27765369 Assignment 3

Ian Tongs

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Import some useful libraries:

```
#library(hrbrthemes)
library(viridis)
library(dplyr)
library(readr)
library(tidyverse)
library(ggplot2)
library(gridExtra)
library(grid)
library(cowplot)
library(keras)
library(ggpubr)
```

Import Data:

```r
# Import dataset as specified in the tute:
mnist <- dataset_mnist()
x_train <- mnist$train$x
y_train <- mnist$train$y
x_test <- mnist$test$x
y_test <- mnist$test$y


## Re-arrange dataset:
# reshape
x_train <- array_reshape(x_train, c(nrow(x_train), 784))
x_test <- array_reshape(x_test, c(nrow(x_test), 784))
# rescale
x_train <- x_train / 255
x_test <- x_test / 255

# Categorise output data:
y_train
```

```
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##    [17,]     0    0    1    0    0    0    0    0    0     0
##    [18,]     0    0    0    0    0    0    0    0    1     0
##    [19,]     0    0    0    0    0    0    1    0    0     0
##    [20,]     0    0    0    0    0    0    0    0    0     1
##    [21,]     0    0    0    0    1    0    0    0    0     0
##    [22,]     1    0    0    0    0    0    0    0    0     0
##    [23,]     0    0    0    0    0    0    0    0    0     1
##    [24,]     0    1    0    0    0    0    0    0    0     0
##    [25,]     0    1    0    0    0    0    0    0    0     0
##    [26,]     0    0    1    0    0    0    0    0    0     0
##    [27,]     0    0    0    0    1    0    0    0    0     0
##    [28,]     0    0    0    1    0    0    0    0    0     0
##    [29,]     0    0    1    0    0    0    0    0    0     0
##    [30,]     0    0    0    0    0    0    0    1    0     0
##    [31,]     0    0    0    1    0    0    0    0    0     0
##    [32,]     0    0    0    0    0    0    0    0    1     0
##    [33,]     0    0    0    0    0    0    1    0    0     0
##    [34,]     0    0    0    0    0    0    0    0    0     1
##    [35,]     1    0    0    0    0    0    0    0    0     0
##    [36,]     0    0    0    0    0    1    0    0    0     0
```

```
## [37,]    0    0    0    0    0    0    1    0    0    0
## [38,]    1    0    0    0    0    0    0    0    0    0
## [39,]    0    0    0    0    0    0    0    1    0    0
## [40,]    0    0    0    0    0    0    1    0    0    0
## [41,]    0    1    0    0    0    0    0    0    0    0
## [42,]    0    0    0    0    0    0    0    0    1    0
## [43,]    0    0    0    0    0    0    0    1    0    0
## [44,]    0    0    0    0    0    0    0    0    0    1
## [45,]    0    0    0    1    0    0    0    0    0    0
## [46,]    0    0    0    0    0    0    0    0    0    1
## [47,]    0    0    0    0    0    0    0    0    1    0
## [48,]    0    0    0    0    0    1    0    0    0    0
## [49,]    0    0    0    0    0    0    0    0    0    1
## [50,]    0    0    0    1    0    0    0    0    0    0
## [51,]    0    0    0    1    0    0    0    0    0    0
## [52,]    1    0    0    0    0    0    0    0    0    0
## [53,]    0    0    0    0    0    0    0    1    0    0
## [54,]    0    0    0    0    1    0    0    0    0    0
## [55,]    0    0    0    0    0    0    0    0    0    1
## [56,]    0    0    0    0    0    0    0    0    1    0
## [57,]    1    0    0    0    0    0    0    0    0    0
## [58,]    0    0    0    0    0    0    0    0    0    1
## [59,]    0    0    0    0    1    0    0    0    0    0
## [60,]    0    1    0    0    0    0    0    0    0    0
## [61,]    0    0    0    0    1    0    0    0    0    0
## [62,]    0    0    0    0    1    0    0    0    0    0
## [63,]    0    0    0    0    0    0    1    0    0    0
## [64,]    1    0    0    0    0    0    0    0    0    0
## [65,]    0    0    0    0    1    0    0    0    0    0
## [66,]    0    0    0    0    0    1    0    0    0    0
## [67,]    0    0    0    0    0    0    1    0    0    0
## [68,]    0    1    0    0    0    0    0    0    0    0
## [69,]    1    0    0    0    0    0    0    0    0    0
## [70,]    1    0    0    0    0    0    0    0    0    0
## [71,]    0    1    0    0    0    0    0    0    0    0
## [72,]    0    0    0    0    0    0    0    1    0    0
## [73,]    0    1    0    0    0    0    0    0    0    0
## [74,]    0    0    0    0    0    0    1    0    0    0
## [75,]    0    0    0    1    0    0    0    0    0    0
## [76,]    1    0    0    0    0    0    0    0    0    0
## [77,]    0    0    1    0    0    0    0    0    0    0
## [78,]    0    1    0    0    0    0    0    0    0    0
## [79,]    0    1    0    0    0    0    0    0    0    0
## [80,]    0    0    0    0    0    0    0    1    0    0
## [81,]    0    0    0    0    0    0    0    0    0    1
## [82,]    1    0    0    0    0    0    0    0    0    0
## [83,]    0    0    1    0    0    0    0    0    0    0
## [84,]    0    0    0    0    0    0    1    0    0    0
## [85,]    0    0    0    0    0    0    0    1    0    0
## [86,]    0    0    0    0    0    0    0    0    1    0
## [87,]    0    0    0    1    0    0    0    0    0    0
## [88,]    0    0    0    0    0    0    0    0    0    1
## [89,]    1    0    0    0    0    0    0    0    0    0
## [90,]    0    0    0    0    1    0    0    0    0    0
```

```
##    [91,]   0   0   0   0   0   0   1   0   0   0
##    [92,]   0   0   0   0   0   0   0   1   0   0
##    [93,]   0   0   0   0   1   0   0   0   0   0
##    [94,]   0   0   0   0   0   0   1   0   0   0
##    [95,]   0   0   0   0   0   0   0   0   1   0
##    [96,]   1   0   0   0   0   0   0   0   0   0
##    [97,]   0   0   0   0   0   0   0   1   0   0
##    [98,]   0   0   0   0   0   0   0   0   1   0
##    [99,]   0   0   0   1   0   0   0   0   0   0
##   [100,]   0   1   0   0   0   0   0   0   0   0
##   [101,]   0   0   0   0   0   1   0   0   0   0
##   [102,]   0   0   0   0   0   0   0   1   0   0
##   [103,]   0   1   0   0   0   0   0   0   0   0
##   [104,]   0   0   0   0   0   0   0   1   0   0
##   [105,]   0   1   0   0   0   0   0   0   0   0
##   [106,]   0   1   0   0   0   0   0   0   0   0
##   [107,]   0   0   0   0   0   0   1   0   0   0
##   [108,]   0   0   0   1   0   0   0   0   0   0
##   [109,]   1   0   0   0   0   0   0   0   0   0
##   [110,]   0   0   1   0   0   0   0   0   0   0
##   [111,]   0   0   0   0   0   0   0   0   0   1
##   [112,]   0   0   0   1   0   0   0   0   0   0
##   [113,]   0   1   0   0   0   0   0   0   0   0
##   [114,]   0   1   0   0   0   0   0   0   0   0
##   [115,]   1   0   0   0   0   0   0   0   0   0
##   [116,]   0   0   0   0   1   0   0   0   0   0
##   [117,]   0   0   0   0   0   0   0   0   0   1
##   [118,]   0   0   1   0   0   0   0   0   0   0
##   [119,]   1   0   0   0   0   0   0   0   0   0
##   [120,]   1   0   0   0   0   0   0   0   0   0
##   [121,]   0   0   1   0   0   0   0   0   0   0
##   [122,]   1   0   0   0   0   0   0   0   0   0
##   [123,]   0   0   1   0   0   0   0   0   0   0
##   [124,]   0   0   0   0   0   0   0   1   0   0
##   [125,]   0   1   0   0   0   0   0   0   0   0
##   [126,]   0   0   0   0   0   0   0   0   1   0
##   [127,]   0   0   0   0   0   0   1   0   0   0
##   [128,]   0   0   0   0   1   0   0   0   0   0
##   [129,]   0   1   0   0   0   0   0   0   0   0
##   [130,]   0   0   0   0   0   0   1   0   0   0
##   [131,]   0   0   0   1   0   0   0   0   0   0
##   [132,]   0   0   0   0   1   0   0   0   0   0
##   [133,]   0   0   0   0   0   1   0   0   0   0
##   [134,]   0   0   0   0   0   0   0   0   0   1
##   [135,]   0   1   0   0   0   0   0   0   0   0
##   [136,]   0   0   0   1   0   0   0   0   0   0
##   [137,]   0   0   0   1   0   0   0   0   0   0
##   [138,]   0   0   0   0   0   0   0   0   1   0
##   [139,]   0   0   0   0   0   1   0   0   0   0
##   [140,]   0   0   0   0   1   0   0   0   0   0
##   [141,]   0   0   0   0   0   0   0   1   0   0
##   [142,]   0   0   0   0   0   0   0   1   0   0
##   [143,]   0   0   0   0   1   0   0   0   0   0
##   [144,]   0   0   1   0   0   0   0   0   0   0
```

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```
## [145,]    0    0    0    0    0    0    0    0    1    0
## [146,]    0    0    0    0    0    1    0    0    0    0
## [147,]    0    0    0    0    0    0    0    0    1    0
## [148,]    0    0    0    0    0    0    1    0    0    0
## [149,]    0    0    0    0    0    0    0    1    0    0
## [150,]    0    0    0    1    0    0    0    0    0    0
## [151,]    0    0    0    0    1    0    0    0    0    0
## [152,]    0    0    0    0    0    0    1    0    0    0
## [153,]    0    1    0    0    0    0    0    0    0    0
## [154,]    0    0    0    0    0    0    0    0    0    1
## [155,]    0    0    0    0    0    0    0    0    0    1
## [156,]    0    0    0    0    0    0    1    0    0    0
## [157,]    1    0    0    0    0    0    0    0    0    0
## [158,]    0    0    0    1    0    0    0    0    0    0
## [159,]    0    0    0    0    0    0    0    1    0    0
## [160,]    0    0    1    0    0    0    0    0    0    0
## [161,]    0    0    0    0    0    0    0    0    1    0
## [162,]    0    0    1    0    0    0    0    0    0    0
## [163,]    0    0    0    0    0    0    0    0    0    1
## [164,]    0    0    0    0    1    0    0    0    0    0
## [165,]    0    0    0    0    1    0    0    0    0    0
## [166,]    0    0    0    0    0    0    1    0    0    0
## [167,]    0    0    0    0    1    0    0    0    0    0
## [168,]    0    0    0    0    0    0    0    0    0    1
## [169,]    0    0    0    0    0    0    0    1    0    0
## [170,]    1    0    0    0    0    0    0    0    0    0
## [171,]    0    0    0    0    0    0    0    0    0    1
## [172,]    0    0    1    0    0    0    0    0    0    0
## [173,]    0    0    0    0    0    0    0    0    0    1
## [174,]    0    0    0    0    0    1    0    0    0    0
## [175,]    0    1    0    0    0    0    0    0    0    0
## [176,]    0    0    0    0    0    1    0    0    0    0
## [177,]    0    0    0    0    0    0    0    0    0    1
## [178,]    0    1    0    0    0    0    0    0    0    0
## [179,]    0    0    1    0    0    0    0    0    0    0
## [180,]    0    0    0    1    0    0    0    0    0    0
## [181,]    0    0    1    0    0    0    0    0    0    0
## [182,]    0    0    0    1    0    0    0    0    0    0
## [183,]    0    0    0    0    0    1    0    0    0    0
## [184,]    0    0    0    0    0    0    0    0    0    1
## [185,]    0    1    0    0    0    0    0    0    0    0
## [186,]    0    0    0    0    0    0    0    1    0    0
## [187,]    0    0    0    0    0    0    1    0    0    0
## [188,]    0    0    1    0    0    0    0    0    0    0
## [189,]    0    0    0    0    0    0    0    0    1    0
## [190,]    0    0    1    0    0    0    0    0    0    0
## [191,]    0    0    1    0    0    0    0    0    0    0
## [192,]    0    0    0    0    0    1    0    0    0    0
## [193,]    1    0    0    0    0    0    0    0    0    0
## [194,]    0    0    0    0    0    0    0    1    0    0
## [195,]    0    0    0    0    1    0    0    0    0    0
## [196,]    0    0    0    0    0    0    0    0    0    1
## [197,]    0    0    0    0    0    0    0    1    0    0
## [198,]    0    0    0    0    0    0    0    0    1    0
```

```
##   [199,]  0  0  0  1  0  0  0  0  0  0
##   [200,]  0  0  1  0  0  0  0  0  0  0
##   [201,]  0  1  0  0  0  0  0  0  0  0
##   [202,]  0  1  0  0  0  0  0  0  0  0
##   [203,]  0  0  0  0  0  0  0  0  1  0
##   [204,]  0  0  0  1  0  0  0  0  0  0
##   [205,]  0  0  0  0  0  0  1  0  0  0
##   [206,]  0  1  0  0  0  0  0  0  0  0
##   [207,]  1  0  0  0  0  0  0  0  0  0
##   [208,]  0  0  0  1  0  0  0  0  0  0
##   [209,]  0  1  0  0  0  0  0  0  0  0
##   [210,]  1  0  0  0  0  0  0  0  0  0
##   [211,]  1  0  0  0  0  0  0  0  0  0
##   [212,]  0  1  0  0  0  0  0  0  0  0
##   [213,]  0  0  0  0  0  0  0  1  0  0
##   [214,]  0  0  1  0  0  0  0  0  0  0
##   [215,]  0  0  0  0  0  0  0  1  0  0
##   [216,]  0  0  0  1  0  0  0  0  0  0
##   [217,]  1  0  0  0  0  0  0  0  0  0
##   [218,]  0  0  0  0  1  0  0  0  0  0
##   [219,]  0  0  0  0  0  0  1  0  0  0
##   [220,]  0  0  0  0  0  1  0  0  0  0
##   [221,]  0  0  1  0  0  0  0  0  0  0
##   [222,]  0  0  0  0  0  0  1  0  0  0
##   [223,]  0  0  0  0  1  0  0  0  0  0
##   [224,]  0  0  0  0  0  0  0  1  0  0
##   [225,]  0  1  0  0  0  0  0  0  0  0
##   [226,]  0  0  0  0  0  0  0  0  1  0
##   [227,]  0  0  0  0  0  0  0  0  0  1
##   [228,]  0  0  0  0  0  0  0  0  0  1
##   [229,]  0  0  0  1  0  0  0  0  0  0
##   [230,]  1  0  0  0  0  0  0  0  0  0
##   [231,]  0  0  0  0  0  0  0  1  0  0
##   [232,]  0  1  0  0  0  0  0  0  0  0
##   [233,]  1  0  0  0  0  0  0  0  0  0
##   [234,]  0  0  1  0  0  0  0  0  0  0
##   [235,]  1  0  0  0  0  0  0  0  0  0
##   [236,]  0  0  0  1  0  0  0  0  0  0
##   [237,]  0  0  0  0  0  1  0  0  0  0
##   [238,]  0  0  0  0  1  0  0  0  0  0
##   [239,]  0  0  0  0  0  0  1  0  0  0
##   [240,]  0  0  0  0  0  1  0  0  0  0
##   [241,]  0  0  0  0  0  0  0  0  1  0
##   [242,]  0  0  0  0  0  0  1  0  0  0
##   [243,]  0  0  0  1  0  0  0  0  0  0
##   [244,]  0  0  0  0  0  0  0  1  0  0
##   [245,]  0  0  0  0  0  1  0  0  0  0
##   [246,]  0  0  0  0  0  0  0  0  1  0
##   [247,]  1  0  0  0  0  0  0  0  0  0
##   [248,]  0  0  0  0  0  0  0  0  0  1
##   [249,]  0  1  0  0  0  0  0  0  0  0
##   [250,]  1  0  0  0  0  0  0  0  0  0
##   [251,]  0  0  0  1  0  0  0  0  0  0
##   [252,]  0  1  0  0  0  0  0  0  0  0
```

```
##   [253,]   0   0   1   0   0   0   0   0   0   0
##   [254,]   0   0   1   0   0   0   0   0   0   0
##   [255,]   0   0   0   1   0   0   0   0   0   0
##   [256,]   0   0   0   1   0   0   0   0   0   0
##   [257,]   0   0   0   0   0   0   1   0   0   0
##   [258,]   0   0   0   0   1   0   0   0   0   0
##   [259,]   0   0   0   0   0   0   0   1   0   0
##   [260,]   0   0   0   0   0   1   0   0   0   0
##   [261,]   1   0   0   0   0   0   0   0   0   0
##   [262,]   0   0   0   0   0   0   1   0   0   0
##   [263,]   0   0   1   0   0   0   0   0   0   0
##   [264,]   0   0   0   0   0   0   0   1   0   0
##   [265,]   0   0   0   0   0   0   0   0   0   1
##   [266,]   0   0   0   0   0   0   0   0   1   0
##   [267,]   0   0   0   0   0   1   0   0   0   0
##   [268,]   0   0   0   0   0   0   0   0   0   1
##   [269,]   0   0   1   0   0   0   0   0   0   0
##   [270,]   0   1   0   0   0   0   0   0   0   0
##   [271,]   0   1   0   0   0   0   0   0   0   0
##   [272,]   0   0   0   0   1   0   0   0   0   0
##   [273,]   0   0   0   0   1   0   0   0   0   0
##   [274,]   0   0   0   0   0   1   0   0   0   0
##   [275,]   0   0   0   0   0   0   1   0   0   0
##   [276,]   0   0   0   0   1   0   0   0   0   0
##   [277,]   0   1   0   0   0   0   0   0   0   0
##   [278,]   0   0   1   0   0   0   0   0   0   0
##   [279,]   0   0   0   0   0   1   0   0   0   0
##   [280,]   0   0   0   1   0   0   0   0   0   0
##   [281,]   0   0   0   0   0   0   0   0   0   1
##   [282,]   0   0   0   1   0   0   0   0   0   0
##   [283,]   0   0   0   0   0   0   0   0   0   1
##   [284,]   1   0   0   0   0   0   0   0   0   0
##   [285,]   0   0   0   0   0   1   0   0   0   0
##   [286,]   0   0   0   0   0   0   0   0   0   1
##   [287,]   0   0   0   0   0   0   1   0   0   0
##   [288,]   0   0   0   0   0   1   0   0   0   0
##   [289,]   0   0   0   0   0   0   0   1   0   0
##   [290,]   0   0   0   0   1   0   0   0   0   0
##   [291,]   0   1   0   0   0   0   0   0   0   0
##   [292,]   0   0   0   1   0   0   0   0   0   0
##   [293,]   0   0   0   0   1   0   0   0   0   0
##   [294,]   1   0   0   0   0   0   0   0   0   0
##   [295,]   0   0   0   0   1   0   0   0   0   0
##   [296,]   0   0   0   0   0   0   0   0   1   0
##   [297,]   1   0   0   0   0   0   0   0   0   0
##   [298,]   0   0   0   0   1   0   0   0   0   0
##   [299,]   0   0   0   1   0   0   0   0   0   0
##   [300,]   0   0   0   0   0   0   1   0   0   0
##   [301,]   0   0   0   0   0   0   0   0   1   0
##   [302,]   0   0   0   0   0   0   0   1   0   0
##   [303,]   0   0   0   0   0   0   1   0   0   0
##   [304,]   1   0   0   0   0   0   0   0   0   0
##   [305,]   0   0   0   0   0   0   0   0   0   1
##   [306,]   0   0   0   0   0   0   0   1   0   0
```

```
## [307,]    0    0    0    0    0    1    0    0    0    0
## [308,]    0    0    0    0    0    0    0    1    0    0
## [309,]    0    0    1    0    0    0    0    0    0    0
## [310,]    0    1    0    0    0    0    0    0    0    0
## [311,]    0    1    0    0    0    0    0    0    0    0
## [312,]    0    0    0    0    0    0    1    0    0    0
## [313,]    0    0    0    0    0    0    0    0    1    0
## [314,]    0    0    0    0    0    0    0    0    0    1
## [315,]    0    0    0    0    1    0    0    0    0    0
## [316,]    0    1    0    0    0    0    0    0    0    0
## [317,]    0    0    0    0    0    1    0    0    0    0
## [318,]    0    0    1    0    0    0    0    0    0    0
## [319,]    0    0    1    0    0    0    0    0    0    0
## [320,]    0    0    0    0    0    0    0    0    0    1
## [321,]    1    0    0    0    0    0    0    0    0    0
## [322,]    0    0    0    1    0    0    0    0    0    0
## [323,]    0    0    0    0    0    0    0    0    0    1
## [324,]    0    0    0    0    0    0    1    0    0    0
## [325,]    0    0    0    0    0    0    0    1    0    0
## [326,]    0    0    1    0    0    0    0    0    0    0
## [327,]    1    0    0    0    0    0    0    0    0    0
## [328,]    0    0    0    1    0    0    0    0    0    0
## [329,]    0    0    0    0    0    1    0    0    0    0
## [330,]    0    0    0    0    1    0    0    0    0    0
## [331,]    0    0    0    1    0    0    0    0    0    0
## [332,]    0    0    0    0    0    0    1    0    0    0
## [333,]    0    0    0    0    0    1    0    0    0    0
## [334,]    0    0    0    0    0    0    0    0    1    0
## [335,]    0    0    0    0    0    0    0    0    0    1
## [336,]    0    0    0    0    0    1    0    0    0    0
## [337,]    0    0    0    0    1    0    0    0    0    0
## [338,]    0    0    0    0    0    0    0    1    0    0
## [339,]    0    0    0    0    1    0    0    0    0    0
## [340,]    0    0    1    0    0    0    0    0    0    0
## [341,]    0    0    0    0    0    0    0    1    0    0
## [342,]    0    0    0    1    0    0    0    0    0    0
## [343,]    0    0    0    0    1    0    0    0    0    0
## [344,]    0    0    0    0    0    0    0    0    1    0
## [345,]    0    0    0    0    0    0    0    0    0    1
## [346,]    0    1    0    0    0    0    0    0    0    0
## [347,]    0    0    0    0    0    0    0    0    0    1
## [348,]    0    0    1    0    0    0    0    0    0    0
## [349,]    0    0    0    0    0    0    0    0    1    0
## [350,]    0    0    0    0    0    0    0    1    0    0
## [351,]    0    0    0    0    0    0    0    0    0    1
## [352,]    0    1    0    0    0    0    0    0    0    0
## [353,]    0    0    0    0    0    0    0    0    1    0
## [354,]    0    0    0    0    0    0    0    1    0    0
## [355,]    0    0    0    0    1    0    0    0    0    0
## [356,]    0    1    0    0    0    0    0    0    0    0
## [357,]    0    0    0    1    0    0    0    0    0    0
## [358,]    0    1    0    0    0    0    0    0    0    0
## [359,]    0    1    0    0    0    0    0    0    0    0
## [360,]    1    0    0    0    0    0    0    0    0    0
```

```
## [361,]    0    0    1    0    0    0    0    0    0    0
## [362,]    0    0    0    1    0    0    0    0    0    0
## [363,]    0    0    0    0    0    0    0    0    0    1
## [364,]    0    0    0    0    1    0    0    0    0    0
## [365,]    0    0    0    0    0    0    0    0    0    1
## [366,]    0    0    1    0    0    0    0    0    0    0
## [367,]    0    1    0    0    0    0    0    0    0    0
## [368,]    0    0    0    0    0    0    1    0    0    0
## [369,]    0    0    0    0    0    0    0    0    1    0
## [370,]    0    0    0    0    1    0    0    0    0    0
## [371,]    0    0    0    0    0    0    0    1    0    0
## [372,]    0    0    0    0    0    0    0    1    0    0
## [373,]    0    0    0    0    1    0    0    0    0    0
## [374,]    0    0    0    0    1    0    0    0    0    0
## [375,]    0    0    0    0    0    0    0    0    0    1
## [376,]    0    0    1    0    0    0    0    0    0    0
## [377,]    0    0    0    0    0    1    0    0    0    0
## [378,]    0    0    0    0    0    0    0    1    0    0
## [379,]    0    0    1    0    0    0    0    0    0    0
## [380,]    0    0    0    0    1    0    0    0    0    0
## [381,]    0    0    0    0    1    0    0    0    0    0
## [382,]    0    0    1    0    0    0    0    0    0    0
## [383,]    0    1    0    0    0    0    0    0    0    0
## [384,]    0    0    0    0    0    0    0    0    0    1
## [385,]    0    0    0    0    0    0    0    1    0    0
## [386,]    0    0    1    0    0    0    0    0    0    0
## [387,]    0    0    0    0    0    0    0    0    1    0
## [388,]    0    0    0    0    0    0    0    1    0    0
## [389,]    0    0    0    0    0    0    1    0    0    0
## [390,]    0    0    0    0    0    0    0    0    0    1
## [391,]    0    0    1    0    0    0    0    0    0    0
## [392,]    0    0    1    0    0    0    0    0    0    0
## [393,]    0    0    0    1    0    0    0    0    0    0
## [394,]    0    0    0    0    0    0    0    0    1    0
## [395,]    0    1    0    0    0    0    0    0    0    0
## [396,]    0    0    0    0    0    0    1    0    0    0
## [397,]    0    0    0    0    0    1    0    0    0    0
## [398,]    0    1    0    0    0    0    0    0    0    0
## [399,]    0    1    0    0    0    0    0    0    0    0
## [400,]    1    0    0    0    0    0    0    0    0    0
## [401,]    0    0    1    0    0    0    0    0    0    0
## [402,]    0    0    0    0    0    0    1    0    0    0
## [403,]    0    0    0    0    1    0    0    0    0    0
## [404,]    0    0    0    0    0    1    0    0    0    0
## [405,]    0    0    0    0    0    0    0    0    1    0
## [406,]    0    0    0    1    0    0    0    0    0    0
## [407,]    0    1    0    0    0    0    0    0    0    0
## [408,]    0    0    0    0    0    1    0    0    0    0
## [409,]    0    1    0    0    0    0    0    0    0    0
## [410,]    0    0    0    0    0    0    0    0    0    1
## [411,]    0    0    1    0    0    0    0    0    0    0
## [412,]    0    0    0    0    0    0    0    1    0    0
## [413,]    0    0    0    0    1    0    0    0    0    0
## [414,]    0    0    0    0    1    0    0    0    0    0
```

