24	21
##	[54,]	46	43	42	39	37	34	30	26	24
##	[55,]	51	48	46	43	40	37	33	29	26
##	[56,]	55	53	50	47	44	40	36	31	28
##	[57,]	60	57	56	51	47	43	38	33	30
##	[58,]	62	60	58	53	49	45	39	34	31
##	[59,]	62	56	54	50	48	44	39	34	31
##	[60,]	56	53	50	48	45	42	38	33	31
##	[61,]	51	47	45	43	40	38	35	31	29
##	[62,]	46	42	40	38	36	34	31	28	26
##	[63,]	40	36	34	33	31	29	26	24	22
##	[64,]	34	30	29	27	25	23	21	18	17
##	[65,]	29	25	23	21	18	17	15	13	12
##	[66,]	23	19	17	14	11	10	9	8	7
##	[67,]	17	14	10	7	3	4	4	4	4
##	[68,]	12	9	5	0	1	0	1	1	1
##	[69,]	9	6	3	0	0	0	0	0	0
##	[70,]	6	3	1	0	0	0	0	0	0
##	[71,]	4	2	1	0	0	0	0	0	0
##	[72,]	1	0	0	0	0	0	0	0	0
##	[73,]	3	2	1	0	0	0	0	0	0
##	[74,]	4	3	2	2	1	0	0	0	0
##	[75,]	6	5	4	3	2	1	0	0	0
##	[76,]	7	6	5	4	3	2	1	0	0
##	[77,]	9	8	7	5	4	2	1	0	0
##	[78,]	11	9	8	6	5	3	1	0	0
##	[79,]	13	11	10	8	6	4	2	1	0
##	[80,]	14	12	11	9	7	5	3	1	0
##	[81,]	15	13	12	10	8	6	3	2	1
##	[82,]	16	14	12	10	9	7	4	3	1
##	[83,]	16	15	13	11	10	8	5	3	2
##		[,596]	[,597]	[,598]	[,599]	[,600]	[,601]	[,602]	[,603]	[,604]
##	[1,]	218	214	208	200	189	175	162	147	135
##	[2,]	234	232	227	219	206	190	174	156	145

##	[3,]	251	250	246	236	220	200	178	156	147
##	[4,]	265	264	261	254	241	224	205	188	180
##	[5,]	273	274	271	266	258	246	233	218	207
##	[6,]	269	271	274	273	268	260	254	242	230
##	[7,]	250	260	266	271	273	272	267	257	246
##	[8,]	233	245	256	266	276	283	278	268	257
##	[9,]	217	231	246	261	282	294	296	270	257
##	[10,]	211	227	242	258	276	288	286	279	262
##	[11,]	202	218	231	244	259	271	266	256	230
##	[12,]	191	215	228	237	243	251	252	243	208
##	[13,]	190	212	226	237	240	243	243	219	182
##	[14,]	200	219	232	242	242	242	243	236	212
##	[15,]	215	232	243	240	243	243	243	243	243
##	[16,]	217	235	242	243	243	243	243	243	243
##	[17,]	206	215	218	234	243	243	243	243	243
##	[18,]	194	202	201	216	233	243	243	243	243
##	[19,]	177	184	182	192	216	243	243	243	233
##	[20,]	159	165	174	179	182	217	243	243	224
##	[21,]	140	151	161	170	178	190	222	243	217
##	[22,]	121	137	149	157	164	172	192	198	202
##	[23,]	121	129	138	144	149	154	166	171	167
##	[24,]	101	121	128	131	133	135	140	136	134
##	[25,]	87	95	98	91	101	91	111	106	108
##	[26,]	66	68	60	64	60	63	60	60	75
##	[27,]	60	61	58	57	57	58	59	60	60
##	[28,]	59	57	54	53	52	52	55	58	60
##	[29,]	58	56	52	50	47	47	49	51	52
##	[30,]	56	53	48	46	42	41	41	42	43
##	[31,]	53	49	44	41	37	35	33	33	33
##	[32,]	51	46	40	36	32	28	25	24	23
##	[33,]	47	42	36	32	27	22	16	14	13
##	[34,]	44	38	32	27	22	15	8	3	3
##	[35,]	40	34	28	22	17	9	0	1	0
##	[36,]	32	28	23	18	13	6	0	0	0
##	[37,]	24	20	16	12	8	1	0	0	0
##	[38,]	18	15	11	8	4	0	0	0	0
##	[39,]	11	8	5	1	0	0	0	0	0
##	[40,]	5	3	0	1	0	0	0	0	0
##	[41,]	1	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0	0
##	[43,]	0	0	1	1	1	0	0	0	0
##	[44,]	2	2	2	2	1	0	0	0	0
##	[45,]	4	4	3	3	2	1	0	0	0
##	[46,]	6	5	4	3	3	1	1	0	0
##	[47,]	8	7	5	5	3	2	1	0	0
##	[48,]	9	8	7	6	4	3	1	0	0
##	[49,]	10	9	8	7	5	3	2	1	0
##	[50,]	12	11	9	8	5	3	2	1	0
##	[51,]	14	13	11	9	6	4	2	1	0
##	[52,]	16	14	12	10	7	4	3	1	0
##	[53,]	19	17	14	12	9	5	3	1	0
##	[54,]	21	19	16	14	10	7	5	2	1
##	[55,]	23	21	18	15	11	8	6	3	1
##	[56,]	25	22	19	17	13	9	7	4	2

##	[57,]	27	24	21	18	14	10	8	5	3
##	[58,]	28	25	22	19	15	11	9	7	4
##	[59,]	28	25	23	20	16	12	10	7	5
##	[60,]	28	25	22	20	16	12	10	8	6
##	[61,]	26	24	21	18	15	12	10	8	6
##	[62,]	24	21	20	17	14	12	10	8	7
##	[63,]	20	18	17	14	12	10	9	7	6
##	[64,]	16	14	13	11	9	8	7	6	4
##	[65,]	11	10	9	8	6	5	5	4	3
##	[66,]	7	6	6	5	4	3	3	2	1
##	[67,]	3	3	3	2	2	1	1	1	0
##	[68,]	1	1	1	1	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0
##	[83,]	1	0	0	0	0	0	0	0	0
##		[,605]	[,606]	[,607]	[,608]	[,609]	[,610]	[,611]	[,612]	[,613]
##	[1,]	127	126	129	128	121	112	101	90	80
##	[2,]	138	145	150	145	136	124	111	97	86
##	[3,]	153	165	169	161	149	132	113	98	85
##	[4,]	174	183	185	178	167	153	139	125	112
##	[5,]	201	201	200	192	184	172	159	146	134
##	[6,]	222	217	211	202	193	182	171	161	152
##	[7,]	238	228	219	208	196	184	173	164	158
##	[8,]	246	236	220	204	188	173	161	153	153
##	[9,]	243	228	211	192	171	153	138	129	137
##	[10,]	238	214	194	172	151	132	120	108	114
##	[11,]	207	188	170	150	130	111	96	86	88
##	[12,]	182	166	145	129	113	90	68	62	61
##	[13,]	178	154	121	125	105	82	60	60	61
##	[14,]	182	165	152	135	112	90	77	65	60
##	[15,]	207	182	178	182	152	101	86	73	63
##	[16,]	222	199	182	177	138	109	92	77	60
##	[17,]	237	211	198	182	143	118	103	89	78
##	[18,]	227	220	202	186	162	121	114	102	91
##	[19,]	220	206	194	186	183	169	137	116	106
##	[20,]	209	193	182	184	182	183	182	140	121
##	[21,]	197	182	172	167	170	171	153	140	126
##	[22,]	182	157	145	142	149	147	138	130	126
##	[23,]	152	131	119	122	128	128	129	126	123
##	[24,]	121	111	103	98	81	60	121	121	121
##	[25,]	99	92	85	71	63	63	60	85	85
##	[26,]	78	76	71	61	58	58	58	60	64

##	[27,]	67	68	66	60	56	53	55	57	60
##	[28,]	60	61	62	58	50	47	48	51	50
##	[29,]	57	60	60	48	42	41	42	44	42
##	[30,]	46	48	47	40	35	34	35	37	35
##	[31,]	36	38	37	32	28	28	28	30	28
##	[32,]	25	28	27	25	22	22	22	23	21
##	[33,]	14	18	18	18	16	15	15	15	14
##	[34,]	3	9	9	11	10	10	9	9	8
##	[35,]	0	0	2	4	5	5	5	4	4
##	[36,]	0	0	0	0	1	1	1	1	1
##	[37,]	0	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0	0
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##	[42,]	0	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0	0
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##	[56,]	0	0	0	0	0	0	0	0	0
##	[57,]	1	0	0	0	0	0	0	0	0
##	[58,]	2	0	0	0	0	0	0	0	0
##	[59,]	3	0	0	0	0	0	0	0	0
##	[60,]	4	1	0	0	0	0	0	0	0
##	[61,]	5	2	0	0	0	0	0	0	0
##	[62,]	5	3	1	0	0	0	0	0	0
##	[63,]	5	3	1	0	0	0	0	0	0
##	[64,]	3	2	1	0	0	0	0	0	0
##	[65,]	2	1	0	0	0	0	0	0	0
##	[66,]	1	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0	0

##	[81,]	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0	0
##		[,614]	[,615]	[,616]	[,617]	[,618]	[,619]	[,620]	[,621]	[,622]
##	[1,]	72	64	60	60	62	65	71	79	88
##	[2,]	77	72	70	69	71	73	79	88	98
##	[3,]	84	83	82	81	82	83	88	100	112
##	[4,]	102	101	101	99	98	97	100	106	114
##	[5,]	125	123	124	122	118	113	114	113	114
##	[6,]	146	144	145	145	138	130	128	120	112
##	[7,]	163	165	167	163	155	148	140	122	105
##	[8,]	161	166	170	173	167	157	138	114	94
##	[9,]	148	162	171	177	168	157	140	110	84
##	[10,]	130	146	160	168	154	142	131	111	87
##	[11,]	108	124	137	143	133	124	119	105	87
##	[12,]	60	92	124	126	121	109	105	102	82
##	[13,]	60	60	91	121	97	89	74	60	60
##	[14,]	60	60	60	70	72	67	62	62	61
##	[15,]	60	60	60	60	60	60	60	61	60
##	[16,]	61	60	60	60	60	60	60	60	60
##	[17,]	66	60	60	60	60	60	60	60	60
##	[18,]	80	65	60	60	60	60	60	60	60
##	[19,]	93	80	67	63	60	60	60	60	60
##	[20,]	106	95	83	74	65	60	60	60	60
##	[21,]	118	111	95	82	71	63	60	60	59
##	[22,]	124	121	108	87	71	60	61	60	56
##	[23,]	122	122	107	86	65	61	60	60	56
##	[24,]	106	91	81	68	69	60	60	60	56
##	[25,]	80	64	59	60	62	63	60	60	57
##	[26,]	60	55	55	56	59	60	61	60	59
##	[27,]	55	50	51	53	54	57	60	60	60
##	[28,]	46	42	45	48	50	52	57	60	60
##	[29,]	39	35	38	40	42	43	47	49	55
##	[30,]	32	29	31	32	32	33	35	35	38
##	[31,]	25	22	22	22	22	21	21	20	20
##	[32,]	18	16	15	13	12	11	9	6	3
##	[33,]	13	11	9	8	6	4	2	0	0
##	[34,]	8	6	5	4	3	1	0	0	0
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##	[36,]	1	1	1	1	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0	0

##	[51,]	0	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0	0
##		[,623]	[,624]	[,625]	[,626]	[,627]	[,628]	[,629]	[,630]	[,631]
##	[1,]	97	106	108	107	102	95	87	79	72
##	[2,]	107	114	114	111	107	99	90	81	73
##	[3,]	121	121	120	114	106	98	87	78	70
##	[4,]	118	117	109	103	95	86	79	72	66
##	[5,]	113	109	101	93	85	78	72	68	63
##	[6,]	105	97	90	82	76	71	68	65	62
##	[7,]	94	86	80	74	69	66	64	63	60
##	[8,]	81	74	70	67	64	63	62	62	58
##	[9,]	71	64	62	62	61	61	62	61	57
##	[10,]	72	64	61	60	60	60	61	60	55
##	[11,]	73	64	61	60	60	60	61	60	53
##	[12,]	60	62	61	60	60	60	61	62	50
##	[13,]	65	61	60	60	60	60	62	62	48
##	[14,]	60	62	60	60	60	60	61	61	46
##	[15,]	60	60	60	60	60	60	60	61	43
##	[16,]	60	60	59	58	58	60	60	46	40
##	[17,]	60	59	58	56	56	56	54	43	37
##	[18,]	60	58	56	54	53	53	50	40	35
##	[19,]	59	57	55	52	50	49	45	37	32
##	[20,]	58	55	52	49	47	44	40	35	30

##	[21,]	56	53	50	46	44	40	35	32	28
##	[22,]	54	50	47	44	41	36	30	27	23
##	[23,]	52	49	45	42	38	32	26	22	18
##	[24,]	52	48	45	41	37	31	24	19	14
##	[25,]	53	49	46	42	38	31	23	18	13
##	[26,]	55	53	50	46	42	33	23	16	10
##	[27,]	60	60	60	53	49	37	23	15	7
##	[28,]	60	60	60	60	60	46	25	14	5
##	[29,]	60	60	60	60	51	39	23	11	0
##	[30,]	39	38	41	37	33	24	17	9	0
##	[31,]	19	15	22	21	18	14	9	5	2
##	[32,]	3	1	5	5	5	6	2	1	0
##	[33,]	0	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0	0

##	[75,]	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0
##		[,632]	[,633]	[,634]	[,635]	[,636]	[,637]	[,638]	[,639]
##	[1,]	66	61	57	53	50	47	43	40
##	[2,]	66	60	55	50	45	42	39	36
##	[3,]	63	56	50	45	41	37	35	33
##	[4,]	60	54	48	43	39	35	33	31
##	[5,]	58	52	46	41	37	34	32	31
##	[6,]	56	50	45	40	36	33	31	31
##	[7,]	54	49	43	38	35	32	31	31
##	[8,]	52	47	42	37	34	32	31	30
##	[9,]	50	45	40	36	33	31	30	30
##	[10,]	48	43	39	35	33	31	30	30
##	[11,]	46	42	38	34	32	30	30	30
##	[12,]	44	40	37	32	31	30	30	30
##	[13,]	42	39	35	31	31	29	29	30
##	[14,]	41	38	35	30	30	29	29	30
##	[15,]	39	36	33	30	30	29	29	30
##	[16,]	37	35	32	29	29	29	29	30
##	[17,]	35	33	31	28	28	29	29	29
##	[18,]	34	32	30	27	27	28	28	27
##	[19,]	32	31	29	26	24	24	23	22
##	[20,]	28	27	25	22	19	17	15	11
##	[21,]	23	20	17	13	8	6	2	0
##	[22,]	19	15	9	3	0	0	0	0
##	[23,]	14	9	3	0	0	0	0	0
##	[24,]	9	5	0	0	0	0	0	0
##	[25,]	7	3	0	0	0	0	0	0
##	[26,]	4	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0

##	[45,]	0	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0	0
##		[,641]	[,642]	[,643]	[,644]	[,645]	[,646]	[,647]	[,648]	[,649]
##	[1,]	32	28	24	20	16	13	9	6	4
##	[2,]	29	25	22	19	15	12	9	6	4
##	[3,]	26	23	20	17	14	11	9	6	4
##	[4,]	26	23	20	17	15	12	10	8	5
##	[5,]	26	23	21	18	17	14	12	11	7
##	[6,]	27	24	22	19	18	16	14	13	9
##	[7,]	27	24	23	21	20	18	17	15	12
##	[8,]	27	25	24	22	22	20	19	17	14
##	[9,]	28	26	25	24	24	22	21	19	16
##	[10,]	28	26	26	25	25	24	24	22	19
##	[11,]	28	27	28	27	28	27	27	24	21
##	[12,]	29	28	28	28	29	28	29	26	24
##	[13,]	29	29	30	30	31	31	31	29	28
##	[14,]	30	30	31	32	33	33	34	34	33

##	[15,]	30	31	32	34	35	36	37	38	40
##	[16,]	31	32	33	34	35	36	38	40	42
##	[17,]	30	32	32	33	34	36	38	41	44
##	[18,]	28	28	29	30	32	34	36	39	44
##	[19,]	21	22	22	24	27	30	33	37	43
##	[20,]	10	10	11	15	20	24	28	34	41
##	[21,]	0	0	0	4	10	16	21	29	38
##	[22,]	0	0	0	0	0	7	10	21	33
##	[23,]	0	0	0	0	0	0	0	13	25
##	[24,]	0	0	0	0	0	0	0	2	13
##	[25,]	0	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0	0

##	[69,]	0	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0	0
##		[,650]	[,651]	[,652]	[,653]	[,654]	[,655]	[,656]	[,657]	[,658]
##	[1,]	2	1	1	0	0	0	0	0	0
##	[2,]	2	1	0	0	0	0	0	0	0
##	[3,]	2	1	0	0	0	0	0	0	0
##	[4,]	3	1	0	0	0	0	0	0	0
##	[5,]	5	3	1	0	0	0	0	0	0
##	[6,]	7	5	3	1	0	0	0	0	0
##	[7,]	9	7	5	3	1	0	0	0	0
##	[8,]	12	9	8	6	4	1	0	0	0
##	[9,]	14	12	10	8	6	3	1	0	0
##	[10,]	17	15	13	11	10	7	4	2	1
##	[11,]	20	18	17	15	14	11	9	6	3
##	[12,]	22	21	19	18	17	15	12	10	8
##	[13,]	27	26	25	24	24	23	22	22	24
##	[14,]	33	33	33	33	34	35	36	38	45
##	[15,]	40	41	42	43	45	47	50	53	60
##	[16,]	44	46	48	49	51	54	57	60	59
##	[17,]	46	48	51	53	57	58	60	60	60
##	[18,]	46	50	53	56	59	60	60	60	55
##	[19,]	47	51	55	59	60	60	56	50	46
##	[20,]	46	51	56	59	60	60	50	42	35
##	[21,]	44	51	59	60	60	60	45	35	27
##	[22,]	40	48	60	60	55	40	33	23	14
##	[23,]	33	40	48	60	39	25	18	8	0
##	[24,]	19	24	30	27	19	7	4	0	0
##	[25,]	3	7	9	10	3	2	0	0	0
##	[26,]	0	0	1	1	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0	0

##	[39,]	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0
##		[,659]	[,660]	[,661]	[,662]	[,663]	[,664]	[,665]	[,666]
##	[1,]	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0
##	[3,]	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0

##	[9,]	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0
##	[13,]	18	6	0	0	0	0	0	0
##	[14,]	42	28	6	0	0	0	0	0
##	[15,]	60	53	25	0	0	0	0	0
##	[16,]	60	60	45	11	0	0	0	0
##	[17,]	60	60	43	16	0	0	0	0
##	[18,]	53	47	32	14	7	0	0	0
##	[19,]	40	34	23	10	2	1	0	0
##	[20,]	27	21	11	0	1	0	1	0
##	[21,]	19	13	3	1	0	0	0	0
##	[22,]	5	3	0	0	0	0	0	0
##	[23,]	2	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0

##	[63,]	0	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0	0
##		[,668]	[,669]	[,670]	[,671]	[,672]	[,673]	[,674]	[,675]	[,676]
##	[1,]	0	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0	0
##	[3,]	0	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0	0
##	[9,]	0	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0	0
##	[15,]	0	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0	0

##	[33,]	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0
##		[,677]	[,678]	[,679]	[,680]	[,681]	[,682]	[,683]	[,684]
##	[1,]	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0

##	[3,]	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0
##	[9,]	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0
##	[15,]	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0

##	[57,]	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0
##		[,686]	[,687]	[,688]	[,689]	[,690]	[,691]	[,692]	[,693]
##	[1,]	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0
##	[3,]	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0
##	[9,]	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0
##	[15,]	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0

##	[27,]	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	2	3	3	0
##	[45,]	0	0	0	2	6	10	15	14
##	[46,]	0	0	0	4	11	18	31	32
##	[47,]	0	0	0	6	17	28	51	49
##	[48,]	0	0	0	0	11	23	46	60
##	[49,]	0	0	0	0	0	10	32	49
##	[50,]	0	0	0	0	0	0	23	40
##	[51,]	0	0	0	0	0	0	9	28
##	[52,]	0	0	0	0	0	0	0	15
##	[53,]	0	0	0	0	0	0	0	3
##	[54,]	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0