```
## [415,]    0    0    0    0    1    0    0    0    0    0
## [416,]    0    0    0    0    0    0    0    0    1    0
## [417,]    0    1    0    0    0    0    0    0    0    0
## [418,]    0    0    0    0    0    1    0    0    0    0
## [419,]    0    0    0    0    0    0    0    0    1    0
## [420,]    0    0    0    0    0    0    0    0    0    1
## [421,]    0    0    0    0    0    1    0    0    0    0
## [422,]    0    0    0    0    0    0    1    0    0    0
## [423,]    0    0    0    0    0    0    0    1    0    0
## [424,]    0    0    0    0    0    0    0    0    0    1
## [425,]    0    0    0    0    0    0    0    0    0    1
## [426,]    0    0    0    1    0    0    0    0    0    0
## [427,]    0    0    0    0    0    0    0    1    0    0
## [428,]    1    0    0    0    0    0    0    0    0    0
## [429,]    0    0    0    0    0    0    0    0    0    1
## [430,]    1    0    0    0    0    0    0    0    0    0
## [431,]    0    0    0    0    0    0    1    0    0    0
## [432,]    0    0    0    0    0    0    1    0    0    0
## [433,]    0    0    1    0    0    0    0    0    0    0
## [434,]    0    0    0    1    0    0    0    0    0    0
## [435,]    0    0    0    0    0    0    0    0    0    1
## [436,]    1    0    0    0    0    0    0    0    0    0
## [437,]    0    0    0    0    0    0    0    1    0    0
## [438,]    0    0    0    0    0    1    0    0    0    0
## [439,]    0    0    0    0    1    0    0    0    0    0
## [440,]    0    0    0    0    0    0    0    0    1    0
## [441,]    1    0    0    0    0    0    0    0    0    0
## [442,]    0    0    0    0    0    0    0    0    0    1
## [443,]    0    0    0    0    1    0    0    0    0    0
## [444,]    0    1    0    0    0    0    0    0    0    0
## [445,]    0    0    1    0    0    0    0    0    0    0
## [446,]    0    0    0    0    0    0    0    0    1    0
## [447,]    0    0    0    0    0    0    0    1    0    0
## [448,]    0    1    0    0    0    0    0    0    0    0
## [449,]    0    0    1    0    0    0    0    0    0    0
## [450,]    0    0    0    0    0    0    1    0    0    0
## [451,]    0    1    0    0    0    0    0    0    0    0
## [452,]    1    0    0    0    0    0    0    0    0    0
## [453,]    0    0    0    1    0    0    0    0    0    0
## [454,]    1    0    0    0    0    0    0    0    0    0
## [455,]    0    1    0    0    0    0    0    0    0    0
## [456,]    0    1    0    0    0    0    0    0    0    0
## [457,]    0    0    0    0    0    0    0    0    1    0
## [458,]    0    0    1    0    0    0    0    0    0    0
## [459,]    1    0    0    0    0    0    0    0    0    0
## [460,]    0    0    0    1    0    0    0    0    0    0
## [461,]    0    0    0    0    0    0    0    0    0    1
## [462,]    0    0    0    0    1    0    0    0    0    0
## [463,]    1    0    0    0    0    0    0    0    0    0
## [464,]    0    0    0    0    0    1    0    0    0    0
## [465,]    1    0    0    0    0    0    0    0    0    0
## [466,]    0    0    0    0    0    0    1    0    0    0
## [467,]    0    1    0    0    0    0    0    0    0    0
## [468,]    0    0    0    0    0    0    0    1    0    0
```

```
## [469,]   0   0   0   0   0   0   0   1   0   0
## [470,]   0   0   0   0   0   0   0   0   1   0
## [471,]   0   1   0   0   0   0   0   0   0   0
## [472,]   0   0   0   0   0   0   0   0   0   1
## [473,]   0   0   1   0   0   0   0   0   0   0
## [474,]   1   0   0   0   0   0   0   0   0   0
## [475,]   0   0   0   0   0   1   0   0   0   0
## [476,]   0   1   0   0   0   0   0   0   0   0
## [477,]   0   0   1   0   0   0   0   0   0   0
## [478,]   0   0   1   0   0   0   0   0   0   0
## [479,]   0   0   0   0   0   0   0   1   0   0
## [480,]   0   0   0   1   0   0   0   0   0   0
## [481,]   0   0   0   0   0   1   0   0   0   0
## [482,]   0   0   0   0   1   0   0   0   0   0
## [483,]   0   0   0   0   0   0   0   0   0   1
## [484,]   0   0   0   0   0   0   0   1   0   0
## [485,]   0   1   0   0   0   0   0   0   0   0
## [486,]   0   0   0   0   0   0   0   0   1   0
## [487,]   0   0   0   1   0   0   0   0   0   0
## [488,]   0   0   0   0   0   0   0   0   0   1
## [489,]   0   0   0   0   0   0   1   0   0   0
## [490,]   1   0   0   0   0   0   0   0   0   0
## [491,]   0   0   0   1   0   0   0   0   0   0
## [492,]   0   1   0   0   0   0   0   0   0   0
## [493,]   0   1   0   0   0   0   0   0   0   0
## [494,]   0   0   1   0   0   0   0   0   0   0
## [495,]   0   0   0   0   0   0   1   0   0   0
## [496,]   0   0   0   1   0   0   0   0   0   0
## [497,]   0   0   0   0   0   1   0   0   0   0
## [498,]   0   0   0   0   0   0   0   1   0   0
## [499,]   0   0   0   0   0   0   1   0   0   0
## [500,]   0   0   0   0   0   0   0   0   1   0
## [501,]   0   0   0   1   0   0   0   0   0   0
## [502,]   0   0   0   0   0   0   0   0   0   1
## [503,]   0   0   0   0   0   1   0   0   0   0
## [504,]   0   0   0   0   0   0   0   0   1   0
## [505,]   0   0   0   0   0   1   0   0   0   0
## [506,]   0   0   0   0   0   0   0   1   0   0
## [507,]   0   0   0   0   0   0   1   0   0   0
## [508,]   0   1   0   0   0   0   0   0   0   0
## [509,]   0   1   0   0   0   0   0   0   0   0
## [510,]   0   0   0   1   0   0   0   0   0   0
## [511,]   0   1   0   0   0   0   0   0   0   0
## [512,]   0   0   0   0   0   0   0   1   0   0
## [513,]   0   0   0   0   0   1   0   0   0   0
## [514,]   0   0   0   0   0   1   0   0   0   0
## [515,]   0   0   0   0   0   1   0   0   0   0
## [516,]   0   0   1   0   0   0   0   0   0   0
## [517,]   0   0   0   0   0   1   0   0   0   0
## [518,]   0   0   0   0   0   0   0   0   1   0
## [519,]   0   0   0   0   0   0   0   1   0   0
## [520,]   1   0   0   0   0   0   0   0   0   0
## [521,]   0   0   0   0   0   0   0   0   0   1
## [522,]   0   0   0   0   0   0   0   1   0   0
```

```
## [523,]    0   0   0   0   0   0   0   1   0   0
## [524,]    0   0   0   0   0   1   0   0   0   0
## [525,]    1   0   0   0   0   0   0   0   0   0
## [526,]    0   0   0   0   0   0   0   0   0   1
## [527,]    1   0   0   0   0   0   0   0   0   0
## [528,]    1   0   0   0   0   0   0   0   0   0
## [529,]    0   0   0   0   0   0   0   0   1   0
## [530,]    0   0   0   0   0   0   0   0   0   1
## [531,]    0   0   1   0   0   0   0   0   0   0
## [532,]    0   0   0   0   1   0   0   0   0   0
## [533,]    0   0   0   0   0   0   0   0   1   0
## [534,]    0   1   0   0   0   0   0   0   0   0
## [535,]    0   0   0   0   0   0   1   0   0   0
## [536,]    0   1   0   0   0   0   0   0   0   0
## [537,]    0   0   0   0   0   0   1   0   0   0
## [538,]    0   0   0   0   0   1   0   0   0   0
## [539,]    0   1   0   0   0   0   0   0   0   0
## [540,]    0   0   0   0   0   0   0   0   1   0
## [541,]    0   0   0   1   0   0   0   0   0   0
## [542,]    0   0   0   0   1   0   0   0   0   0
## [543,]    1   0   0   0   0   0   0   0   0   0
## [544,]    0   0   0   0   0   1   0   0   0   0
## [545,]    0   0   0   0   0   1   0   0   0   0
## [546,]    0   0   0   0   0   0   0   0   1   0
## [547,]    0   0   0   1   0   0   0   0   0   0
## [548,]    0   0   0   0   0   0   1   0   0   0
## [549,]    0   0   1   0   0   0   0   0   0   0
## [550,]    0   0   0   1   0   0   0   0   0   0
## [551,]    0   0   0   0   0   0   0   0   0   1
## [552,]    0   0   1   0   0   0   0   0   0   0
## [553,]    0   1   0   0   0   0   0   0   0   0
## [554,]    0   1   0   0   0   0   0   0   0   0
## [555,]    0   0   0   0   0   1   0   0   0   0
## [556,]    0   0   1   0   0   0   0   0   0   0
## [557,]    0   1   0   0   0   0   0   0   0   0
## [558,]    0   0   0   1   0   0   0   0   0   0
## [559,]    0   0   1   0   0   0   0   0   0   0
## [560,]    0   0   0   0   0   0   0   0   1   0
## [561,]    0   0   0   0   0   0   0   1   0   0
## [562,]    0   0   0   1   0   0   0   0   0   0
## [563,]    0   0   0   0   0   0   0   1   0   0
## [564,]    0   0   1   0   0   0   0   0   0   0
## [565,]    0   0   0   0   1   0   0   0   0   0
## [566,]    0   0   0   0   0   0   1   0   0   0
## [567,]    0   0   0   0   0   0   0   0   0   1
## [568,]    0   0   0   0   0   0   0   1   0   0
## [569,]    0   0   1   0   0   0   0   0   0   0
## [570,]    0   0   0   0   1   0   0   0   0   0
## [571,]    0   0   1   0   0   0   0   0   0   0
## [572,]    0   0   0   0   0   0   0   0   1   0
## [573,]    0   1   0   0   0   0   0   0   0   0
## [574,]    0   1   0   0   0   0   0   0   0   0
## [575,]    0   0   0   1   0   0   0   0   0   0
## [576,]    0   0   0   0   0   0   0   0   1   0
```

```
## [577,]      0    0    0    0    1    0    0    0    0    0
## [578,]      1    0    0    0    0    0    0    0    0    0
## [579,]      0    0    0    0    0    0    1    0    0    0
## [580,]      0    0    0    0    0    1    0    0    0    0
## [581,]      0    0    0    0    0    0    0    0    0    1
## [582,]      0    0    0    1    0    0    0    0    0    0
## [583,]      1    0    0    0    0    0    0    0    0    0
## [584,]      0    0    0    0    0    0    0    0    0    1
## [585,]      0    0    1    0    0    0    0    0    0    0
## [586,]      0    0    0    0    1    0    0    0    0    0
## [587,]      0    0    0    0    0    0    0    1    0    0
## [588,]      0    1    0    0    0    0    0    0    0    0
## [589,]      0    0    1    0    0    0    0    0    0    0
## [590,]      0    0    0    0    0    0    0    0    0    1
## [591,]      0    0    0    0    1    0    0    0    0    0
## [592,]      0    0    1    0    0    0    0    0    0    0
## [593,]      0    0    0    0    0    0    1    0    0    0
## [594,]      0    1    0    0    0    0    0    0    0    0
## [595,]      0    0    0    0    0    0    0    0    1    0
## [596,]      0    0    0    0    0    0    0    0    0    1
## [597,]      1    0    0    0    0    0    0    0    0    0
## [598,]      0    0    0    0    0    0    1    0    0    0
## [599,]      0    0    0    0    0    0    1    0    0    0
## [600,]      0    0    0    0    0    0    0    1    0    0
## [601,]      0    0    0    0    0    0    0    0    0    1
## [602,]      0    0    0    0    0    0    0    0    0    1
## [603,]      0    0    0    0    0    0    0    0    1    0
## [604,]      1    0    0    0    0    0    0    0    0    0
## [605,]      0    1    0    0    0    0    0    0    0    0
## [606,]      0    0    0    0    1    0    0    0    0    0
## [607,]      0    0    0    0    1    0    0    0    0    0
## [608,]      0    0    0    0    0    0    1    0    0    0
## [609,]      0    0    0    0    0    0    0    1    0    0
## [610,]      0    1    0    0    0    0    0    0    0    0
## [611,]      0    0    0    0    0    1    0    0    0    0
## [612,]      0    0    0    0    0    0    0    1    0    0
## [613,]      1    0    0    0    0    0    0    0    0    0
## [614,]      0    0    0    1    0    0    0    0    0    0
## [615,]      0    0    0    0    0    1    0    0    0    0
## [616,]      0    0    0    0    0    0    0    0    1    0
## [617,]      0    0    0    0    1    0    0    0    0    0
## [618,]      0    0    0    0    0    0    0    1    0    0
## [619,]      0    1    0    0    0    0    0    0    0    0
## [620,]      0    0    1    0    0    0    0    0    0    0
## [621,]      0    0    0    0    0    1    0    0    0    0
## [622,]      0    0    0    0    0    0    0    0    0    1
## [623,]      0    0    0    0    0    1    0    0    0    0
## [624,]      0    0    0    0    0    0    1    0    0    0
## [625,]      0    0    0    0    0    0    0    1    0    0
## [626,]      0    0    0    0    0    1    0    0    0    0
## [627,]      0    0    0    0    0    0    0    0    0    1
## [628,]      0    0    0    0    0    0    0    0    1    0
## [629,]      0    0    0    0    0    0    0    0    1    0
## [630,]      0    0    0    1    0    0    0    0    0    0
```

```
## [631,]    0   0   0   0   0   0   1   0   0   0
## [632,]    0   0   0   0   0   0   0   0   0   1
## [633,]    0   0   0   0   0   0   0   1   0   0
## [634,]    1   0   0   0   0   0   0   0   0   0
## [635,]    0   0   0   0   0   0   0   1   0   0
## [636,]    0   0   0   0   0   1   0   0   0   0
## [637,]    0   0   0   0   0   0   0   1   0   0
## [638,]    0   1   0   0   0   0   0   0   0   0
## [639,]    0   1   0   0   0   0   0   0   0   0
## [640,]    1   0   0   0   0   0   0   0   0   0
## [641,]    0   0   0   0   0   0   0   1   0   0
## [642,]    0   0   0   0   0   0   0   0   0   1
## [643,]    0   0   1   0   0   0   0   0   0   0
## [644,]    0   0   0   1   0   0   0   0   0   0
## [645,]    0   0   0   0   0   0   0   1   0   0
## [646,]    0   0   0   1   0   0   0   0   0   0
## [647,]    0   0   1   0   0   0   0   0   0   0
## [648,]    0   0   0   0   1   0   0   0   0   0
## [649,]    0   1   0   0   0   0   0   0   0   0
## [650,]    0   0   0   0   0   0   1   0   0   0
## [651,]    0   0   1   0   0   0   0   0   0   0
## [652,]    0   0   0   0   0   0   0   1   0   0
## [653,]    0   0   0   0   0   1   0   0   0   0
## [654,]    0   0   0   0   0   1   0   0   0   0
## [655,]    0   0   0   0   0   0   0   1   0   0
## [656,]    0   0   0   0   1   0   0   0   0   0
## [657,]    1   0   0   0   0   0   0   0   0   0
## [658,]    0   0   1   0   0   0   0   0   0   0
## [659,]    0   0   0   0   0   0   1   0   0   0
## [660,]    0   0   0   1   0   0   0   0   0   0
## [661,]    0   0   0   0   0   0   1   0   0   0
## [662,]    0   0   0   0   1   0   0   0   0   0
## [663,]    1   0   0   0   0   0   0   0   0   0
## [664,]    0   0   0   0   1   0   0   0   0   0
## [665,]    0   0   1   0   0   0   0   0   0   0
## [666,]    0   0   0   0   0   0   1   0   0   0
## [667,]    1   0   0   0   0   0   0   0   0   0
## [668,]    1   0   0   0   0   0   0   0   0   0
## [669,]    1   0   0   0   0   0   0   0   0   0
## [670,]    1   0   0   0   0   0   0   0   0   0
## [671,]    0   0   0   1   0   0   0   0   0   0
## [672,]    0   1   0   0   0   0   0   0   0   0
## [673,]    0   0   0   0   0   0   1   0   0   0
## [674,]    0   0   1   0   0   0   0   0   0   0
## [675,]    0   0   1   0   0   0   0   0   0   0
## [676,]    0   0   0   1   0   0   0   0   0   0
## [677,]    0   1   0   0   0   0   0   0   0   0
## [678,]    0   0   0   0   1   0   0   0   0   0
## [679,]    0   1   0   0   0   0   0   0   0   0
## [680,]    0   0   0   0   0   1   0   0   0   0
## [681,]    0   0   0   0   1   0   0   0   0   0
## [682,]    0   0   0   0   0   0   1   0   0   0
## [683,]    0   0   0   0   1   0   0   0   0   0
## [684,]    0   0   0   0   0   0   0   1   0   0
```