##	[81,]	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0	0
##		[,695]	[,696]	[,697]	[,698]	[,699]	[,700]	[,701]	[,702]	[,703]
##	[1,]	0	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0	0
##	[3,]	0	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0	0
##	[9,]	0	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0	0
##	[15,]	0	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0	0
##	[46,]	16	7	3	0	0	0	0	0	0
##	[47,]	35	25	18	13	6	4	4	4	5
##	[48,]	48	35	28	23	12	9	9	8	8
##	[49,]	55	49	44	33	18	16	16	14	14
##	[50,]	57	60	60	40	23	24	22	21	18

##	[51,]	48	56	60	39	28	31	29	27	23
##	[52,]	38	46	49	33	34	38	35	33	30
##	[53,]	28	37	41	36	40	46	46	45	40
##	[54,]	19	28	34	42	48	54	60	60	52
##	[55,]	11	19	26	38	49	57	60	60	60
##	[56,]	5	11	18	30	42	49	54	60	60
##	[57,]	0	3	9	22	34	41	48	53	58
##	[58,]	0	0	0	14	27	34	41	47	52
##	[59,]	0	0	0	9	22	29	37	43	49
##	[60,]	0	0	0	3	16	24	31	38	45
##	[61,]	0	0	0	3	14	22	29	37	44
##	[62,]	0	0	0	3	14	21	28	35	42
##	[63,]	0	0	0	6	14	20	26	32	39
##	[64,]	0	0	0	8	15	20	25	31	37
##	[65,]	0	0	2	9	14	17	22	28	33
##	[66,]	0	0	1	6	8	10	15	21	26
##	[67,]	0	0	0	0	0	0	6	12	18
##	[68,]	0	0	0	0	0	0	0	3	9
##	[69,]	0	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0	0
##		[,704]	[,705]	[,706]	[,707]	[,708]	[,709]	[,710]	[,711]	[,712]
##	[1,]	0	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0	0
##	[3,]	0	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0	0
##	[9,]	0	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0	0
##	[15,]	0	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0	0

##	[21,]	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0
##	[46,]	1	0	0	0	0	0	0	0
##	[47,]	4	2	0	0	0	0	0	0
##	[48,]	7	4	1	0	0	0	0	0
##	[49,]	11	7	3	0	0	0	0	0
##	[50,]	15	11	6	3	0	0	0	0
##	[51,]	20	15	9	5	1	0	0	0
##	[52,]	26	19	13	7	0	0	0	0
##	[53,]	35	28	21	16	10	3	0	0
##	[54,]	46	38	30	27	21	14	10	1
##	[55,]	57	48	40	39	33	26	21	12
##	[56,]	60	57	51	52	45	37	32	23
##	[57,]	60	60	59	60	53	45	39	30
##	[58,]	59	60	65	65	64	56	50	40
##	[59,]	56	60	68	75	78	74	60	50
##	[60,]	54	60	74	88	100	108	80	59
##	[61,]	56	68	78	99	121	121	106	75
##	[62,]	51	59	68	96	121	121	120	118
##	[63,]	49	58	60	86	121	112	115	121
##	[64,]	48	60	65	70	69	86	95	109
##	[65,]	43	53	60	60	60	60	73	85
##	[66,]	36	45	49	49	52	56	59	66
##	[67,]	27	36	41	42	46	49	55	60
##	[68,]	21	30	35	38	42	46	51	57
##	[69,]	12	21	28	32	36	40	47	53
##	[70,]	3	11	21	25	30	35	42	49
##	[71,]	0	2	14	19	24	29	37	44
##	[72,]	0	0	7	13	19	24	32	40
##	[73,]	0	0	3	9	15	21	30	38
##	[74,]	0	0	0	8	14	21	30	38

##	[75,]	0	0	6	10	16	23	32	41	48
##	[76,]	0	0	7	14	20	26	35	46	53
##	[77,]	0	1	8	14	21	28	38	49	55
##	[78,]	0	3	9	15	22	29	41	54	60
##	[79,]	0	3	8	15	22	30	42	60	59
##	[80,]	0	0	2	11	18	26	36	47	53
##	[81,]	0	0	0	4	11	18	27	35	37
##	[82,]	0	0	0	0	2	11	17	21	23
##	[83,]	0	0	0	0	0	1	5	7	8
##		[,713]	[,714]	[,715]	[,716]	[,717]	[,718]	[,719]	[,720]	[,721]
##	[1,]	0	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0	0
##	[3,]	0	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0	0
##	[9,]	0	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0	0
##	[15,]	0	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0	0

##	[45,]	0	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0	0
##	[55,]	3	1	0	0	0	0	0	0	0
##	[56,]	14	9	6	2	0	0	0	0	0
##	[57,]	20	15	12	8	6	1	0	0	0
##	[58,]	28	23	19	15	12	8	4	2	1
##	[59,]	37	30	27	22	17	13	10	9	6
##	[60,]	44	38	34	29	24	19	16	15	12
##	[61,]	51	45	41	35	30	25	22	21	18
##	[62,]	58	53	48	42	36	31	28	26	24
##	[63,]	94	60	56	48	42	37	34	32	31
##	[64,]	109	82	60	54	48	43	39	38	37
##	[65,]	89	73	70	60	54	49	45	44	43
##	[66,]	73	66	64	65	61	55	51	48	47
##	[67,]	65	62	61	66	70	60	56	54	54
##	[68,]	62	61	61	70	79	71	60	60	60
##	[69,]	60	60	60	77	97	91	93	88	87
##	[70,]	57	60	60	86	118	115	121	113	113
##	[71,]	53	57	60	68	110	121	120	121	121
##	[72,]	50	54	58	60	107	121	121	121	121
##	[73,]	49	53	57	60	109	121	121	121	112
##	[74,]	49	54	58	60	117	120	121	121	106
##	[75,]	54	59	71	109	121	120	121	110	94
##	[76,]	60	71	86	121	121	107	99	91	73
##	[77,]	59	60	69	81	85	93	84	76	60
##	[78,]	60	60	60	61	60	67	69	66	65
##	[79,]	60	60	60	60	61	60	60	62	62
##	[80,]	55	55	57	60	60	58	60	60	61
##	[81,]	38	39	42	55	44	49	49	51	56
##	[82,]	23	22	21	24	26	32	36	38	42
##	[83,]	8	6	0	0	9	17	23	25	28
##		[,722]	[,723]	[,724]	[,725]	[,726]	[,727]	[,728]	[,729]	[,730]
##	[1,]	0	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0	0
##	[3,]	0	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0	0
##	[9,]	0	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0	0

##	[15,]	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	2	1	0
##	[57,]	0	0	0	0	0	3	3	1
##	[58,]	0	0	0	0	5	6	4	1
##	[59,]	3	0	0	4	12	10	5	2
##	[60,]	9	7	6	8	16	11	5	2
##	[61,]	15	14	12	14	21	13	5	1
##	[62,]	22	20	19	19	24	14	5	1
##	[63,]	28	27	25	25	28	14	5	1
##	[64,]	35	33	31	31	29	31	15	0
##	[65,]	42	39	37	37	33	35	15	4
##	[66,]	46	44	41	41	36	37	15	4
##	[67,]	53	50	47	47	40	40	14	3
##	[68,]	60	54	52	53	43	44	14	3

##	[69,]	84	62	58	58	47	47	13	2	0
##	[70,]	121	74	60	55	50	50	11	2	0
##	[71,]	111	74	60	59	54	53	10	1	0
##	[72,]	99	76	60	60	58	56	8	1	0
##	[73,]	96	74	64	61	60	59	6	0	0
##	[74,]	93	74	63	60	60	13	3	0	0
##	[75,]	78	64	61	59	56	11	1	0	0
##	[76,]	60	62	61	56	52	10	1	0	0
##	[77,]	63	61	60	54	49	8	1	0	0
##	[78,]	62	61	60	50	45	7	0	0	0
##	[79,]	61	60	60	45	40	6	0	0	0
##	[80,]	61	61	60	39	35	4	0	0	0
##	[81,]	60	60	35	32	30	3	0	0	0
##	[82,]	49	49	28	26	25	2	0	0	0
##	[83,]	35	34	21	21	21	2	0	0	0
##		[,731]	[,732]	[,733]	[,734]	[,735]	[,736]	[,737]	[,738]	[,739]
##	[1,]	0	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0	0
##	[3,]	0	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0	0
##	[9,]	0	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0	0
##	[15,]	0	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0	0

##	[39,]	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0
##		[,740]	[,741]	[,742]	[,743]	[,744]	[,745]	[,746]	[,747]
##	[1,]	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0
##	[3,]	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0

##	[9,]	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0
##	[15,]	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0

##	[63,]	0	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0	0
##		[,749]	[,750]	[,751]	[,752]	[,753]	[,754]	[,755]	[,756]	[,757]
##	[1,]	0	0	0	0	0	0	0	0	0
##	[2,]	0	0	0	0	0	0	0	0	0
##	[3,]	0	0	0	0	0	0	0	0	0
##	[4,]	0	0	0	0	0	0	0	0	0
##	[5,]	0	0	0	0	0	0	0	0	0
##	[6,]	0	0	0	0	0	0	0	0	0
##	[7,]	0	0	0	0	0	0	0	0	0
##	[8,]	0	0	0	0	0	0	0	0	0
##	[9,]	0	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0	0
##	[15,]	0	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0	0

##	[33,]	0	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0	0
##	[57,]	0	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0	0
##										
##		[,758]	[,759]	[,760]	[,761]	[,762]	[,763]	[,764]	[,765]	[,766]
##	[1,]	0	0	1	1	3	6	9	13	17
##	[2,]	0	0	0	2	4	7	10	13	16

##	[3,]	0	0	0	1	4	7	10	13	15
##	[4,]	0	0	0	0	2	4	7	10	11
##	[5,]	0	0	0	0	0	1	3	6	7
##	[6,]	0	0	0	0	0	0	1	2	3
##	[7,]	0	0	0	0	0	0	0	0	1
##	[8,]	0	0	0	0	0	0	0	0	0
##	[9,]	0	0	0	0	0	0	0	0	0
##	[10,]	0	0	0	0	0	0	0	0	0
##	[11,]	0	0	0	0	0	0	0	0	0
##	[12,]	0	0	0	0	0	0	0	0	0
##	[13,]	0	0	0	0	0	0	0	0	0
##	[14,]	0	0	0	0	0	0	0	0	0
##	[15,]	0	0	0	0	0	0	0	0	0
##	[16,]	0	0	0	0	0	0	0	0	0
##	[17,]	0	0	0	0	0	0	0	0	0
##	[18,]	0	0	0	0	0	0	0	0	0
##	[19,]	0	0	0	0	0	0	0	0	0
##	[20,]	0	0	0	0	0	0	0	0	0
##	[21,]	0	0	0	0	0	0	0	0	0
##	[22,]	0	0	0	0	0	0	0	0	0
##	[23,]	0	0	0	0	0	0	0	0	0
##	[24,]	0	0	0	0	0	0	0	0	0
##	[25,]	0	0	0	0	0	0	0	0	0
##	[26,]	0	0	0	0	0	0	0	0	0
##	[27,]	0	0	0	0	0	0	0	0	0
##	[28,]	0	0	0	0	0	0	0	0	0
##	[29,]	0	0	0	0	0	0	0	0	0
##	[30,]	0	0	0	0	0	0	0	0	0
##	[31,]	0	0	0	0	0	0	0	0	0
##	[32,]	0	0	0	0	0	0	0	0	0
##	[33,]	0	0	0	0	0	0	0	0	0
##	[34,]	0	0	0	0	0	0	0	0	0
##	[35,]	0	0	0	0	0	0	0	0	0
##	[36,]	0	0	0	0	0	0	0	0	0
##	[37,]	0	0	0	0	0	0	0	0	0
##	[38,]	0	0	0	0	0	0	0	0	0
##	[39,]	0	0	0	0	0	0	0	0	0
##	[40,]	0	0	0	0	0	0	0	0	0
##	[41,]	0	0	0	0	0	0	0	0	0
##	[42,]	0	0	0	0	0	0	0	0	0
##	[43,]	0	0	0	0	0	0	0	0	0
##	[44,]	0	0	0	0	0	0	0	0	0
##	[45,]	0	0	0	0	0	0	0	0	0
##	[46,]	0	0	0	0	0	0	0	0	0
##	[47,]	0	0	0	0	0	0	0	0	0
##	[48,]	0	0	0	0	0	0	0	0	0
##	[49,]	0	0	0	0	0	0	0	0	0
##	[50,]	0	0	0	0	0	0	0	0	0
##	[51,]	0	0	0	0	0	0	0	0	0
##	[52,]	0	0	0	0	0	0	0	0	0
##	[53,]	0	0	0	0	0	0	0	0	0
##	[54,]	0	0	0	0	0	0	0	0	0
##	[55,]	0	0	0	0	0	0	0	0	0
##	[56,]	0	0	0	0	0	0	0	0	0

##	[57,]	0	0	0	0	0	0	0	0	0
##	[58,]	0	0	0	0	0	0	0	0	0
##	[59,]	0	0	0	0	0	0	0	0	0
##	[60,]	0	0	0	0	0	0	0	0	0
##	[61,]	0	0	0	0	0	0	0	0	0
##	[62,]	0	0	0	0	0	0	0	0	0
##	[63,]	0	0	0	0	0	0	0	0	0
##	[64,]	0	0	0	0	0	0	0	0	0
##	[65,]	0	0	0	0	0	0	0	0	0
##	[66,]	0	0	0	0	0	0	0	0	0
##	[67,]	0	0	0	0	0	0	0	0	0
##	[68,]	0	0	0	0	0	0	0	0	0
##	[69,]	0	0	0	0	0	0	0	0	0
##	[70,]	0	0	0	0	0	0	0	0	0
##	[71,]	0	0	0	0	0	0	0	0	0
##	[72,]	0	0	0	0	0	0	0	0	0
##	[73,]	0	0	0	0	0	0	0	0	0
##	[74,]	0	0	0	0	0	0	0	0	0
##	[75,]	0	0	0	0	0	0	0	0	0
##	[76,]	0	0	0	0	0	0	0	0	0
##	[77,]	0	0	0	0	0	0	0	0	0
##	[78,]	0	0	0	0	0	0	0	0	0
##	[79,]	0	0	0	0	0	0	0	0	0
##	[80,]	0	0	0	0	0	0	0	0	0
##	[81,]	0	0	0	0	0	0	0	0	0
##	[82,]	0	0	0	0	0	0	0	0	0
##	[83,]	0	0	0	0	0	0	0	0	0
##		[,767]	[,768]	[,769]	[,770]	[,771]	[,772]	[,773]	[,774]	[,775]
##	[1,]	20	21	22	22	22	21	21	21	21
##	[2,]	18	20	20	20	20	20	20	21	22
##	[3,]	17	18	18	18	18	18	20	22	23
##	[4,]	13	15	15	15	16	17	20	22	23
##	[5,]	9	11	11	12	14	16	19	22	23
##	[6,]	5	8	8	10	12	15	18	21	22
##	[7,]	3	5	6	8	11	14	18	20	22
##	[8,]	1	2	3	6	10	13	18	20	21
##	[9,]	0	0	1	4	9	12	17	20	21
##	[10,]	0	0	0	3	9	12	17	19	20
##	[11,]	0	0	0	2	8	11	16	18	20
##	[12,]	0	0	0	0	8	11	15	18	19
##	[13,]	0	0	0	0	8	10	14	17	19
##	[14,]	0	0	0	5	8	10	14	16	18
##	[15,]	0	0	0	4	7	9	13	16	18
##	[16,]	0	0	0	4	6	8	12	15	17
##	[17,]	0	0	0	3	6	8	11	15	17
##	[18,]	0	0	0	3	5	7	11	14	17
##	[19,]	0	0	0	2	5	7	10	14	17
##	[20,]	0	0	0	2	4	7	10	14	17
##	[21,]	0	0	0	2	4	7	10	14	17
##	[22,]	0	0	0	2	4	8	12	14	17
##	[23,]	0	0	0	2	4	8	12	14	17
##	[24,]	0	0	0	2	4	8	12	15	17
##	[25,]	0	0	0	2	5	9	13	15	18
##	[26,]	0	0	0	2	5	9	13	15	18

##	[27,]	0	0	0	2	5	8	12	15	17
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##	[29,]	0	0	0	2	4	8	11	14	16
##	[30,]	0	0	0	2	4	8	11	13	16
##	[31,]	0	0	0	2	4	8	11	13	15
##	[32,]	0	0	0	2	4	8	11	12	15
##	[33,]	0	0	0	2	4	7	10	12	14
##	[34,]	0	0	0	2	4	7	10	12	14
##	[35,]	0	0	0	2	4	7	10	12	14
##	[36,]	0	0	0	2	5	8	10	12	14
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##	[39,]	0	0	0	2	5	8	10	12	14
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##	[42,]	0	0	0	2	5	8	10	12	14
##	[43,]	0	0	0	2	5	8	10	12	14
##	[44,]	0	0	0	2	5	8	10	12	14
##	[45,]	0	0	0	2	5	8	10	12	14
##	[46,]	0	0	0	2	5	8	10	12	14
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##	[48,]	0	0	0	2	5	8	10	12	14
##	[49,]	0	0	0	2	5	8	10	12	14
##	[50,]	0	0	0	2	5	8	10	12	14
##	[51,]	0	0	0	3	7	8	10	12	14
##	[52,]	0	0	0	3	7	8	10	12	14
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##	[54,]	0	0	0	3	7	8	10	12	14
##	[55,]	0	0	0	3	7	8	10	12	14
##	[56,]	0	0	0	3	7	8	10	12	14
##	[57,]	0	0	0	3	7	8	10	12	14
##	[58,]	0	0	0	3	7	8	10	12	14
##	[59,]	0	0	0	3	7	8	10	12	14
##	[60,]	0	0	0	3	7	8	10	12	14
##	[61,]	0	0	0	3	6	8	10	12	14
##	[62,]	0	0	0	3	6	8	10	12	14
##	[63,]	0	0	0	3	6	8	10	12	14
##	[64,]	0	0	0	3	6	8	10	12	14
##	[65,]	0	0	0	3	6	8	10	12	14
##	[66,]	0	0	1	4	6	8	10	12	14
##	[67,]	0	0	1	4	6	8	10	12	14
##	[68,]	0	0	1	4	6	8	10	12	14
##	[69,]	0	0	1	4	6	8	10	12	14
##	[70,]	0	0	1	4	6	8	10	12	14
##	[71,]	0	0	1	4	6	8	10	12	14
##	[72,]	0	0	1	4	6	8	10	12	14
##	[73,]	0	0	1	4	6	8	10	12	14
##	[74,]	0	0	1	4	6	8	10	12	14
##	[75,]	0	0	1	4	6	8	10	12	14
##	[76,]	0	0	1	4	6	8	10	12	14
##	[77,]	0	0	1	4	6	8	10	12	14
##	[78,]	0	0	1	4	6	8	10	12	14
##	[79,]	0	0	1	4	6	8	10	12	14
##	[80,]	0	0	2	4	6	8	10	11	13

##	[81,]	0	0	2	4	6	8	10	11	14
##	[82,]	0	0	2	4	6	8	10	11	13
##	[83,]	0	0	2	4	6	8	10	11	13
##		[,776]	[,777]	[,778]	[,779]	[,780]	[,781]	[,782]	[,783]	[,784]
##	[1,]	21	20	20	20	19	19	19	19	19
##	[2,]	22	22	22	22	22	22	23	24	25
##	[3,]	24	24	24	24	25	25	27	28	29
##	[4,]	24	24	24	24	25	26	28	30	31
##	[5,]	23	23	24	24	25	26	28	30	31
##	[6,]	23	23	24	24	25	26	29	31	32
##	[7,]	22	23	24	24	25	26	29	31	32
##	[8,]	22	23	24	24	25	27	30	32	33
##	[9,]	21	22	23	24	26	27	30	32	33
##	[10,]	21	22	23	24	26	28	31	33	34
##	[11,]	21	22	23	24	26	28	32	33	35
##	[12,]	21	22	23	24	26	28	32	34	35
##	[13,]	20	22	23	25	27	29	32	34	36
##	[14,]	20	21	23	25	27	30	33	35	36
##	[15,]	20	21	23	25	28	30	33	35	37
##	[16,]	19	21	23	26	29	31	34	35	38
##	[17,]	19	21	23	26	29	31	34	36	38
##	[18,]	19	21	23	26	30	32	35	36	39
##	[19,]	19	21	24	27	31	33	35	37	40
##	[20,]	19	22	24	28	32	34	36	39	41
##	[21,]	19	22	24	28	32	34	37	39	42
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##	[24,]	20	22	25	29	33	35	38	41	43
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##	[26,]	20	23	25	29	33	36	38	41	43
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##	[28,]	19	21	24	28	31	33	36	39	41
##	[29,]	18	21	23	26	30	32	35	37	39
##	[30,]	18	20	23	26	29	31	33	36	38
##	[31,]	17	20	23	26	28	30	32	35	37
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##	[33,]	16	18	21	24	26	28	30	32	34
##	[34,]	16	18	21	23	25	27	29	31	33
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##	[37,]	16	17	20	23	25	27	29	31	32
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##	[40,]	16	17	20	23	25	27	29	31	33
##	[41,]	16	17	20	23	25	27	29	31	33
##	[42,]	16	17	20	23	25	27	29	31	33
##	[43,]	16	17	20	23	25	27	29	31	33
##	[44,]	16	18	21	23	25	27	29	30	33
##	[45,]	16	18	21	23	25	27	29	30	33
##	[46,]	16	18	21	23	25	27	28	30	33
##	[47,]	16	18	21	23	25	27	28	30	32
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##	[58,]	16	19	21	23	25	27	28	29	31
##	[59,]	17	19	21	23	25	27	28	29	31
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##	[61,]	17	19	21	23	25	26	28	29	31
##	[62,]	17	19	21	23	24	26	27	29	31
##	[63,]	17	19	21	23	24	26	27	29	31
##	[64,]	17	19	21	23	24	26	27	29	30
##	[65,]	17	19	21	23	24	26	27	29	30
##	[66,]	17	19	21	23	24	26	27	28	30
##	[67,]	17	19	21	22	24	25	27	28	30
##	[68,]	17	19	21	22	24	25	27	28	29
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##	[70,]	16	19	21	22	23	25	26	27	28
##	[71,]	16	19	21	22	23	24	26	27	28
##	[72,]	16	19	20	22	23	24	25	26	27
##	[73,]	17	19	20	21	22	23	25	26	27
##	[74,]	17	18	20	21	22	23	24	26	26
##	[75,]	17	18	20	21	22	22	24	25	26
##	[76,]	17	18	19	20	21	22	23	24	25
##	[77,]	16	18	19	20	21	21	22	24	24
##	[78,]	16	17	19	19	20	21	22	23	24
##	[79,]	16	17	18	19	20	20	21	22	23
##	[80,]	16	17	18	18	19	20	21	22	22
##	[81,]	16	16	17	18	18	19	20	21	21
##	[82,]	15	16	17	17	18	18	19	20	21
##	[83,]	15	16	16	17	17	18	19	19	20
##		[,785]	[,786]	[,787]	[,788]	[,789]	[,790]	[,791]	[,792]	[,793]
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##	[2,]	25	25	26	27	28	29	30	30	30
##	[3,]	30	30	31	32	34	35	36	36	36
##	[4,]	32	32	32	35	37	38	39	39	39
##	[5,]	32	32	33	36	38	39	39	39	40
##	[6,]	32	33	34	37	39	40	40	41	41
##	[7,]	33	34	35	38	40	41	42	42	43
##	[8,]	34	35	36	39	41	42	43	44	44
##	[9,]	34	35	37	41	42	43	45	45	46
##	[10,]	35	37	39	42	44	45	46	47	47
##	[11,]	36	38	40	43	45	46	47	48	49
##	[12,]	37	39	41	44	46	47	49	50	50
##	[13,]	37	40	42	45	47	49	50	51	52
##	[14,]	38	41	43	46	48	50	51	53	53
##	[15,]	39	42	44	47	49	51	53	54	54
##	[16,]	39	42	45	48	50	52	54	55	56
##	[17,]	40	43	46	49	51	54	55	57	57
##	[18,]	41	44	48	50	53	55	57	59	58
##	[19,]	42	46	49	52	54	57	59	60	60
##	[20,]	44	47	51	54	57	60	60	60	60

##	[21,]	44	48	52	55	57	59	60	60	60
##	[22,]	45	48	52	55	57	59	60	60	60
##	[23,]	45	49	53	56	58	60	62	62	60
##	[24,]	48	52	54	58	60	64	68	71	61
##	[25,]	48	52	55	59	60	62	66	63	61
##	[26,]	47	51	54	56	58	60	61	61	60
##	[27,]	46	50	53	55	57	58	59	60	60
##	[28,]	44	48	50	53	55	57	58	60	60
##	[29,]	43	46	48	50	53	55	57	60	60
##	[30,]	41	44	47	49	51	53	55	57	60
##	[31,]	40	43	45	47	49	51	53	55	58
##	[32,]	38	41	43	45	47	49	52	54	56
##	[33,]	37	40	42	44	46	47	50	53	55
##	[34,]	36	39	41	43	45	46	49	52	53
##	[35,]	35	38	40	42	44	46	48	51	53
##	[36,]	35	38	40	42	44	46	48	51	52
##	[37,]	35	38	40	42	43	45	48	50	52
##	[38,]	36	38	40	42	43	45	47	49	51
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##	[42,]	36	38	39	41	42	43	45	46	47
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##	[44,]	35	37	38	39	41	42	43	45	46
##	[45,]	35	37	38	39	40	41	42	44	44
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##	[81,]	22	23	24	24	25	26	26	27	28
##	[82,]	21	22	23	24	24	25	25	26	27
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##	[5,]	46	46	46	46	46	49	50	50	51
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##	[8,]	48	48	48	48	49	51	52	52	52
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##	[77,]	143	145	143	143	149	155	164	171	158
##	[78,]	130	133	132	130	137	142	149	147	141
##	[79,]	121	123	123	122	125	129	132	128	126
##	[80,]	121	121	121	121	122	121	121	122	121

##	[81,]	139	121	121	121	121	121	121	121	121
##	[82,]	172	151	139	128	121	121	121	121	121
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##	[58,]	162	156	149	143	136	121	108	99	90
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##	[52,]	60	86	101	121	121	153	182	182	187
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##	[55,]	108	110	114	121	141	164	182	182	182
##	[56,]	121	119	119	120	125	144	154	169	169
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##	[62,]	75	100	114	120	130	147	158	175	181
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##	[40,]	152	146	145	138	125	124	124	123	121
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##	[52,]	207	228	243	222	197	182	176	182	175
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##	[6,]	73	70	69	66	65	65	66	67	72
##	[7,]	85	82	79	75	74	73	73	73	79
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##	[75,]	296	298	301	302	304	304	304	304	303
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##	[79,]	243	243	248	261	264	266	269	273	275
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##	[30,]	243	243	249	244	257	268	279	288	299
##	[31,]	244	243	243	247	247	258	270	280	296
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##	[58,]	200	200	205	202	210	217	226	238	245
##	[59,]	188	185	182	182	194	204	217	233	243
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##	[79,]	287	298	302	304	304	304	304	304	304
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##	[81,]	263	286	304	304	304	304	295	289	282
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##	[45,]	200	192	186	164	167	143	152	126
##	[46,]	226	216	205	196	182	121	159	121
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##	[48,]	243	243	243	243	215	207	198	182
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##	[56,]	231	240	267	299	309	315	313	308
##	[57,]	243	262	291	311	321	329	329	321
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##	[71,]	365	364	365	365	365	365	364	377
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##	[73,]	329	356	364	365	365	357	351	354
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##	[76,]	339	362	365	365	351	328	304	309
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##	[78,]	334	346	332	314	306	307	305	304
##	[79,]	318	319	312	304	304	305	304	300
##	[80,]	304	308	305	305	304	304	304	293
##	[81,]	304	304	304	305	304	304	304	286
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##	[72,]	385	385	392	380	365	373	359	349
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##	[44,]	121	121	121	121	121	121	121	121
##	[45,]	121	121	121	121	121	121	121	121
##	[46,]	121	121	121	121	121	121	121	121
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##	[55,]	182	131	121	121	121	121	133	134
##	[56,]	163	148	129	121	121	135	145	146
##	[57,]	165	151	142	128	139	146	160	171
##	[58,]	168	157	149	145	148	160	170	182
##	[59,]	174	167	163	163	168	172	182	184
##	[60,]	182	180	178	182	178	178	182	192
##	[61,]	182	182	182	184	185	181	191	203
##	[62,]	182	182	182	189	196	203	208	220
##	[63,]	182	182	192	202	213	220	227	233
##	[64,]	182	182	221	232	231	235	238	240
##	[65,]	202	219	241	243	243	243	243	242
##	[66,]	235	243	241	245	243	243	243	243
##	[67,]	242	241	245	247	244	243	240	228
##	[68,]	243	243	248	255	243	243	231	211
##	[69,]	243	243	262	276	265	248	243	213
##	[70,]	260	269	289	302	292	261	243	217
##	[71,]	295	294	301	303	304	270	243	219
##	[72,]	306	303	304	303	294	253	242	228
##	[73,]	316	308	304	304	304	243	243	242
##	[74,]	326	308	305	296	275	243	243	243
##	[75,]	338	305	304	294	278	264	243	284
##	[76,]	372	337	315	309	297	282	291	300
##	[77,]	401	374	348	332	317	304	301	295
##	[78,]	426	412	377	357	342	327	311	291
##	[79,]	426	426	411	380	365	350	333	311
##	[80,]	426	426	426	384	372	365	347	316
##	[81,]	381	406	381	375	371	368	366	345
##	[82,]	365	372	371	368	367	366	366	365
##	[83,]	365	367	368	367	366	366	365	365
##		[,1057]	[,1058]	[,1059]	[,1060]	[,1061]	[,1062]	[,1063]	[,1064]
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##	[4,]	57	54	53	50	47	46	46	45
##	[5,]	59	56	55	52	50	50	50	49
##	[6,]	59	58	57	55	54	55	54	52
##	[7,]	60	60	59	59	59	59	58	56
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##	[9,]	60	60	60	60	60	60	60	60
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##	[11,]	60	60	60	60	61	62	63	61
##	[12,]	60	60	60	61	62	66	69	64
##	[13,]	60	60	60	62	65	73	79	72
##	[14,]	60	60	60	63	68	80	86	76
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##	[16,]	60	60	60	68	83	111	107	82
##	[17,]	60	60	60	66	88	121	118	83
##	[18,]	60	60	60	60	60	105	94	81
##	[19,]	60	60	60	60	60	65	81	70
##	[20,]	60	60	60	60	60	60	60	62
##	[21,]	60	60	60	60	60	60	60	60
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##	[23,]	69	67	60	60	60	60	60	60
##	[24,]	88	94	85	70	60	60	60	60
##	[25,]	106	121	104	89	72	60	60	60
##	[26,]	114	119	121	113	92	72	60	60
##	[27,]	109	115	121	111	101	78	60	60
##	[28,]	111	118	119	118	115	99	84	68
##	[29,]	113	121	121	121	122	121	106	91
##	[30,]	132	140	140	149	135	122	121	114
##	[31,]	162	182	182	182	151	128	122	121
##	[32,]	182	179	182	182	159	129	122	121
##	[33,]	182	182	182	170	142	121	121	121
##	[34,]	178	181	182	182	177	155	140	127
##	[35,]	179	182	182	182	182	182	167	143
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##	[37,]	156	170	182	182	182	182	182	175
##	[38,]	136	152	156	178	182	182	182	182
##	[39,]	121	129	130	153	175	182	182	182
##	[40,]	121	121	121	129	152	165	182	182
##	[41,]	121	121	121	121	129	133	147	163
##	[42,]	121	121	121	121	121	121	121	137
##	[43,]	121	121	121	121	121	121	121	121
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##	[45,]	121	121	121	121	121	121	121	121
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##	[54,]	126	124	122	121	121	121	121	121
##	[55,]	135	131	124	121	121	121	121	121
##	[56,]	148	141	127	121	121	121	121	121
##	[57,]	182	163	140	121	121	121	121	141
##	[58,]	179	182	153	138	121	121	145	156
##	[59,]	184	176	170	170	151	140	153	166
##	[60,]	196	188	182	182	182	173	169	168
##	[61,]	214	225	203	186	182	181	176	171
##	[62,]	231	243	215	182	183	178	171	164

##	[63,]	240	242	222	202	188	183	178	167
##	[64,]	241	242	233	206	194	187	183	182
##	[65,]	242	240	243	207	193	185	183	174
##	[66,]	243	207	182	182	182	179	171	161
##	[67,]	192	186	189	182	182	172	164	155
##	[68,]	182	185	183	183	175	161	151	141
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##	[71,]	193	182	182	169	162	151	121	121
##	[72,]	218	214	206	195	191	186	171	167
##	[73,]	241	243	243	226	216	204	191	181
##	[74,]	267	289	269	256	237	223	203	185
##	[75,]	304	297	304	304	259	243	196	184
##	[76,]	303	304	284	255	259	243	205	182
##	[77,]	275	243	243	243	243	243	216	182
##	[78,]	259	248	244	243	243	243	221	182
##	[79,]	283	254	244	244	243	243	201	187
##	[80,]	292	282	263	243	243	228	198	188
##	[81,]	318	309	294	276	255	243	213	196
##	[82,]	349	332	313	304	270	243	229	227
##	[83,]	365	356	326	309	294	260	242	238
##		[,1065]	[,1066]	[,1067]	[,1068]	[,1069]	[,1070]	[,1071]	[,1072]
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##	[3,]	41	42	42	41	40	40	39	39
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##	[6,]	51	52	51	50	50	49	49	48
##	[7,]	55	55	54	53	54	53	51	50
##	[8,]	58	57	57	57	57	56	54	53
##	[9,]	60	60	59	60	60	59	57	56
##	[10,]	60	60	60	60	60	60	59	59
##	[11,]	61	61	61	61	61	61	60	60
##	[12,]	65	63	64	64	63	62	60	62
##	[13,]	68	66	67	66	66	65	65	64
##	[14,]	70	67	68	68	68	68	69	67
##	[15,]	72	69	71	71	71	72	72	71
##	[16,]	73	71	74	74	74	76	76	75
##	[17,]	73	73	77	77	79	83	85	83
##	[18,]	74	75	80	83	89	97	103	96
##	[19,]	67	74	82	90	103	116	121	110
##	[20,]	60	60	77	90	112	121	115	115
##	[21,]	60	63	64	76	94	106	113	117
##	[22,]	60	60	60	66	87	94	103	111
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##	[24,]	60	60	60	60	68	78	90	102
##	[25,]	60	60	60	60	60	69	87	103
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##	[38,]	167	170	172	163	148	135	126	123
##	[39,]	182	182	180	182	156	137	124	121
##	[40,]	182	182	182	160	150	134	127	122
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##	[45,]	121	121	121	118	115	114	114	117
##	[46,]	121	121	121	115	110	108	106	107
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##	[50,]	121	121	111	102	93	84	75	63
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##	[52,]	121	121	112	105	98	93	88	78
##	[53,]	121	121	113	108	104	101	96	86
##	[54,]	121	121	116	113	112	111	103	92
##	[55,]	121	121	121	120	121	121	112	99
##	[56,]	121	121	121	121	124	122	121	107
##	[57,]	158	136	135	134	130	125	122	110
##	[58,]	182	170	167	159	140	130	121	111
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##	[60,]	178	181	182	182	163	151	139	121
##	[61,]	166	167	162	170	165	160	160	169
##	[62,]	150	134	121	141	145	158	171	182
##	[63,]	146	121	123	122	121	132	160	170
##	[64,]	153	121	121	121	121	121	129	142
##	[65,]	145	132	124	121	121	121	121	128
##	[66,]	142	134	128	124	121	121	121	121
##	[67,]	143	134	128	123	121	121	121	121
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##	[79,]	184	171	160	149	144	172	182	165
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##	[5,]	45	45	45	44	43	43	45	46
##	[6,]	48	48	47	47	45	45	46	48
##	[7,]	51	51	50	49	47	47	48	49
##	[8,]	53	53	53	51	49	48	49	50
##	[9,]	56	56	55	53	50	50	51	51
##	[10,]	59	59	58	55	52	51	52	53
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##	[12,]	62	61	60	59	55	53	54	55
##	[13,]	63	62	61	59	56	55	56	56
##	[14,]	66	64	63	61	58	57	57	57
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##	[27,]	121	121	121	121	121	121	121	121
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##	[29,]	117	120	121	121	121	121	121	121
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##	[41,]	122	121	121	121	121	121	121	108
##	[42,]	121	121	121	121	121	121	111	99
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##	[44,]	121	121	121	121	121	121	114	98
##	[45,]	121	121	121	121	121	121	117	97
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##	[48,]	80	80	81	80	76	72	73	75
##	[49,]	60	60	60	60	63	60	60	60
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##	[53,]	78	75	73	71	69	66	63	60
##	[54,]	82	79	77	74	72	69	65	60
##	[55,]	88	86	83	79	76	72	67	63
##	[56,]	95	92	88	85	81	75	70	66

##	[57,]	101	98	94	90	86	80	74	70
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##	[62,]	182	141	128	121	121	110	99	94
##	[63,]	145	137	128	123	122	119	106	101
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##	[65,]	130	128	121	121	121	121	121	121
##	[66,]	122	122	122	121	121	121	121	121
##	[67,]	121	121	121	121	121	121	121	121
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##	[80,]	121	122	123	122	121	121	117	113
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##	[82,]	121	121	151	172	160	148	135	121
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##	[5,]	46	47	48	50	51	52	53	54
##	[6,]	48	48	49	51	52	53	54	55
##	[7,]	49	49	50	52	53	53	54	56
##	[8,]	51	50	51	52	53	54	55	56
##	[9,]	52	52	52	53	54	55	56	57
##	[10,]	53	53	53	54	55	56	57	57
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##	[12,]	55	55	55	56	57	58	58	59
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##	[29,]	121	121	121	101	90	81	84	89
##	[30,]	121	121	119	110	103	98	96	102
##	[31,]	121	121	121	119	117	117	113	117
##	[32,]	121	121	121	121	121	120	121	121
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##	[38,]	118	116	114	113	114	115	118	121
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##	[42,]	30	37	38	38	38	38	39	41
##	[43,]	30	37	38	38	38	38	39	42
##	[44,]	35	38	39	39	39	38	40	42
##	[45,]	35	38	39	39	39	39	40	42
##	[46,]	36	39	39	39	39	39	40	42
##	[47,]	36	39	39	40	39	39	40	42
##	[48,]	37	39	40	40	40	40	41	43
##	[49,]	37	40	40	40	40	40	41	43
##	[50,]	38	40	41	41	40	40	43	43
##	[51,]	38	40	41	41	41	41	43	44
##	[52,]	39	41	41	41	41	41	43	44
##	[53,]	39	41	42	42	42	41	44	44
##	[54,]	39	42	42	42	42	42	44	45
##	[55,]	40	42	42	42	42	42	44	45
##	[56,]	40	42	43	43	42	42	45	45
##	[57,]	41	43	43	43	43	43	45	45
##	[58,]	41	43	43	43	43	43	45	46
##	[59,]	42	43	44	44	43	43	45	46
##	[60,]	42	44	44	44	44	44	46	46
##	[61,]	42	44	44	44	44	44	46	46
##	[62,]	43	44	45	45	44	44	46	47
##	[63,]	43	45	45	45	45	45	46	47
##	[64,]	44	45	45	45	45	45	47	47
##	[65,]	44	46	46	46	46	45	47	47
##	[66,]	45	46	46	46	46	46	48	48
##	[67,]	45	46	46	46	46	46	48	48
##	[68,]	46	47	47	47	46	46	48	48