```
## [685,]    0    0    1    0    0    0    0    0    0    0
## [686,]    0    0    0    0    0    0    0    0    1    0
## [687,]    0    0    0    0    0    0    0    1    0    0
## [688,]    0    0    0    0    0    0    0    0    0    1
## [689,]    0    0    1    0    0    0    0    0    0    0
## [690,]    1    0    0    0    0    0    0    0    0    0
## [691,]    0    0    0    0    0    1    0    0    0    0
## [692,]    0    1    0    0    0    0    0    0    0    0
## [693,]    0    0    0    0    1    0    0    0    0    0
## [694,]    0    0    1    0    0    0    0    0    0    0
## [695,]    0    0    0    0    0    0    0    0    1    0
## [696,]    0    0    0    1    0    0    0    0    0    0
## [697,]    0    0    1    0    0    0    0    0    0    0
## [698,]    0    0    0    0    1    0    0    0    0    0
## [699,]    0    1    0    0    0    0    0    0    0    0
## [700,]    0    0    0    0    0    1    0    0    0    0
## [701,]    0    0    0    0    1    0    0    0    0    0
## [702,]    0    0    0    0    0    0    1    0    0    0
## [703,]    1    0    0    0    0    0    0    0    0    0
## [704,]    0    0    0    0    0    0    0    1    0    0
## [705,]    0    0    0    0    0    0    0    0    0    1
## [706,]    0    0    0    0    0    0    0    0    1    0
## [707,]    0    0    0    0    1    0    0    0    0    0
## [708,]    0    0    0    0    0    0    0    0    0    1
## [709,]    0    0    0    0    0    0    0    0    1    0
## [710,]    1    0    0    0    0    0    0    0    0    0
## [711,]    0    1    0    0    0    0    0    0    0    0
## [712,]    0    1    0    0    0    0    0    0    0    0
## [713,]    1    0    0    0    0    0    0    0    0    0
## [714,]    0    0    1    0    0    0    0    0    0    0
## [715,]    0    0    1    0    0    0    0    0    0    0
## [716,]    0    0    0    1    0    0    0    0    0    0
## [717,]    0    0    1    0    0    0    0    0    0    0
## [718,]    0    0    0    0    1    0    0    0    0    0
## [719,]    0    0    0    0    1    0    0    0    0    0
## [720,]    0    0    0    0    0    1    0    0    0    0
## [721,]    0    0    0    0    0    0    0    0    1    0
## [722,]    0    0    0    0    0    0    1    0    0    0
## [723,]    0    0    0    0    0    1    0    0    0    0
## [724,]    0    0    0    0    0    0    0    1    0    0
## [725,]    0    0    0    0    0    0    0    1    0    0
## [726,]    0    0    0    0    0    0    0    0    1    0
## [727,]    0    0    0    0    0    0    0    0    1    0
## [728,]    0    0    0    0    0    0    0    0    0    1
## [729,]    0    0    0    0    0    0    0    1    0    0
## [730,]    0    0    0    0    1    0    0    0    0    0
## [731,]    0    0    0    0    0    0    0    1    0    0
## [732,]    0    0    0    1    0    0    0    0    0    0
## [733,]    0    0    1    0    0    0    0    0    0    0
## [734,]    1    0    0    0    0    0    0    0    0    0
## [735,]    0    0    0    0    0    0    0    0    1    0
## [736,]    0    0    0    0    0    0    1    0    0    0
## [737,]    0    0    0    0    0    0    0    0    1    0
## [738,]    0    0    0    0    0    0    1    0    0    0
```

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```
## [739,]    0    1    0    0    0    0    0    0    0    0
## [740,]    0    0    0    0    0    0    1    0    0    0
## [741,]    0    0    0    0    0    0    0    0    1    0
## [742,]    0    0    0    0    0    0    0    0    0    1
## [743,]    0    0    0    0    1    0    0    0    0    0
## [744,]    1    0    0    0    0    0    0    0    0    0
## [745,]    0    0    0    0    0    0    0    0    0    1
## [746,]    1    0    0    0    0    0    0    0    0    0
## [747,]    0    0    0    0    1    0    0    0    0    0
## [748,]    0    1    0    0    0    0    0    0    0    0
## [749,]    0    0    0    0    0    1    0    0    0    0
## [750,]    0    0    0    0    1    0    0    0    0    0
## [751,]    0    0    0    0    0    0    0    1    0    0
## [752,]    0    0    0    0    0    1    0    0    0    0
## [753,]    0    0    0    1    0    0    0    0    0    0
## [754,]    0    0    0    0    0    0    0    1    0    0
## [755,]    0    0    0    0    1    0    0    0    0    0
## [756,]    0    0    0    0    0    0    0    0    0    1
## [757,]    0    0    0    0    0    0    0    0    1    0
## [758,]    0    0    0    0    0    1    0    0    0    0
## [759,]    0    0    0    0    0    0    0    0    1    0
## [760,]    0    0    0    0    0    0    1    0    0    0
## [761,]    0    0    0    1    0    0    0    0    0    0
## [762,]    0    0    0    0    0    0    0    0    1    0
## [763,]    0    0    0    0    0    0    1    0    0    0
## [764,]    0    0    0    0    0    0    0    0    0    1
## [765,]    0    0    0    0    0    0    0    0    0    1
## [766,]    0    1    0    0    0    0    0    0    0    0
## [767,]    0    0    0    0    0    0    0    0    1    0
## [768,]    0    0    0    1    0    0    0    0    0    0
## [769,]    0    0    0    0    0    1    0    0    0    0
## [770,]    0    0    0    0    0    0    0    0    1    0
## [771,]    0    0    0    0    0    0    1    0    0    0
## [772,]    0    0    0    0    0    1    0    0    0    0
## [773,]    0    0    0    0    0    0    0    0    0    1
## [774,]    0    0    0    0    0    0    0    1    0    0
## [775,]    0    0    1    0    0    0    0    0    0    0
## [776,]    0    0    0    0    0    1    0    0    0    0
## [777,]    1    0    0    0    0    0    0    0    0    0
## [778,]    0    0    0    0    0    0    0    0    1    0
## [779,]    0    0    0    0    0    1    0    0    0    0
## [780,]    0    1    0    0    0    0    0    0    0    0
## [781,]    0    1    0    0    0    0    0    0    0    0
## [782,]    1    0    0    0    0    0    0    0    0    0
## [783,]    0    0    0    0    0    0    0    0    0    1
## [784,]    0    1    0    0    0    0    0    0    0    0
## [785,]    0    0    0    0    0    0    0    0    1    0
## [786,]    0    0    0    0    0    0    1    0    0    0
## [787,]    0    0    0    0    0    0    0    1    0    0
## [788,]    1    0    0    0    0    0    0    0    0    0
## [789,]    0    0    0    0    0    0    0    0    0    1
## [790,]    0    0    0    1    0    0    0    0    0    0
## [791,]    1    0    0    0    0    0    0    0    0    0
## [792,]    0    0    0    0    0    0    0    0    1    0
```

```
## [793,]    0    0    0    0    0    0    0    0    1    0
## [794,]    0    0    0    0    0    0    0    0    0    1
## [795,]    0    0    0    0    0    0    1    0    0    0
## [796,]    0    0    0    0    0    0    0    1    0    0
## [797,]    0    0    0    0    0    0    0    0    1    0
## [798,]    0    0    0    0    1    0    0    0    0    0
## [799,]    0    0    0    0    0    0    0    1    0    0
## [800,]    0    0    0    0    0    1    0    0    0    0
## [801,]    0    0    0    0    0    0    0    0    0    1
## [802,]    0    0    1    0    0    0    0    0    0    0
## [803,]    0    0    0    0    0    0    1    0    0    0
## [804,]    0    0    0    0    0    0    0    1    0    0
## [805,]    0    0    0    0    1    0    0    0    0    0
## [806,]    0    0    0    0    0    1    0    0    0    0
## [807,]    0    0    0    0    0    0    0    0    0    1
## [808,]    0    0    1    0    0    0    0    0    0    0
## [809,]    0    0    0    1    0    0    0    0    0    0
## [810,]    0    1    0    0    0    0    0    0    0    0
## [811,]    0    0    0    0    0    0    1    0    0    0
## [812,]    0    0    0    1    0    0    0    0    0    0
## [813,]    0    0    0    0    0    0    0    0    0    1
## [814,]    0    0    1    0    0    0    0    0    0    0
## [815,]    0    0    1    0    0    0    0    0    0    0
## [816,]    0    0    0    0    0    1    0    0    0    0
## [817,]    0    0    0    0    0    0    1    0    0    0
## [818,]    0    0    0    0    0    0    0    0    1    0
## [819,]    1    0    0    0    0    0    0    0    0    0
## [820,]    0    0    0    0    0    0    0    1    0    0
## [821,]    0    0    0    0    0    0    0    1    0    0
## [822,]    0    1    0    0    0    0    0    0    0    0
## [823,]    0    0    0    0    0    0    0    0    0    1
## [824,]    0    0    0    0    0    0    0    0    1    0
## [825,]    0    0    0    0    0    0    0    1    0    0
## [826,]    1    0    0    0    0    0    0    0    0    0
## [827,]    0    0    0    0    0    0    0    0    0    1
## [828,]    0    0    0    0    0    0    0    0    0    1
## [829,]    0    0    0    0    1    0    0    0    0    0
## [830,]    0    0    0    0    0    0    1    0    0    0
## [831,]    0    0    1    0    0    0    0    0    0    0
## [832,]    0    0    0    0    0    0    0    0    1    0
## [833,]    0    0    0    0    0    1    0    0    0    0
## [834,]    0    1    0    0    0    0    0    0    0    0
## [835,]    0    0    0    0    1    0    0    0    0    0
## [836,]    0    1    0    0    0    0    0    0    0    0
## [837,]    0    0    0    0    0    1    0    0    0    0
## [838,]    0    0    0    0    0    1    0    0    0    0
## [839,]    0    1    0    0    0    0    0    0    0    0
## [840,]    0    0    0    0    0    0    0    1    0    0
## [841,]    0    0    0    1    0    0    0    0    0    0
## [842,]    0    0    0    0    0    0    1    0    0    0
## [843,]    0    0    0    0    1    0    0    0    0    0
## [844,]    0    0    0    1    0    0    0    0    0    0
## [845,]    0    0    1    0    0    0    0    0    0    0
## [846,]    0    0    0    0    0    1    0    0    0    0
```

```
## [847,]    0    0    0    0    0    0    1    0    0    0
## [848,]    0    0    0    0    1    0    0    0    0    0
## [849,]    0    0    0    0    1    0    0    0    0    0
## [850,]    1    0    0    0    0    0    0    0    0    0
## [851,]    0    0    0    0    1    0    0    0    0    0
## [852,]    0    0    0    0    1    0    0    0    0    0
## [853,]    0    0    0    0    0    0    1    0    0    0
## [854,]    0    0    0    0    0    0    0    1    0    0
## [855,]    0    0    1    0    0    0    0    0    0    0
## [856,]    0    0    0    0    1    0    0    0    0    0
## [857,]    0    0    0    1    0    0    0    0    0    0
## [858,]    0    0    0    1    0    0    0    0    0    0
## [859,]    0    0    0    0    0    0    0    0    1    0
## [860,]    1    0    0    0    0    0    0    0    0    0
## [861,]    1    0    0    0    0    0    0    0    0    0
## [862,]    0    0    0    1    0    0    0    0    0    0
## [863,]    0    0    1    0    0    0    0    0    0    0
## [864,]    0    0    1    0    0    0    0    0    0    0
## [865,]    0    0    0    0    0    0    0    0    0    1
## [866,]    0    0    0    0    0    0    0    0    1    0
## [867,]    0    0    1    0    0    0    0    0    0    0
## [868,]    0    0    0    1    0    0    0    0    0    0
## [869,]    0    0    0    0    0    0    0    1    0    0
## [870,]    1    0    0    0    0    0    0    0    0    0
## [871,]    0    1    0    0    0    0    0    0    0    0
## [872,]    0    1    0    0    0    0    0    0    0    0
## [873,]    1    0    0    0    0    0    0    0    0    0
## [874,]    0    0    1    0    0    0    0    0    0    0
## [875,]    0    0    0    1    0    0    0    0    0    0
## [876,]    0    0    0    1    0    0    0    0    0    0
## [877,]    0    0    0    0    0    0    0    0    1    0
## [878,]    0    0    0    0    1    0    0    0    0    0
## [879,]    0    0    0    1    0    0    0    0    0    0
## [880,]    0    0    0    0    0    1    0    0    0    0
## [881,]    0    0    0    0    0    0    0    1    0    0
## [882,]    0    0    0    0    0    0    1    0    0    0
## [883,]    0    0    0    0    1    0    0    0    0    0
## [884,]    0    0    0    0    0    0    0    1    0    0
## [885,]    0    0    0    0    0    0    0    1    0    0
## [886,]    0    0    0    0    0    0    0    0    1    0
## [887,]    0    0    0    0    0    1    0    0    0    0
## [888,]    0    0    0    0    0    0    0    0    0    1
## [889,]    0    0    0    0    0    0    0    1    0    0
## [890,]    1    0    0    0    0    0    0    0    0    0
## [891,]    0    0    0    1    0    0    0    0    0    0
## [892,]    0    1    0    0    0    0    0    0    0    0
## [893,]    0    0    0    0    0    0    1    0    0    0
## [894,]    0    0    1    0    0    0    0    0    0    0
## [895,]    0    0    0    0    1    0    0    0    0    0
## [896,]    0    0    0    1    0    0    0    0    0    0
## [897,]    0    0    0    0    1    0    0    0    0    0
## [898,]    0    0    0    0    1    0    0    0    0    0
## [899,]    0    0    0    0    0    0    0    1    0    0
## [900,]    0    0    0    0    0    1    0    0    0    0
```

```
## [901,]    0    0    0    0    0    0    0    0    0    1
## [902,]    0    0    0    0    0    0    1    0    0    0
## [903,]    0    0    0    0    0    0    0    0    0    1
## [904,]    1    0    0    0    0    0    0    0    0    0
## [905,]    0    0    0    0    0    0    0    1    0    0
## [906,]    0    1    0    0    0    0    0    0    0    0
## [907,]    0    0    0    0    1    0    0    0    0    0
## [908,]    0    0    1    0    0    0    0    0    0    0
## [909,]    0    0    0    0    0    0    0    1    0    0
## [910,]    0    0    0    1    0    0    0    0    0    0
## [911,]    0    0    0    0    0    0    1    0    0    0
## [912,]    0    0    0    0    0    0    0    1    0    0
## [913,]    0    0    0    0    0    1    0    0    0    0
## [914,]    0    0    0    0    0    0    0    0    1    0
## [915,]    0    0    0    0    1    0    0    0    0    0
## [916,]    0    0    0    0    0    1    0    0    0    0
## [917,]    0    0    0    0    0    1    0    0    0    0
## [918,]    0    0    1    0    0    0    0    0    0    0
## [919,]    0    0    0    0    0    0    0    1    0    0
## [920,]    0    1    0    0    0    0    0    0    0    0
## [921,]    0    1    0    0    0    0    0    0    0    0
## [922,]    0    0    0    0    0    1    0    0    0    0
## [923,]    0    0    0    0    0    0    1    0    0    0
## [924,]    0    0    0    0    0    0    0    0    1    0
## [925,]    0    0    0    0    0    1    0    0    0    0
## [926,]    0    0    0    0    0    0    0    0    1    0
## [927,]    0    0    0    0    1    0    0    0    0    0
## [928,]    1    0    0    0    0    0    0    0    0    0
## [929,]    0    0    0    0    0    0    0    1    0    0
## [930,]    0    0    0    0    0    0    0    0    0    1
## [931,]    0    0    0    0    0    0    0    0    0    1
## [932,]    0    0    1    0    0    0    0    0    0    0
## [933,]    0    0    0    0    0    0    0    0    0    1
## [934,]    0    0    0    0    0    0    0    1    0    0
## [935,]    0    0    0    0    0    0    0    1    0    0
## [936,]    0    0    0    0    0    0    0    0    1    0
## [937,]    0    0    0    0    0    0    0    1    0    0
## [938,]    0    0    0    0    1    0    0    0    0    0
## [939,]    0    0    1    0    0    0    0    0    0    0
## [940,]    0    0    0    0    0    0    1    0    0    0
## [941,]    0    0    0    0    0    0    0    0    0    1
## [942,]    0    1    0    0    0    0    0    0    0    0
## [943,]    0    0    0    0    0    0    0    1    0    0
## [944,]    1    0    0    0    0    0    0    0    0    0
## [945,]    0    0    0    0    0    0    1    0    0    0
## [946,]    0    0    0    0    1    0    0    0    0    0
## [947,]    0    0    1    0    0    0    0    0    0    0
## [948,]    0    0    0    0    0    1    0    0    0    0
## [949,]    0    0    0    0    0    0    0    1    0    0
## [950,]    1    0    0    0    0    0    0    0    0    0
## [951,]    0    0    0    0    0    0    0    1    0    0
## [952,]    0    1    0    0    0    0    0    0    0    0
## [953,]    1    0    0    0    0    0    0    0    0    0
## [954,]    0    0    0    1    0    0    0    0    0    0
```

```
## [955,]     0  0  0  0  0  0  0  1  0  0
## [956,]     0  0  0  0  0  0  1  0  0  0
## [957,]     0  0  0  0  0  1  0  0  0  0
## [958,]     1  0  0  0  0  0  0  0  0  0
## [959,]     0  0  0  0  0  0  1  0  0  0
## [960,]     0  1  0  0  0  0  0  0  0  0
## [961,]     0  0  0  0  0  1  0  0  0  0
## [962,]     0  1  0  0  0  0  0  0  0  0
## [963,]     0  0  0  0  0  0  0  1  0  0
## [964,]     0  0  0  0  0  0  0  0  1  0
## [965,]     0  0  0  0  0  1  0  0  0  0
## [966,]     1  0  0  0  0  0  0  0  0  0
## [967,]     0  0  0  1  0  0  0  0  0  0
## [968,]     0  0  0  0  1  0  0  0  0  0
## [969,]     0  0  0  0  0  0  0  1  0  0
## [970,]     0  0  0  0  0  0  0  1  0  0
## [971,]     0  0  0  0  0  1  0  0  0  0
## [972,]     0  0  0  0  0  0  0  1  0  0
## [973,]     0  0  0  0  0  0  0  0  1  0
## [974,]     0  0  0  0  0  0  1  0  0  0
## [975,]     0  0  0  0  0  0  0  0  0  1
## [976,]     0  0  0  1  0  0  0  0  0  0
## [977,]     0  0  0  0  0  0  0  0  1  0
## [978,]     0  0  0  0  0  0  1  0  0  0
## [979,]     0  1  0  0  0  0  0  0  0  0
## [980,]     1  0  0  0  0  0  0  0  0  0
## [981,]     0  0  0  0  0  0  0  0  0  1
## [982,]     0  0  0  0  0  0  0  1  0  0
## [983,]     0  1  0  0  0  0  0  0  0  0
## [984,]     0  0  0  1  0  0  0  0  0  0
## [985,]     1  0  0  0  0  0  0  0  0  0
## [986,]     0  0  0  0  0  1  0  0  0  0
## [987,]     0  0  0  0  0  0  1  0  0  0
## [988,]     0  0  0  0  1  0  0  0  0  0
## [989,]     0  0  0  0  1  0  0  0  0  0
## [990,]     0  0  1  0  0  0  0  0  0  0
## [991,]     0  0  0  0  1  0  0  0  0  0
## [992,]     0  0  0  0  1  0  0  0  0  0
## [993,]     0  0  0  1  0  0  0  0  0  0
## [994,]     0  1  0  0  0  0  0  0  0  0
## [995,]     0  0  0  0  0  0  0  1  0  0
## [996,]     0  0  0  0  0  0  0  1  0  0
## [997,]     0  0  0  0  0  0  1  0  0  0
## [998,]     1  0  0  0  0  0  0  0  0  0
## [999,]     0  0  0  1  0  0  0  0  0  0
## [1000,]    0  0  0  0  0  0  1  0  0  0
## [1001,]    1  0  0  0  0  0  0  0  0  0
## [1002,]    0  0  0  0  0  0  0  1  0  0
## [1003,]    0  1  0  0  0  0  0  0  0  0
## [1004,]    0  1  0  0  0  0  0  0  0  0
## [1005,]    0  0  0  0  1  0  0  0  0  0
## [1006,]    0  0  0  0  0  0  0  0  0  1
## [1007,]    0  0  0  0  1  0  0  0  0  0
## [1008,]    0  0  0  1  0  0  0  0  0  0
```

```
## [1009,]    0    0    0    0    1    0    0    0    0    0
## [1010,]    0    0    0    0    0    0    0    0    1    0
## [1011,]    0    0    1    0    0    0    0    0    0    0
## [1012,]    0    0    1    0    0    0    0    0    0    0
## [1013,]    0    1    0    0    0    0    0    0    0    0
## [1014,]    0    0    0    0    0    0    0    0    1    0
## [1015,]    0    0    0    0    0    0    0    1    0    0
## [1016,]    1    0    0    0    0    0    0    0    0    0
## [1017,]    0    0    0    0    0    0    0    0    1    0
## [1018,]    0    1    0    0    0    0    0    0    0    0
## [1019,]    1    0    0    0    0    0    0    0    0    0
## [1020,]    0    0    0    0    0    0    0    1    0    0
## [1021,]    0    0    0    0    0    0    1    0    0    0
## [1022,]    0    0    0    1    0    0    0    0    0    0
## [1023,]    0    0    0    0    0    0    0    1    0    0
## [1024,]    0    0    0    0    0    0    0    1    0    0
## [1025,]    0    0    0    0    0    1    0    0    0    0
## [1026,]    0    0    0    0    0    0    0    0    1    0
## [1027,]    0    0    0    0    0    0    0    0    1    0
## [1028,]    0    0    0    0    0    0    0    0    0    1
## [1029,]    1    0    0    0    0    0    0    0    0    0
## [1030,]    1    0    0    0    0    0    0    0    0    0
## [1031,]    0    0    0    0    1    0    0    0    0    0
## [1032,]    0    1    0    0    0    0    0    0    0    0
## [1033,]    0    0    0    0    0    1    0    0    0    0
## [1034,]    0    0    1    0    0    0    0    0    0    0
## [1035,]    0    0    1    0    0    0    0    0    0    0
## [1036,]    0    0    0    1    0    0    0    0    0    0
## [1037,]    0    0    0    0    0    0    0    0    0    1
## [1038,]    0    0    0    0    1    0    0    0    0    0
## [1039,]    0    0    0    0    0    0    0    0    0    1
## [1040,]    0    0    0    0    0    1    0    0    0    0
## [1041,]    1    0    0    0    0    0    0    0    0    0
## [1042,]    0    0    0    0    0    0    1    0    0    0
## [1043,]    0    0    0    0    0    0    0    1    0    0
## [1044,]    0    0    0    0    0    0    0    1    0    0
## [1045,]    0    1    0    0    0    0    0    0    0    0
## [1046,]    0    0    0    0    0    0    0    0    1    0
## [1047,]    1    0    0    0    0    0    0    0    0    0
## [1048,]    0    0    1    0    0    0    0    0    0    0
## [1049,]    0    0    1    0    0    0    0    0    0    0
## [1050,]    1    0    0    0    0    0    0    0    0    0
## [1051,]    0    0    0    0    1    0    0    0    0    0
## [1052,]    0    1    0    0    0    0    0    0    0    0
## [1053,]    0    1    0    0    0    0    0    0    0    0
## [1054,]    0    0    1    0    0    0    0    0    0    0
## [1055,]    0    0    0    0    0    0    0    1    0    0
## [1056,]    0    0    0    1    0    0    0    0    0    0
## [1057,]    0    0    0    0    0    0    0    0    0    1
## [1058,]    0    0    0    0    0    0    0    1    0    0
## [1059,]    0    0    1    0    0    0    0    0    0    0
## [1060,]    0    0    0    0    0    0    0    0    1    0
## [1061,]    0    1    0    0    0    0    0    0    0    0
## [1062,]    0    0    0    0    0    0    0    0    0    1
```

```
## [1063,]    0    0    0    0    0    1    0    0    0    0
## [1064,]    0    0    0    0    0    0    0    0    1    0
## [1065,]    0    0    0    0    0    0    0    0    1    0
## [1066,]    0    1    0    0    0    0    0    0    0    0
## [1067,]    0    0    0    0    0    0    0    0    0    1
## [1068,]    0    0    0    0    0    0    0    0    1    0
## [1069,]    0    0    0    1    0    0    0    0    0    0
## [1070,]    0    1    0    0    0    0    0    0    0    0
## [1071,]    0    0    0    0    0    0    1    0    0    0
## [1072,]    0    0    0    0    0    1    0    0    0    0
## [1073,]    0    0    0    0    0    0    0    1    0    0
## [1074,]    0    0    0    0    1    0    0    0    0    0
## [1075,]    0    0    1    0    0    0    0    0    0    0
## [1076,]    0    0    0    0    0    0    0    1    0    0
## [1077,]    1    0    0    0    0    0    0    0    0    0
## [1078,]    0    0    0    1    0    0    0    0    0    0
## [1079,]    1    0    0    0    0    0    0    0    0    0
## [1080,]    0    0    0    0    1    0    0    0    0    0
## [1081,]    0    1    0    0    0    0    0    0    0    0
## [1082,]    0    1    0    0    0    0    0    0    0    0
## [1083,]    0    0    0    0    0    0    0    1    0    0
## [1084,]    0    0    0    0    0    0    0    0    0    1
## [1085,]    0    1    0    0    0    0    0    0    0    0
## [1086,]    0    1    0    0    0    0    0    0    0    0
## [1087,]    0    0    0    0    0    0    0    0    1    0
## [1088,]    0    0    0    0    0    1    0    0    0    0
## [1089,]    0    0    0    0    0    0    0    1    0    0
## [1090,]    0    0    0    0    0    1    0    0    0    0
## [1091,]    1    0    0    0    0    0    0    0    0    0
## [1092,]    0    0    0    0    0    0    1    0    0    0
## [1093,]    0    0    0    0    0    0    1    0    0    0
## [1094,]    1    0    0    0    0    0    0    0    0    0
## [1095,]    0    0    0    0    1    0    0    0    0    0
## [1096,]    0    1    0    0    0    0    0    0    0    0
## [1097,]    0    0    1    0    0    0    0    0    0    0
## [1098,]    0    0    0    1    0    0    0    0    0    0
## [1099,]    0    0    0    0    1    0    0    0    0    0
## [1100,]    0    0    0    0    1    0    0    0    0    0
## [1101,]    0    0    0    0    0    0    1    0    0    0
## [1102,]    0    0    0    0    0    0    0    0    1    0
## [1103,]    1    0    0    0    0    0    0    0    0    0
## [1104,]    0    0    0    0    0    0    0    0    0    1
## [1105,]    0    0    0    0    0    1    0    0    0    0
## [1106,]    0    0    0    0    0    0    0    0    1    0
## [1107,]    0    0    0    0    0    0    0    1    0    0
## [1108,]    1    0    0    0    0    0    0    0    0    0
## [1109,]    0    0    0    1    0    0    0    0    0    0
## [1110,]    0    0    0    0    0    1    0    0    0    0
## [1111,]    0    0    0    0    1    0    0    0    0    0
## [1112,]    0    0    0    0    0    1    0    0    0    0
## [1113,]    0    0    0    0    0    0    0    0    0    1
## [1114,]    0    0    0    0    0    0    1    0    0    0
## [1115,]    0    0    0    0    0    0    0    1    0    0
## [1116,]    0    1    0    0    0    0    0    0    0    0
```

```
## [1117,]   0   0   0   0   0   0   0   0   0   1
## [1118,]   0   0   0   0   0   0   1   0   0   0
## [1119,]   0   1   0   0   0   0   0   0   0   0
## [1120,]   0   0   0   1   0   0   0   0   0   0
## [1121,]   0   0   0   0   0   0   0   0   1   0
## [1122,]   0   0   0   1   0   0   0   0   0   0
## [1123,]   0   0   0   0   0   0   0   0   0   1
## [1124,]   0   1   0   0   0   0   0   0   0   0
## [1125,]   0   0   1   0   0   0   0   0   0   0
## [1126,]   0   0   0   0   0   0   0   1   0   0
## [1127,]   0   0   0   0   0   0   0   1   0   0
## [1128,]   0   0   0   0   0   0   0   1   0   0
## [1129,]   1   0   0   0   0   0   0   0   0   0
## [1130,]   0   0   1   0   0   0   0   0   0   0
## [1131,]   0   0   0   1   0   0   0   0   0   0
## [1132,]   0   1   0   0   0   0   0   0   0   0
## [1133,]   0   1   0   0   0   0   0   0   0   0
## [1134,]   0   0   0   0   1   0   0   0   0   0
## [1135,]   0   0   1   0   0   0   0   0   0   0
## [1136,]   0   0   0   0   0   1   0   0   0   0
## [1137,]   0   0   0   0   0   0   1   0   0   0
## [1138,]   1   0   0   0   0   0   0   0   0   0
## [1139,]   0   0   0   0   0   0   0   0   0   1
## [1140,]   0   0   0   0   0   0   1   0   0   0
## [1141,]   0   0   1   0   0   0   0   0   0   0
## [1142,]   0   0   0   0   0   0   0   0   1   0
## [1143,]   0   0   0   0   0   0   0   0   0   1
## [1144,]   0   0   1   0   0   0   0   0   0   0
## [1145,]   0   0   0   1   0   0   0   0   0   0
## [1146,]   0   0   0   1   0   0   0   0   0   0
## [1147,]   0   0   0   0   0   0   1   0   0   0
## [1148,]   0   0   0   0   0   0   0   0   0   1
## [1149,]   0   1   0   0   0   0   0   0   0   0
## [1150,]   0   0   0   0   1   0   0   0   0   0
## [1151,]   0   0   0   1   0   0   0   0   0   0
## [1152,]   0   0   0   1   0   0   0   0   0   0
## [1153,]   1   0   0   0   0   0   0   0   0   0
## [1154,]   0   0   0   0   0   0   0   1   0   0
## [1155,]   0   0   0   0   0   0   0   1   0   0
## [1156,]   0   1   0   0   0   0   0   0   0   0
## [1157,]   0   0   0   0   0   0   0   1   0   0
## [1158,]   0   0   0   0   0   0   0   1   0   0
## [1159,]   0   0   0   1   0   0   0   0   0   0
## [1160,]   0   0   0   0   0   0   1   0   0   0
## [1161,]   0   0   0   0   1   0   0   0   0   0
## [1162,]   0   0   0   0   0   0   0   0   0   1
## [1163,]   0   0   0   0   0   1   0   0   0   0
## [1164,]   0   0   0   0   1   0   0   0   0   0
## [1165,]   0   0   0   0   1   0   0   0   0   0
## [1166,]   0   0   1   0   0   0   0   0   0   0
## [1167,]   0   0   0   0   0   0   0   1   0   0
## [1168,]   0   0   0   0   0   0   0   0   0   1
## [1169,]   1   0   0   0   0   0   0   0   0   0
## [1170,]   0   0   0   0   0   0   0   0   0   1
```

```
## [1171,]    0   0   0   0   0   0   0   0   1   0
## [1172,]    0   0   0   0   1   0   0   0   0   0
## [1173,]    0   0   0   0   1   0   0   0   0   0
## [1174,]    0   0   0   0   0   0   0   0   0   1
## [1175,]    0   1   0   0   0   0   0   0   0   0
## [1176,]    0   0   1   0   0   0   0   0   0   0
## [1177,]    0   0   0   0   1   0   0   0   0   0
## [1178,]    0   0   0   0   0   0   0   0   0   1
## [1179,]    0   0   0   1   0   0   0   0   0   0
## [1180,]    1   0   0   0   0   0   0   0   0   0
## [1181,]    0   0   0   0   1   0   0   0   0   0
## [1182,]    0   1   0   0   0   0   0   0   0   0
## [1183,]    0   0   0   0   0   0   1   0   0   0
## [1184,]    0   0   1   0   0   0   0   0   0   0
## [1185,]    0   0   0   0   0   0   1   0   0   0
## [1186,]    0   0   0   1   0   0   0   0   0   0
## [1187,]    0   0   0   0   0   0   0   1   0   0
## [1188,]    0   0   0   0   1   0   0   0   0   0
## [1189,]    0   0   1   0   0   0   0   0   0   0
## [1190,]    0   0   0   0   0   0   1   0   0   0
## [1191,]    0   0   0   0   0   0   1   0   0   0
## [1192,]    0   0   0   0   0   0   0   1   0   0
## [1193,]    0   1   0   0   0   0   0   0   0   0
## [1194,]    0   0   0   0   0   0   0   0   1   0
## [1195,]    0   0   0   0   0   0   0   0   0   1
## [1196,]    1   0   0   0   0   0   0   0   0   0
## [1197,]    0   0   0   0   1   0   0   0   0   0
## [1198,]    0   1   0   0   0   0   0   0   0   0
## [1199,]    0   0   0   0   1   0   0   0   0   0
## [1200,]    0   0   1   0   0   0   0   0   0   0
## [1201,]    0   1   0   0   0   0   0   0   0   0
## [1202,]    0   0   0   1   0   0   0   0   0   0
## [1203,]    0   0   0   0   0   0   1   0   0   0
## [1204,]    0   0   0   0   1   0   0   0   0   0
## [1205,]    0   0   0   0   0   0   1   0   0   0
## [1206,]    0   0   0   0   0   0   0   1   0   0
## [1207,]    0   0   0   0   0   1   0   0   0   0
## [1208,]    0   0   0   0   0   0   0   0   1   0
## [1209,]    0   0   0   0   0   0   0   1   0   0
## [1210,]    1   0   0   0   0   0   0   0   0   0
## [1211,]    0   0   0   0   0   1   0   0   0   0
## [1212,]    0   1   0   0   0   0   0   0   0   0
## [1213,]    0   0   0   0   1   0   0   0   0   0
## [1214,]    0   0   1   0   0   0   0   0   0   0
## [1215,]    0   0   0   0   0   0   0   0   1   0
## [1216,]    0   0   0   0   1   0   0   0   0   0
## [1217,]    0   0   0   0   0   0   0   1   0   0
## [1218,]    0   0   0   0   0   0   0   1   0   0
## [1219,]    0   0   0   1   0   0   0   0   0   0
## [1220,]    0   0   0   0   0   0   0   0   1   0
## [1221,]    0   0   0   0   1   0   0   0   0   0
## [1222,]    0   0   0   0   0   0   0   0   0   1
## [1223,]    0   0   0   0   0   1   0   0   0   0
## [1224,]    0   0   0   0   0   0   0   0   1   0
```

```
## [1225,]    0    0    0    0    0    0    1    0    0    0
## [1226,]    0    0    0    0    0    0    0    1    0    0
## [1227,]    0    0    0    1    0    0    0    0    0    0
## [1228,]    0    0    0    0    1    0    0    0    0    0
## [1229,]    0    0    0    0    0    0    1    0    0    0
## [1230,]    0    0    0    0    0    0    0    1    0    0
## [1231,]    0    1    0    0    0    0    0    0    0    0
## [1232,]    0    0    0    0    0    0    0    1    0    0
## [1233,]    0    0    0    0    1    0    0    1    0    0
## [1234,]    0    0    0    1    0    0    0    0    0    0
## [1235,]    0    0    0    1    0    0    0    0    0    0
## [1236,]    0    0    0    0    0    0    0    0    0    1
## [1237,]    0    0    0    0    0    0    0    0    1    0
## [1238,]    0    0    0    0    0    0    0    0    1    0
## [1239,]    0    1    0    0    0    0    0    0    0    0
## [1240,]    0    0    0    0    0    0    0    0    1    0
## [1241,]    0    0    0    0    0    0    1    0    0    0
## [1242,]    0    0    0    1    0    0    0    0    0    0
## [1243,]    0    1    0    0    0    0    0    0    0    0
## [1244,]    0    1    0    0    0    0    0    0    0    0
## [1245,]    0    0    0    1    0    0    0    0    0    0
## [1246,]    0    0    0    0    0    1    0    0    0    0
## [1247,]    0    0    1    0    0    0    0    0    0    0
## [1248,]    0    0    0    0    0    0    0    0    1    0
## [1249,]    0    0    0    0    1    0    0    0    0    0
## [1250,]    0    0    1    0    0    0    0    0    0    0
## [1251,]    0    0    0    0    0    0    0    0    0    1
## [1252,]    0    0    0    0    0    0    0    1    0    0
## [1253,]    0    1    0    0    0    0    0    0    0    0
## [1254,]    0    0    0    0    1    0    0    0    0    0
## [1255,]    0    0    0    0    0    0    0    0    1    0
## [1256,]    0    0    1    0    0    0    0    0    0    0
## [1257,]    0    0    0    0    0    0    0    0    0    1
## [1258,]    0    0    0    0    0    0    1    0    0    0
## [1259,]    0    0    0    0    1    0    0    0    0    0
## [1260,]    0    1    0    0    0    0    0    0    0    0
## [1261,]    0    0    0    1    0    0    0    0    0    0
## [1262,]    0    0    0    0    1    0    0    0    0    0
## [1263,]    0    0    1    0    0    0    0    0    0    0
## [1264,]    0    0    0    0    0    1    0    0    0    0
## [1265,]    0    0    1    0    0    0    0    0    0    0
## [1266,]    0    0    0    0    0    1    0    0    0    0
## [1267,]    0    0    0    0    0    0    1    0    0    0
## [1268,]    0    0    0    0    0    0    0    0    1    0
## [1269,]    1    0    0    0    0    0    0    0    0    0
## [1270,]    0    0    0    0    0    0    1    0    0    0
## [1271,]    0    0    1    0    0    0    0    0    0    0
## [1272,]    0    0    0    0    1    0    0    0    0    0
## [1273,]    0    0    0    0    0    0    0    0    0    1
## [1274,]    0    0    0    0    1    0    0    0    0    0
## [1275,]    0    0    0    0    0    0    0    0    0    1
## [1276,]    0    0    0    0    1    0    0    0    0    0
## [1277,]    0    0    0    0    0    1    0    0    0    0
## [1278,]    0    1    0    0    0    0    0    0    0    0
```

```
## [1279,]    0    0    0    0    0    1    0    0    0    0
## [1280,]    0    0    0    0    0    0    0    0    1    0
## [1281,]    0    0    0    0    1    0    0    0    0    0
## [1282,]    0    0    0    0    0    0    0    1    0    0
## [1283,]    0    0    0    0    0    0    0    0    0    1
## [1284,]    0    0    0    0    0    1    0    0    0    0
## [1285,]    0    0    0    0    0    0    0    0    0    1
## [1286,]    0    0    0    0    0    1    0    0    0    0
## [1287,]    0    0    0    0    0    0    0    0    0    1
## [1288,]    0    1    0    0    0    0    0    0    0    0
## [1289,]    0    0    0    0    0    1    0    0    0    0
## [1290,]    0    0    0    0    0    0    0    0    1    0
## [1291,]    0    0    0    1    0    0    0    0    0    0
## [1292,]    0    0    0    0    0    0    0    0    0    1
## [1293,]    0    0    0    0    0    0    0    0    0    1
## [1294,]    0    1    0    0    0    0    0    0    0    0
## [1295,]    0    0    0    0    0    0    0    0    1    0
## [1296,]    0    0    0    1    0    0    0    0    0    0
## [1297,]    0    0    0    0    0    0    0    0    1    0
## [1298,]    0    0    0    0    0    0    1    0    0    0
## [1299,]    0    0    0    0    0    1    0    0    0    0
## [1300,]    0    0    1    0    0    0    0    0    0    0
## [1301,]    0    0    0    0    0    0    0    1    0    0
## [1302,]    0    0    1    0    0    0    0    0    0    0
## [1303,]    0    0    0    0    0    0    0    1    0    0
## [1304,]    0    0    0    0    0    0    1    0    0    0
## [1305,]    1    0    0    0    0    0    0    0    0    0
## [1306,]    0    0    0    0    0    0    0    0    0    1
## [1307,]    0    0    0    0    0    0    0    1    0    0
## [1308,]    0    0    0    0    0    0    0    0    0    1
## [1309,]    0    0    0    0    1    0    0    0    0    0
## [1310,]    0    0    0    0    0    0    1    0    0    0
## [1311,]    1    0    0    0    0    0    0    0    0    0
## [1312,]    0    0    0    0    0    1    0    0    0    0
## [1313,]    0    0    0    1    0    0    0    0    0    0
## [1314,]    0    0    0    0    0    1    0    0    0    0
## [1315,]    0    0    0    0    0    0    0    1    0    0
## [1316,]    0    0    0    1    0    0    0    0    0    0
## [1317,]    0    0    0    0    0    0    0    0    0    1
## [1318,]    0    0    0    1    0    0    0    0    0    0
## [1319,]    0    0    0    0    0    0    1    0    0    0
## [1320,]    0    0    0    0    0    0    0    0    1    0
## [1321,]    0    0    0    1    0    0    0    0    0    0
## [1322,]    0    1    0    0    0    0    0    0    0    0
## [1323,]    0    0    0    0    0    0    0    1    0    0
## [1324,]    0    0    0    0    0    0    1    0    0    0
## [1325,]    0    0    0    0    0    1    0    0    0    0
## [1326,]    0    0    0    0    0    1    0    0    0    0
## [1327,]    0    0    0    0    0    0    0    1    0    0
## [1328,]    0    0    0    0    0    0    1    0    0    0
## [1329,]    0    0    0    0    0    1    0    0    0    0
## [1330,]    0    0    0    0    0    0    0    0    1    0
## [1331,]    0    0    1    0    0    0    0    0    0    0
## [1332,]    0    1    0    0    0    0    0    0    0    0
```

```
## [1333,]      0     0     0     0     0     0     0     1     0     0
## [1334,]      0     0     0     0     0     0     0     0     0     1
## [1335,]      0     0     1     0     0     0     0     0     0     0
## [1336,]      0     0     0     0     0     0     0     1     0     0
## [1337,]      0     0     0     1     0     0     0     0     0     0
## [1338,]      0     0     0     0     0     0     1     0     0     0
## [1339,]      0     0     0     0     0     0     0     1     0     0
## [1340,]      0     0     0     0     0     0     0     0     1     0
## [1341,]      0     0     0     0     0     1     0     0     0     0
## [1342,]      0     0     0     1     0     0     0     0     0     0
## [1343,]      0     0     0     0     0     0     0     1     0     0
## [1344,]      0     0     0     0     0     0     0     1     0     0
## [1345,]      0     0     0     0     0     0     0     0     1     0
## [1346,]      0     0     0     0     1     0     0     0     0     0
## [1347,]      1     0     0     0     0     0     0     0     0     0
## [1348,]      0     0     0     0     0     0     0     1     0     0
## [1349,]      0     0     0     1     0     0     0     0     0     0
## [1350,]      1     0     0     0     0     0     0     0     0     0
## [1351,]      0     0     0     0     0     0     1     0     0     0
## [1352,]      0     0     0     1     0     0     0     0     0     0
## [1353,]      0     0     0     0     0     0     0     0     0     1
## [1354,]      0     0     0     0     0     0     0     1     0     0
## [1355,]      0     1     0     0     0     0     0     0     0     0
## [1356,]      0     0     0     0     0     0     0     0     0     1
## [1357,]      0     0     0     0     0     1     0     0     0     0
## [1358,]      0     0     0     1     0     0     0     0     0     0
## [1359,]      0     0     0     0     0     0     1     0     0     0
## [1360,]      1     0     0     0     0     0     0     0     0     0
## [1361,]      0     0     0     0     0     0     0     0     0     1
## [1362,]      0     0     1     0     0     0     0     0     0     0
## [1363,]      0     0     0     0     0     0     0     0     1     0
## [1364,]      1     0     0     0     0     0     0     0     0     0
## [1365,]      0     0     0     0     0     0     0     0     0     1
## [1366,]      0     1     0     0     0     0     0     0     0     0
## [1367,]      0     0     0     0     0     0     1     0     0     0
## [1368,]      1     0     0     0     0     0     0     0     0     0
## [1369,]      1     0     0     0     0     0     0     0     0     0
## [1370,]      0     1     0     0     0     0     0     0     0     0
## [1371,]      0     0     0     0     0     0     0     0     0     1
## [1372,]      1     0     0     0     0     0     0     0     0     0
## [1373,]      1     0     0     0     0     0     0     0     0     0
## [1374,]      0     0     0     0     1     0     0     0     0     0
## [1375,]      0     0     1     0     0     0     0     0     0     0
## [1376,]      0     1     0     0     0     0     0     0     0     0
## [1377,]      0     0     0     0     0     0     0     1     0     0
## [1378,]      1     0     0     0     0     0     0     0     0     0
## [1379,]      0     0     0     1     0     0     0     0     0     0
## [1380,]      0     0     0     0     1     0     0     0     0     0
## [1381,]      0     0     0     0     1     0     0     0     0     0
## [1382,]      0     0     0     0     0     0     0     1     0     0
## [1383,]      0     0     0     0     0     1     0     0     0     0
## [1384,]      0     0     0     0     0     0     0     0     0     1
## [1385,]      0     0     0     0     0     0     0     0     1     0
## [1386,]      0     0     1     0     0     0     0     0     0     0
```

```
## [1387,]    1    0    0    0    0    0    0    0    0    0
## [1388,]    1    0    0    0    0    0    0    0    0    0
## [1389,]    0    0    0    0    0    0    0    0    1    0
## [1390,]    0    0    0    0    0    0    1    0    0    0
## [1391,]    0    0    1    0    0    0    0    0    0    0
## [1392,]    0    0    1    0    0    0    0    0    0    0
## [1393,]    0    0    0    0    0    0    0    1    0    0
## [1394,]    0    0    0    0    0    0    1    0    0    0
## [1395,]    0    1    0    0    0    0    0    0    0    0
## [1396,]    0    0    1    0    0    0    0    0    0    0
## [1397,]    0    0    0    0    0    0    0    0    0    1
## [1398,]    0    0    1    0    0    0    0    0    0    0
## [1399,]    0    0    0    0    0    0    1    0    0    0
## [1400,]    0    0    0    0    0    0    0    0    0    1
## [1401,]    0    0    0    0    0    0    0    1    0    0
## [1402,]    0    0    0    0    0    0    0    0    0    1
## [1403,]    0    0    0    0    0    1    0    0    0    0
## [1404,]    1    0    0    0    0    0    0    0    0    0
## [1405,]    0    0    0    0    0    0    0    0    1    0
## [1406,]    0    1    0    0    0    0    0    0    0    0
## [1407,]    0    0    0    0    0    1    0    0    0    0
## [1408,]    0    0    1    0    0    0    0    0    0    0
## [1409,]    0    0    0    0    1    0    0    0    0    0
## [1410,]    0    0    0    1    0    0    0    0    0    0
## [1411,]    0    0    0    0    0    0    0    0    0    1
## [1412,]    0    0    0    0    1    0    0    0    0    0
## [1413,]    0    0    0    0    0    0    0    1    0    0
## [1414,]    0    0    0    0    0    1    0    0    0    0
## [1415,]    0    0    0    0    0    0    1    0    0    0
## [1416,]    0    0    0    0    0    0    1    0    0    0
## [1417,]    0    0    0    0    0    0    0    1    0    0
## [1418,]    0    0    0    0    0    0    0    1    0    0
## [1419,]    0    0    0    0    0    0    1    0    0    0
## [1420,]    0    0    0    0    0    0    0    0    1    0
## [1421,]    0    0    0    0    0    1    0    0    0    0
## [1422,]    0    0    0    0    0    0    0    0    0    1
## [1423,]    0    0    0    0    0    0    0    1    0    0
## [1424,]    1    0    0    0    0    0    0    0    0    0
## [1425,]    0    0    0    0    0    0    1    0    0    0
## [1426,]    0    1    0    0    0    0    0    0    0    0
## [1427,]    0    0    0    0    0    0    0    0    0    1
## [1428,]    0    0    1    0    0    0    0    0    0    0
## [1429,]    0    0    0    1    0    0    0    0    0    0
## [1430,]    0    0    0    1    0    0    0    0    0    0
## [1431,]    0    0    0    0    0    1    0    0    0    0
## [1432,]    0    0    0    0    1    0    0    0    0    0
## [1433,]    0    0    0    1    0    0    0    0    0    0
## [1434,]    0    0    0    0    0    1    0    0    0    0
## [1435,]    0    0    0    0    0    0    0    0    1    0
## [1436,]    0    0    0    0    0    0    1    0    0    0
## [1437,]    0    0    0    1    0    0    0    0    0    0
## [1438,]    0    0    0    0    0    0    0    1    0    0
## [1439,]    0    0    1    0    0    0    0    0    0    0
## [1440,]    0    0    0    0    0    0    0    0    1    0
```

```
## [1441,]    0    0    0    0    1    0    0    0    0    0
## [1442,]    0    0    0    0    0    0    0    0    0    1
## [1443,]    0    0    0    0    0    1    0    0    0    0
## [1444,]    1    0    0    0    0    0    0    0    0    0
## [1445,]    0    0    1    0    0    0    0    0    0    0
## [1446,]    0    1    0    0    0    0    0    0    0    0
## [1447,]    0    0    0    0    1    0    0    0    0    0
## [1448,]    0    0    1    0    0    0    0    0    0    0
## [1449,]    0    0    0    0    1    0    0    0    0    0
## [1450,]    0    0    0    1    0    0    0    0    0    0
## [1451,]    0    1    0    0    0    0    0    0    0    0
## [1452,]    0    0    0    0    0    0    0    1    0    0
## [1453,]    0    1    0    0    0    0    0    0    0    0
## [1454,]    0    0    0    0    0    0    0    0    1    0
## [1455,]    1    0    0    0    0    0    0    0    0    0
## [1456,]    0    0    0    0    0    0    0    0    0    1
## [1457,]    0    0    0    0    0    0    1    0    0    0
## [1458,]    0    0    0    0    0    0    0    0    1    0
## [1459,]    0    1    0    0    0    0    0    0    0    0
## [1460,]    0    0    0    0    0    0    0    0    0    1
## [1461,]    0    0    0    0    1    0    0    0    0    0
## [1462,]    0    0    0    0    1    0    0    0    0    0
## [1463,]    0    0    0    0    0    0    0    0    0    1
## [1464,]    0    1    0    0    0    0    0    0    0    0
## [1465,]    0    0    0    0    0    0    0    0    1    0
## [1466,]    0    0    0    0    0    0    0    0    0    1
## [1467,]    0    0    0    0    0    0    1    0    0    0
## [1468,]    0    0    0    0    0    1    0    0    0    0
## [1469,]    0    0    0    0    0    1    0    0    0    0
## [1470,]    0    0    0    1    0    0    0    0    0    0
## [1471,]    0    0    0    1    0    0    0    0    0    0
## [1472,]    1    0    0    0    0    0    0    0    0    0
## [1473,]    0    1    0    0    0    0    0    0    0    0
## [1474,]    0    0    0    0    1    0    0    0    0    0
## [1475,]    0    0    0    1    0    0    0    0    0    0
## [1476,]    0    0    0    0    0    0    0    0    1    0
## [1477,]    0    0    0    1    0    0    0    0    0    0
## [1478,]    0    0    0    0    1    0    0    0    0    0
## [1479,]    0    0    1    0    0    0    0    0    0    0
## [1480,]    1    0    0    0    0    0    0    0    0    0
## [1481,]    0    0    0    0    0    0    0    1    0    0
## [1482,]    0    0    0    0    0    1    0    0    0    0
## [1483,]    0    0    0    0    0    1    0    0    0    0
## [1484,]    0    1    0    0    0    0    0    0    0    0
## [1485,]    0    0    0    0    0    0    0    0    1    0
## [1486,]    0    0    0    0    0    1    0    0    0    0
## [1487,]    0    0    0    1    0    0    0    0    0    0
## [1488,]    0    0    0    0    1    0    0    0    0    0
## [1489,]    0    0    0    0    0    0    1    0    0    0
## [1490,]    1    0    0    0    0    0    0    0    0    0
## [1491,]    0    0    0    0    0    1    0    0    0    0
## [1492,]    0    0    0    0    0    0    0    1    0    0
## [1493,]    0    0    1    0    0    0    0    0    0    0
## [1494,]    0    0    0    0    0    0    1    0    0    0
```

```
## [1495,]    0    0    0    0    0    0    1    0    0    0
## [1496,]    1    0    0    0    0    0    0    0    0    0
## [1497,]    0    1    0    0    0    0    0    0    0    0
## [1498,]    0    1    0    0    0    0    0    0    0    0
## [1499,]    0    0    0    0    1    0    0    0    0    0
## [1500,]    0    0    0    0    0    0    0    1    0    0
## [1501,]    0    0    0    0    0    0    0    0    0    1
## [1502,]    1    0    0    0    0    0    0    0    0    0
## [1503,]    1    0    0    0    0    0    0    0    0    0
## [1504,]    0    0    0    0    0    0    1    0    0    0
## [1505,]    0    0    0    0    0    0    1    0    0    0
## [1506,]    0    0    0    0    0    0    0    0    1    0
## [1507,]    0    0    0    0    0    0    1    0    0    0
## [1508,]    0    0    0    0    0    0    0    0    0    1
## [1509,]    0    0    0    0    1    0    0    0    0    0
## [1510,]    0    0    0    0    0    1    0    0    0    0
## [1511,]    0    0    1    0    0    0    0    0    0    0
## [1512,]    0    0    0    0    1    0    0    0    0    0
## [1513,]    1    0    0    0    0    0    0    0    0    0
## [1514,]    0    0    0    0    0    0    0    1    0    0
## [1515,]    0    0    0    0    0    1    0    0    0    0
## [1516,]    0    0    0    0    0    0    1    0    0    0
## [1517,]    0    0    0    0    0    1    0    0    0    0
## [1518,]    1    0    0    0    0    0    0    0    0    0
## [1519,]    0    0    0    0    0    0    0    0    0    1
## [1520,]    0    0    0    0    0    0    0    0    1    0
## [1521,]    0    0    0    0    0    0    1    0    0    0
## [1522,]    0    1    0    0    0    0    0    0    0    0
## [1523,]    0    0    0    0    0    0    0    0    0    1
## [1524,]    0    0    0    0    0    0    0    1    0    0
## [1525,]    0    0    0    0    0    1    0    0    0    0
## [1526,]    0    0    0    0    0    0    0    1    0    0
## [1527,]    0    0    0    0    0    1    0    0    0    0
## [1528,]    0    1    0    0    0    0    0    0    0    0
## [1529,]    0    1    0    0    0    0    0    0    0    0
## [1530,]    0    0    0    1    0    0    0    0    0    0
## [1531,]    1    0    0    0    0    0    0    0    0    0
## [1532,]    0    0    1    0    0    0    0    0    0    0
## [1533,]    1    0    0    0    0    0    0    0    0    0
## [1534,]    0    0    0    1    0    0    0    0    0    0
## [1535,]    0    0    0    0    0    0    0    0    1    0
## [1536,]    0    1    0    0    0    0    0    0    0    0
## [1537,]    0    0    0    0    0    0    1    0    0    0
## [1538,]    0    0    0    0    1    0    0    0    0    0
## [1539,]    0    0    0    0    0    0    1    0    0    0
## [1540,]    0    0    1    0    0    0    0    0    0    0
## [1541,]    0    0    0    0    0    0    1    0    0    0
## [1542,]    0    0    0    0    1    0    0    0    0    0
## [1543,]    0    0    0    0    0    0    0    0    1    0
## [1544,]    0    0    0    0    0    0    0    0    1    0
## [1545,]    0    1    0    0    0    0    0    0    0    0
## [1546,]    0    0    0    0    1    0    0    0    0    0
## [1547,]    0    0    0    0    1    0    0    0    0    0
## [1548,]    0    0    0    0    0    0    0    1    0    0
```

```
## [1549,]   0   1   0   0   0   0   0   0   0   0
## [1550,]   0   0   1   0   0   0   0   0   0   0
## [1551,]   0   0   1   0   0   0   0   0   0   0
## [1552,]   0   0   0   1   0   0   0   0   0   0
## [1553,]   0   0   0   0   0   0   0   0   0   1
## [1554,]   0   0   0   0   0   0   1   0   0   0
## [1555,]   0   0   0   0   1   0   0   0   0   0
## [1556,]   0   0   0   0   0   0   0   0   0   1
## [1557,]   0   0   0   0   0   1   0   0   0   0
## [1558,]   0   0   0   0   0   0   1   0   0   0
## [1559,]   0   0   1   0   0   0   0   0   0   0
## [1560,]   0   0   0   1   0   0   0   0   0   0
## [1561,]   0   0   0   0   0   0   0   0   0   1
## [1562,]   0   0   1   0   0   0   0   0   0   0
## [1563,]   0   0   0   0   0   0   1   0   0   0
## [1564,]   0   0   1   0   0   0   0   0   0   0
## [1565,]   0   0   0   0   0   0   0   1   0   0
## [1566,]   0   0   0   0   1   0   0   0   0   0
## [1567,]   0   0   0   1   0   0   0   0   0   0
## [1568,]   0   0   0   0   0   0   1   0   0   0
## [1569,]   0   0   0   0   1   0   0   0   0   0
## [1570,]   0   0   0   0   0   0   0   0   0   1
## [1571,]   0   0   0   0   0   0   0   1   0   0
## [1572,]   1   0   0   0   0   0   0   0   0   0
## [1573,]   0   0   1   0   0   0   0   0   0   0
## [1574,]   0   0   1   0   0   0   0   0   0   0
## [1575,]   0   0   0   0   0   0   0   0   0   1
## [1576,]   0   0   0   0   0   1   0   0   0   0
## [1577,]   0   0   0   0   1   0   0   0   0   0
## [1578,]   0   0   0   0   0   1   0   0   0   0
## [1579,]   1   0   0   0   0   0   0   0   0   0
## [1580,]   0   1   0   0   0   0   0   0   0   0
## [1581,]   0   0   0   0   1   0   0   0   0   0
## [1582,]   0   0   0   1   0   0   0   0   0   0
## [1583,]   0   0   0   0   0   0   1   0   0   0
## [1584,]   0   0   0   1   0   0   0   0   0   0
## [1585,]   0   0   1   0   0   0   0   0   0   0
## [1586,]   0   0   0   0   0   0   0   0   0   1
## [1587,]   0   0   0   0   0   0   0   1   0   0
## [1588,]   0   0   0   0   0   1   0   0   0   0
## [1589,]   0   0   0   1   0   0   0   0   0   0
## [1590,]   0   0   0   0   0   0   0   1   0   0
## [1591,]   1   0   0   0   0   0   0   0   0   0
## [1592,]   0   0   0   0   0   0   0   0   0   1
## [1593,]   0   0   0   0   0   1   0   0   0   0
## [1594,]   0   0   0   0   0   0   0   0   1   0
## [1595,]   0   0   0   1   0   0   0   0   0   0
## [1596,]   0   0   1   0   0   0   0   0   0   0
## [1597,]   1   0   0   0   0   0   0   0   0   0
## [1598,]   0   1   0   0   0   0   0   0   0   0
## [1599,]   0   0   0   0   0   0   0   0   1   0
## [1600,]   0   0   0   1   0   0   0   0   0   0
## [1601,]   1   0   0   0   0   0   0   0   0   0
## [1602,]   0   1   0   0   0   0   0   0   0   0
```

```
## [1603,]    0    0    1    0    0    0    0    0    0    0
## [1604,]    0    0    0    1    0    0    0    0    0    0
## [1605,]    0    0    0    0    1    0    0    0    0    0
## [1606,]    1    0    0    0    0    0    0    0    0    0
## [1607,]    1    0    0    0    0    0    0    0    0    0
## [1608,]    0    1    0    0    0    0    0    0    0    0
## [1609,]    0    0    0    0    0    0    0    1    0    0
## [1610,]    0    0    1    0    0    0    0    0    0    0
## [1611,]    0    0    0    0    0    0    0    0    0    1
## [1612,]    0    0    0    1    0    0    0    0    0    0
## [1613,]    0    0    0    0    0    0    0    0    0    1
## [1614,]    0    0    0    0    1    0    0    0    0    0
## [1615,]    0    0    1    0    0    0    0    0    0    0
## [1616,]    0    0    0    0    0    1    0    0    0    0
## [1617,]    0    0    0    0    0    0    0    0    1    0
## [1618,]    0    0    0    0    0    0    1    0    0    0
## [1619,]    0    0    0    0    0    0    0    1    0    0
## [1620,]    0    0    0    0    0    0    0    1    0    0
## [1621,]    0    0    0    0    0    0    0    0    0    1
## [1622,]    0    0    0    0    0    0    0    0    1    0
## [1623,]    0    0    0    0    0    0    0    0    0    1
## [1624,]    0    0    0    0    0    0    0    0    0    1
## [1625,]    0    0    1    0    0    0    0    0    0    0
## [1626,]    1    0    0    0    0    0    0    0    0    0
## [1627,]    1    0    0    0    0    0    0    0    0    0
## [1628,]    0    1    0    0    0    0    0    0    0    0
## [1629,]    0    0    0    0    1    0    0    0    0    0
## [1630,]    0    0    1    0    0    0    0    0    0    0
## [1631,]    0    0    0    0    1    0    0    0    0    0
## [1632,]    0    0    0    1    0    0    0    0    0    0
## [1633,]    0    0    0    0    0    0    0    0    0    1
## [1634,]    0    0    0    0    1    0    0    0    0    0
## [1635,]    0    0    0    1    0    0    0    0    0    0
## [1636,]    0    0    0    0    0    1    0    0    0    0
## [1637,]    0    0    0    0    0    0    0    1    0    0
## [1638,]    0    0    0    0    0    0    1    0    0    0
## [1639,]    0    0    0    0    0    1    0    0    0    0
## [1640,]    0    0    0    0    0    0    0    1    0    0
## [1641,]    0    1    0    0    0    0    0    0    0    0
## [1642,]    0    0    0    0    0    0    0    0    1    0
## [1643,]    0    0    0    0    0    0    1    0    0    0
## [1644,]    0    0    0    0    0    0    0    0    0    1
## [1645,]    0    0    0    1    0    0    0    0    0    0
## [1646,]    1    0    0    0    0    0    0    0    0    0
## [1647,]    0    0    0    0    1    0    0    0    0    0
## [1648,]    0    1    0    0    0    0    0    0    0    0
## [1649,]    0    0    1    0    0    0    0    0    0    0
## [1650,]    0    0    1    0    0    0    0    0    0    0
## [1651,]    0    0    0    0    0    1    0    0    0    0
## [1652,]    0    0    0    1    0    0    0    0    0    0
## [1653,]    0    0    0    0    0    0    0    1    0    0
## [1654,]    0    0    0    0    1    0    0    0    0    0
## [1655,]    0    1    0    0    0    0    0    0    0    0
## [1656,]    0    0    0    0    0    0    0    1    0    0
```

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```
##  [1657,]    0    0    0    0    0    0    0    1    0    0
##  [1658,]    0    0    0    0    0    0    0    0    1    0
##  [1659,]    0    1    0    0    0    0    0    0    0    0
##  [1660,]    0    0    0    0    0    0    0    0    0    1
##  [1661,]    0    0    1    0    0    0    0    0    0    0
##  [1662,]    0    0    0    1    0    0    0    0    0    0
##  [1663,]    0    0    1    0    0    0    0    0    0    0
##  [1664,]    0    0    0    0    1    0    0    0    0    0
##  [1665,]    1    0    0    0    0    0    0    0    0    0
##  [1666,]    0    1    0    0    0    0    0    0    0    0
##  [1667,]    0    0    0    0    0    0    0    0    1    0
##  [1668,]    0    0    0    0    1    0    0    0    0    0
##  [1669,]    0    0    0    1    0    0    0    0    0    0
##  [1670,]    0    0    0    0    0    0    1    0    0    0
##  [1671,]    0    0    0    0    0    1    0    0    0    0
##  [1672,]    0    0    0    0    0    0    1    0    0    0
##  [1673,]    0    0    0    0    1    0    0    0    0    0
##  [1674,]    0    0    0    0    0    0    0    1    0    0
##  [1675,]    0    0    0    0    0    0    0    0    0    1
##  [1676,]    0    0    0    1    0    0    0    0    0    0
##  [1677,]    0    1    0    0    0    0    0    0    0    0
##  [1678,]    0    0    0    1    0    0    0    0    0    0
##  [1679,]    1    0    0    0    0    0    0    0    0    0
##  [1680,]    0    0    1    0    0    0    0    0    0    0
##  [1681,]    0    1    0    0    0    0    0    0    0    0
##  [1682,]    0    1    0    0    0    0    0    0    0    0
##  [1683,]    1    0    0    0    0    0    0    0    0    0
##  [1684,]    0    0    0    0    0    0    0    0    0    1
##  [1685,]    0    0    0    0    0    0    0    0    0    1
##  [1686,]    0    0    0    0    1    0    0    0    0    0
##  [1687,]    0    0    0    0    0    0    1    0    0    0
##  [1688,]    0    0    0    0    0    0    0    1    0    0
##  [1689,]    0    0    0    0    0    0    1    0    0    0
##  [1690,]    0    0    0    1    0    0    0    0    0    0
##  [1691,]    0    0    0    0    0    1    0    0    0    0
##  [1692,]    0    0    0    0    0    1    0    0    0    0
##  [1693,]    0    0    0    0    1    0    0    0    0    0
##  [1694,]    0    0    0    0    1    0    0    0    0    0
##  [1695,]    0    0    0    0    0    0    1    0    0    0
##  [1696,]    0    0    0    0    0    0    0    0    0    1
##  [1697,]    0    1    0    0    0    0    0    0    0    0
##  [1698,]    0    1    0    0    0    0    0    0    0    0
##  [1699,]    0    0    0    1    0    0    0    0    0    0
##  [1700,]    0    1    0    0    0    0    0    0    0    0
##  [1701,]    0    1    0    0    0    0    0    0    0    0
##  [1702,]    1    0    0    0    0    0    0    0    0    0
##  [1703,]    0    0    0    0    0    1    0    0    0    0
##  [1704,]    0    1    0    0    0    0    0    0    0    0
##  [1705,]    0    0    0    0    1    0    0    0    0    0
##  [1706,]    0    0    0    0    1    0    0    0    0    0
##  [1707,]    0    0    0    0    0    0    1    0    0    0
##  [1708,]    0    0    0    0    0    0    1    0    0    0
##  [1709,]    0    0    0    0    0    0    1    0    0    0
##  [1710,]    1    0    0    0    0    0    0    0    0    0
```