##	[69,]	46	47	47	47	47	47	48	49
##	[70,]	46	47	47	47	47	47	49	49
##	[71,]	47	48	48	48	47	47	49	49
##	[72,]	47	48	48	48	48	48	49	49
##	[73,]	48	48	48	48	48	48	49	50
##	[74,]	48	49	49	49	48	48	50	50
##	[75,]	48	49	49	49	49	49	50	50
##	[76,]	49	49	49	49	49	49	50	50
##	[77,]	49	50	50	50	49	49	50	51
##	[78,]	50	50	50	50	50	49	51	51
##	[79,]	50	50	50	50	50	50	51	51
##	[80,]	50	51	51	51	50	50	51	51
##	[81,]	51	51	51	51	51	50	52	52
##	[82,]	51	52	51	51	51	51	52	52
##	[83,]	52	52	52	52	51	51	52	52
##		[,1121]	[,1122]	[,1123]	[,1124]	[,1125]	[,1126]	[,1127]	[,1128]
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##	[2,]	24	26	28	29	30	31	33	34
##	[3,]	29	31	33	34	36	37	39	41
##	[4,]	30	33	35	37	38	40	42	44
##	[5,]	31	34	36	37	38	41	42	44
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##	[7,]	31	35	37	38	39	41	43	45
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##	[9,]	32	36	38	38	39	42	43	45
##	[10,]	32	36	38	39	39	42	43	45
##	[11,]	33	37	38	39	39	42	44	45
##	[12,]	33	37	39	39	39	42	44	44
##	[13,]	33	37	39	39	39	42	44	45
##	[14,]	34	37	39	39	39	42	44	45
##	[15,]	34	38	39	39	39	43	44	47
##	[16,]	34	38	39	40	40	43	44	47
##	[17,]	34	38	40	40	40	43	45	47
##	[18,]	35	39	40	40	40	43	45	47
##	[19,]	36	39	40	40	40	43	45	47
##	[20,]	37	40	40	41	41	44	45	47
##	[21,]	37	40	41	41	41	44	45	48
##	[22,]	37	40	41	41	41	44	46	47
##	[23,]	37	41	41	41	41	44	46	48
##	[24,]	38	41	41	41	41	44	46	48
##	[25,]	38	41	41	42	42	45	46	48
##	[26,]	38	41	42	42	42	45	46	50
##	[27,]	39	41	42	42	42	45	47	50
##	[28,]	39	42	42	42	42	45	47	50
##	[29,]	40	42	42	42	42	45	47	50
##	[30,]	41	42	42	43	43	46	47	50
##	[31,]	41	42	43	43	43	46	47	50
##	[32,]	42	42	43	43	43	46	47	50
##	[33,]	42	43	43	43	43	46	48	50
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##	[35,]	42	43	43	44	44	47	48	51
##	[36,]	42	43	44	44	44	47	48	51
##	[37,]	43	44	44	44	44	47	48	51
##	[38,]	43	44	44	44	44	48	48	51

##	[39,]	43	44	44	45	45	48	49	51
##	[40,]	43	44	45	45	45	48	49	51
##	[41,]	44	45	45	45	45	48	49	52
##	[42,]	44	45	45	45	45	48	49	52
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##	[45,]	45	46	46	46	47	49	49	52
##	[46,]	45	46	46	46	47	49	49	52
##	[47,]	45	46	46	46	47	49	49	52
##	[48,]	45	46	46	46	48	49	50	52
##	[49,]	46	46	46	46	48	50	50	52
##	[50,]	46	46	47	47	48	50	50	53
##	[51,]	46	47	47	47	48	50	50	53
##	[52,]	46	47	47	47	48	50	50	53
##	[53,]	47	47	47	47	49	50	50	53
##	[54,]	47	47	48	48	49	50	51	53
##	[55,]	47	48	48	48	50	51	51	53
##	[56,]	47	48	48	48	50	51	51	53
##	[57,]	47	48	48	48	50	51	51	53
##	[58,]	48	48	48	48	51	51	51	53
##	[59,]	48	49	49	49	51	51	51	53
##	[60,]	48	49	49	49	51	51	51	53
##	[61,]	49	49	49	49	51	52	52	54
##	[62,]	49	49	49	49	51	52	52	54
##	[63,]	49	49	49	49	51	52	52	54
##	[64,]	49	49	50	50	52	52	52	54
##	[65,]	49	50	50	50	52	52	52	54
##	[66,]	49	50	50	50	52	52	52	54
##	[67,]	50	50	50	50	52	52	52	54
##	[68,]	50	50	50	50	52	53	53	54
##	[69,]	50	51	51	51	52	53	53	54
##	[70,]	50	51	51	51	53	53	53	55
##	[71,]	51	51	51	51	53	53	53	55
##	[72,]	51	51	51	51	53	53	53	55
##	[73,]	51	51	51	51	53	53	53	55
##	[74,]	51	52	52	52	53	53	53	55
##	[75,]	52	52	52	52	53	53	53	55
##	[76,]	52	52	52	52	53	54	54	55
##	[77,]	52	52	52	52	53	54	54	55
##	[78,]	52	52	52	52	54	54	54	55
##	[79,]	53	53	53	53	54	54	54	55
##	[80,]	53	53	53	53	54	54	54	56
##	[81,]	53	53	53	53	54	54	54	56
##	[82,]	53	53	53	53	54	55	55	56
##	[83,]	53	53	53	53	55	55	55	56
##		[,1129]	[,1130]	[,1131]	[,1132]	[,1133]	[,1134]	[,1135]	[,1136]
##	[1,]	27	28	29	29	29	29	30	30
##	[2,]	36	37	38	38	38	38	38	38
##	[3,]	43	44	45	45	45	45	45	45
##	[4,]	46	48	49	49	48	48	49	49
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##	[6,]	48	49	50	50	48	49	49	50
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##	[9,]	48	50	50	50	48	49	50	50
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##	[11,]	48	50	50	50	48	49	50	50
##	[12,]	49	50	50	50	47	49	50	50
##	[13,]	49	50	50	51	47	49	50	51
##	[14,]	49	50	51	51	48	49	50	51
##	[15,]	50	50	51	51	48	49	50	51
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##	[19,]	50	51	51	51	48	50	51	51
##	[20,]	50	51	51	51	48	50	51	51
##	[21,]	50	51	51	51	48	50	51	51
##	[22,]	50	51	51	51	48	50	51	51
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##	[25,]	51	51	51	52	49	51	51	52
##	[26,]	51	51	52	52	49	51	52	52
##	[27,]	51	52	52	52	49	51	52	52
##	[28,]	51	52	52	52	49	51	52	52
##	[29,]	51	52	52	52	49	51	52	52
##	[30,]	51	52	52	52	49	51	52	52
##	[31,]	51	52	52	52	50	52	52	52
##	[32,]	52	52	52	52	50	52	52	52
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##	[38,]	52	52	53	53	51	52	53	53
##	[39,]	52	53	53	53	51	53	53	53
##	[40,]	52	53	53	52	51	53	53	53
##	[41,]	53	53	53	51	52	53	53	53
##	[42,]	53	53	53	51	52	53	53	53
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##	[47,]	53	53	53	52	53	53	53	53
##	[48,]	53	53	53	52	53	53	53	53
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##	[52,]	53	53	53	51	53	53	54	54
##	[53,]	53	53	54	51	53	54	54	54
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##	[55,]	54	54	54	52	53	54	54	54
##	[56,]	54	54	54	52	53	54	54	54
##	[57,]	54	54	54	52	53	54	54	54
##	[58,]	54	54	54	52	54	54	54	54
##	[59,]	54	54	54	52	54	54	54	54
##	[60,]	54	54	54	52	54	54	54	54
##	[61,]	54	54	54	52	54	54	54	54
##	[62,]	54	54	54	52	54	54	54	54

##	[63,]	54	54	54	53	54	54	54	55
##	[64,]	54	54	54	53	54	55	55	55
##	[65,]	54	54	54	53	54	55	55	55
##	[66,]	54	55	55	53	54	55	55	55
##	[67,]	55	55	55	53	54	55	55	55
##	[68,]	55	55	55	53	55	55	55	55
##	[69,]	55	55	55	53	55	55	55	55
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##	[72,]	55	55	55	53	55	55	55	55
##	[73,]	55	55	55	54	55	55	55	55
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##	[76,]	55	55	55	54	55	56	56	56
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##	[80,]	56	56	56	55	56	56	56	56
##	[81,]	56	56	56	55	56	56	56	56
##	[82,]	56	56	56	55	56	56	56	56
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##		[,1137]	[,1138]	[,1139]	[,1140]	[,1141]	[,1142]	[,1143]	[,1144]
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##	[2,]	39	40	41	42	42	42	42	42
##	[3,]	46	47	48	49	49	49	49	49
##	[4,]	49	50	52	53	54	54	54	54
##	[5,]	50	51	53	55	56	56	56	56
##	[6,]	50	51	53	55	56	56	56	56
##	[7,]	50	51	53	55	56	56	56	56
##	[8,]	50	51	53	55	56	56	56	56
##	[9,]	50	51	54	55	56	56	56	56
##	[10,]	50	51	54	55	56	56	56	56
##	[11,]	50	51	54	55	56	56	56	56
##	[12,]	51	51	54	55	56	56	56	56
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##	[14,]	51	51	54	55	56	56	56	56
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##	[21,]	51	51	54	56	56	57	57	57
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##	[26,]	52	52	55	56	56	57	57	57
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##	[29,]	52	52	55	56	57	57	57	57
##	[30,]	52	52	55	56	57	57	57	57
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##	[37,]	53	53	56	57	57	57	57	57
##	[38,]	53	53	56	57	57	57	57	57
##	[39,]	53	53	56	57	57	57	57	57
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##	[47,]	53	55	57	57	57	57	57	58
##	[48,]	53	55	57	57	57	57	57	58
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##	[53,]	54	55	57	57	57	57	58	58
##	[54,]	54	55	57	57	57	57	58	58
##	[55,]	54	55	57	57	57	57	58	58
##	[56,]	54	55	57	57	57	57	58	58
##	[57,]	54	56	57	57	57	57	58	58
##	[58,]	54	56	57	57	57	58	58	58
##	[59,]	54	56	57	57	57	58	58	58
##	[60,]	54	56	57	57	57	58	58	58
##	[61,]	54	56	57	57	57	58	58	58
##	[62,]	54	56	57	57	57	58	58	58
##	[63,]	55	56	57	57	57	58	58	58
##	[64,]	55	56	57	57	57	58	58	58
##	[65,]	55	56	57	57	58	58	58	58
##	[66,]	55	56	57	57	58	58	58	58
##	[67,]	55	57	57	57	58	58	58	58
##	[68,]	55	57	57	57	58	58	58	58
##	[69,]	55	57	57	57	58	58	58	58
##	[70,]	55	57	57	57	58	58	58	59
##	[71,]	55	57	57	57	58	58	58	59
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##	[76,]	56	57	57	58	58	58	59	59
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##	[78,]	56	57	57	58	58	58	59	59
##	[79,]	56	57	57	58	58	58	59	59
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##	[81,]	56	57	57	58	58	58	59	59
##	[82,]	56	57	57	58	58	58	59	59
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##	[21,]	57	57	57	54	53	53	53	53
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##	[38,]	53	53	52	51	50	50	49	49
##	[39,]	54	54	53	52	51	51	50	49
##	[40,]	55	55	54	53	52	52	51	50
##	[41,]	56	55	54	53	53	52	52	51
##	[42,]	56	56	55	54	53	53	52	52
##	[43,]	57	56	55	54	54	53	53	52
##	[44,]	58	56	56	55	54	53	53	52

##	[45,]	58	57	56	55	55	54	53	52
##	[46,]	60	58	57	56	56	55	54	53
##	[47,]	60	60	59	58	58	57	56	55
##	[48,]	60	60	60	60	60	59	58	57
##	[49,]	60	60	60	60	60	60	60	59
##	[50,]	60	60	62	62	60	60	60	60
##	[51,]	60	61	64	67	64	60	60	60
##	[52,]	60	63	69	76	71	65	62	60
##	[53,]	60	65	74	88	77	70	65	61
##	[54,]	60	64	74	84	81	73	67	62
##	[55,]	60	60	60	65	72	71	67	62
##	[56,]	60	60	60	60	62	63	64	62
##	[57,]	60	60	60	60	60	61	61	61
##	[58,]	60	60	60	60	60	60	60	60
##	[59,]	60	60	60	60	60	60	60	60
##	[60,]	60	60	60	60	60	60	60	60
##	[61,]	60	60	60	60	60	60	60	60
##	[62,]	60	60	60	60	60	60	60	60
##	[63,]	60	60	60	60	60	60	60	60
##	[64,]	60	60	60	60	60	60	60	60
##	[65,]	60	60	60	60	60	60	60	60
##	[66,]	60	60	60	60	60	60	60	60
##	[67,]	60	60	60	60	60	60	60	60
##	[68,]	60	60	60	60	60	60	60	60
##	[69,]	60	60	60	60	60	60	60	60
##	[70,]	60	60	60	60	60	60	60	60
##	[71,]	60	60	60	60	60	60	60	60
##	[72,]	60	60	60	60	60	60	60	60
##	[73,]	60	60	60	60	60	60	60	60
##	[74,]	60	60	60	60	60	60	60	60
##	[75,]	60	60	60	60	60	60	60	60
##	[76,]	60	60	60	60	60	60	60	60
##	[77,]	60	60	60	60	60	60	60	60
##	[78,]	60	60	60	60	60	60	60	60
##	[79,]	60	60	60	60	60	60	60	60
##	[80,]	60	60	60	60	60	60	60	60
##	[81,]	60	60	60	60	60	60	60	60
##	[82,]	60	60	60	60	60	60	60	60
##	[83,]	60	60	60	60	60	60	60	60
##		[,1185]	[,1186]	[,1187]	[,1188]	[,1189]	[,1190]	[,1191]	[,1192]
##	[1,]	38	37	36	35	35	34	33	32
##	[2,]	35	34	34	33	33	32	32	31
##	[3,]	33	32	32	31	32	31	31	30
##	[4,]	32	32	32	31	31	31	30	29
##	[5,]	32	32	32	32	32	31	30	30
##	[6,]	33	32	32	32	31	31	30	29
##	[7,]	33	32	32	32	31	30	30	29
##	[8,]	33	33	32	31	31	30	30	29
##	[9,]	33	33	32	31	31	30	29	29
##	[10,]	34	33	32	32	31	30	29	29
##	[11,]	34	33	32	32	31	30	29	29
##	[12,]	34	33	32	32	31	30	29	29
##	[13,]	34	33	33	32	31	30	30	29
##	[14,]	35	34	33	32	31	30	30	29

##	[15,]	35	34	33	32	31	30	30	29
##	[16,]	35	35	34	33	32	31	30	30
##	[17,]	36	35	34	33	32	31	31	30
##	[18,]	36	35	34	33	32	32	31	31
##	[19,]	37	36	35	34	33	32	32	31
##	[20,]	38	37	36	35	34	33	33	32
##	[21,]	39	38	37	35	35	34	34	33
##	[22,]	39	39	37	36	36	35	35	34
##	[23,]	40	39	38	37	37	36	35	35
##	[24,]	41	40	39	38	38	37	36	36
##	[25,]	41	41	40	39	39	38	37	37
##	[26,]	42	42	41	40	39	39	38	38
##	[27,]	43	42	42	41	40	39	39	39
##	[28,]	44	43	42	41	40	40	40	39
##	[29,]	44	43	42	42	41	40	40	39
##	[30,]	44	44	43	42	41	41	40	40
##	[31,]	45	44	43	42	42	41	41	40
##	[32,]	45	44	43	43	42	42	41	40
##	[33,]	46	45	44	43	43	42	41	41
##	[34,]	46	45	44	44	43	42	42	41
##	[35,]	47	46	45	44	44	43	42	41
##	[36,]	47	46	45	45	44	43	43	42
##	[37,]	47	46	46	45	44	44	43	42
##	[38,]	48	47	46	46	45	44	44	43
##	[39,]	49	48	47	46	46	45	45	44
##	[40,]	49	49	48	47	47	46	46	45
##	[41,]	50	49	48	48	47	47	46	45
##	[42,]	51	49	49	48	48	47	46	46
##	[43,]	51	50	49	49	48	47	46	46
##	[44,]	51	50	49	49	48	47	46	45
##	[45,]	51	50	49	49	48	48	47	46
##	[46,]	52	51	51	50	49	49	48	47
##	[47,]	54	53	52	52	51	51	50	49
##	[48,]	56	55	55	55	55	54	54	53
##	[49,]	59	58	58	59	59	59	58	57
##	[50,]	60	61	60	60	60	59	59	58
##	[51,]	60	60	60	60	60	60	60	59
##	[52,]	60	60	60	60	60	60	60	60
##	[53,]	60	60	60	60	60	60	60	60
##	[54,]	60	60	60	60	60	60	60	60
##	[55,]	60	60	60	60	60	60	60	60
##	[56,]	60	60	60	60	60	60	60	60
##	[57,]	60	60	60	60	60	60	61	61
##	[58,]	60	59	60	60	60	61	61	62
##	[59,]	60	60	60	60	60	60	60	61
##	[60,]	60	58	59	60	62	64	66	68
##	[61,]	60	57	59	60	63	67	70	73
##	[62,]	60	56	58	60	65	70	74	79
##	[63,]	60	55	58	61	67	72	78	83
##	[64,]	60	54	58	61	68	75	82	88
##	[65,]	60	53	57	61	69	77	84	91
##	[66,]	60	54	57	61	70	77	85	92
##	[67,]	60	54	58	61	70	77	85	92
##	[68,]	60	54	57	61	69	77	84	91

##	[69,]	60	54	57	60	66	72	78	84
##	[70,]	60	55	57	60	63	67	72	76
##	[71,]	60	57	58	60	62	64	67	69
##	[72,]	60	59	59	60	61	62	63	64
##	[73,]	60	60	60	60	60	60	61	61
##	[74,]	60	60	60	60	60	60	60	60
##	[75,]	60	60	60	60	60	60	60	60
##	[76,]	60	60	60	60	60	60	60	60
##	[77,]	60	60	60	60	60	60	60	60
##	[78,]	60	60	60	60	60	60	60	60
##	[79,]	60	60	60	60	60	60	60	60
##	[80,]	60	60	60	60	60	60	60	60
##	[81,]	60	60	60	60	60	60	60	60
##	[82,]	60	60	60	60	60	60	60	60
##	[83,]	60	60	60	60	60	60	60	60
##		[,1193]	[,1194]	[,1195]	[,1196]	[,1197]	[,1198]	[,1199]	[,1200]
##	[1,]	31	30	29	29	29	30	30	30
##	[2,]	29	29	28	29	29	29	30	30
##	[3,]	27	26	26	27	28	28	29	30
##	[4,]	26	26	26	27	28	29	30	31
##	[5,]	26	26	26	28	29	30	31	33
##	[6,]	26	26	26	28	30	31	33	37
##	[7,]	28	27	26	26	27	29	32	39
##	[8,]	28	27	27	27	28	30	33	40
##	[9,]	28	27	27	26	28	30	33	42
##	[10,]	28	27	27	26	28	30	33	42
##	[11,]	29	27	26	26	27	29	32	41
##	[12,]	28	28	27	26	26	27	29	38
##	[13,]	28	28	27	26	26	26	28	32
##	[14,]	28	28	27	26	26	26	28	31
##	[15,]	30	28	26	25	25	26	28	34
##	[16,]	30	28	26	25	25	26	28	34
##	[17,]	30	28	26	25	25	26	28	33
##	[18,]	28	28	28	29	29	30	31	33
##	[19,]	31	29	28	26	26	27	29	31
##	[20,]	32	30	29	27	27	28	30	32
##	[21,]	33	32	30	29	29	30	32	33
##	[22,]	33	33	32	32	31	31	32	36
##	[23,]	34	33	33	32	32	32	33	35
##	[24,]	35	34	34	33	32	32	33	35
##	[25,]	36	35	35	34	34	34	35	36
##	[26,]	37	37	37	36	36	36	37	38
##	[27,]	38	38	37	37	37	37	38	39
##	[28,]	39	38	38	37	37	37	38	39
##	[29,]	39	38	38	37	37	37	38	39
##	[30,]	39	39	38	38	37	37	38	39
##	[31,]	39	39	38	38	37	37	38	39
##	[32,]	39	39	39	38	38	38	39	40
##	[33,]	40	39	39	38	38	38	38	40
##	[34,]	40	39	39	38	38	38	39	40
##	[35,]	40	40	39	39	38	38	38	40
##	[36,]	41	40	40	39	39	38	38	41
##	[37,]	41	41	40	39	39	39	39	41
##	[38,]	42	41	41	40	40	40	40	42