```
## [1711,]    0    1    0    0    0    0    0    0    0    0
## [1712,]    0    0    1    0    0    0    0    0    0    0
## [1713,]    1    0    0    0    0    0    0    0    0    0
## [1714,]    0    0    0    0    0    0    0    0    1    0
## [1715,]    0    0    1    0    0    0    0    0    0    0
## [1716,]    0    0    1    0    0    0    0    0    0    0
## [1717,]    0    1    0    0    0    0    0    0    0    0
## [1718,]    0    1    0    0    0    0    0    0    0    0
## [1719,]    0    0    0    1    0    0    0    0    0    0
## [1720,]    0    0    0    0    0    0    0    1    0    0
## [1721,]    0    0    0    0    0    0    0    0    0    1
## [1722,]    0    0    0    0    0    1    0    0    0    0
## [1723,]    0    0    0    1    0    0    0    0    0    0
## [1724,]    1    0    0    0    0    0    0    0    0    0
## [1725,]    0    0    1    0    0    0    0    0    0    0
## [1726,]    1    0    0    0    0    0    0    0    0    0
## [1727,]    0    0    0    0    0    0    1    0    0    0
## [1728,]    0    0    1    0    0    0    0    0    0    0
## [1729,]    0    0    0    0    0    0    0    0    0    1
## [1730,]    1    0    0    0    0    0    0    0    0    0
## [1731,]    0    0    0    0    0    0    0    1    0    0
## [1732,]    0    0    0    0    0    0    1    0    0    0
## [1733,]    0    0    0    0    0    0    0    0    0    1
## [1734,]    0    0    0    0    0    0    0    0    0    1
## [1735,]    0    1    0    0    0    0    0    0    0    0
## [1736,]    0    0    1    0    0    0    0    0    0    0
## [1737,]    0    0    0    0    0    0    0    0    0    1
## [1738,]    0    0    0    1    0    0    0    0    0    0
## [1739,]    0    0    0    0    1    0    0    0    0    0
## [1740,]    0    0    0    0    0    0    0    1    0    0
## [1741,]    0    0    0    0    0    0    0    0    0    1
## [1742,]    0    0    0    0    0    0    1    0    0    0
## [1743,]    1    0    0    0    0    0    0    0    0    0
## [1744,]    0    0    0    0    0    0    0    0    0    1
## [1745,]    0    0    0    0    1    0    0    0    0    0
## [1746,]    0    0    0    0    0    0    0    0    1    0
## [1747,]    0    0    0    0    0    0    0    1    0    0
## [1748,]    0    0    0    0    0    0    0    1    0    0
## [1749,]    0    0    0    0    0    0    0    0    0    1
## [1750,]    0    0    0    0    0    0    0    0    1    0
## [1751,]    0    0    0    0    0    0    1    0    0    0
## [1752,]    0    0    0    0    0    0    0    0    0    1
## [1753,]    0    0    0    0    0    1    0    0    0    0
## [1754,]    0    0    1    0    0    0    0    0    0    0
## [1755,]    0    0    1    0    0    0    0    0    0    0
## [1756,]    0    0    1    0    0    0    0    0    0    0
## [1757,]    0    0    0    1    0    0    0    0    0    0
## [1758,]    0    0    0    0    0    0    0    0    0    1
## [1759,]    0    0    0    0    0    0    0    0    1    0
## [1760,]    0    0    0    0    0    0    0    0    1    0
## [1761,]    0    0    0    0    0    0    0    0    1    0
## [1762,]    0    0    0    0    0    0    1    0    0    0
## [1763,]    0    0    0    0    1    0    0    0    0    0
## [1764,]    0    0    0    0    1    0    0    0    0    0
```

```
## [1765,]    0    0    0    0    1    0    0    0    0    0
## [1766,]    0    0    0    0    1    0    0    0    0    0
## [1767,]    0    0    1    0    0    0    0    0    0    0
## [1768,]    0    0    0    0    1    0    0    0    0    0
## [1769,]    0    0    0    0    0    0    1    0    0    0
## [1770,]    1    0    0    0    0    0    0    0    0    0
## [1771,]    0    0    0    0    0    0    0    1    0    0
## [1772,]    1    0    0    0    0    0    0    0    0    0
## [1773,]    0    0    0    0    0    0    0    1    0    0
## [1774,]    0    0    0    0    0    0    0    0    1    0
## [1775,]    0    0    1    0    0    0    0    0    0    0
## [1776,]    1    0    0    0    0    0    0    0    0    0
## [1777,]    0    0    0    0    0    0    0    0    1    0
## [1778,]    0    0    0    0    0    0    0    0    1    0
## [1779,]    0    0    0    1    0    0    0    0    0    0
## [1780,]    0    0    0    0    0    0    1    0    0    0
## [1781,]    0    0    0    0    0    0    0    0    1    0
## [1782,]    0    0    0    0    0    0    1    0    0    0
## [1783,]    0    0    0    0    0    0    1    0    0    0
## [1784,]    0    0    0    0    0    0    0    0    1    0
## [1785,]    0    0    0    0    0    0    1    0    0    0
## [1786,]    0    0    0    0    0    1    0    0    0    0
## [1787,]    0    1    0    0    0    0    0    0    0    0
## [1788,]    0    1    0    0    0    0    0    0    0    0
## [1789,]    0    0    0    0    0    0    0    0    1    0
## [1790,]    0    0    0    0    0    0    0    1    0    0
## [1791,]    0    0    0    0    0    0    0    0    1    0
## [1792,]    0    0    0    1    0    0    0    0    0    0
## [1793,]    0    0    0    0    0    0    1    0    0    0
## [1794,]    0    0    0    0    0    0    0    0    1    0
## [1795,]    0    0    0    0    0    0    0    0    0    1
## [1796,]    0    0    0    0    0    1    0    0    0    0
## [1797,]    1    0    0    0    0    0    0    0    0    0
## [1798,]    1    0    0    0    0    0    0    0    0    0
## [1799,]    1    0    0    0    0    0    0    0    0    0
## [1800,]    0    0    0    1    0    0    0    0    0    0
## [1801,]    0    0    1    0    0    0    0    0    0    0
## [1802,]    0    0    0    0    0    0    1    0    0    0
## [1803,]    0    0    0    0    0    0    1    0    0    0
## [1804,]    0    0    0    0    0    0    0    1    0    0
## [1805,]    0    0    0    0    0    0    0    0    1    0
## [1806,]    0    0    0    1    0    0    0    0    0    0
## [1807,]    0    0    0    0    0    1    0    0    0    0
## [1808,]    0    1    0    0    0    0    0    0    0    0
## [1809,]    0    0    0    0    1    0    0    0    0    0
## [1810,]    0    0    0    1    0    0    0    0    0    0
## [1811,]    0    0    0    0    0    1    0    0    0    0
## [1812,]    0    0    0    0    0    0    0    0    0    1
## [1813,]    0    0    0    0    1    0    0    0    0    0
## [1814,]    0    0    0    0    0    1    0    0    0    0
## [1815,]    0    0    0    0    1    0    0    0    0    0
## [1816,]    0    1    0    0    0    0    0    0    0    0
## [1817,]    0    1    0    0    0    0    0    0    0    0
## [1818,]    0    0    0    0    0    1    0    0    0    0
```

```
##  [1819,]    0    0    0    0    1    0    0    0    0    0
##  [1820,]    1    0    0    0    0    0    0    0    0    0
##  [1821,]    0    0    0    0    0    0    0    0    0    1
##  [1822,]    0    0    0    0    0    0    0    1    0    0
##  [1823,]    0    1    0    0    0    0    0    0    0    0
##  [1824,]    0    0    1    0    0    0    0    0    0    0
##  [1825,]    0    0    0    0    0    1    0    0    0    0
##  [1826,]    0    0    0    0    0    0    0    1    0    0
##  [1827,]    0    0    0    0    0    0    0    0    0    1
##  [1828,]    0    0    0    0    1    0    0    0    0    0
##  [1829,]    1    0    0    0    0    0    0    0    0    0
##  [1830,]    0    0    0    1    0    0    0    0    0    0
##  [1831,]    0    0    0    0    0    0    1    0    0    0
##  [1832,]    0    1    0    0    0    0    0    0    0    0
##  [1833,]    0    0    0    0    0    0    0    1    0    0
##  [1834,]    0    0    0    0    0    0    0    1    0    0
##  [1835,]    0    0    0    0    0    1    0    0    0    0
##  [1836,]    0    0    0    0    0    0    1    0    0    0
##  [1837,]    0    0    0    1    0    0    0    0    0    0
##  [1838,]    1    0    0    0    0    0    0    0    0    0
##  [1839,]    0    1    0    0    0    0    0    0    0    0
##  [1840,]    0    1    0    0    0    0    0    0    0    0
##  [1841,]    0    0    0    0    1    0    0    0    0    0
##  [1842,]    0    0    1    0    0    0    0    0    0    0
##  [1843,]    0    0    0    0    1    0    0    0    0    0
##  [1844,]    0    0    0    1    0    0    0    0    0    0
##  [1845,]    0    0    0    0    0    0    1    0    0    0
##  [1846,]    0    0    0    0    1    0    0    0    0    0
##  [1847,]    0    0    0    0    0    0    0    1    0    0
##  [1848,]    0    0    0    0    0    1    0    0    0    0
##  [1849,]    0    0    0    0    0    0    0    1    0    0
##  [1850,]    0    0    0    0    0    0    1    0    0    0
##  [1851,]    0    0    0    0    0    0    0    0    0    1
##  [1852,]    0    0    0    0    0    0    0    1    0    0
##  [1853,]    0    0    1    0    0    0    0    0    0    0
##  [1854,]    0    0    0    0    0    0    0    0    1    0
##  [1855,]    0    0    0    0    1    0    0    0    0    0
##  [1856,]    0    0    0    0    0    0    0    0    0    1
##  [1857,]    0    0    0    0    0    0    0    0    1    0
##  [1858,]    1    0    0    0    0    0    0    0    0    0
##  [1859,]    0    0    0    0    0    0    0    1    0    0
##  [1860,]    0    1    0    0    0    0    0    0    0    0
##  [1861,]    0    1    0    0    0    0    0    0    0    0
##  [1862,]    0    0    1    0    0    0    0    0    0    0
##  [1863,]    0    0    0    1    0    0    0    0    0    0
##  [1864,]    0    0    0    1    0    0    0    0    0    0
##  [1865,]    0    0    0    0    0    1    0    0    0    0
##  [1866,]    0    0    0    0    1    0    0    0    0    0
##  [1867,]    0    0    0    0    0    0    1    0    0    0
##  [1868,]    0    0    0    0    0    1    0    0    0    0
##  [1869,]    1    0    0    0    0    0    0    0    0    0
##  [1870,]    0    0    0    0    0    0    1    0    0    0
##  [1871,]    0    0    0    1    0    0    0    0    0    0
##  [1872,]    0    0    0    0    0    0    0    1    0    0
```

```
## [1873,]     0    0    0    1    0    0    0    0    0    0
## [1874,]     0    0    0    0    0    0    0    0    1    0
## [1875,]     0    0    1    0    0    0    0    0    0    0
## [1876,]     0    0    0    0    0    0    0    0    0    1
## [1877,]     1    0    0    0    0    0    0    0    0    0
## [1878,]     1    0    0    0    0    0    0    0    0    0
## [1879,]     0    0    0    0    0    0    0    0    0    1
## [1880,]     0    1    0    0    0    0    0    0    0    0
## [1881,]     0    0    1    0    0    0    0    0    0    0
## [1882,]     0    0    1    0    0    0    0    0    0    0
## [1883,]     0    0    0    0    0    0    0    0    0    1
## [1884,]     0    0    0    1    0    0    0    0    0    0
## [1885,]     0    0    0    0    0    0    0    0    0    1
## [1886,]     0    0    0    0    1    0    0    0    0    0
## [1887,]     0    0    0    0    0    0    1    0    0    0
## [1888,]     0    0    0    0    0    1    0    0    0    0
## [1889,]     0    0    1    0    0    0    0    0    0    0
## [1890,]     0    0    0    0    0    0    1    0    0    0
## [1891,]     0    0    0    0    0    0    1    0    0    0
## [1892,]     0    0    0    0    0    0    0    1    0    0
## [1893,]     0    0    0    0    0    0    1    0    0    0
## [1894,]     0    0    0    0    0    0    0    0    1    0
## [1895,]     0    0    1    0    0    0    0    0    0    0
## [1896,]     0    0    0    0    0    0    0    0    0    1
## [1897,]     0    0    1    0    0    0    0    0    0    0
## [1898,]     1    0    0    0    0    0    0    0    0    0
## [1899,]     0    0    0    0    0    0    1    0    0    0
## [1900,]     0    0    0    0    0    0    0    1    0    0
## [1901,]     0    0    1    0    0    0    0    0    0    0
## [1902,]     0    0    0    0    0    0    0    0    1    0
## [1903,]     0    0    0    0    0    0    1    0    0    0
## [1904,]     0    0    0    0    0    0    0    0    0    1
## [1905,]     1    0    0    0    0    0    0    0    0    0
## [1906,]     0    0    0    0    0    0    0    0    0    1
## [1907,]     0    0    0    0    0    0    1    0    0    0
## [1908,]     1    0    0    0    0    0    0    0    0    0
## [1909,]     0    0    0    1    0    0    0    0    0    0
## [1910,]     0    1    0    0    0    0    0    0    0    0
## [1911,]     0    1    0    0    0    0    0    0    0    0
## [1912,]     0    0    0    0    1    0    0    0    0    0
## [1913,]     0    0    0    0    0    0    0    0    0    1
## [1914,]     0    0    0    0    0    1    0    0    0    0
## [1915,]     0    0    0    0    0    0    0    0    1    0
## [1916,]     0    1    0    0    0    0    0    0    0    0
## [1917,]     1    0    0    0    0    0    0    0    0    0
## [1918,]     0    0    0    0    0    0    1    0    0    0
## [1919,]     0    0    0    0    0    0    1    0    0    0
## [1920,]     0    0    0    0    0    0    0    1    0    0
## [1921,]     0    0    1    0    0    0    0    0    0    0
## [1922,]     0    0    0    1    0    0    0    0    0    0
## [1923,]     0    0    0    0    1    0    0    0    0    0
## [1924,]     0    0    1    0    0    0    0    0    0    0
## [1925,]     0    0    0    1    0    0    0    0    0    0
## [1926,]     0    0    0    0    0    0    0    0    0    1
```

```
## [1927,]    1    0    0    0    0    0    0    0    0    0
## [1928,]    1    0    0    0    0    0    0    0    0    0
## [1929,]    0    0    0    0    1    0    0    0    0    0
## [1930,]    0    0    0    0    0    1    0    0    0    0
## [1931,]    1    0    0    0    0    0    0    0    0    0
## [1932,]    0    0    0    0    0    0    1    0    0    0
## [1933,]    0    0    0    0    1    0    0    0    0    0
## [1934,]    0    0    0    0    0    0    0    1    0    0
## [1935,]    0    0    0    0    1    0    0    0    0    0
## [1936,]    0    0    0    1    0    0    0    0    0    0
## [1937,]    0    1    0    0    0    0    0    0    0    0
## [1938,]    0    0    0    0    0    0    0    0    0    1
## [1939,]    0    0    0    1    0    0    0    0    0    0
## [1940,]    0    0    0    0    0    0    0    0    0    1
## [1941,]    0    0    0    0    0    0    0    0    0    1
## [1942,]    0    0    0    1    0    0    0    0    0    0
## [1943,]    0    1    0    0    0    0    0    0    0    0
## [1944,]    0    0    0    0    0    0    0    0    1    0
## [1945,]    0    0    0    0    0    0    0    1    0    0
## [1946,]    0    1    0    0    0    0    0    0    0    0
## [1947,]    0    0    0    0    0    0    0    1    0    0
## [1948,]    0    0    1    0    0    0    0    0    0    0
## [1949,]    0    0    0    0    0    0    0    0    1    0
## [1950,]    0    0    0    0    0    0    0    0    0    1
## [1951,]    0    0    0    0    0    0    0    0    0    1
## [1952,]    0    0    0    0    0    0    1    0    0    0
## [1953,]    0    0    1    0    0    0    0    0    0    0
## [1954,]    0    0    0    0    0    0    0    1    0    0
## [1955,]    0    0    1    0    0    0    0    0    0    0
## [1956,]    0    0    0    0    0    1    0    0    0    0
## [1957,]    1    0    0    0    0    0    0    0    0    0
## [1958,]    0    0    0    0    0    0    1    0    0    0
## [1959,]    0    0    0    0    0    0    0    1    0    0
## [1960,]    0    0    0    1    0    0    0    0    0    0
## [1961,]    0    0    0    0    0    0    0    0    0    1
## [1962,]    0    0    0    0    0    1    0    0    0    0
## [1963,]    0    0    0    0    0    0    0    0    0    1
## [1964,]    1    0    0    0    0    0    0    0    0    0
## [1965,]    0    0    0    0    0    0    0    0    1    0
## [1966,]    0    0    0    0    0    1    0    0    0    0
## [1967,]    0    0    0    0    0    0    0    0    1    0
## [1968,]    0    0    0    0    1    0    0    0    0    0
## [1969,]    0    0    0    0    0    0    0    0    0    1
## [1970,]    1    0    0    0    0    0    0    0    0    0
## [1971,]    0    0    0    0    0    1    0    0    0    0
## [1972,]    0    0    0    1    0    0    0    0    0    0
## [1973,]    0    0    1    0    0    0    0    0    0    0
## [1974,]    0    0    0    0    1    0    0    0    0    0
## [1975,]    0    0    0    0    0    0    0    0    1    0
## [1976,]    0    0    0    0    0    0    0    1    0    0
## [1977,]    0    0    0    0    1    0    0    0    0    0
## [1978,]    0    1    0    0    0    0    0    0    0    0
## [1979,]    0    0    0    0    0    1    0    0    0    0
## [1980,]    0    0    0    0    1    0    0    0    0    0
```

```
##   [1981,]    0    0    0    0    0    0    1    0    0    0
##   [1982,]    0    0    0    1    0    0    0    0    0    0
##   [1983,]    0    0    0    0    0    0    0    1    0    0
##   [1984,]    0    0    0    0    0    0    0    1    0    0
##   [1985,]    0    0    0    0    0    0    0    0    0    1
##   [1986,]    0    0    0    0    0    0    1    0    0    0
##   [1987,]    0    0    0    0    0    0    1    0    0    0
##   [1988,]    0    0    1    0    0    0    0    0    0    0
##   [1989,]    0    0    1    0    0    0    0    0    0    0
##   [1990,]    0    1    0    0    0    0    0    0    0    0
##   [1991,]    0    0    0    0    0    0    1    0    0    0
##   [1992,]    0    0    0    0    0    1    0    0    0    0
##   [1993,]    0    0    0    0    1    0    0    0    0    0
##   [1994,]    0    0    0    0    0    1    0    0    0    0
##   [1995,]    0    0    0    1    0    0    0    0    0    0
##   [1996,]    1    0    0    0    0    0    0    0    0    0
##   [1997,]    0    0    0    0    0    1    0    0    0    0
##   [1998,]    0    0    0    0    0    1    0    0    0    0
##   [1999,]    0    0    1    0    0    0    0    0    0    0
##   [2000,]    1    0    0    0    0    0    0    0    0    0
##   [2001,]    0    0    0    0    0    1    0    0    0    0
##   [2002,]    0    0    0    0    0    0    0    0    1    0
##   [2003,]    0    0    0    0    0    0    0    0    1    0
##   [2004,]    0    0    0    0    1    0    0    0    0    0
##   [2005,]    0    0    1    0    0    0    0    0    0    0
##   [2006,]    0    0    0    0    0    0    1    0    0    0
##   [2007,]    0    0    0    0    0    0    0    0    0    1
##   [2008,]    0    0    0    0    0    0    0    1    0    0
##   [2009,]    0    1    0    0    0    0    0    0    0    0
##   [2010,]    1    0    0    0    0    0    0    0    0    0
##   [2011,]    0    0    1    0    0    0    0    0    0    0
##   [2012,]    0    0    0    1    0    0    0    0    0    0
##   [2013,]    0    1    0    0    0    0    0    0    0    0
##   [2014,]    0    0    0    0    0    0    0    0    1    0
##   [2015,]    0    0    0    0    0    0    0    1    0    0
##   [2016,]    0    1    0    0    0    0    0    0    0    0
##   [2017,]    0    0    0    0    0    0    0    0    1    0
##   [2018,]    0    0    1    0    0    0    0    0    0    0
##   [2019,]    0    0    0    0    0    0    0    1    0    0
##   [2020,]    0    0    1    0    0    0    0    0    0    0
##   [2021,]    0    0    0    0    0    0    1    0    0    0
##   [2022,]    0    0    0    1    0    0    0    0    0    0
##   [2023,]    0    0    1    0    0    0    0    0    0    0
##   [2024,]    0    0    0    1    0    0    0    0    0    0
##   [2025,]    0    0    0    0    0    0    0    1    0    0
##   [2026,]    0    0    0    0    0    0    1    0    0    0
##   [2027,]    0    0    0    0    0    0    0    0    1    0
##   [2028,]    0    0    0    0    0    0    0    1    0    0
##   [2029,]    0    0    0    0    0    1    0    0    0    0
##   [2030,]    0    0    0    1    0    0    0    0    0    0
##   [2031,]    0    0    0    0    0    0    0    0    1    0
##   [2032,]    0    0    0    0    1    0    0    0    0    0
##   [2033,]    0    0    0    0    1    0    0    0    0    0
##   [2034,]    0    0    0    0    0    0    0    0    0    1
```

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```
## [2035,]    0    0    0    0    1    0    0    0    0    0
## [2036,]    0    0    0    0    0    0    1    0    0    0
## [2037,]    0    0    0    0    1    0    0    0    0    0
## [2038,]    0    0    0    0    0    1    0    0    0    0
## [2039,]    0    0    0    0    0    1    0    0    0    0
## [2040,]    0    1    0    0    0    0    0    0    0    0
## [2041,]    0    1    0    0    0    0    0    0    0    0
## [2042,]    0    0    0    0    0    0    0    0    0    1
## [2043,]    0    0    0    1    0    0    0    0    0    0
## [2044,]    0    0    0    0    0    0    0    0    1    0
## [2045,]    0    0    0    0    0    0    1    0    0    0
## [2046,]    0    1    0    0    0    0    0    0    0    0
## [2047,]    0    0    0    0    1    0    0    0    0    0
## [2048,]    0    1    0    0    0    0    0    0    0    0
## [2049,]    0    0    0    0    0    0    0    1    0    0
## [2050,]    0    0    0    0    0    1    0    0    0    0
## [2051,]    0    0    0    0    1    0    0    0    0    0
## [2052,]    1    0    0    0    0    0    0    0    0    0
## [2053,]    0    0    0    0    1    0    0    0    0    0
## [2054,]    0    0    1    0    0    0    0    0    0    0
## [2055,]    0    0    0    0    0    0    0    1    0    0
## [2056,]    0    0    0    0    0    0    0    1    0    0
## [2057,]    0    0    0    0    0    1    0    0    0    0
## [2058,]    0    0    0    0    0    0    0    0    1    0
## [2059,]    1    0    0    0    0    0    0    0    0    0
## [2060,]    0    0    0    0    0    0    1    0    0    0
## [2061,]    0    0    0    0    0    0    0    0    0    1
## [2062,]    0    0    0    0    0    0    1    0    0    0
## [2063,]    0    0    0    0    0    0    1    0    0    0
## [2064,]    0    0    0    0    0    0    0    0    1    0
## [2065,]    0    0    0    0    0    0    0    1    0    0
## [2066,]    0    0    1    0    0    0    0    0    0    0
## [2067,]    1    0    0    0    0    0    0    0    0    0
## [2068,]    0    0    0    0    0    0    0    0    1    0
## [2069,]    0    0    0    0    0    0    0    0    1    0
## [2070,]    0    0    0    0    1    0    0    0    0    0
## [2071,]    0    0    0    0    0    0    0    0    1    0
## [2072,]    0    0    0    0    1    0    0    0    0    0
## [2073,]    0    0    0    0    1    0    0    0    0    0
## [2074,]    0    0    1    0    0    0    0    0    0    0
## [2075,]    0    0    0    1    0    0    0    0    0    0
## [2076,]    0    0    1    0    0    0    0    0    0    0
## [2077,]    0    0    0    1    0    0    0    0    0    0
## [2078,]    0    0    0    0    0    0    0    0    1    0
## [2079,]    0    0    1    0    0    0    0    0    0    0
## [2080,]    1    0    0    0    0    0    0    0    0    0
## [2081,]    0    0    0    0    0    1    0    0    0    0
## [2082,]    1    0    0    0    0    0    0    0    0    0
## [2083,]    1    0    0    0    0    0    0    0    0    0
## [2084,]    0    1    0    0    0    0    0    0    0    0
## [2085,]    1    0    0    0    0    0    0    0    0    0
## [2086,]    0    0    1    0    0    0    0    0    0    0
## [2087,]    0    1    0    0    0    0    0    0    0    0
## [2088,]    0    0    0    1    0    0    0    0    0    0
```

```
## [2089,]   0   0   0   1   0   0   0   0   0   0
## [2090,]   0   0   0   0   1   0   0   0   0   0
## [2091,]   0   0   0   0   0   0   0   1   0   0
## [2092,]   0   0   0   0   0   1   0   0   0   0
## [2093,]   0   0   0   1   0   0   0   0   0   0
## [2094,]   0   0   0   0   0   0   1   0   0   0
## [2095,]   0   1   0   0   0   0   0   0   0   0
## [2096,]   0   0   0   0   0   0   0   1   0   0
## [2097,]   0   0   0   0   0   0   1   0   0   0
## [2098,]   0   0   0   0   0   0   0   0   1   0
## [2099,]   0   0   0   1   0   0   0   0   0   0
## [2100,]   0   0   0   0   0   0   0   0   0   1
## [2101,]   1   0   0   0   0   0   0   0   0   0
## [2102,]   1   0   0   0   0   0   0   0   0   0
## [2103,]   0   0   0   0   0   0   0   1   0   0
## [2104,]   0   1   0   0   0   0   0   0   0   0
## [2105,]   0   0   1   0   0   0   0   0   0   0
## [2106,]   0   0   1   0   0   0   0   0   0   0
## [2107,]   0   0   0   0   1   0   0   0   0   0
## [2108,]   0   0   0   1   0   0   0   0   0   0
## [2109,]   0   0   0   0   0   0   0   1   0   0
## [2110,]   0   0   0   0   1   0   0   0   0   0
## [2111,]   0   1   0   0   0   0   0   0   0   0
## [2112,]   0   0   0   0   0   1   0   0   0   0
## [2113,]   1   0   0   0   0   0   0   0   0   0
## [2114,]   0   0   0   0   0   0   1   0   0   0
## [2115,]   0   0   0   1   0   0   0   0   0   0
## [2116,]   0   0   0   0   0   0   0   1   0   0
## [2117,]   0   0   0   0   0   0   0   0   0   1
## [2118,]   0   0   0   0   0   0   0   0   1   0
## [2119,]   0   0   0   0   0   0   0   1   0   0
## [2120,]   0   0   0   0   0   0   0   0   0   1
## [2121,]   0   0   0   0   0   1   0   0   0   0
## [2122,]   1   0   0   0   0   0   0   0   0   0
## [2123,]   0   1   0   0   0   0   0   0   0   0
## [2124,]   0   1   0   0   0   0   0   0   0   0
## [2125,]   0   0   0   0   0   0   0   0   1   0
## [2126,]   0   0   1   0   0   0   0   0   0   0
## [2127,]   0   0   0   0   0   0   1   0   0   0
## [2128,]   0   0   0   1   0   0   0   0   0   0
## [2129,]   0   0   0   1   0   0   0   0   0   0
## [2130,]   0   0   0   0   1   0   0   0   0   0
## [2131,]   0   0   0   1   0   0   0   0   0   0
## [2132,]   0   0   0   0   0   1   0   0   0   0
## [2133,]   0   0   0   1   0   0   0   0   0   0
## [2134,]   0   0   0   0   0   0   0   1   0   0
## [2135,]   0   1   0   0   0   0   0   0   0   0
## [2136,]   0   0   0   0   0   0   0   0   1   0
## [2137,]   0   1   0   0   0   0   0   0   0   0
## [2138,]   0   0   0   0   0   0   0   0   0   1
## [2139,]   0   0   0   0   0   0   1   0   0   0
## [2140,]   0   0   0   0   0   0   0   0   1   0
## [2141,]   0   0   0   0   0   0   0   0   0   1
## [2142,]   0   0   0   0   0   0   0   0   0   1
```

```
## [2143,]    0    0    0    0    0    0    0    1    0    0
## [2144,]    0    0    0    0    0    1    0    0    0    0
## [2145,]    1    0    0    0    0    0    0    0    0    0
## [2146,]    0    0    0    0    0    0    0    1    0    0
## [2147,]    0    0    0    1    0    0    0    0    0    0
## [2148,]    1    0    0    0    0    0    0    0    0    0
## [2149,]    0    0    0    0    0    0    1    0    0    0
## [2150,]    0    0    0    1    0    0    0    0    0    0
## [2151,]    0    0    0    0    0    0    0    0    1    0
## [2152,]    0    1    0    0    0    0    0    0    0    0
## [2153,]    0    0    0    0    0    0    1    0    0    0
## [2154,]    0    0    0    0    0    0    1    0    0    0
## [2155,]    0    1    0    0    0    0    0    0    0    0
## [2156,]    0    0    0    0    0    0    0    0    1    0
## [2157,]    0    0    0    0    0    0    1    0    0    0
## [2158,]    0    0    0    0    1    0    0    0    0    0
## [2159,]    0    0    0    0    0    0    1    0    0    0
## [2160,]    0    1    0    0    0    0    0    0    0    0
## [2161,]    1    0    0    0    0    0    0    0    0    0
## [2162,]    0    0    0    0    0    0    0    1    0    0
## [2163,]    0    1    0    0    0    0    0    0    0    0
## [2164,]    0    0    0    0    0    0    1    0    0    0
## [2165,]    0    0    0    0    1    0    0    0    0    0
## [2166,]    0    0    0    0    0    1    0    0    0    0
## [2167,]    0    1    0    0    0    0    0    0    0    0
## [2168,]    0    0    0    0    0    0    1    0    0    0
## [2169,]    0    0    0    0    0    0    0    1    0    0
## [2170,]    0    0    0    0    1    0    0    0    0    0
## [2171,]    0    0    0    0    0    0    0    0    1    0
## [2172,]    0    0    1    0    0    0    0    0    0    0
## [2173,]    0    0    0    0    0    1    0    0    0    0
## [2174,]    0    0    0    0    0    0    0    1    0    0
## [2175,]    0    0    0    1    0    0    0    0    0    0
## [2176,]    0    0    0    0    0    0    0    0    1    0
## [2177,]    0    0    0    0    1    0    0    0    0    0
## [2178,]    0    1    0    0    0    0    0    0    0    0
## [2179,]    0    0    0    0    0    0    1    0    0    0
## [2180,]    0    0    0    1    0    0    0    0    0    0
## [2181,]    0    0    0    1    0    0    0    0    0    0
## [2182,]    0    0    0    0    1    0    0    0    0    0
## [2183,]    0    0    0    0    0    1    0    0    0    0
## [2184,]    0    0    0    1    0    0    0    0    0    0
## [2185,]    0    0    1    0    0    0    0    0    0    0
## [2186,]    0    0    0    0    1    0    0    0    0    0
## [2187,]    0    0    0    0    0    1    0    0    0    0
## [2188,]    0    0    0    0    0    0    0    1    0    0
## [2189,]    0    1    0    0    0    0    0    0    0    0
## [2190,]    0    0    1    0    0    0    0    0    0    0
## [2191,]    0    0    0    0    1    0    0    0    0    0
## [2192,]    1    0    0    0    0    0    0    0    0    0
## [2193,]    1    0    0    0    0    0    0    0    0    0
## [2194,]    0    0    0    0    0    1    0    0    0    0
## [2195,]    0    0    0    0    0    0    0    0    1    0
## [2196,]    1    0    0    0    0    0    0    0    0    0
```

```
## [2197,]    0    0    0    0    0    0    1    0    0    0
## [2198,]    0    1    0    0    0    0    0    0    0    0
## [2199,]    0    1    0    0    0    0    0    0    0    0
## [2200,]    0    0    0    0    0    0    0    0    0    1
## [2201,]    0    0    0    1    0    0    0    0    0    0
## [2202,]    0    0    1    0    0    0    0    0    0    0
## [2203,]    0    1    0    0    0    0    0    0    0    0
## [2204,]    0    0    0    1    0    0    0    0    0    0
## [2205,]    0    0    0    0    1    0    0    1    0    0
## [2206,]    0    0    1    0    0    0    0    0    0    0
## [2207,]    0    0    0    0    1    0    0    0    0    0
## [2208,]    0    0    0    1    0    0    0    0    0    0
## [2209,]    0    0    0    0    1    0    0    0    0    0
## [2210,]    0    0    0    0    0    1    0    0    0    0
## [2211,]    0    0    0    0    0    0    0    0    1    0
## [2212,]    0    0    0    0    0    1    0    0    0    0
## [2213,]    0    0    0    0    0    0    1    0    0    0
## [2214,]    0    0    0    0    0    0    0    1    0    0
## [2215,]    0    0    0    0    0    0    1    0    0    0
## [2216,]    0    0    0    0    0    0    0    0    1    0
## [2217,]    0    0    0    0    0    0    0    0    0    1
## [2218,]    0    0    0    0    1    0    0    0    0    0
## [2219,]    1    0    0    0    0    0    0    0    0    0
## [2220,]    0    0    0    0    0    0    0    0    0    1
## [2221,]    0    0    0    0    1    0    0    0    0    0
## [2222,]    0    0    0    0    0    0    0    0    0    1
## [2223,]    0    0    0    0    1    0    0    0    0    0
## [2224,]    0    0    0    0    0    0    0    1    0    0
## [2225,]    0    0    0    0    1    0    0    0    0    0
## [2226,]    0    1    0    0    0    0    0    0    0    0
## [2227,]    0    0    0    0    0    0    1    0    0    0
## [2228,]    0    1    0    0    0    0    0    0    0    0
## [2229,]    0    0    0    1    0    0    0    0    0    0
## [2230,]    0    0    0    0    0    0    0    1    0    0
## [2231,]    0    0    0    1    0    0    0    0    0    0
## [2232,]    0    0    0    0    0    0    0    0    1    0
## [2233,]    0    0    0    1    0    0    0    0    0    0
## [2234,]    0    0    0    1    0    0    0    0    0    0
## [2235,]    0    0    1    0    0    0    0    0    0    0
## [2236,]    0    0    0    0    1    0    0    0    0    0
## [2237,]    0    0    0    0    1    0    0    0    0    0
## [2238,]    0    0    0    0    0    0    0    0    1    0
## [2239,]    0    0    0    0    0    0    0    1    0    0
## [2240,]    0    0    0    0    0    0    1    0    0    0
## [2241,]    0    0    0    0    1    0    0    0    0    0
## [2242,]    0    0    0    1    0    0    0    0    0    0
## [2243,]    0    0    0    0    0    0    1    0    0    0
## [2244,]    0    0    0    0    0    0    0    0    1    0
## [2245,]    0    0    0    0    0    0    0    1    0    0
## [2246,]    1    0    0    0    0    0    0    0    0    0
## [2247,]    0    0    0    0    0    0    0    1    0    0
## [2248,]    0    0    0    0    0    0    0    0    0    1
## [2249,]    0    0    0    0    0    1    0    0    0    0
## [2250,]    0    0    0    0    0    0    1    0    0    0
```

```
## [2251,]      0    0    0    0    0    1    0    0    0    0
## [2252,]      0    0    1    0    0    0    0    0    0    0
## [2253,]      0    0    0    1    0    0    0    0    0    0
## [2254,]      1    0    0    0    0    0    0    0    0    0
## [2255,]      0    0    0    0    1    0    0    0    0    0
## [2256,]      0    1    0    0    0    0    0    0    0    0
## [2257,]      0    0    0    0    1    0    0    0    0    0
## [2258,]      1    0    0    0    0    0    0    0    0    0
## [2259,]      0    0    0    0    0    1    0    0    0    0
## [2260,]      0    0    0    0    0    0    1    0    0    0
## [2261,]      0    1    0    0    0    0    0    0    0    0
## [2262,]      0    0    1    0    0    0    0    0    0    0
## [2263,]      0    0    0    0    0    0    1    0    0    0
## [2264,]      0    0    0    1    0    0    0    0    0    0
## [2265,]      0    0    0    0    1    0    0    0    0    0
## [2266,]      0    0    0    0    0    0    0    0    1    0
## [2267,]      0    0    0    0    0    1    0    0    0    0
## [2268,]      0    0    0    0    0    0    0    0    0    1
## [2269,]      0    0    0    0    0    1    0    0    0    0
## [2270,]      1    0    0    0    0    0    0    0    0    0
## [2271,]      0    0    1    0    0    0    0    0    0    0
## [2272,]      0    0    0    0    0    0    0    1    0    0
## [2273,]      0    0    0    0    0    1    0    0    0    0
## [2274,]      0    0    1    0    0    0    0    0    0    0
## [2275,]      0    0    0    0    0    0    0    0    0    1
## [2276,]      0    0    0    1    0    0    0    0    0    0
## [2277,]      0    0    0    0    1    0    0    0    0    0
## [2278,]      0    0    0    0    1    0    0    0    0    0
## [2279,]      1    0    0    0    0    0    0    0    0    0
## [2280,]      0    0    0    0    0    1    0    0    0    0
## [2281,]      0    0    1    0    0    0    0    0    0    0
## [2282,]      0    0    0    0    0    1    0    0    0    0
## [2283,]      0    0    0    0    0    1    0    0    0    0
## [2284,]      0    0    1    0    0    0    0    0    0    0
## [2285,]      0    0    0    0    0    0    0    0    0    1
## [2286,]      0    0    0    0    0    0    0    0    1    0
## [2287,]      0    0    0    1    0    0    0    0    0    0
## [2288,]      0    0    0    0    0    1    0    0    0    0
## [2289,]      0    0    1    0    0    0    0    0    0    0
## [2290,]      0    0    0    0    1    0    0    0    0    0
## [2291,]      0    0    0    0    1    0    0    0    0    0
## [2292,]      0    0    0    0    0    0    1    0    0    0
## [2293,]      0    0    0    0    0    0    0    1    0    0
## [2294,]      0    0    0    0    0    0    1    0    0    0
## [2295,]      0    0    0    0    1    0    0    0    0    0
## [2296,]      0    0    0    0    0    0    1    0    0    0
## [2297,]      0    0    0    0    0    0    1    0    0    0
## [2298,]      0    0    0    0    0    0    0    1    0    0
## [2299,]      1    0    0    0    0    0    0    0    0    0
## [2300,]      0    0    0    0    0    0    0    0    0    1
## [2301,]      0    0    0    0    0    0    1    0    0    0
## [2302,]      0    1    0    0    0    0    0    0    0    0
## [2303,]      0    0    0    0    0    0    0    0    1    0
## [2304,]      0    0    0    0    0    0    0    0    1    0
```

```
##    [2305,]    0    0    0    0    0    1    0    0    0    0
##    [2306,]    0    0    1    0    0    0    0    0    0    0
##    [2307,]    0    1    0    0    0    0    0    0    0    0
##    [2308,]    0    1    0    0    0    0    0    0    0    0
##    [2309,]    0    0    0    0    0    1    0    0    0    0
##    [2310,]    0    0    1    0    0    0    0    0    0    0
##    [2311,]    1    0    0    0    0    0    0    0    0    0
##    [2312,]    0    0    0    0    0    0    1    0    0    0
##    [2313,]    0    0    0    0    0    0    0    0    0    1
##    [2314,]    0    0    0    0    0    1    0    0    0    0
##    [2315,]    0    0    1    0    0    0    0    0    0    0
##    [2316,]    0    0    0    1    0    0    0    0    0    0
##    [2317,]    0    1    0    0    0    0    0    0    0    0
##    [2318,]    0    0    0    0    1    0    0    0    0    0
##    [2319,]    0    1    0    0    0    0    0    0    0    0
##    [2320,]    0    0    0    0    0    0    0    1    0    0
##    [2321,]    0    0    0    0    0    0    1    0    0    0
##    [2322,]    0    0    0    0    0    0    0    0    0    1
##    [2323,]    0    0    1    0    0    0    0    0    0    0
##    [2324,]    0    0    0    0    1    0    0    0    0    0
##    [2325,]    0    0    0    0    0    0    1    0    0    0
##    [2326,]    1    0    0    0    0    0    0    0    0    0
##    [2327,]    0    1    0    0    0    0    0    0    0    0
##    [2328,]    1    0    0    0    0    0    0    0    0    0
##    [2329,]    0    0    0    0    0    1    0    0    0    0
##    [2330,]    0    0    0    0    0    1    0    0    0    0
##    [2331,]    0    0    0    0    0    1    0    0    0    0
##    [2332,]    0    0    0    0    0    0    0    0    0    1
##    [2333,]    0    0    1    0    0    0    0    0    0    0
##    [2334,]    1    0    0    0    0    0    0    0    0    0
##    [2335,]    0    0    0    0    1    0    0    0    0    0
##    [2336,]    0    1    0    0    0    0    0    0    0    0
##    [2337,]    0    1    0    0    0    0    0    0    0    0
##    [2338,]    0    0    1    0    0    0    0    0    0    0
##    [2339,]    0    0    0    0    1    0    0    0    0    0
##    [2340,]    0    0    0    1    0    0    0    0    0    0
##    [2341,]    1    0    0    0    0    0    0    0    0    0
##    [2342,]    0    0    0    0    1    0    0    0    0    0
##    [2343,]    0    0    1    0    0    0    0    0    0    0
##    [2344,]    0    0    0    0    0    1    0    0    0    0
##    [2345,]    0    0    0    0    0    0    0    1    0    0
##    [2346,]    0    0    0    0    0    0    1    0    0    0
##    [2347,]    0    0    1    0    0    0    0    0    0    0
##    [2348,]    0    0    0    0    0    0    0    1    0    0
##    [2349,]    0    0    0    0    0    0    0    1    0    0
##    [2350,]    0    0    0    0    0    0    0    0    1    0
##    [2351,]    0    0    0    1    0    0    0    0    0    0
##    [2352,]    0    0    0    0    0    0    0    0    0    1
##    [2353,]    1    0    0    0    0    0    0    0    0    0
##    [2354,]    1    0    0    0    0    0    0    0    0    0
##    [2355,]    0    0    1    0    0    0    0    0    0    0
##    [2356,]    0    1    0    0    0    0    0    0    0    0
##    [2357,]    0    1    0    0    0    0    0    0    0    0
##    [2358,]    0    0    1    0    0    0    0    0    0    0
```

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```
##  [2359,]     0    0    0    0    0    0    0    0    1    0
##  [2360,]     0    0    0    1    0    0    0    0    0    0
##  [2361,]     0    0    0    0    1    0    0    0    0    0
##  [2362,]     0    0    0    0    1    0    0    0    0    0
##  [2363,]     0    1    0    0    0    0    0    0    0    0
##  [2364,]     0    0    0    0    0    1    0    0    0    0
##  [2365,]     0    0    0    0    0    0    0    0    0    1
##  [2366,]     0    0    0    0    0    0    1    0    0    0
##  [2367,]     0    1    0    0    0    0    0    0    0    0
##  [2368,]     0    0    0    0    0    0    0    1    0    0
##  [2369,]     0    0    0    0    0    1    0    0    0    0
##  [2370,]     0    0    0    0    0    0    0    0    1    0
##  [2371,]     0    0    0    0    0    0    0    0    0    1
##  [2372,]     0    0    0    0    0    0    0    0    0    1
##  [2373,]     0    0    0    0    0    0    1    0    0    0
##  [2374,]     1    0    0    0    0    0    0    0    0    0
##  [2375,]     0    1    0    0    0    0    0    0    0    0
##  [2376,]     0    1    0    0    0    0    0    0    0    0
##  [2377,]     0    0    0    0    0    0    0    1    0    0
##  [2378,]     0    0    1    0    0    0    0    0    0    0
##  [2379,]     0    0    0    0    0    0    0    0    1    0
##  [2380,]     0    0    0    1    0    0    0    0    0    0
##  [2381,]     0    0    0    0    0    0    0    1    0    0
##  [2382,]     0    0    0    0    0    0    0    1    0    0
##  [2383,]     0    0    0    0    0    0    0    0    1    0
##  [2384,]     0    0    0    0    0    0    0    0    1    0
##  [2385,]     0    0    0    0    0    0    0    0    1    0
##  [2386,]     0    0    0    0    0    0    0    0    0    1
##  [2387,]     0    0    0    0    0    0    0    1    0    0
##  [2388,]     0    0    0    0    0    0    1    0    0    0
##  [2389,]     0    0    0    0    0    0    0    0    1    0
##  [2390,]     0    0    1    0    0    0    0    0    0    0
##  [2391,]     0    0    0    0    1    0    0    0    0    0
##  [2392,]     0    0    0    0    0    0    0    1    0    0
##  [2393,]     0    0    0    0    1    0    0    0    0    0
##  [2394,]     0    1    0    0    0    0    0    0    0    0
##  [2395,]     0    0    0    0    0    0    0    0    1    0
##  [2396,]     0    0    0    0    0    1    0    0    0    0
##  [2397,]     1    0    0    0    0    0    0    0    0    0
##  [2398,]     0    0    0    0    0    0    1    0    0    0
##  [2399,]     0    0    0    0    0    0    0    0    0    1
##  [2400,]     0    0    1    0    0    0    0    0    0    0
##  [2401,]     0    0    0    0    0    0    0    0    1    0
##  [2402,]     0    0    0    0    0    1    0    0    0    0
##  [2403,]     0    0    1    0    0    0    0    0    0    0
##  [2404,]     1    0    0    0    0    0    0    0    0    0
##  [2405,]     1    0    0    0    0    0    0    0    0    0
##  [2406,]     0    0    0    0    0    1    0    0    0    0
##  [2407,]     0    0    0    0    1    0    0    0    0    0
##  [2408,]     0    0    0    0    1    0    0    0    0    0
##  [2409,]     0    0    0    1    0    0    0    0    0    0
##  [2410,]     0    0    1    0    0    0    0    0    0    0
##  [2411,]     0    1    0    0    0    0    0    0    0    0
##  [2412,]     1    0    0    0    0    0    0    0    0    0
```