##	[39,]	43	42	42	41	41	41	42	43
##	[40,]	44	44	43	43	43	43	44	45
##	[41,]	45	44	44	43	43	43	44	46
##	[42,]	45	44	44	43	43	44	44	46
##	[43,]	45	45	44	44	43	43	43	45
##	[44,]	45	44	43	42	41	42	43	44
##	[45,]	46	44	43	41	41	41	42	44
##	[46,]	44	44	44	44	44	45	45	45
##	[47,]	46	46	46	46	46	46	47	46
##	[48,]	50	49	49	49	49	49	49	48
##	[49,]	53	52	52	51	51	51	51	50
##	[50,]	58	56	56	55	54	54	53	53
##	[51,]	61	59	58	55	54	54	54	54
##	[52,]	59	59	59	58	58	58	58	58
##	[53,]	60	60	59	58	58	57	58	59
##	[54,]	60	60	60	59	59	59	59	60
##	[55,]	59	60	60	61	61	62	62	63
##	[56,]	60	60	60	62	62	63	64	66
##	[57,]	60	61	63	64	66	67	68	70
##	[58,]	62	65	66	68	69	71	72	74
##	[59,]	64	68	71	72	74	75	77	79
##	[60,]	73	75	78	80	81	82	83	83
##	[61,]	81	84	86	88	88	89	90	90
##	[62,]	90	93	96	97	97	98	98	98
##	[63,]	96	99	103	104	104	105	105	105
##	[64,]	102	107	110	110	110	111	111	111
##	[65,]	107	112	114	114	114	114	115	114
##	[66,]	103	111	116	119	122	122	122	119
##	[67,]	106	111	115	115	116	118	119	121
##	[68,]	105	111	115	115	117	118	120	121
##	[69,]	96	103	107	109	111	114	117	118
##	[70,]	84	89	94	98	102	106	110	113
##	[71,]	72	78	82	88	93	98	102	107
##	[72,]	62	68	71	78	84	90	96	100
##	[73,]	58	61	65	72	78	84	90	94
##	[74,]	56	59	62	69	74	80	86	91
##	[75,]	56	59	62	68	73	78	83	87
##	[76,]	56	59	62	67	71	76	81	84
##	[77,]	57	59	61	66	70	74	79	81
##	[78,]	57	59	61	66	70	73	77	79
##	[79,]	56	58	60	65	69	73	77	78
##	[80,]	56	58	60	64	68	72	77	78
##	[81,]	55	57	60	64	68	73	77	78
##	[82,]	55	57	60	64	68	73	78	79
##	[83,]	55	57	60	64	69	73	78	79
##	[,1201]								
##	[1,]	31							
##	[2,]	31							
##	[3,]	31							
##	[4,]	32							
##	[5,]	34							
##	[6,]	37							
##	[7,]	41							
##	[8,]	43							

##	[9,]	45
##	[10,]	45
##	[11,]	44
##	[12,]	41
##	[13,]	37
##	[14,]	36
##	[15,]	37
##	[16,]	37
##	[17,]	36
##	[18,]	35
##	[19,]	35
##	[20,]	36
##	[21,]	37
##	[22,]	38
##	[23,]	38
##	[24,]	38
##	[25,]	39
##	[26,]	40
##	[27,]	41
##	[28,]	41
##	[29,]	41
##	[30,]	41
##	[31,]	41
##	[32,]	42
##	[33,]	42
##	[34,]	43
##	[35,]	43
##	[36,]	43
##	[37,]	43
##	[38,]	44
##	[39,]	45
##	[40,]	47
##	[41,]	48
##	[42,]	48
##	[43,]	48
##	[44,]	48
##	[45,]	47
##	[46,]	47
##	[47,]	48
##	[48,]	50
##	[49,]	52
##	[50,]	54
##	[51,]	56
##	[52,]	59
##	[53,]	61
##	[54,]	62
##	[55,]	64
##	[56,]	67
##	[57,]	70
##	[58,]	75
##	[59,]	79
##	[60,]	83
##	[61,]	89
##	[62,]	96

```
## [63,] 103
## [64,] 109
## [65,] 112
## [66,] 115
## [67,] 120
## [68,] 122
## [69,] 120
## [70,] 117
## [71,] 113
## [72,] 107
## [73,] 102
## [74,] 99
## [75,] 96
## [76,] 92
## [77,] 89
## [78,] 87
## [79,] 87
## [80,] 87
## [81,] 88
## [82,] 89
## [83,] 89
## [ reached getOption("max.print") -- omitted 1118 rows ]
```

Notice that we were able to use `ncol` on our `RasterLayer` object, because in some basic senses it behaves like a `matrix`, much as a `Spatial*DataFrame` behaves in some senses like a `data.frame`.

Explore the Structure

Can we create a new `RasterLayer` object from a matrix?

```
test = raster(matrix(DEM[,], ncol = ncol(DEM), byrow = TRUE))
test
```

```
## class      : RasterLayer
## dimensions : 1201, 1201, 1442401  (nrow, ncol, ncell)
## resolution : 0.0008326395, 0.0008326395  (x, y)
## extent      : 0, 1, 0, 1  (xmin, xmax, ymin, ymax)
## crs         : NA
## source      : memory
## names       : layer
## values      : 0, 976  (min, max)
```

We do get a new `RasterLayer`! However, notice that it of course has no projection, and has incorrect extent and resolution.

Explore the Structure

You can imagine that you could then use the `DEM` object's information to assign the new `RasterLayer` its appropriate metadata (much like what we did with unprojected point data that we read in from a CSV and coerced to an `sf` object).

Because there's a much easier way to do all of this...

Explore the Structure

Our subsetting operation can actually take a `drop = FALSE` argument!

```
DEM[10:15, 20:30, drop = FALSE]
```

```
## class      : RasterLayer
## dimensions : 6, 11, 66  (nrow, ncol, ncell)
## resolution : 0.0008333333, 0.0008333333  (x, y)
## extent     : -122.9846, -122.9754, 37.98792, 37.99292  (xmin, xmax, ymin, ymax)
## crs        : +proj=longlat +datum=NAD27 +no_defs +ellps=clrk66 +nadgrids=@conus,@alaska,@ntv2_0.gsb,
## source     : memory
## names      : layer
## values     : 0, 41  (min, max)
```

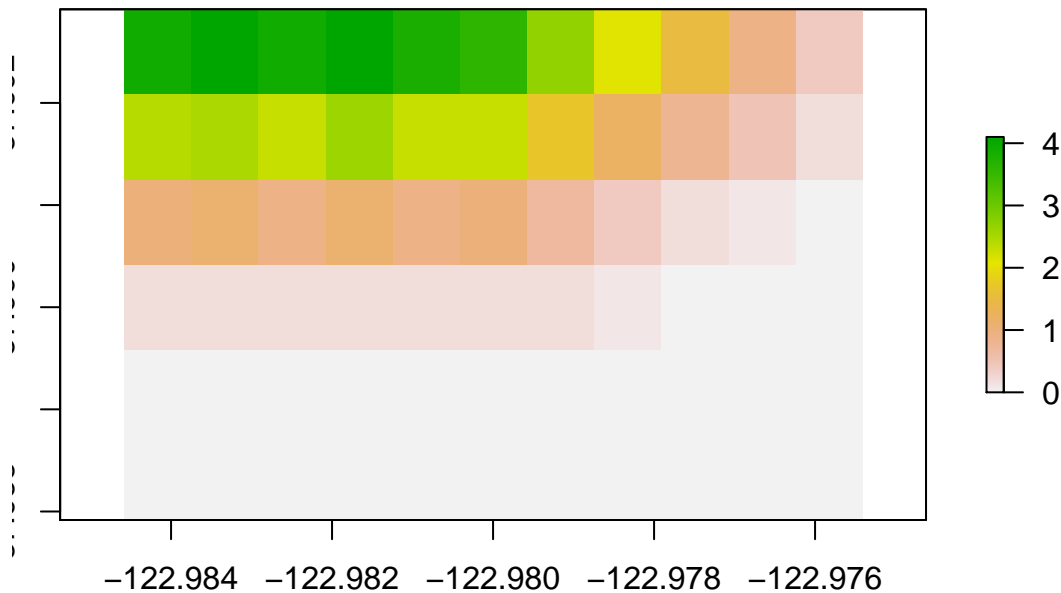
And this gives us back a new RasterLayer object!

In essence, this makes the subsetting operation more or less like a basic **clipping** function.

Explore the Structure

Here's what that gave us:

```
test = DEM[10:15, 20:30, drop = FALSE]
plot(test)
```



Explore the Structure

And now what does the @data@values slot look like in our new object now?

```
test@data@values
```

```
## [1] 39 41 39 41 38 36 27 21 15 9 4 24 25 23 26 23 23 17 12 8 5 2 10
## [24] 11 9 11 9 10 7 4 2 1 0 2 2 2 2 2 2 2 1 0 0 0 0 0
## [47] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
```

Explore the Structure

That makes sense, because our test object didn't come from a file, so R didn't leave its data on disk.

```
test@data@inmemory
```

```
## [1] TRUE
```

```
test@data@fromdisk
```

```
## [1] FALSE
```

CRS Transformations

Check the CRS (aka projection) of the DEM raster data.

Transform (or reproject) the Tracts vector data to match it.

```
#check out its projection
```

```
proj4string(DEM)
```

```
## [1] "+proj=longlat +datum=NAD27 +no_defs +ellps=clrk66 +nadgrids=@conus,@alaska,@ntv2_0.gsb,@ntv1_ca
```

```
#reproject tracts to our DEM projection
```

```
sftracts_NAD = st_transform(sftracts, st_crs(DEM))
```

CRS Transformations

You can reproject the DEM with `raster::projectRaster`

Note how the syntax is similar to `sp::spTransform`

```
DEM_WGS = projectRaster(DEM, projectExtent(DEM, st_crs(sftracts)))
```

```
## Error in rgdal::rawTransform(projfrom, projto, nrow(xy), xy[, 1], xy[, : projection not named
```

CRS Transformations

Oops! What went wrong?

That's not a very informative error message...

Let's read the docs!

```
?projectRaster
```

CRS Transformations

Looks like `projectRaster` expects the `crs` argument needs to be an object of the 'CRS' class.

Is it?

```
class(st_crs(sftracts))
```

```
## [1] "crs"
```

CRS Transformations

We need to be careful when working between the `raster` and `sf` packages, because `raster` is older and still depends on `sp`.

This object is of the `crs` class. But check out the class of *this* object!

```
class(crs(st_crs(sftracts))$proj4string)
```

```
## [1] "CRS"
## attr(,"package")
## [1] "sp"
```

CRS Transformations

What did we do there?

That has multiple nested steps. From the inside, out:

1. call `sf::st_crs` to get the CRS of `sftracts`;
2. index out its `proj4string` using `$` notation;
3. feed that into the `raster::crs` function, to create a CRS object of the correct class

```
class(crs(st_crs(sftracts)$proj4string))
```

CRS Transformations

That's an object of the `CRS` class, which is even indicated as belonging to the `sp` package!

Now we can see that `raster` is still expecting spatial objects to be expressed in classes defined by the `sp` package.

(Maybe this will change in the future, if `raster` integrates `sf` support. But for the time being, we'll need to be aware of and manage this mismatch.)

CRS Transformations

So, clearly, a solution would be to replace the broken bit of code with the expression we used that *did* give us a `CRS` object.

```
DEM_WGS = projectRaster(DEM, projectExtent(DEM, crs(st_crs(sftracts)$proj4string)))
```

CRS Transformations

Then we can check equivalence.

```
st_crs(sftracts_NAD) == st_crs(DEM)
```

```
## [1] TRUE
```

```
st_crs(DEM_WGS) == st_crs(sftracts)
```

```
## [1] FALSE
```

sp package

As we mentioned in Part I, `sp` was for a long time the primary geospatial package in R.

`sf` has now eclipsed this package (along with the 'rgdal' and 'rgeos' packages).

However, as you can see, not all geospatial packages have made the transition already.

sp package

You may sometimes run into issues such as the one we just experienced, where you can find an easy workaround.

Other times, however, you may actually need to work with `sp` objects instead of `sf` ones.

Luckily, this is easy!

sp package

To convert **from sf to sp**, **sf** provides the `as_Spatial` function.

Let's convert `SFhomes15_sf`, then look at its string representation.

Note that it looks very similar to the metadata of a **raster** object.

```
SFhomes15_sp = as_Spatial(SFhomes15_sf)
SFhomes15_sp
```

```
## class      : SpatialPointsDataFrame
## features   : 5849
## extent     : -122.5107, -122.3696, 37.70821, 37.80612 (xmin, xmax, ymin, ymax)
## crs        : +proj=longlat +datum=NAD83 +no_defs +ellps=GRS80 +towgs84=0,0,0
## variables  : 17
## names      : FiscalYear, SalesDate, Address, YearBuilt, NumBedrooms,
## min values : 2015, 2015-01-02, 0000 0000 0000, 24, 0,
## max values : 2015, 2015-12-31, S000 3016 SACRAMENTO ST0000, 2016, 13,
```

sp package

And look at its structure, which is also similar.

```
str(SFhomes15_sp)
```

sp package

That makes sense, because the **raster** and **sp** packages are designed to feel as standardized and consistent as possible.

There *are* differences, however!

Some are just stylistic:

- `@bbox` instead of `@extent`
- `@proj4string` instead of `@crs`

Some come from the difference between the vector and raster data models:

- no `dimensions` attribute
- no `resolution` (this *is* a concept for vector data, but is not key metadata)
- the `@data` slot is a `data.frame` (a.k.a. an “attribute table”)

sp package

sp creates objects that pertain to any of a number of classes, which conform to the `Spatial*DataFrame` convention:

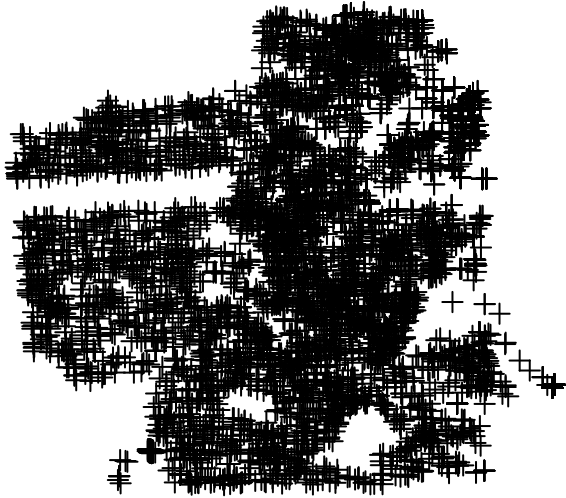
- `SpatialPointsDataFrame`
- `SpatialLinesDataFrame`
- `SpatialPolygonsDataFrame`
- etc.

sp package

Spatial objects can then be transformed, subsetted, analyzed, and plotted, using a variety of packages that may not be compatible (yet?) with **sf**.

Here's a plot:

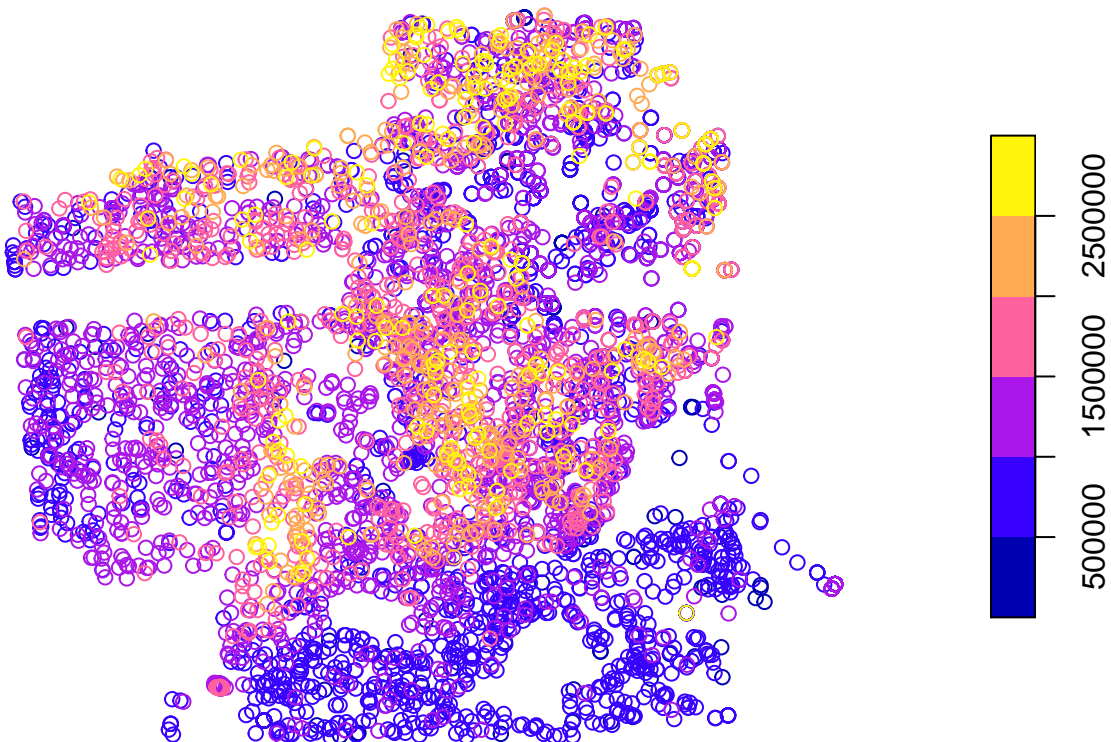
```
plot(SFhomes15_sp)
```



sp package

And if you need to convert **from sp to sf**, there's a function for that too (which we already saw in Part 1!).

```
SFhomes15_sfagain = st_as_sf(SFhomes15_sp)  
plot(SFhomes15_sfagain['totvalue'])
```



sp package

We will not go into any greater detail on **sp** in this workshop.

However, if you find you need to learn more then please visit our former R geospatial workshop, which is based on `sp`.

(It uses the same data and runs more or less the same operations as this workshop, so it should be easy to follow and should highlight all the differences between `sf` and `sp`.)

Clipping Rasters

Since the raster data covers a larger area than our vector data / area of interest, we can clip it using the `raster::crop` function.

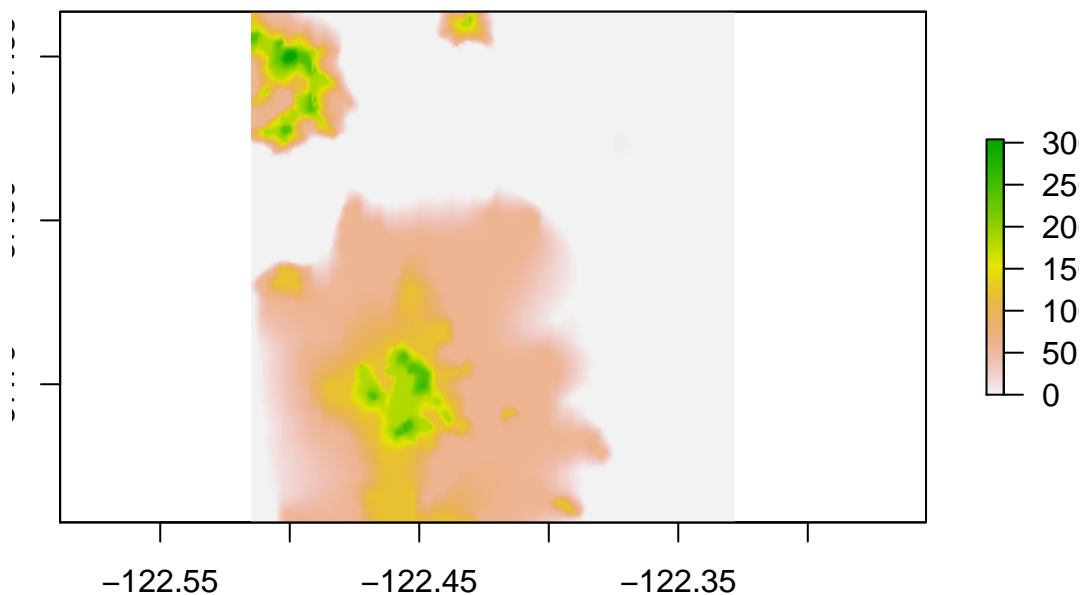
```
# clip the WGS CRS version of the rasters to sftracts
DEM_WGS_crop = crop(DEM_WGS, sftracts)

# Clip the NAD CRS version
DEM_crop = crop(DEM, sftracts_NAD)
```

Plot Clipped Raster data

You can plot raster and vector

```
plot(DEM_WGS_crop)
```

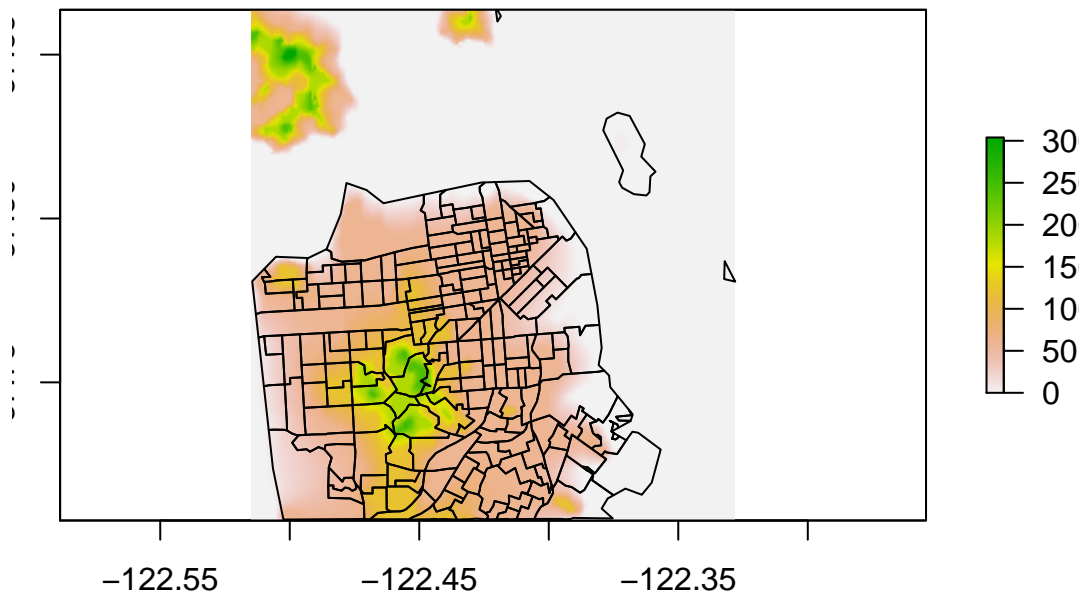


Plot Raster & Vector Data

And we can plot raster and vector data together!