```
## [2413,]     0    0    0    0    0    1    0    0    0    0
## [2414,]     0    0    0    0    0    0    0    0    1    0
## [2415,]     0    0    0    0    0    1    0    0    0    0
## [2416,]     0    1    0    0    0    0    0    0    0    0
## [2417,]     0    0    0    0    1    0    0    0    0    0
## [2418,]     0    0    0    0    0    0    0    1    0    0
## [2419,]     0    0    1    0    0    0    0    0    0    0
## [2420,]     0    1    0    0    0    0    0    0    0    0
## [2421,]     0    0    0    0    1    0    0    0    0    0
## [2422,]     0    0    0    0    0    0    0    0    1    0
## [2423,]     0    0    0    0    0    0    1    0    0    0
## [2424,]     0    0    0    1    0    0    0    0    0    0
## [2425,]     0    0    0    0    1    0    0    0    0    0
## [2426,]     0    0    0    0    0    0    0    0    1    0
## [2427,]     0    1    0    0    0    0    0    0    0    0
## [2428,]     0    0    0    0    0    0    0    1    0    0
## [2429,]     0    0    0    0    0    1    0    0    0    0
## [2430,]     0    1    0    0    0    0    0    0    0    0
## [2431,]     0    0    0    1    0    0    0    0    0    0
## [2432,]     0    0    0    0    0    0    0    1    0    0
## [2433,]     0    1    0    0    0    0    0    0    0    0
## [2434,]     0    0    0    0    0    0    0    1    0    0
## [2435,]     0    0    0    0    0    0    0    0    0    1
## [2436,]     1    0    0    0    0    0    0    0    0    0
## [2437,]     1    0    0    0    0    0    0    0    0    0
## [2438,]     0    1    0    0    0    0    0    0    0    0
## [2439,]     0    0    0    0    0    0    0    0    0    1
## [2440,]     0    0    0    0    1    0    0    0    0    0
## [2441,]     1    0    0    0    0    0    0    0    0    0
## [2442,]     0    0    0    0    1    0    0    0    0    0
## [2443,]     0    0    0    0    0    0    0    0    1    0
## [2444,]     0    0    0    0    1    0    0    0    0    0
## [2445,]     0    0    0    0    0    0    0    0    1    0
## [2446,]     0    0    0    0    0    1    0    0    0    0
## [2447,]     0    1    0    0    0    0    0    0    0    0
## [2448,]     0    0    0    0    0    0    0    1    0    0
## [2449,]     0    1    0    0    0    0    0    0    0    0
## [2450,]     0    0    0    0    1    0    0    0    0    0
## [2451,]     0    0    1    0    0    0    0    0    0    0
## [2452,]     0    0    0    0    1    0    0    0    0    0
## [2453,]     0    0    0    0    1    0    0    0    0    0
## [2454,]     0    0    0    0    0    0    0    0    0    1
## [2455,]     0    0    1    0    0    0    0    0    0    0
## [2456,]     0    0    0    0    0    0    0    1    0    0
## [2457,]     0    0    0    1    0    0    0    0    0    0
## [2458,]     0    0    1    0    0    0    0    0    0    0
## [2459,]     0    0    0    0    1    0    0    0    0    0
## [2460,]     0    0    0    0    0    0    1    0    0    0
## [2461,]     0    0    0    0    0    0    0    0    0    1
## [2462,]     0    0    0    0    0    1    0    0    0    0
## [2463,]     0    1    0    0    0    0    0    0    0    0
## [2464,]     0    0    0    1    0    0    0    0    0    0
## [2465,]     0    0    1    0    0    0    0    0    0    0
## [2466,]     0    0    0    0    0    0    0    0    0    1
```

```
## [2467,]    0    0    0    0    1    0    0    0    0    0
## [2468,]    0    0    0    0    1    0    0    0    0    0
## [2469,]    0    0    0    1    0    0    0    0    0    0
## [2470,]    0    0    0    1    0    0    0    0    0    0
## [2471,]    0    0    0    0    0    0    1    0    0    0
## [2472,]    0    0    0    0    0    0    0    0    0    1
## [2473,]    0    0    1    0    0    0    0    0    0    0
## [2474,]    1    0    0    0    0    0    0    0    0    0
## [2475,]    0    0    0    0    0    0    1    0    0    0
## [2476,]    0    0    0    0    0    0    0    0    1    0
## [2477,]    0    0    0    0    0    0    0    0    1    0
## [2478,]    0    0    0    0    0    0    0    1    0    0
## [2479,]    0    0    0    0    0    1    0    0    0    0
## [2480,]    0    0    0    0    0    0    1    0    0    0
## [2481,]    0    0    0    0    0    0    1    0    0    0
## [2482,]    0    0    0    1    0    0    0    0    0    0
## [2483,]    0    0    0    0    0    0    0    0    1    0
## [2484,]    1    0    0    0    0    0    0    0    0    0
## [2485,]    0    0    0    0    1    0    0    0    0    0
## [2486,]    0    0    0    0    1    0    0    0    0    0
## [2487,]    0    0    0    0    0    0    1    0    0    0
## [2488,]    0    0    0    0    0    0    1    0    0    0
## [2489,]    0    0    0    0    0    0    0    1    0    0
## [2490,]    0    0    0    1    0    0    0    0    0    0
## [2491,]    0    0    0    0    1    0    0    0    0    0
## [2492,]    0    0    0    0    0    0    0    1    0    0
## [2493,]    0    0    0    0    0    0    0    1    0    0
## [2494,]    1    0    0    0    0    0    0    0    0    0
## [2495,]    0    0    0    0    0    0    1    0    0    0
## [2496,]    0    1    0    0    0    0    0    0    0    0
## [2497,]    0    0    0    0    0    0    1    0    0    0
## [2498,]    0    1    0    0    0    0    0    0    0    0
## [2499,]    0    0    0    0    0    0    1    0    0    0
## [2500,]    0    0    1    0    0    0    0    0    0    0
## [2501,]    1    0    0    0    0    0    0    0    0    0
## [2502,]    0    0    0    0    0    0    0    0    0    1
## [2503,]    0    0    0    0    0    0    0    1    0    0
## [2504,]    0    0    0    1    0    0    0    0    0    0
## [2505,]    0    0    0    0    0    0    1    0    0    0
## [2506,]    0    1    0    0    0    0    0    0    0    0
## [2507,]    0    0    0    1    0    0    0    0    0    0
## [2508,]    0    0    0    0    0    0    0    0    1    0
## [2509,]    0    0    1    0    0    0    0    0    0    0
## [2510,]    0    0    0    0    0    0    0    0    0    1
## [2511,]    0    0    1    0    0    0    0    0    0    0
## [2512,]    0    0    0    0    0    0    0    0    1    0
## [2513,]    0    0    0    0    0    0    0    1    0    0
## [2514,]    0    0    1    0    0    0    0    0    0    0
## [2515,]    0    0    0    0    0    0    0    0    0    1
## [2516,]    0    0    0    0    0    1    0    0    0    0
## [2517,]    0    0    0    0    0    0    1    0    0    0
## [2518,]    0    0    1    0    0    0    0    0    0    0
## [2519,]    0    0    1    0    0    0    0    0    0    0
## [2520,]    0    0    0    0    0    0    1    0    0    0
```

```
## [2521,]    0    0    0    0    1    0    0    0    0    0
## [2522,]    0    0    0    0    0    0    0    0    0    1
## [2523,]    0    0    0    0    0    0    0    1    0    0
## [2524,]    0    0    0    0    0    0    1    0    0    0
## [2525,]    0    0    0    1    0    0    0    0    0    0
## [2526,]    1    0    0    0    0    0    0    0    0    0
## [2527,]    1    0    0    0    0    0    0    0    0    0
## [2528,]    0    0    0    0    0    1    0    0    0    0
## [2529,]    1    0    0    0    0    0    0    0    0    0
## [2530,]    0    0    0    1    0    0    0    0    0    0
## [2531,]    0    1    0    0    0    0    0    0    0    0
## [2532,]    0    0    0    1    0    0    0    0    0    0
## [2533,]    1    0    0    0    0    0    0    0    0    0
## [2534,]    0    0    0    0    0    0    1    0    0    0
## [2535,]    0    0    1    0    0    0    0    0    0    0
## [2536,]    0    0    0    1    0    0    0    0    0    0
## [2537,]    0    0    0    1    0    0    0    0    0    0
## [2538,]    0    0    0    0    0    1    0    0    0    0
## [2539,]    1    0    0    0    0    0    0    0    0    0
## [2540,]    1    0    0    0    0    0    0    0    0    0
## [2541,]    0    0    0    0    0    0    0    1    0    0
## [2542,]    0    0    0    1    0    0    0    0    0    0
## [2543,]    0    0    0    0    1    0    0    0    0    0
## [2544,]    0    0    0    0    0    0    0    1    0    0
## [2545,]    0    0    0    0    0    1    0    0    0    0
## [2546,]    0    0    0    0    0    0    1    0    0    0
## [2547,]    0    0    0    0    1    0    0    0    0    0
## [2548,]    0    1    0    0    0    0    0    0    0    0
## [2549,]    0    0    0    0    1    0    0    0    0    0
## [2550,]    0    0    0    0    0    1    0    0    0    0
## [2551,]    0    0    1    0    0    0    0    0    0    0
## [2552,]    0    0    0    0    0    1    0    0    0    0
## [2553,]    0    1    0    0    0    0    0    0    0    0
## [2554,]    0    0    0    0    0    0    0    0    0    1
## [2555,]    0    0    0    0    0    1    0    0    0    0
## [2556,]    0    0    0    0    0    0    0    0    1    0
## [2557,]    0    0    0    0    0    0    1    0    0    0
## [2558,]    1    0    0    0    0    0    0    0    0    0
## [2559,]    0    0    0    0    0    0    0    1    0    0
## [2560,]    0    0    0    0    0    0    0    0    0    1
## [2561,]    0    0    0    0    1    0    0    0    0    0
## [2562,]    1    0    0    0    0    0    0    0    0    0
## [2563,]    0    0    0    0    0    0    0    0    0    1
## [2564,]    0    1    0    0    0    0    0    0    0    0
## [2565,]    0    0    0    1    0    0    0    0    0    0
## [2566,]    0    0    1    0    0    0    0    0    0    0
## [2567,]    0    0    0    0    0    1    0    0    0    0
## [2568,]    0    0    0    1    0    0    0    0    0    0
## [2569,]    0    0    0    1    0    0    0    0    0    0
## [2570,]    0    0    0    0    1    0    0    0    0    0
## [2571,]    0    0    0    0    0    0    1    0    0    0
## [2572,]    0    0    0    0    0    1    0    0    0    0
## [2573,]    0    1    0    0    0    0    0    0    0    0
## [2574,]    0    0    0    0    0    0    1    0    0    0
```

```
## [2575,]      0    0    0    0    0    0    0    1    0    0
## [2576,]      0    0    0    0    0    0    0    1    0    0
## [2577,]      0    0    0    0    0    0    0    1    0    0
## [2578,]      0    0    0    0    0    0    0    0    1    0
## [2579,]      0    0    0    0    1    0    0    0    0    0
## [2580,]      0    0    0    0    0    0    0    0    0    1
## [2581,]      0    0    0    1    0    0    0    0    0    0
## [2582,]      1    0    0    0    0    0    0    0    0    0
## [2583,]      1    0    0    0    0    0    0    0    0    0
## [2584,]      0    1    0    0    0    0    0    0    0    0
## [2585,]      1    0    0    0    0    0    0    0    0    0
## [2586,]      0    0    1    0    0    0    0    0    0    0
## [2587,]      1    0    0    0    0    0    0    0    0    0
## [2588,]      0    0    0    1    0    0    0    0    0    0
## [2589,]      0    0    0    0    0    0    1    0    0    0
## [2590,]      0    0    0    0    1    0    0    0    0    0
## [2591,]      0    0    0    0    0    0    1    0    0    0
## [2592,]      0    0    0    0    0    0    0    1    0    0
## [2593,]      0    0    0    0    0    1    0    0    0    0
## [2594,]      0    0    0    0    0    0    0    0    1    0
## [2595,]      0    1    0    0    0    0    0    0    0    0
## [2596,]      0    0    0    0    0    0    0    0    0    1
## [2597,]      0    0    0    0    1    0    0    0    0    0
## [2598,]      1    0    0    0    0    0    0    0    0    0
## [2599,]      0    0    0    0    0    0    0    0    1    0
## [2600,]      0    1    0    0    0    0    0    0    0    0
## [2601,]      0    0    0    0    0    0    0    0    0    1
## [2602,]      0    0    1    0    0    0    0    0    0    0
## [2603,]      0    0    0    0    0    0    1    0    0    0
## [2604,]      0    0    0    1    0    0    0    0    0    0
## [2605,]      0    1    0    0    0    0    0    0    0    0
## [2606,]      0    0    0    0    0    1    0    0    0    0
## [2607,]      1    0    0    0    0    0    0    0    0    0
## [2608,]      0    0    0    0    0    0    1    0    0    0
## [2609,]      0    0    0    0    1    0    0    0    0    0
## [2610,]      0    0    0    0    0    0    0    1    0    0
## [2611,]      0    0    0    0    0    0    0    0    1    0
## [2612,]      0    0    0    0    0    0    0    0    1    0
## [2613,]      0    0    0    0    0    0    0    1    0    0
## [2614,]      0    0    0    0    0    0    0    0    0    1
## [2615,]      0    0    0    0    0    0    1    0    0    0
## [2616,]      1    0    0    0    0    0    0    0    0    0
## [2617,]      0    1    0    0    0    0    0    0    0    0
## [2618,]      1    0    0    0    0    0    0    0    0    0
## [2619,]      0    0    0    0    0    0    0    1    0    0
## [2620,]      0    1    0    0    0    0    0    0    0    0
## [2621,]      0    0    0    0    0    1    0    0    0    0
## [2622,]      1    0    0    0    0    0    0    0    0    0
## [2623,]      0    0    0    0    0    1    0    0    0    0
## [2624,]      0    1    0    0    0    0    0    0    0    0
## [2625,]      1    0    0    0    0    0    0    0    0    0
## [2626,]      0    0    1    0    0    0    0    0    0    0
## [2627,]      0    0    1    0    0    0    0    0    0    0
## [2628,]      0    0    0    1    0    0    0    0    0    0
```

```
## [2629,]    0    0    0    0    0    0    0    0    1    0
## [2630,]    1    0    0    0    0    0    0    0    0    0
## [2631,]    0    1    0    0    0    0    0    0    0    0
## [2632,]    0    0    0    0    0    0    1    0    0    0
## [2633,]    0    0    0    1    0    0    0    0    0    0
## [2634,]    0    0    0    0    0    0    0    0    0    1
## [2635,]    0    0    0    0    0    0    0    1    0    0
## [2636,]    0    0    0    0    0    0    1    0    0    0
## [2637,]    0    0    0    0    0    0    0    0    1    0
## [2638,]    0    0    0    0    0    0    1    0    0    0
## [2639,]    0    0    0    0    0    0    1    0    0    0
## [2640,]    0    0    0    0    0    1    0    0    0    0
## [2641,]    0    0    0    0    0    0    0    0    0    1
## [2642,]    0    0    1    0    0    0    0    0    0    0
## [2643,]    1    0    0    0    0    0    0    0    0    0
## [2644,]    0    0    0    0    0    0    0    0    0    1
## [2645,]    0    0    0    0    0    0    1    0    0    0
## [2646,]    0    1    0    0    0    0    0    0    0    0
## [2647,]    0    0    0    0    0    1    0    0    0    0
## [2648,]    0    0    0    0    1    0    0    0    0    0
## [2649,]    0    0    1    0    0    0    0    0    0    0
## [2650,]    0    0    0    0    0    0    0    0    0    1
## [2651,]    0    0    0    0    0    0    0    1    0    1
## [2652,]    0    0    0    0    0    1    0    0    0    0
## [2653,]    0    0    0    1    0    0    0    0    0    0
## [2654,]    0    0    0    0    0    0    0    1    0    0
## [2655,]    0    1    0    0    0    0    0    0    0    0
## [2656,]    0    0    0    0    0    1    0    0    0    0
## [2657,]    0    0    0    0    0    0    1    0    0    0
## [2658,]    0    0    0    0    0    0    1    0    0    0
## [2659,]    0    0    0    0    0    0    0    1    0    0
## [2660,]    0    0    0    0    0    0    0    1    0    0
## [2661,]    0    0    0    1    0    0    0    0    0    0
## [2662,]    0    0    0    1    0    0    0    0    0    0
## [2663,]    0    0    0    0    0    0    1    0    0    0
## [2664,]    0    1    0    0    0    0    0    0    0    0
## [2665,]    0    0    1    0    0    0    0    0    0    0
## [2666,]    0    0    0    0    1    0    0    0    0    0
## [2667,]    0    0    0    0    0    0    0    1    0    0
## [2668,]    0    1    0    0    0    0    0    0    0    0
## [2669,]    0    0    0    0    0    0    0    0    1    0
## [2670,]    0    0    0    1    0    0    0    0    0    0
## [2671,]    0    0    1    0    0    0    0    0    0    0
## [2672,]    0    0    0    1    0    0    0    0    0    0
## [2673,]    0    0    0    0    0    0    0    0    1    0
## [2674,]    0    0    0    0    0    0    0    1    0    0
## [2675,]    0    0    0    0    0    1    0    0    0    0
## [2676,]    0    0    0    1    0    0    0    0    0    0
## [2677,]    0    0    0    0    0    0    0    1    0    0
## [2678,]    0    0    0    0    0    0    0    0    0    1
## [2679,]    0    0    0    0    0    0    0    0    1    0
## [2680,]    0    0    0    0    0    0    0    0    1    0
## [2681,]    0    0    0    0    0    0    1    0    0    0
## [2682,]    0    0    0    0    0    0    0    0    1    0
```

```
## [2683,]    0    0    0    0    0    0    0    0    1    0
## [2684,]    0    0    0    0    0    0    0    0    1    0
## [2685,]    0    0    1    0    0    0    0    0    0    0
## [2686,]    0    0    0    0    0    0    0    0    1    0
## [2687,]    0    0    0    0    1    0    0    0    0    0
## [2688,]    0    0    0    0    0    0    0    0    1    0
## [2689,]    0    1    0    0    0    0    0    0    0    0
## [2690,]    0    0    0    0    1    0    0    0    0    0
## [2691,]    0    0    0    0    0    1    0    0    0    0
## [2692,]    0    0    0    0    0    0    0    1    0    0
## [2693,]    0    1    0    0    0    0    0    0    0    0
## [2694,]    0    0    1    0    0    0    0    0    0    0
## [2695,]    0    0    1    0    0    0    0    0    0    0
## [2696,]    0    1    0    0    0    0    0    0    0    0
## [2697,]    0    0    0    0    0    0    0    0    0    1
## [2698,]    0    0    0    0    0    0    0    0    0    1
## [2699,]    0    0    0    0    0    1    0    0    0    0
## [2700,]    0    0    0    0    0    0    0    0    1    0
## [2701,]    0    0    1    0    0    0    0    0    0    0
## [2702,]    0    0    0    0    0    0    0    1    0    0
## [2703,]    0    0    0    0    0    0    0    0    0    1
## [2704,]    0    0    0    0    0    0    0    0    0    1
## [2705,]    0    0    0    0    0    0    0    1    0    1
## [2706,]    0    0    0    1    0    0    0    0    0    0
## [2707,]    0    0    0    0    0    0    0    1    0    0
## [2708,]    0    0    0    1    0    0    0    0    0    0
## [2709,]    0    1    0    0    0    0    0    0    0    0
## [2710,]    1    0    0    0    0    0    0    0    0    0
## [2711,]    0    0    0    0    0    0    1    0    0    0
## [2712,]    0    0    0    0    0    0    0    1    0    0
## [2713,]    0    0    0    0    0    0    0    0    0    1
## [2714,]    0    0    0    0    0    1    0    0    0    0
## [2715,]    0    0    1    0    0    0    0    0    0    0
## [2716,]    0    0    0    0    1    0    0    0    0    0
## [2717,]    0    1    0    0    0    0    0    0    0    0
## [2718,]    0    1    0    0    0    0    0    0    0    0
## [2719,]    1    0    0    0    0    0    0    0    0    0
## [2720,]    0    1    0    0    0    0    0    0    0    0
## [2721,]    0    0    0    1    0    0    0    0    0    0
## [2722,]    0    0    1    0    0    0    0    0    0    0
## [2723,]    0    0    0    0    0    0    0    0    0    1
## [2724,]    0    0    0    0    0    0    1    0    0    0
## [2725,]    0    0    0    0    1    0    0    0    0    0
## [2726,]    0    1    0    0    0    0    0    0    0    0
## [2727,]    0    0    0    1    0    0    0    0    0    0
## [2728,]    0    0    0    0    0    1    0    0    0    0
## [2729,]    0    0    0    0    0    0    0    0    0    1
## [2730,]    1    0    0    0    0    0    0    0    0    0
## [2731,]    0    1    0    0    0    0    0    0    0    0
## [2732,]    0    1    0    0    0    0    0    0    0    0
## [2733,]    0    0    0    0    1    0    0    0    0    0
## [2734,]    0    0    1    0    0    0    0    0    0    0
## [2735,]    0    0    0    1    0    0    0    0    0    0
## [2736,]    0    0    0    1    0    0    0    0    0    0
```

```
## [2737,]    1    0    0    0    0    0    0    0    0    0
## [2738,]    0    0    0    0    1    0    0    0    0    0
## [2739,]    0    0    1    0    0    0    0    0    0    0
## [2740,]    0    0    0    0    0    1    0    0    0    0
## [2741,]    0    0    0    1    0    0    0    0    0    0
## [2742,]    0    0    0    0    0    0    1    0    0    0
## [2743,]    0    0    0    0    1    0    0    0    0    0
## [2744,]    0    0    0    0    0    0    0    1    0    0
## [2745,]    0    0    0    0    0    1    0    0    0    0
## [2746,]    1    0    0    0    0    0    0    0    0    0
## [2747,]    1    0    0    0    0    0    0    0    0    0
## [2748,]    0    1    0    0    0    0    0    0    0    0
## [2749,]    0    0    1    0    0    0    0    0    0    0
## [2750,]    0    0    1    0    0    0    0    0    0    0
## [2751,]    0    0    0    0    0    0    0    1    0    0
## [2752,]    0    0    0    1    0    0    0    0    0    0
## [2753,]    0    0    0    0    0    0    0    1    0    0
## [2754,]    0    0    0    0    1    0    0    0    0    0
## [2755,]    0    0    0    0    0    0    0    1    0    0
## [2756,]    0    0    0    0    0    1    0    0    0    0
## [2757,]    0    0    0    0    0    0    1    0    0    0
## [2758,]    0    0    0    0    0    0    1    0    0    0
## [2759,]    0    0    0    0    0    1    0    0    0    0
## [2760,]    0    0    0    0    0    0    0    1    0    0
## [2761,]    0    0    0    1    0    0    0    0    0    0
## [2762,]    0    0    0    0    0    0    0    0    1    0
## [2763,]    0    1    0    0    0    0    0    0    0    0
## [2764,]    0    0    0    0    0    0    0    0    0    1
## [2765,]    0    0    0    0    0    0    0    0    0    1
## [2766,]    1    0    0    0    0    0    0    0    0    0
## [2767,]    0    0    0    0    0    0    0    1    0    0
## [2768,]    0    1    0    0    0    0    0    0    0    0
## [2769,]    0    0    0    0    0    0    0    0    1    0
## [2770,]    0    0    1    0    0    0    0    0    0    0
## [2771,]    1    0    0    0    0    0    0    0    0    0
## [2772,]    0    0    0    1    0    0    0    0    0    0
## [2773,]    0    0    0    0    1    0    0    0    0    0
## [2774,]    0    0    0    0    1    0    0    0    0    0
## [2775,]    0    0    0    1    0    0    0    0    0    0
## [2776,]    0    0    0    0    0    1    0    0    0    0
## [2777,]    0    1    0    0    0    0    0    0    0    0
## [2778,]    0    0    0    0    0    0    1    0    0    0
## [2779,]    0    0    0    0    0    0    0    1    0    0
## [2780,]    0    0    0    0    0    0    0    0    0    1
## [2781,]    0    0    0    0    0    1    0    0    0    0
## [2782,]    0    0    0    0    0    0    0    0    1    0
## [2783,]    1    0    0    0    0    0    0    0    0    0
## [2784,]    0    0    1    0    0    0    0    0    0    0
## [2785,]    0    1    0    0    0    0    0    0    0    0
## [2786,]    0    0    0    0    0    0    1    0    0    0
## [2787,]    0    0    0    1    0    0    0    0    0    0
## [2788,]    0    0    0    0    0    0    0    0    0    1
## [2789,]    0    0    0    1    0    0    0    0    0    0
## [2790,]    0    0    0    0    0    0    1    0    0    0
```