Here we plot the NAD CRS version.

```
#plot together
plot(DEM_WGS_crop)
plot(sftracts, add = T, col = NA)
```



Masking Raster Data

Notice that the clipping (or cropping) operation reduced our dataset to just the extent of the census-tract dataset.

But it still left us with values outside of the census tracts themselves (because they are areas outside the city of San Francisco).

Masking Raster Data

For some purposes, we may want to get rid of those values as well.

We can do this with an operation called **masking**.

```
DEM_WGS_crop_masked = mask(DEM_WGS_crop, sftracts)
```

Masking Raster Data

Here's what that gives us, compared to the unmasked object:

```
DEM_WGS_crop_masked
```

```
## class      : RasterLayer
## dimensions  : 187, 224, 41888 (nrow, ncol, ncell)
## resolution  : 0.0008333674, 0.0008333165 (x, y)
## extent     : -122.5148, -122.3282, 37.70785, 37.86368 (xmin, xmax, ymin, ymax)
## crs        : +proj=longlat +datum=NAD83 +no_defs +ellps=GRS80 +towgs84=0,0,0
## source     : memory
## names      : san_francisco.e
## values     : 0, 269.8155 (min, max)
```

```
DEM_WGS_crop
```

```
## class      : RasterLayer
## dimensions  : 187, 224, 41888 (nrow, ncol, ncell)
## resolution  : 0.0008333674, 0.0008333165 (x, y)
## extent     : -122.5148, -122.3282, 37.70785, 37.86368 (xmin, xmax, ymin, ymax)
```

```
## crs      : +proj=longlat +datum=NAD83 +no_defs +ellps=GRS80 +towgs84=0,0,0
## source   : memory
## names     : san_francisco.e
## values    : 0, 303.9775 (min, max)
```

Masking Raster Data

Still a rectangular grid of cells (because a raster will **always** be rectangular).

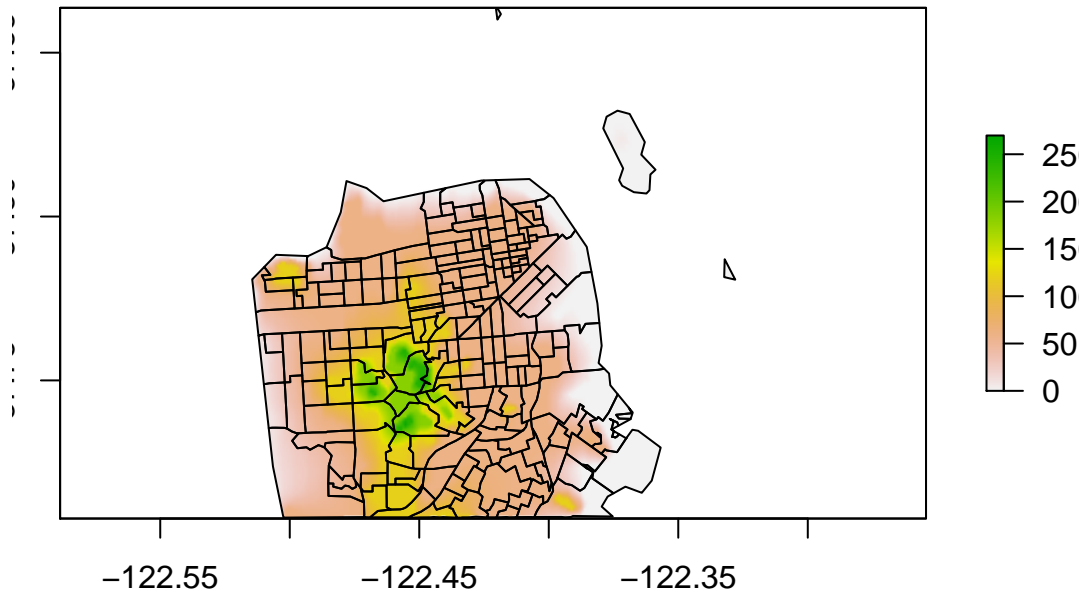
Still has the same `nrow` and `ncol` as the unmasked object.

What masking did was to set the cells that lie outside our dataset to NAs.

Masking Raster Data

```
plot(DEM_WGS_crop_masked)
plot(sftracts, add = T, col = NA)
```

```
## Warning in plot.sf(sftracts, add = T, col = NA): ignoring all but the first
## attribute
```



Plotting rasters in tmap

We can make an interactive plot using `tmap`

```
my_map <- tm_shape(DEM_WGS_crop_masked) +
  tm_raster() +
  tm_shape(sftracts) +
  tm_borders() +

# Set mode to interactive
tmap_mode("view")
```

View Map

```
my_map
```

Writing Raster Data

And now that we've manipulated our data as desired, we can write it to disk if we like!

```
#write our reprojected, cropped data to the data directory, using the Geotiff format  
 #(and allow R to overwrite if file already exists)
```

```
writeRaster(DEM_WGS_crop_masked, filename="./data/DEM_reproject_crop.tif", format="GTiff", overwrite = TRUE)
```

Section 2: Raster Operations and Spatial Analysis

Challenge section

This section will feature a number of challenges, to get you practicing some of the material we've already covered today.

Extract elevation values

We can use the raster::extract function to get the elevation values for each tract.

```
# get the elevation for every cell in each of the census tracts  
elev = extract(DEM_WGS_crop, sftracts)
```

```
#what did that give us?
```

```
head(elev)
```

```
## [[1]]  
## [1] 55.97961 57.98517 57.98980 58.99490 58.99491 58.99491 59.99493  
## [8] 59.99492 59.99492 59.99491 59.99998 60.00000 60.00000 60.00000  
## [15] 60.00000 60.00000 60.00000 60.00000 60.00000 60.00000 60.00000  
## [22] 60.00000 60.00000 60.00000 60.00000 60.00000 60.00000 60.00000  
##  
## [[2]]  
## [1] 59.00984 59.00487 59.00488 59.00002 59.00002 59.00000 58.00979  
## [8] 58.00487 58.00984 58.00485 58.00002 57.00977  
##  
## [[3]]  
## [1] 57.98527 57.99014 57.99016 57.99015 59.00039 58.99510 58.99509  
## [8] 58.99508 59.99514 59.99511 59.99510 59.99510 60.00000 60.00000  
## [15] 60.00000 60.00000 60.00000 60.00000 60.00000 60.00000 60.00000  
## [22] 60.00000 60.00000 60.00000 60.00000 60.00000 60.00000 60.00000  
## [29] 60.00000 60.00000 60.00000 60.00000 60.00000 60.00000 60.00000  
## [36] 60.00000  
##  
## [[4]]  
## [1] 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60  
## [24] 60 60 60 60 60 60 60 60 60 60 60 60  
##  
## [[5]]  
## [1] 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60  
## [24] 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60  
## [47] 60
```

```
##
## [[6]]
## [1] 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60
## [24] 60 60 60 60 60 60 60 60 60 60 60 60 60 60
```

What is the output?

Check out the data in the `elev` object

```
length(elev)
```

```
## [1] 195
```

```
nrow(sftracts)
```

```
## [1] 195
```

It's a vector of the elevations for all the cells within each census tract!

Average Raster value by Vector shape

Let's get each tract's average elevation

```
mean_elev = lapply(elev, mean, na.rm = T)
head(mean_elev)
```

```
## [[1]]
## [1] 59.60425
##
## [[2]]
## [1] 58.42156
##
## [[3]]
## [1] 59.6645
##
## [[4]]
## [1] 60
##
## [[5]]
## [1] 60
##
## [[6]]
## [1] 60
```

Add elevation to Vector object

Let's add this to the `sftracts_NAD` data.frame.

Note: the order remains the same, so we can just add this right in!

```
sftracts$mean_elev = unlist(mean_elev)
```

Map it

```
#what did we get?
elev_map <- tm_shape(sftracts) +
  tm_polygons(col = 'mean_elev') +
```

```
tm_layout("The pain of biking in SF, by census tract",
          inner.margins=c(0,0,.1,0), title.size=4.8)
```

Map it

```
elev_map
```

One step Re-do

We can also pass a function argument to `raster::extract`

```
elev = extract(DEM_WGS_crop, sftracts, fun=mean)
```

```
#what did that give us?
head(elev)
```

```
##           [,1]
## [1,] 59.60425
## [2,] 58.42156
## [3,] 59.66450
## [4,] 60.00000
## [5,] 60.00000
## [6,] 60.00000
```

Questions?

Do you see the difference between those two approaches?

1. Mapping a vector layer on top of a raster layer (i.e. `my_map`)
2. Summarizing raster values by vector polygons, then mapping the polygons (`elev_map`)

Challenge 1: Read in and check out new data

You have another raster dataset in your `./data` directory. The file is called `nlcd2011_sf.tif`.

This is data from the National Land Cover Database (NLCD).

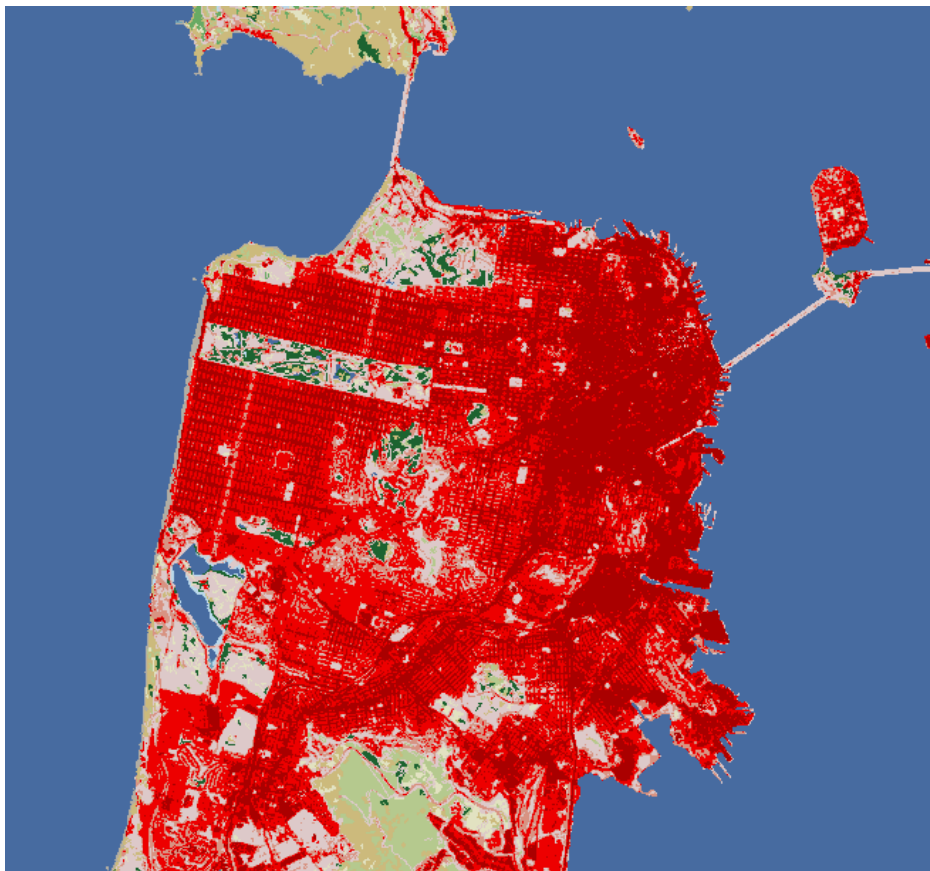
It's 2011 data that was downloaded from [here](#).

Read that file in as an object called `nlcd`, and plot it.

Solution

```
#read in nlcd data
nlcd = raster('./data/nlcd2011_sf.tif')

#plot nlcd
plot(nlcd)
```

Let's see what's in the NLCD data

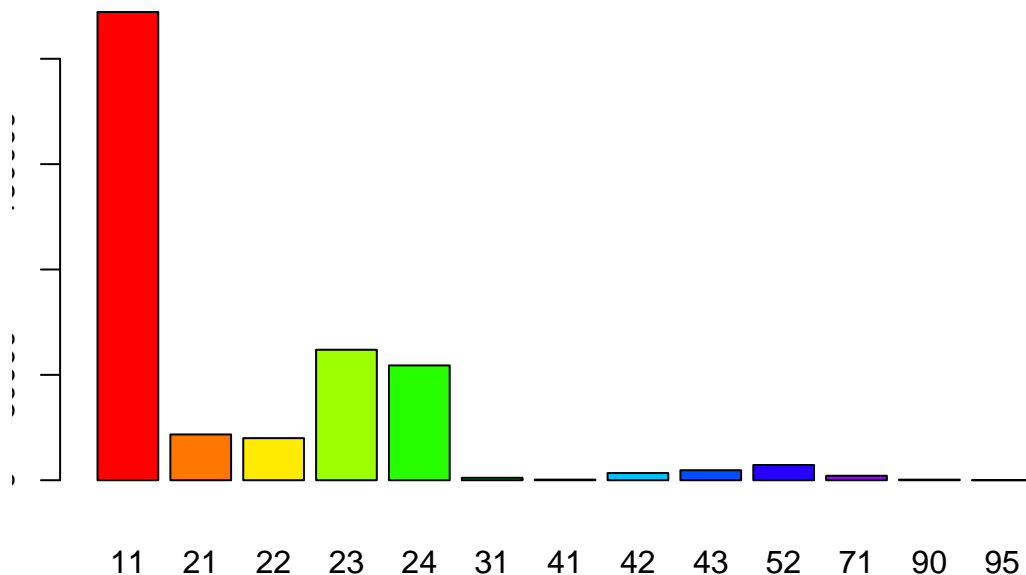
```
freq(nlcd)
```

```
##      value  count
## [1,]    11 222187
## [2,]    21 21713
## [3,]    22 19966
## [4,]    23 61919
## [5,]    24 54480
## [6,]    31  1150
## [7,]    41   294
## [8,]    42  3406
## [9,]    43  4744
## [10,]   52  7224
## [11,]   71  2109
## [12,]   90   267
## [13,]   95    45
```

... and a barplot

(Note: The colors in this barplot have no relation to the colors in our maps! Just pay attention to the categories on the x-axis.)

```
barplot(nlcd)
```



What do those values mean?

This is a categorical raster. Each cell on the raster holds a discrete (integer) value, coding a particular type of land-cover (rather than a continuous value, like we saw with our elevation data above).

Where do we go to figure out what the codes mean? This should come with the metadata that ships with your data, or that is provided at the website where you downloaded it.

Here's the NLCD legend.

Challenge 2: Reproject and crop our NLCD data

Now that we've read in our NLCD data, check if we need to reproject it (we want it to be in the same projection as our `sftracts` object), and project it if need be.

Then crop it to the extent of our `sftracts` object.

Solution

```
#check projection equality
st_crs(nlcd) == st_crs(sftracts)

## [1] FALSE

#reproject
nlcd_WGS = projectRaster(nlcd, projectExtent(nlcd, crs(st_crs(sftracts)$proj4string)))

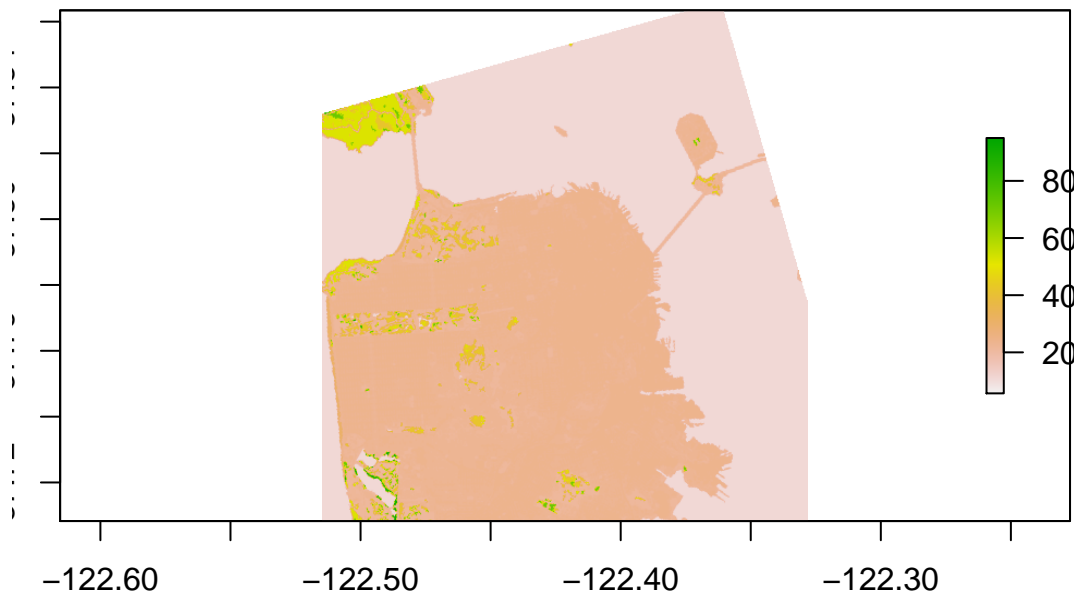
#check projection equality again
st_crs(nlcd_WGS) == st_crs(sftracts)

## [1] FALSE

#crop
nlcd_WGS_crop = crop(nlcd_WGS, sftracts)
```

Plot the new raster

```
plot(nlcd_WGS_crop)
```



Recovering our plot formatting

Notice that the colors of our original, which conveniently represented the NLCD class colors from their website, are lost after reprojecting and cropping our raster.

Those colors were controlled by information in the original file, which was read into the `@legend` slot. Here's the info (with hexadecimal format for color codes, e.g. `'#00F900'`):

```
nlcd@legend
```

```
## An object of class ".RasterLegend"
## Slot "type":
## character(0)
##
## Slot "values":
## logical(0)
##
## Slot "color":
## logical(0)
##
## Slot "names":
## logical(0)
##
## Slot "colortable":
## [1] "#000000" "#00F900" "#000000" "#000000" "#000000" "#000000" "#000000"
## [8] "#000000" "#000000" "#000000" "#000000" "#476BA0" "#D1DDF9" "#000000"
## [15] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#000000"
## [22] "#DDC9C9" "#D89382" "#ED0000" "#AA0000" "#000000" "#000000" "#000000"
## [29] "#000000" "#000000" "#000000" "#B2ADA3" "#F9F9F9" "#000000" "#000000"
## [36] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#68AA63"
## [43] "#1C6330" "#B5C98E" "#000000" "#000000" "#000000" "#000000" "#000000"
## [50] "#000000" "#000000" "#A58C30" "#CBA7C" "#000000" "#000000" "#000000"
```

```
## [57] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#000000"
## [64] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#000000"
## [71] "#000000" "#E2E2C1" "#C9C977" "#99C147" "#77AD93" "#000000" "#000000"
## [78] "#000000" "#000000" "#000000" "#000000" "#DBD83D" "#AA7028" "#000000"
## [85] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#BAD8EA"
## [92] "#B5D3E5" "#B5D3E5" "#B5D3E5" "#B5D3E5" "#70A3BA" "#000000" "#000000"
## [99] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#000000"
## [106] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#000000"
## [113] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#000000"
## [120] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#000000"
## [127] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#000000"
## [134] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#000000"
## [141] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#000000"
## [148] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#000000"
## [155] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#000000"
## [162] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#000000"
## [169] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#000000"
## [176] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#000000"
## [183] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#000000"
## [190] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#000000"
## [197] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#000000"
## [204] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#000000"
## [211] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#000000"
## [218] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#000000"
## [225] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#000000"
## [232] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#000000"
## [239] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#000000"
## [246] "#000000" "#000000" "#000000" "#000000" "#000000" "#000000" "#000000"
## [253] "#000000" "#000000" "#000000" "#000000"
```

Recover our plot formatting

What's the @legend slot in our reproject, cropped object look like?

```
nlcd_WGS_crop@legend
```

```
## An object of class ".RasterLegend"
## Slot "type":
## character(0)
##
## Slot "values":
## logical(0)
##
## Slot "color":
## logical(0)
##
## Slot "names":
## logical(0)
##
## Slot "colortable":
## logical(0)
```

Recover our plot formatting

Well that's a bummer...

Is there a way we could transfer that information over to our reprojected, cropped raster?

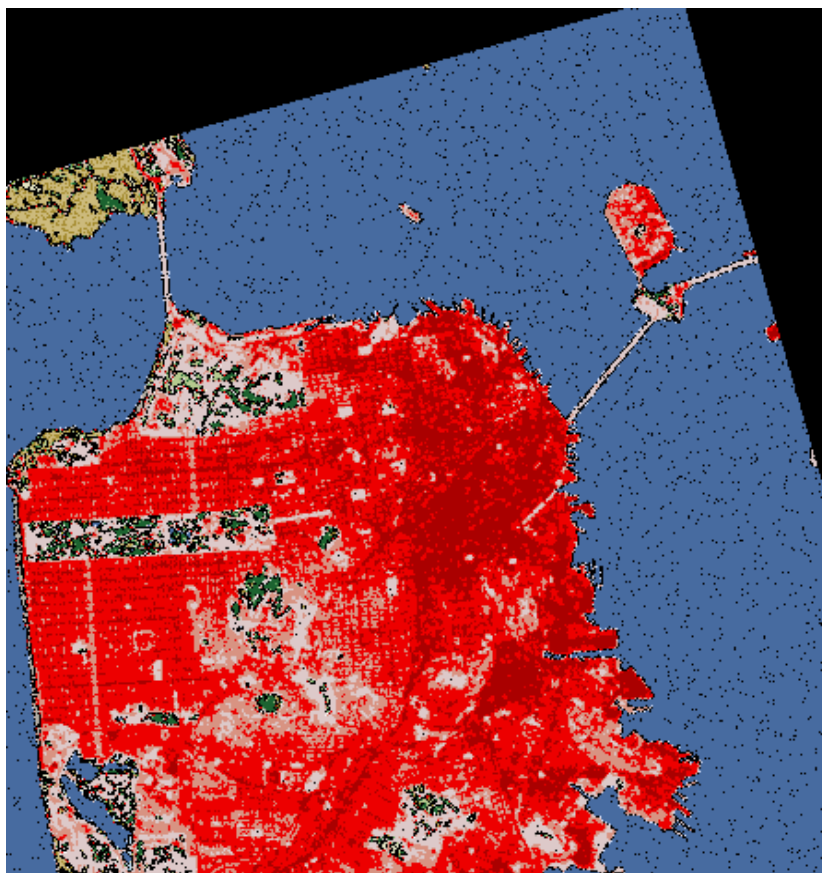
Challenge 3: Transferring our @legend info

Try to figure out how to transfer the @legend info from the original raster object to our new object. Then plot the new object to see if it worked.

Solution

Nice! Not necessary... but nice!

```
nlcd_WGS_crop@legend = nlcd@legend  
plot(nlcd_WGS_crop)
```



Reclassifying rasters

When we're working with a categorical raster, we'll often want to reclass our data. We may want to do this because:

- Our original data has more classifications than we actually need for our analysis.
- We want to represent the classifications we do have by a different numerical scheme because it somehow makes our analysis more convenient.

Reclass the NLCD

Let's reclass our NLCD data. First we'll need to define a reclassification matrix with 3 columns (low, high, to):

?reclassify

Define reclassification matrix

```
reclass_vec <- c(0, 20, NA, # water will be set to NA (i.e. 'left out' of our analysis)
                20, 21, 1, # we'll treat developed open space as greenspace, based on NLCD description
                21, 30, 0, # developed and hardscape will have 0s
                30, 31, NA,
                31, Inf, 1) # greenspace will have 1s
reclass_vec
```

```
## [1] 0 20 NA 20 21 1 21 30 0 30 31 NA 31 Inf 1
```

```
reclass_m <- matrix(reclass_vec, ncol = 3, byrow = TRUE)
reclass_m
```

```
##      [,1] [,2] [,3]
## [1,]    0   20  NA
## [2,]   20   21   1
## [3,]   21   30   0
## [4,]   30   31  NA
## [5,]   31  Inf   1
```

Reclassify the raster

```
nlcd_green <- reclassify(nlcd_WGS_crop, reclass_m)
```

Reclassify the raster

What did we get?

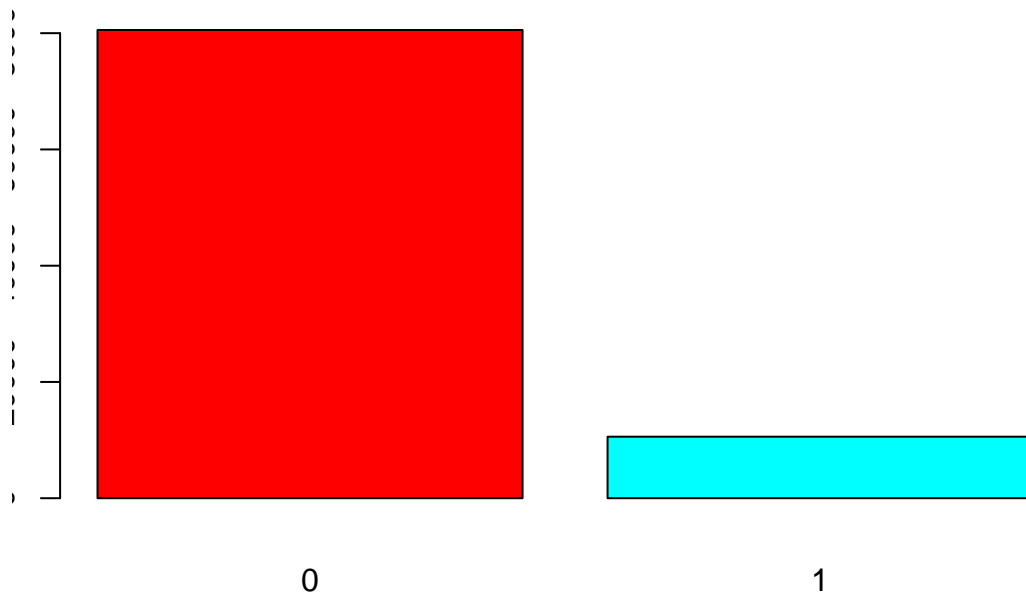
```
freq(nlcd_green)
```

```
##      value  count
## [1,]     0 80545
## [2,]     1 10582
## [3,]    NA 114479
```

Reclassify the raster

What did we get?

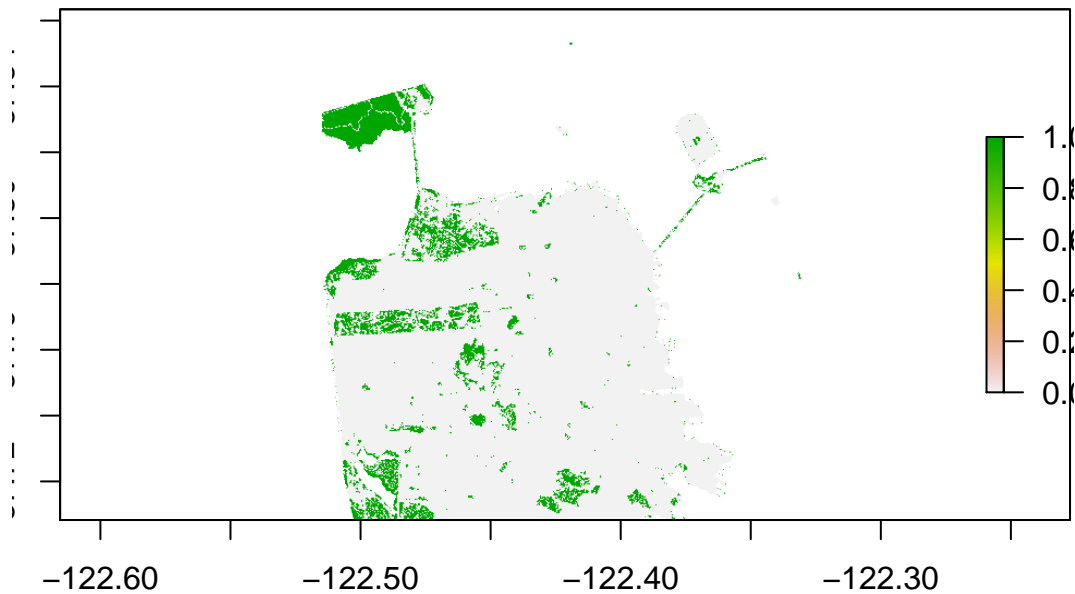
```
barplot(nlcd_green)
```



Reclassify the raster

What did we get?


```
plot(nlcd_green)
```



Challenge 4: Extract our NLCD data to our tract polygons

Just like we did earlier with our elevation data, let's extract our reclassified NLCD data to our census-tract polygons.

Solution

```
#extract the mean nlcd_simple values to tract polygons  
greenspace = extract(nlcd_green, sftracts, fun=mean)
```

What did we get?

```
greenspace
```

```
##           [,1]  
## [1,] 0.00000000  
## [2,] 0.00000000  
## [3,]          NA  
## [4,] 0.00000000  
## [5,] 0.00000000  
## [6,] 0.00000000  
## [7,] 0.00000000  
## [8,] 0.00000000  
## [9,] 0.00000000  
## [10,] 0.00000000  
## [11,] 0.00000000  
## [12,] 0.003773585  
## [13,] 0.055555556  
## [14,] 0.00000000  
## [15,] 0.00000000  
## [16,] 0.00000000
```

```

## [17,] 0.000000000
## [18,] 0.000000000
## [19,] 0.000000000
## [20,] 0.000000000
## [21,] 0.000000000
## [22,] 0.000000000
## [23,] 0.000000000
## [24,] 0.002762431
## [25,] 0.000000000
## [26,] 0.000000000
## [27,] 0.017482517
## [28,] 0.002159827
## [29,] 0.000000000
## [30,] 0.000000000
## [31,] 0.000000000
## [32,] 0.000000000
## [33,] 0.001628664
## [34,] 0.066889632
## [35,]      NA
## [36,] 0.000000000
## [37,] 0.006944444
## [38,] 0.008605852
## [39,] 0.008163265
## [40,] 0.007407407
## [41,] 0.000000000
## [42,] 0.000000000
## [43,] 0.050193050
## [44,] 0.000000000
## [45,] 0.000000000
## [46,] 0.000000000
## [47,] 0.000000000
## [48,] 0.000000000
## [49,] 0.015761821
## [50,]      NA
## [51,] 0.010810811
## [52,] 0.000000000
## [53,] 0.000000000
## [54,] 0.000000000
## [55,] 0.000000000
## [56,] 0.000000000
## [57,] 0.000000000
## [58,] 0.000000000
## [59,] 0.000000000
## [60,] 0.000000000
## [61,] 0.000000000
## [62,] 0.018867925
## [63,]      NA
## [64,] 0.000000000
## [65,] 0.000000000
## [66,] 0.000000000
## [67,]      NA
## [68,] 0.000000000
## [69,] 0.042471042
## [70,] 0.000000000

```

```

## [71,] 0.000000000
## [72,] 0.000000000
## [73,] 0.000000000
## [74,] 0.013953488
## [75,] 0.016129032
## [76,] 0.033582090
## [77,] 0.000000000
## [78,] 0.043478261
## [79,] 0.000000000
## [80,] 0.064220183
## [81,] 0.033254157
## [82,] 0.000000000
## [83,] 0.000000000
## [84,] 0.008968610
## [85,]          NA
## [86,] 0.000000000
## [87,] 0.000000000
## [88,] 0.000000000
## [89,] 0.000000000
## [90,] 0.000000000
## [91,]          NA
## [92,]          NA
## [93,] 0.000000000
## [94,] 0.000000000
## [95,] 0.032624113
## [96,] 0.000000000
## [97,] 0.000000000
## [98,] 0.000000000
## [99,]          NA
## [100,]         NA
## [101,]         NA
## [102,]         NA
## [103,] 0.000000000
## [104,]         NA
## [105,] 0.000000000
## [106,] 0.000000000
## [107,] 0.000000000
## [108,] 0.000000000
## [109,]         NA
## [110,] 0.000000000
## [111,] 0.058035714
## [112,]         NA
## [113,] 0.000000000
## [114,] 0.000000000
## [115,]         NA
## [116,] 0.000000000
## [117,] 0.012755102
## [118,] 0.000000000
## [119,] 0.004056795
## [120,]         NA
## [121,] 0.000000000
## [122,] 0.043209877
## [123,] 0.024258760
## [124,] 0.029562982

```

```
## [125,] 0.005555556
## [126,] 0.007722008
## [127,] 0.005504587
## [128,] 0.000000000
## [129,] 0.000000000
## [130,] NA
## [131,] 0.005444646
## [132,] 0.031746032
## [133,] 0.002969562
## [134,] 0.000000000
## [135,] 0.003992016
## [136,] 0.000000000
## [137,] 0.000000000
## [138,] 0.000000000
## [139,] NA
## [140,] 0.000000000
## [141,] 0.000000000
## [142,] 0.000000000
## [143,] 0.002906977
## [144,] NA
## [145,] NA
## [146,] NA
## [147,] 0.000000000
## [148,] NA
## [149,] NA
## [150,] 0.000000000
## [151,] 0.000000000
## [152,] 0.000000000
## [153,] 0.000000000
## [154,] 0.000000000
## [155,] 0.000000000
## [156,] 0.000000000
## [157,] 0.000000000
## [158,] 0.000000000
## [159,] 0.000000000
## [160,] 0.000000000
## [161,] 0.000000000
## [162,] NA
## [163,] 0.000000000
## [164,] 0.000000000
## [165,] 0.000000000
## [166,] NA
## [167,] NA
## [168,] 0.000000000
## [169,] 0.000000000
## [170,] 0.000000000
## [171,] 0.018335684
## [172,] NA
## [173,] 0.001703578
## [174,] 0.000000000
## [175,] 0.000000000
## [176,] NA
## [177,] NA
## [178,] 0.000000000
```

```
## [179,]      NA
## [180,] 0.000000000
## [181,] 0.000000000
## [182,]      NA
## [183,]      NA
## [184,] 0.000000000
## [185,] 0.000000000
## [186,] 0.000000000
## [187,] 0.000000000
## [188,] 0.000000000
## [189,]      NA
## [190,]      NA
## [191,] 0.006535948
## [192,] 0.000000000
## [193,]      NA
## [194,]      NA
## [195,]      NA
```

Why?

What's with all the NAs?

Remember, we set all water cells to NA, to ignore them in our analysis.

Challenge 5: How do we get extract to ignore our NAs?

Try to run the same command again, but telling the extract function to ignore NAs.

Solution

The `na.rm` argument will do this for us. See how the docs indicate that it is set to `FALSE` by default?

```
?raster::extract
```

Good to know! Also good to know that this is a common argument across a variety of R operations.

Solution

```
#extract the mean nlcd_simple values to tract polygons,
#this time setting na.rm to TRUE
greenspace = extract(nlcd_green, sftracts, fun=mean, na.rm = T)

#and add to our sftracts dataframe (which we can do because order is preserved)
sftracts$prop_greenspace = greenspace
```

Get the mean home values in each tract

Pulling code from the end of Part II of this workshop, let's aggregate our homes data to the tract level too.

```
#aggregate totvalue to sftracts
sftracts_w_mean_val = aggregate(x = SFhomes15_sf['totvalue'],
                                by = sftracts,
                                FUN = mean)
```

```
## although coordinates are longitude/latitude, st_intersects assumes that they are planar
```

```
#and add the totvalue column to our sftracts dataframe
sftracts$mean_totvalue = sftracts_w_mean_val$totvalue
```

Get the mean home values in each tract

```
qtm(sftracts_w_mean_val, fill = 'totvalue')
```

Predicting home values

Do mean elevation and proportion greenspace predict mean home values?

(Note: This is not a statistically valid model! Just a stand-in for downstream analysis.)

```
mod = lm(mean_totvalue ~ mean_elev + prop_greenspace, data = sftracts)
summary(mod)
```

```
##
## Call:
## lm(formula = mean_totvalue ~ mean_elev + prop_greenspace, data = sftracts)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -713126 -303774    9710   246766  1757701
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   1167067.1    61177.3   19.077  <2e-16 ***
## mean_elev       1343.2      832.9    1.613    0.109
## prop_greenspace -351753.5   369815.0  -0.951    0.343
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 377600 on 184 degrees of freedom
## (8 observations deleted due to missingness)
## Multiple R-squared:  0.01682,    Adjusted R-squared:  0.006136
## F-statistic: 1.574 on 2 and 184 DF,  p-value: 0.21
```

Predicting home values

Not at the census-tract level. But that's kind of coarse...

What if we want to do the analysis at the property level?

Here's a workflow that puts together a bunch of what we've learned over Parts I to III of the workshop!

```
#Take a random subset of our 2015 homes, to save on computer time
SFhomes15_sample = SFhomes15_sf[sample(seq(nrow(SFhomes15_sf)),
                                         replace = FALSE, size = 2000), ]
```

Predicting home values

Now let's reproject all our data to a UTM projection, so that we units of meters rather than decimal degrees.

```
#reproject
SFhomes15_utm <- st_transform(SFhomes15_sample, 26910)
DEM_utm = projectRaster(DEM,
```

```

        projectExtent(DEM,
                      crs(st_crs(SFhomes15_utm)$proj4string)))
nlcd_green_utm = projectRaster(nlcd_green,
                              projectExtent(nlcd_green,
                                             crs(st_crs(SFhomes15_utm)$proj4string)))

#check projections
st_crs(SFhomes15_utm) == st_crs(DEM_utm)

## [1] TRUE
st_crs(SFhomes15_utm) == st_crs(nlcd_green_utm)

## [1] TRUE

```

Predicting home values

Now let's buffer all our homes with a 100-meter buffer, then sum the greenspace within those buffers.

```

#create buffer
SFhomes15_utm_buff = st_buffer(SFhomes15_utm, dist = 100)

#sum the greenspace within the buffers
#NOTE: This will take a couple minutes to run...
greenspace_homes = extract(nlcd_green_utm, SFhomes15_utm_buff, fun = mean, na.rm = T)

#add that as a column in our SFhomes15_utm dataframe
SFhomes15_utm$greenspace = greenspace_homes

```

Predicting home values

And now let's extract the elevation at each home.

```

#extract the elevation to the homes
#NOTE: no need for fun or na.rm arguments here, because the homes
#and points, not polygons, so only a single cell will extract to each
elev_homes = extract(DEM_utm, SFhomes15_utm)

#add that as a column in our SFhomes15_utm dataframe too
SFhomes15_utm$elev = elev_homes

```

Predicting home values

Now, how about that regression model?

```
mod = lm(totvalue ~ elev + greenspace, data = SFhomes15_utm)
```

Predicting home values

Mehhh... Some signal for elevation, but a very low R^2 .

But again, this is just a stand-in for downstream analysis.

```
summary(mod)
```

```
##
## Call:
```

```
## lm(formula = totvalue ~ elev + greenspace, data = SFhomes15_utm)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1174121  -397461  -105888   275897  1752581
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) 1208029.7    22342.3   54.069 < 2e-16 ***
## elev          793.8       306.5    2.589  0.00968 **
## greenspace -148405.3    258053.7   -0.575  0.56529
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 549500 on 1997 degrees of freedom
## Multiple R-squared:  0.003366, Adjusted R-squared:  0.002367
## F-statistic: 3.372 on 2 and 1997 DF, p-value: 0.03452
```

Questions?

Section 3: RasterStacks and RasterBricks

RasterStacks

What about working with multiple rasters?

Fog data

Data on summertime coastal fog in CA (a.k.a. Karl)

```
##(from http://climate.calcommons.org/dataset/monthly-summertime-fog)
##(units are in average hours per day)
karl_files = unique(gsub('.aux.xml', '', list.files('./data/CalMnYr'))))
karl_files = karl_files[grep('flcc', karl_files)]

# Take a look
karl_files
```

```
## [1] "flcc1999aug" "flcc1999jul" "flcc1999jun" "flcc1999sep" "flcc2000aug"
## [6] "flcc2000jul" "flcc2000jun" "flcc2000sep" "flcc2001jul" "flcc2001jun"
## [11] "flcc2001sep" "flcc2002aug" "flcc2002jul" "flcc2002jun" "flcc2002sep"
## [16] "flcc2003aug" "flcc2003jul" "flcc2003jun" "flcc2003sep" "flcc2004aug"
## [21] "flcc2004jul" "flcc2004jun" "flcc2004sep" "flcc2005aug" "flcc2005jul"
## [26] "flcc2005jun" "flcc2005sep" "flcc2006aug" "flcc2006jul" "flcc2006sep"
## [31] "flcc2007aug" "flcc2007jul" "flcc2007jun" "flcc2007sep" "flcc2008aug"
## [36] "flcc2008jul" "flcc2008jun" "flcc2008sep" "flcc2009aug" "flcc2009jul"
## [41] "flcc2009jun" "flcc2009sep"
```

RasterStack

Read all of the KARL files into one RasterStack object

```
karl <- stack(paste0('./data/CalMnYr/', karl_files))

# look at what we made!
karl
```

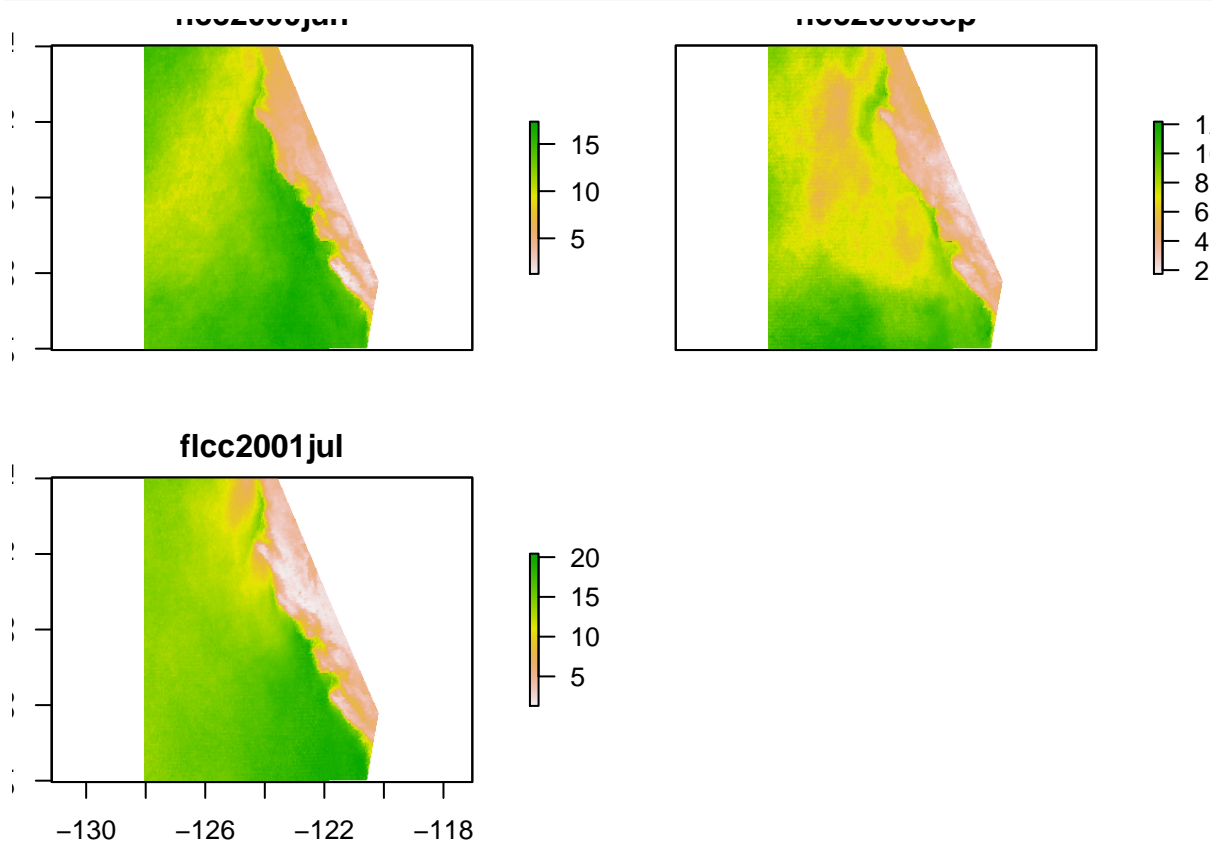


```
## class      : RasterStack
## dimensions : 256, 250, 64000, 42  (nrow, ncol, ncell, nlayers)
## resolution : 0.0314827, 0.0314827  (x, y)
## extent     : -128.0284, -120.1578, 33.96418, 42.02375  (xmin, xmax, ymin, ymax)
## crs        : +proj=longlat +datum=NAD83 +no_defs +ellps=GRS80 +towgs84=0,0,0
## names      : flcc1999aug, flcc1999jul, flcc1999jun, flcc1999sep, flcc2000aug, flcc2000jul, flcc2000j
## min values  :      1.85,      0.56,      1.69,      0.26,      0.78,      1.05,      1.2
## max values  :     15.72,     18.56,     17.84,     18.26,     14.84,     18.21,     17.3
```

A **RasterStack** object - literally what it sounds like!

Plot the Stack

```
#plot a few
plot(karl[[7:9]])
```



CRS

What's the projection of the RasterStack?

```
#what's the projection?
st_crs(karl)
```

```
## Coordinate Reference System:
##   EPSG: 4269
##   proj4string: "+proj=longlat +ellps=GRS80 +towgs84=0,0,0,0,0,0,0 +no_defs"
```

CRS Transformation

Let's reproject this

```
karl_WGS = projectRaster(karl, projectExtent(karl, crs(st_crs(sftracts)$proj4string)))

# check resultant CRS
st_crs(karl_WGS) == st_crs(sftracts)

## [1] FALSE
```

What did we get?

What type of spatial object did that give us?

```
karl_WGS

## class      : RasterBrick
## dimensions : 256, 250, 64000, 42  (nrow, ncol, ncell, nlayers)
## resolution : 0.0314827, 0.0314827  (x, y)
## extent     : -128.0284, -120.1578, 33.96418, 42.02375  (xmin, xmax, ymin, ymax)
## crs        : +proj=longlat +datum=NAD83 +no_defs +ellps=GRS80 +towgs84=0,0,0
## source     : /tmp/RtmpfKygx6/raster/r_tmp_2019-10-20_134253_30971_25628.grd
## names      : flcc1999aug, flcc1999jul, flcc1999jun, flcc1999sep, flcc2000aug, flcc2000jul, flcc2000j
## min values :      1.85,      0.56,      1.69,      0.26,      0.78,      1.05,      1.
## max values :     15.72,     18.56,     17.84,     18.26,     14.84,     18.21,     17.3
```

RasterBrick

A RasterBrick. What does that mean?

```
# See the documentation!
?raster::brick
```

Crop the Brick

Crop it to the extent of our area of interest - SF

```
# Crop it to sftracts
karl_WGS_crop = crop(karl_WGS, sftracts)
```

#Note that R vectorized that operation across our entire RasterBrick, the same way that it vectorizes m

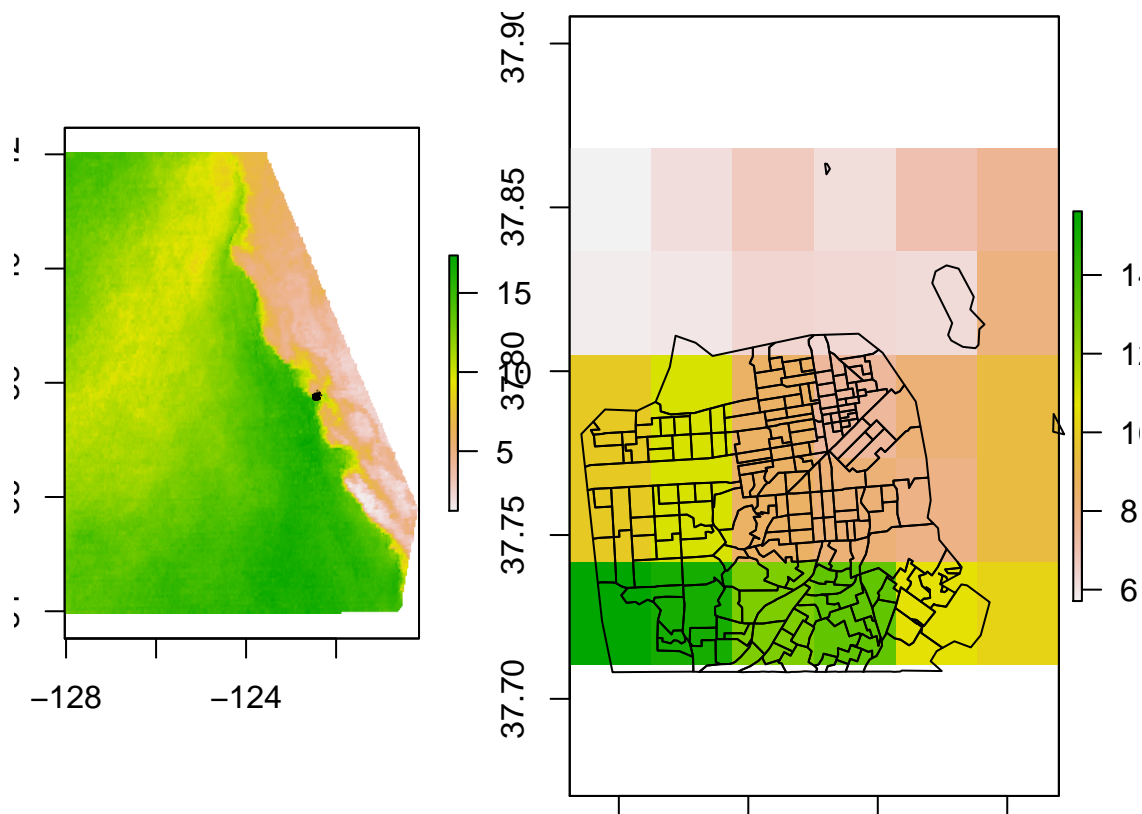
Plot it

```
# now let's make our same plot again
par(mfrow = c(1,2))
plot(karl_WGS[[7]])
plot(sftracts, add = T, reset=F, key.pos = NULL, col = NA)

## Warning in plot.sf(sftracts, add = T, reset = F, key.pos = NULL, col = NA):
## ignoring all but the first attribute

plot(karl_WGS_crop[[7]])
plot(sftracts, add = T, reset = F, key.pos = NULL, col = NA)

## Warning in plot.sf(sftracts, add = T, reset = F, key.pos = NULL, col = NA):
## ignoring all but the first attribute
```



Mean Fog

Let's mean the karl values across the RasterBrick

```
# Mean values
mean_karl_WGS_crop = mean(karl_WGS_crop)
```

What did that give us?

```
mean_karl_WGS_crop

## class      : RasterLayer
## dimensions : 5, 6, 30 (nrow, ncol, ncell)
## resolution : 0.0314827, 0.0314827 (x, y)
## extent      : -122.519, -122.3301, 37.71062, 37.86803 (xmin, xmax, ymin, ymax)
## crs         : +proj=longlat +datum=NAD83 +no_defs +ellps=GRS80 +towgs84=0,0,0
## source      : memory
## names       : layer
## values      : 4.71, 12.3719 (min, max)
```

RasterBrick to Raster

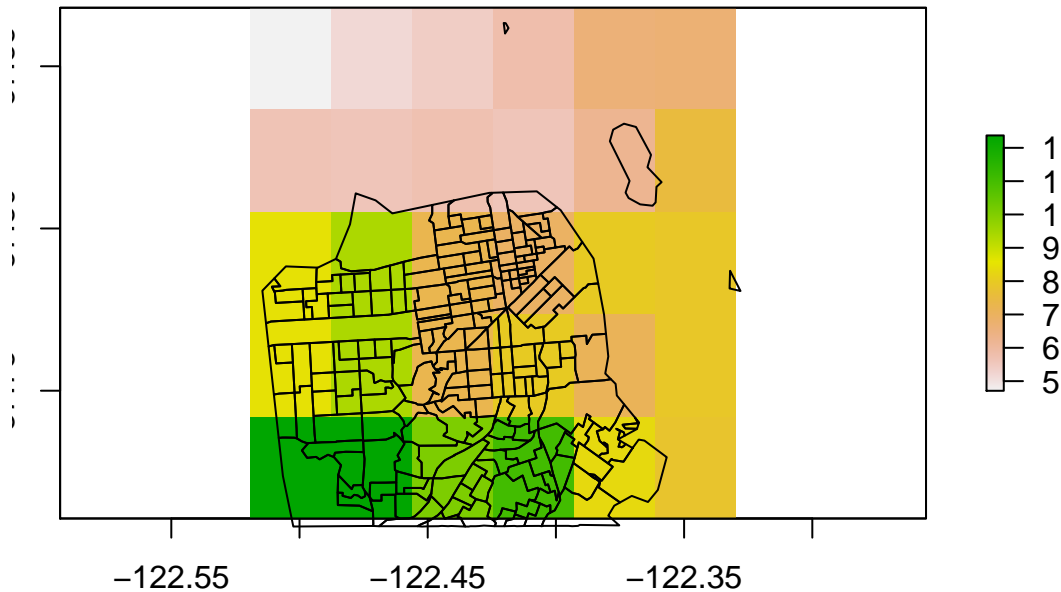
When we computed the mean of a RasterBrick we got back a RasterLayer object! That makes sense, because we took cellwise means across all Layers in our Brick.

This is called raster algebra

Plot it

```
plot(mean_karl_WGS_crop)
plot(sftracts, add = T, col = NA)
```

```
## Warning in plot.sf(sftracts, add = T, col = NA): ignoring all but the first
## attribute
```



BUT

Not all common operations successfully run as raster algebra

```
# This won't work
```

```
sd_karl_WGS_crop = sd(karl_WGS_crop)
```

Let's try this instead

```
sd_karl_WGS_crop = calc(karl_WGS_crop, sd)
```

Plot it

```
#plot that too
```

```
par(mfrow = c(1,2))
```

```
plot(mean_karl_WGS_crop)
```

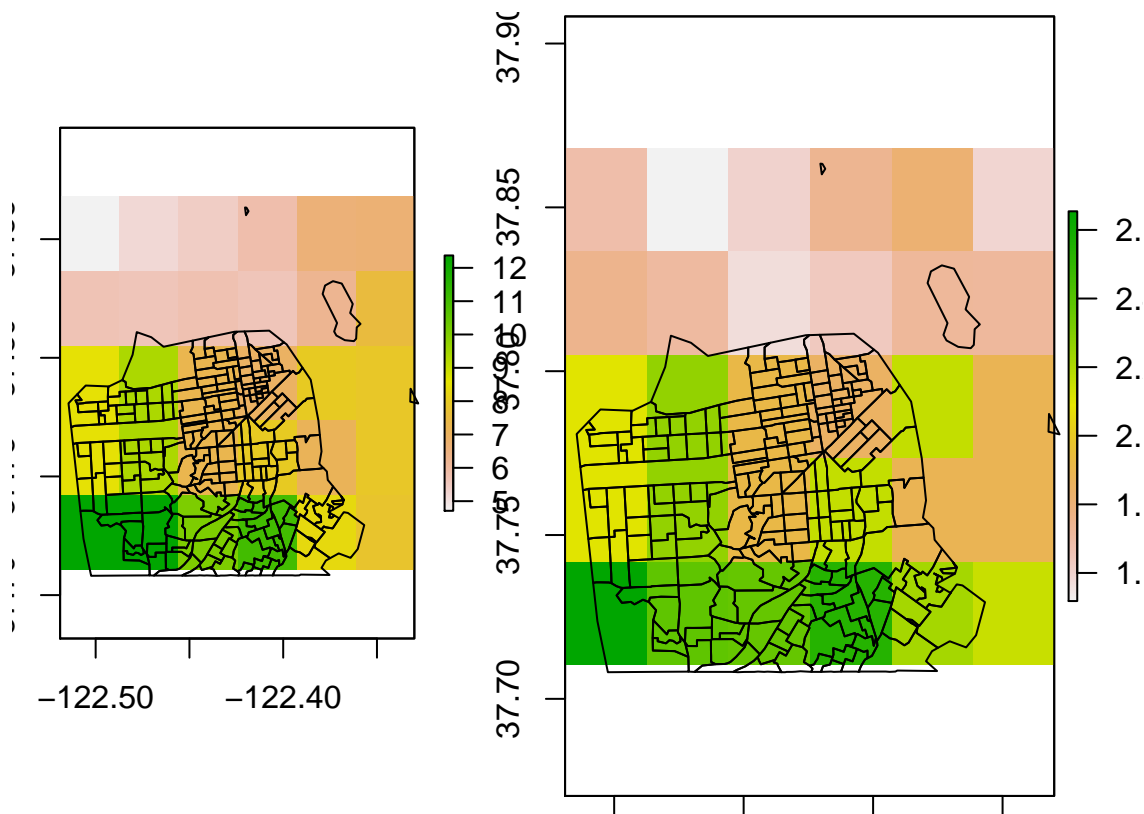
```
plot(sftracts, add = T, reset=F, key.pos=NULL, col = NA)
```

```
## Warning in plot.sf(sftracts, add = T, reset = F, key.pos = NULL, col = NA):
## ignoring all but the first attribute
```

```
plot(sd_karl_WGS_crop)
```

```
plot(sftracts, add = T, reset=F, key.pos=NULL, col = NA)
```

```
## Warning in plot.sf(sftracts, add = T, reset = F, key.pos = NULL, col = NA):
## ignoring all but the first attribute
```



Thoughts...

Looks like the foggiest neighborhoods also have the highest variation in fog, but some less foggy neighborhoods on the east side of the city (e.g. The Inner Mission, Bayview) also vary quite a bit

Extract Mean Values

Extract fog values to our tracts

```
sftracts$mean_karl = extract(mean_karl_WGS_crop, sftracts, mean)
```

Explore Spatial Relationships

Maybe fogginess is a function of elevation? That would make sense, right?

```
# Linear regression model
mod = lm(mean_karl ~ mean_elev, data = sftracts)
```

View results

```
summary(mod)
```

```
##
## Call:
## lm(formula = mean_karl ~ mean_elev, data = sftracts)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
```

```
## -2.0659 -1.2745 -0.3786  0.9346  4.2184
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept) 7.830075    0.242622  32.273 < 2e-16 ***
## mean_elev   0.009123    0.003334   2.736 0.00685 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.491 on 180 degrees of freedom
## (13 observations deleted due to missingness)
## Multiple R-squared:  0.03992,    Adjusted R-squared:  0.03459
## F-statistic: 7.485 on 1 and 180 DF,  p-value: 0.006845
```

Comments

Neat!

Census-tract mean elevation has a significant, positive effect on mean fogginess (with each meter increase in elevation causing on average a .011 hour, or about 39-second increase in time spent in fog on an average summer day.

Though this barely explains about 4% of the variance in our data!

Of course, again, these are **not statistically valid models!** Just analytical stand-ins.

Questions?

Additional Resources

- The **raster** package vignettes
- A National Ecological Observatory Network tutorial
- A National Center for Ecological Analysis and Synthesis tutorial
- A Wageningen University & Research tutorial