```
## [2791,]      0    0    1    0    0    0    0    0    0    0
## [2792,]      0    1    0    0    0    0    0    0    0    0
## [2793,]      0    0    1    0    0    0    0    0    0    0
## [2794,]      0    0    0    0    0    0    0    0    0    1
## [2795,]      0    1    0    0    0    0    0    0    0    0
## [2796,]      0    0    0    0    0    0    0    0    0    1
## [2797,]      0    0    0    1    0    0    0    0    0    0
## [2798,]      0    0    0    0    0    0    0    0    0    1
## [2799,]      0    0    0    0    0    0    0    0    0    1
## [2800,]      0    0    0    0    1    0    0    0    0    0
## [2801,]      0    0    0    0    1    0    0    0    0    0
## [2802,]      0    0    0    0    1    0    0    0    0    0
## [2803,]      0    0    1    0    0    0    0    0    0    0
## [2804,]      0    0    0    1    0    0    0    0    0    0
## [2805,]      0    0    0    0    0    0    0    0    0    1
## [2806,]      0    0    0    0    0    0    0    0    1    0
## [2807,]      1    0    0    0    0    0    0    0    0    0
## [2808,]      0    1    0    0    0    0    0    0    0    0
## [2809,]      0    0    0    0    1    0    0    0    0    0
## [2810,]      0    0    0    0    1    0    0    0    0    0
## [2811,]      0    0    0    0    0    0    0    0    1    0
## [2812,]      0    1    0    0    0    0    0    0    0    0
## [2813,]      0    0    1    0    0    0    0    0    0    0
## [2814,]      0    0    1    0    0    0    0    0    0    0
## [2815,]      0    0    0    0    0    0    0    1    0    0
## [2816,]      0    0    0    0    0    0    0    0    0    1
## [2817,]      0    0    0    1    0    0    0    0    0    0
## [2818,]      1    0    0    0    0    0    0    0    0    0
## [2819,]      0    0    0    1    0    0    0    0    0    0
## [2820,]      0    0    0    0    1    0    0    0    0    0
## [2821,]      0    0    0    1    0    0    0    0    0    0
## [2822,]      0    0    0    0    0    0    0    0    0    1
## [2823,]      0    0    0    0    0    0    1    0    0    0
## [2824,]      0    1    0    0    0    0    0    0    0    0
## [2825,]      0    0    1    0    0    0    0    0    0    0
## [2826,]      0    0    0    0    0    0    0    1    0    0
## [2827,]      1    0    0    0    0    0    0    0    0    0
## [2828,]      0    0    0    0    1    0    0    0    0    0
## [2829,]      0    0    0    0    0    0    1    0    0    0
## [2830,]      0    0    0    0    1    0    0    0    0    0
## [2831,]      0    1    0    0    0    0    0    0    0    0
## [2832,]      0    1    0    0    0    0    0    0    0    0
## [2833,]      0    0    0    0    1    0    0    0    0    0
## [2834,]      0    0    0    0    0    0    0    0    1    0
## [2835,]      0    0    0    1    0    0    0    0    0    0
## [2836,]      0    0    0    0    0    0    0    1    0    0
## [2837,]      0    0    0    0    0    0    1    0    0    0
## [2838,]      0    0    0    0    0    0    1    0    0    0
## [2839,]      0    0    1    0    0    0    0    0    0    0
## [2840,]      1    0    0    0    0    0    0    0    0    0
## [2841,]      0    0    1    0    0    0    0    0    0    0
## [2842,]      0    0    0    0    0    0    0    0    1    0
## [2843,]      0    0    0    0    0    0    0    0    1    0
## [2844,]      0    1    0    0    0    0    0    0    0    0
```

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```
## [2845,]    0    0    0    0    0    0    0    1    0    0
## [2846,]    0    0    0    0    0    0    0    0    1    0
## [2847,]    0    0    1    0    0    0    0    0    0    0
## [2848,]    0    0    1    0    0    0    0    0    0    0
## [2849,]    0    0    0    0    0    0    0    1    0    0
## [2850,]    0    0    0    0    0    0    1    0    0    0
## [2851,]    0    0    0    0    0    0    1    0    0    0
## [2852,]    0    0    1    0    0    0    0    0    0    0
## [2853,]    0    0    0    0    0    0    0    1    0    0
## [2854,]    0    1    0    0    0    0    0    0    0    0
## [2855,]    1    0    0    0    0    0    0    0    0    0
## [2856,]    0    0    1    0    0    0    0    0    0    0
## [2857,]    0    0    0    0    1    0    0    0    0    0
## [2858,]    0    0    0    0    0    1    0    0    0    0
## [2859,]    0    1    0    0    0    0    0    0    0    0
## [2860,]    0    0    0    0    1    0    0    0    0    0
## [2861,]    0    0    0    0    0    0    0    0    0    1
## [2862,]    0    0    0    0    0    1    0    0    0    0
## [2863,]    0    0    0    0    0    0    1    0    0    0
## [2864,]    0    0    0    0    0    0    1    0    0    0
## [2865,]    1    0    0    0    0    0    0    0    0    0
## [2866,]    0    0    0    0    0    0    0    1    0    0
## [2867,]    0    0    1    0    0    0    0    0    0    0
## [2868,]    0    0    0    0    0    0    0    1    0    0
## [2869,]    0    0    0    0    0    1    0    0    0    0
## [2870,]    0    0    0    0    0    1    0    0    0    0
## [2871,]    0    1    0    0    0    0    0    0    0    0
## [2872,]    0    0    0    1    0    0    0    0    0    0
## [2873,]    0    1    0    0    0    0    0    0    0    0
## [2874,]    1    0    0    0    0    0    0    0    0    0
## [2875,]    0    0    0    0    1    0    0    0    0    0
## [2876,]    0    0    1    0    0    0    0    0    0    0
## [2877,]    0    1    0    0    0    0    0    0    0    0
## [2878,]    0    0    1    0    0    0    0    0    0    0
## [2879,]    0    1    0    0    0    0    0    0    0    0
## [2880,]    0    0    1    0    0    0    0    0    0    0
## [2881,]    0    0    0    0    0    0    1    0    0    0
## [2882,]    0    0    0    0    0    0    0    1    0    0
## [2883,]    1    0    0    0    0    0    0    0    0    0
## [2884,]    0    0    0    1    0    0    0    0    0    0
## [2885,]    0    0    0    0    0    0    1    0    0    0
## [2886,]    0    0    0    0    0    1    0    0    0    0
## [2887,]    0    0    0    1    0    0    0    0    0    0
## [2888,]    0    0    1    0    0    0    0    0    0    0
## [2889,]    0    0    0    0    1    0    0    0    0    0
## [2890,]    0    1    0    0    0    0    0    0    0    0
## [2891,]    1    0    0    0    0    0    0    0    0    0
## [2892,]    0    0    0    0    1    0    0    0    0    0
## [2893,]    0    0    1    0    0    0    0    0    0    0
## [2894,]    0    0    0    0    1    0    0    0    0    0
## [2895,]    0    1    0    0    0    0    0    0    0    0
## [2896,]    0    0    0    1    0    0    0    0    0    0
## [2897,]    0    0    0    0    1    0    0    0    0    0
## [2898,]    1    0    0    0    0    0    0    0    0    0
```

```
##    [2899,]    0    0    0    0    0    0    1    0    0    0
##    [2900,]    1    0    0    0    0    0    0    0    0    0
##    [2901,]    0    0    0    0    0    1    0    0    0    0
##    [2902,]    0    0    0    0    0    0    0    0    1    0
##    [2903,]    0    0    0    0    1    0    0    0    0    0
##    [2904,]    0    0    0    0    0    0    0    1    0    0
##    [2905,]    1    0    0    0    0    0    0    0    0    0
##    [2906,]    0    0    0    1    0    0    0    0    0    0
##    [2907,]    0    1    0    0    0    0    0    0    0    0
##    [2908,]    0    1    0    0    0    0    0    0    0    0
##    [2909,]    0    0    1    0    0    0    0    0    0    0
##    [2910,]    0    0    0    0    0    0    0    1    0    0
##    [2911,]    0    0    0    0    0    0    1    0    0    0
##    [2912,]    0    0    0    0    0    0    0    0    0    1
##    [2913,]    0    0    0    0    0    1    0    0    0    0
##    [2914,]    0    0    0    0    0    0    1    0    0    0
##    [2915,]    1    0    0    0    0    0    0    0    0    0
##    [2916,]    0    0    0    1    0    0    0    0    0    0
##    [2917,]    0    0    0    0    0    1    0    0    0    0
##    [2918,]    0    0    0    1    0    0    0    0    0    0
##    [2919,]    0    1    0    0    0    0    0    0    0    0
##    [2920,]    1    0    0    0    0    0    0    0    0    0
##    [2921,]    0    1    0    0    0    0    0    0    0    0
##    [2922,]    0    0    0    0    0    1    0    0    0    0
##    [2923,]    0    0    0    0    1    0    0    0    0    0
##    [2924,]    0    0    0    0    0    0    1    0    0    0
##    [2925,]    0    0    0    0    0    0    0    0    0    1
##    [2926,]    0    0    0    0    0    0    1    0    0    0
##    [2927,]    0    0    0    1    0    0    0    0    0    0
##    [2928,]    0    0    0    0    0    0    0    0    1    0
##    [2929,]    0    0    0    0    0    1    0    0    0    0
##    [2930,]    0    0    0    0    0    0    0    1    0    0
##    [2931,]    0    0    0    0    0    0    1    0    0    0
##    [2932,]    0    0    0    1    0    0    0    0    0    0
##    [2933,]    0    1    0    0    0    0    0    0    0    0
##    [2934,]    0    0    0    0    0    1    0    0    0    0
##    [2935,]    0    0    0    0    0    0    0    0    0    1
##    [2936,]    1    0    0    0    0    0    0    0    0    0
##    [2937,]    0    0    1    0    0    0    0    0    0    0
##    [2938,]    0    1    0    0    0    0    0    0    0    0
##    [2939,]    0    1    0    0    0    0    0    0    0    0
##    [2940,]    0    0    1    0    0    0    0    0    0    0
##    [2941,]    0    0    0    0    0    0    0    0    1    0
##    [2942,]    0    0    0    1    0    0    0    0    0    0
##    [2943,]    0    0    0    0    0    0    0    0    1    0
##    [2944,]    0    0    0    0    1    0    0    0    0    0
##    [2945,]    1    0    0    0    0    0    0    0    0    0
##    [2946,]    0    0    0    0    0    1    0    0    0    0
##    [2947,]    0    0    0    0    0    1    0    0    0    0
##    [2948,]    0    0    0    0    0    0    1    0    0    0
##    [2949,]    0    0    0    0    0    1    0    0    0    0
##    [2950,]    0    0    0    0    0    0    0    1    0    0
##    [2951,]    0    0    0    0    0    0    0    1    0    0
##    [2952,]    0    0    0    0    0    0    0    0    1    0
```

```
##   [2953,]   1   0   0   0   0   0   0   0   0   0
##   [2954,]   0   0   0   0   0   0   0   0   0   1
##   [2955,]   0   0   0   0   0   0   1   0   0   0
##   [2956,]   1   0   0   0   0   0   0   0   0   0
##   [2957,]   0   0   0   0   0   0   0   0   0   1
##   [2958,]   0   1   0   0   0   0   0   0   0   0
##   [2959,]   0   0   0   0   0   0   0   0   1   0
##   [2960,]   0   0   1   0   0   0   0   0   0   0
##   [2961,]   0   0   0   1   0   0   0   0   0   0
##   [2962,]   0   0   0   1   0   0   0   0   0   0
##   [2963,]   0   0   0   0   1   0   0   0   0   0
##   [2964,]   0   0   0   0   1   0   0   0   0   0
##   [2965,]   0   0   0   1   0   0   0   0   0   0
##   [2966,]   0   0   0   0   0   1   0   0   0   0
##   [2967,]   0   0   0   0   0   1   0   0   0   0
##   [2968,]   0   0   0   0   0   0   1   0   0   0
##   [2969,]   0   0   0   0   0   1   0   0   0   0
##   [2970,]   0   0   0   0   0   0   0   1   0   0
##   [2971,]   0   1   0   0   0   0   0   0   0   0
##   [2972,]   0   0   0   0   0   0   0   0   1   0
##   [2973,]   0   0   0   0   0   0   0   0   1   0
##   [2974,]   0   0   0   0   0   0   0   0   0   1
##   [2975,]   1   0   0   0   0   0   0   0   0   0
##   [2976,]   1   0   0   0   0   0   0   0   0   0
##   [2977,]   0   0   1   0   0   0   0   0   0   0
##   [2978,]   0   1   0   0   0   0   0   0   0   0
##   [2979,]   0   0   0   0   0   0   1   0   0   0
##   [2980,]   0   0   1   0   0   0   0   0   0   0
##   [2981,]   0   0   0   0   0   0   0   1   0   0
##   [2982,]   0   0   0   1   0   0   0   0   0   0
##   [2983,]   0   0   0   0   0   0   0   1   0   0
##   [2984,]   0   0   0   0   1   0   0   0   0   0
##   [2985,]   0   0   0   0   0   0   0   1   0   0
##   [2986,]   0   0   0   0   0   0   0   1   0   0
##   [2987,]   0   0   0   0   0   0   0   1   0   0
##   [2988,]   0   0   0   0   0   0   0   0   1   0
##   [2989,]   0   1   0   0   0   0   0   0   0   0
##   [2990,]   0   0   0   0   0   0   0   0   0   1
##   [2991,]   0   0   0   0   1   0   0   0   0   0
##   [2992,]   0   0   0   0   0   0   0   0   1   0
##   [2993,]   0   0   0   0   0   0   1   0   0   0
##   [2994,]   0   0   0   0   0   1   0   0   0   0
##   [2995,]   0   1   0   0   0   0   0   0   0   0
##   [2996,]   0   0   0   0   0   0   0   1   0   0
##   [2997,]   1   0   0   0   0   0   0   0   0   0
##   [2998,]   0   0   0   0   0   0   0   0   0   1
##   [2999,]   0   1   0   0   0   0   0   0   0   0
##   [3000,]   0   0   0   0   0   1   0   0   0   0
##   [3001,]   0   0   0   0   0   0   0   0   0   1
##   [3002,]   1   0   0   0   0   0   0   0   0   0
##   [3003,]   0   0   0   0   0   0   0   0   1   0
##   [3004,]   0   0   0   0   0   0   0   0   1   0
##   [3005,]   0   1   0   0   0   0   0   0   0   0
##   [3006,]   0   0   0   1   0   0   0   0   0   0
```

```
## [3007,]    0    0    1    0    0    0    0    0    0    0
## [3008,]    0    0    0    0    0    1    0    0    0    0
## [3009,]    0    0    0    0    0    0    0    1    0    0
## [3010,]    0    0    0    0    1    0    0    0    0    0
## [3011,]    0    0    0    0    0    0    0    1    0    0
## [3012,]    0    0    0    0    0    0    0    0    1    0
## [3013,]    1    0    0    0    0    0    0    0    0    0
## [3014,]    0    0    0    1    0    0    0    0    0    0
## [3015,]    0    0    0    0    0    0    0    0    1    0
## [3016,]    1    0    0    0    0    0    0    0    0    0
## [3017,]    1    0    0    0    0    0    0    0    0    0
## [3018,]    0    0    1    0    0    0    0    0    0    0
## [3019,]    0    0    0    0    1    0    0    0    0    0
## [3020,]    0    1    0    0    0    0    0    0    0    0
## [3021,]    0    0    0    0    0    0    0    0    0    1
## [3022,]    1    0    0    0    0    0    0    0    0    0
## [3023,]    0    0    0    0    0    0    0    0    0    1
## [3024,]    0    0    1    0    0    0    0    0    0    0
## [3025,]    1    0    0    0    0    0    0    0    0    0
## [3026,]    0    0    0    0    0    1    0    0    0    0
## [3027,]    0    0    0    0    0    0    0    0    1    0
## [3028,]    0    0    0    0    0    0    0    0    1    0
## [3029,]    0    0    0    0    0    0    0    0    1    0
## [3030,]    0    0    0    0    0    0    0    0    1    0
## [3031,]    0    0    0    0    0    0    0    0    0    1
## [3032,]    0    0    0    0    0    1    0    0    0    0
## [3033,]    0    0    0    0    0    0    0    0    1    0
## [3034,]    0    0    0    1    0    0    0    0    0    0
## [3035,]    0    0    0    1    0    0    0    0    0    0
## [3036,]    1    0    0    0    0    0    0    0    0    0
## [3037,]    0    0    0    0    0    0    1    0    0    0
## [3038,]    0    0    0    0    1    0    0    0    0    0
## [3039,]    0    0    0    0    1    0    0    0    0    0
## [3040,]    0    0    0    0    1    0    0    0    0    0
## [3041,]    0    0    0    0    0    0    0    0    1    0
## [3042,]    0    1    0    0    0    0    0    0    0    0
## [3043,]    0    0    1    0    0    0    0    0    0    0
## [3044,]    0    0    0    0    0    0    1    0    0    0
## [3045,]    0    0    0    0    0    0    0    0    0    1
## [3046,]    0    1    0    0    0    0    0    0    0    0
## [3047,]    0    0    0    0    0    0    1    0    0    0
## [3048,]    0    0    0    1    0    0    0    0    0    0
## [3049,]    0    0    0    1    0    0    0    0    0    0
## [3050,]    1    0    0    0    0    0    0    0    0    0
## [3051,]    0    0    0    0    0    0    1    0    0    0
## [3052,]    0    0    0    1    0    0    0    0    0    0
## [3053,]    0    0    0    0    1    0    0    0    0    0
## [3054,]    0    0    0    0    0    0    1    0    0    0
## [3055,]    0    0    1    0    0    0    0    0    0    0
## [3056,]    0    0    0    0    0    0    0    0    0    1
## [3057,]    0    0    0    0    1    0    0    0    0    0
## [3058,]    0    0    0    1    0    0    0    0    0    0
## [3059,]    0    0    0    0    0    0    1    0    0    0
## [3060,]    0    0    0    0    0    0    0    1    0    0
```

```
## [3061,]     0    0    0    0    0    0    0    1    0    0
## [3062,]     0    0    0    0    1    0    0    0    0    0
## [3063,]     0    0    0    0    0    1    0    0    0    0
## [3064,]     0    0    0    0    0    0    0    0    0    1
## [3065,]     0    0    1    0    0    0    0    0    0    0
## [3066,]     0    0    0    0    0    0    0    1    0    0
## [3067,]     0    0    0    0    0    0    0    0    1    0
## [3068,]     1    0    0    0    0    0    0    0    0    0
## [3069,]     0    1    0    0    0    0    0    0    0    0
## [3070,]     0    0    0    0    0    0    0    0    0    1
## [3071,]     0    1    0    0    0    0    0    0    0    0
## [3072,]     0    0    0    0    1    0    0    0    0    0
## [3073,]     0    0    0    0    1    0    0    0    0    0
## [3074,]     0    0    0    0    0    0    0    0    1    0
## [3075,]     0    0    0    0    1    0    0    0    0    0
## [3076,]     0    0    0    1    0    0    0    0    0    0
## [3077,]     0    0    0    0    0    0    0    0    0    1
## [3078,]     0    0    1    0    0    0    0    0    0    0
## [3079,]     0    0    1    0    0    0    0    0    0    0
## [3080,]     0    0    0    0    0    0    0    1    0    0
## [3081,]     0    1    0    0    0    0    0    0    0    0
## [3082,]     0    0    0    0    0    0    0    1    0    0
## [3083,]     0    0    0    0    0    0    0    0    1    0
## [3084,]     0    0    0    0    0    0    0    0    0    1
## [3085,]     0    0    0    0    0    0    0    0    0    1
## [3086,]     0    0    0    0    0    1    0    0    0    0
## [3087,]     0    0    0    0    0    0    0    0    1    0
## [3088,]     0    0    0    0    0    0    0    1    0    0
## [3089,]     0    0    0    0    1    0    0    0    0    0
## [3090,]     0    0    0    0    0    0    1    0    0    0
## [3091,]     0    0    0    0    0    0    0    0    0    1
## [3092,]     0    0    0    0    1    0    0    0    0    0
## [3093,]     0    0    0    0    1    0    0    0    0    0
## [3094,]     0    0    0    0    0    0    0    0    1    0
## [3095,]     0    0    0    0    0    0    0    0    1    0
## [3096,]     0    0    0    0    0    0    0    0    0    1
## [3097,]     0    0    0    0    0    0    1    0    0    0
## [3098,]     0    0    0    0    0    0    1    0    0    0
## [3099,]     0    0    0    0    0    0    1    0    0    0
## [3100,]     0    0    0    0    0    0    0    0    0    1
## [3101,]     0    0    0    0    1    0    0    0    0    0
## [3102,]     0    0    0    0    1    0    0    0    0    0
## [3103,]     0    0    1    0    0    0    0    0    0    0
## [3104,]     0    1    0    0    0    0    0    0    0    0
## [3105,]     0    0    0    0    0    0    0    0    0    1
## [3106,]     0    0    1    0    0    0    0    0    0    0
## [3107,]     1    0    0    0    0    0    0    0    0    0
## [3108,]     1    0    0    0    0    0    0    0    0    0
## [3109,]     0    0    0    1    0    0    0    0    0    0
## [3110,]     0    0    0    0    0    0    1    0    0    0
## [3111,]     0    0    0    0    1    0    0    0    0    0
## [3112,]     0    1    0    0    0    0    0    0    0    0
## [3113,]     0    0    1    0    0    0    0    0    0    0
## [3114,]     0    1    0    0    0    0    0    0    0    0
```

```
##   [3115,]     0     0     0     0     0     0     0     0     1     0
##   [3116,]     0     0     0     0     0     0     1     0     0     0
##   [3117,]     0     0     0     0     0     0     0     1     0     0
##   [3118,]     0     0     0     0     1     0     0     0     0     0
##   [3119,]     0     0     0     0     0     1     0     0     0     0
##   [3120,]     0     0     0     0     0     0     0     0     1     0
##   [3121,]     0     1     0     0     0     0     0     0     0     0
##   [3122,]     0     0     0     0     0     0     0     0     0     1
##   [3123,]     0     1     0     0     0     0     0     0     0     0
##   [3124,]     0     0     0     0     0     0     1     0     0     0
##   [3125,]     0     0     0     1     0     0     0     0     0     0
##   [3126,]     0     0     0     0     1     0     0     0     0     0
##   [3127,]     0     0     0     0     0     1     0     0     0     0
##   [3128,]     0     0     0     0     0     0     1     0     0     0
##   [3129,]     1     0     0     0     0     0     0     0     0     0
##   [3130,]     0     0     0     0     0     1     0     0     0     0
##   [3131,]     0     1     0     0     0     0     0     0     0     0
##   [3132,]     1     0     0     0     0     0     0     0     0     0
##   [3133,]     0     1     0     0     0     0     0     0     0     0
##   [3134,]     0     0     1     0     0     0     0     0     0     0
##   [3135,]     0     0     1     0     0     0     0     0     0     0
##   [3136,]     1     0     0     0     0     0     0     0     0     0
##   [3137,]     0     0     0     0     0     0     1     0     0     0
##   [3138,]     0     0     0     0     0     1     0     0     0     0
##   [3139,]     0     0     0     0     1     0     0     0     0     0
##   [3140,]     0     0     0     0     0     0     1     0     0     0
##   [3141,]     0     0     0     0     0     0     0     1     0     0
##   [3142,]     0     0     0     0     0     1     0     0     0     0
##   [3143,]     0     0     1     0     0     0     0     0     0     0
##   [3144,]     1     0     0     0     0     0     0     0     0     0
##   [3145,]     0     0     0     0     0     0     0     0     1     0
##   [3146,]     0     1     0     0     0     0     0     0     0     0
##   [3147,]     0     0     0     0     0     0     0     0     0     1
##   [3148,]     0     0     1     0     0     0     0     0     0     0
##   [3149,]     0     0     0     0     0     0     0     0     1     0
##   [3150,]     0     1     0     0     0     0     0     0     0     0
##   [3151,]     0     0     0     1     0     0     0     0     0     0
##   [3152,]     0     0     0     0     0     0     0     1     0     0
##   [3153,]     0     0     0     0     0     0     0     0     1     0
##   [3154,]     0     0     0     0     0     0     0     0     1     0
##   [3155,]     0     0     0     0     0     0     0     0     1     0
##   [3156,]     0     1     0     0     0     0     0     0     0     0
##   [3157,]     0     0     1     0     0     0     0     0     0     0
##   [3158,]     0     0     0     0     1     0     0     0     0     0
##   [3159,]     0     0     0     0     0     0     0     0     1     0
##   [3160,]     0     0     0     1     0     0     0     0     0     0
##   [3161,]     1     0     0     0     0     0     0     0     0     0
##   [3162,]     0     0     1     0     0     0     0     0     0     0
##   [3163,]     0     0     0     0     0     0     0     1     0     0
##   [3164,]     0     0     0     0     0     0     0     0     1     0
##   [3165,]     0     0     0     0     0     0     0     0     0     1
##   [3166,]     0     0     1     0     0     0     0     0     0     0
##   [3167,]     0     0     1     0     0     0     0     0     0     0
##   [3168,]     0     0     0     0     0     0     0     1     0     0
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```
## [3169,]    0    0    0    0    0    0    0    0    1    0
## [3170,]    0    0    0    0    0    0    0    0    0    1
## [3171,]    0    0    0    0    0    1    0    0    0    0
## [3172,]    0    0    0    1    0    0    0    0    0    0
## [3173,]    0    0    0    0    0    0    1    0    0    0
## [3174,]    0    0    0    0    0    0    0    0    0    1
## [3175,]    0    0    0    1    0    0    0    0    0    0
## [3176,]    1    0    0    0    0    0    0    0    0    0
## [3177,]    0    0    1    0    0    0    0    0    0    0
## [3178,]    0    1    0    0    0    0    0    0    0    0
## [3179,]    0    0    0    1    0    0    0    0    0    0
## [3180,]    0    0    1    0    0    0    0    0    0    0
## [3181,]    0    0    0    0    0    1    0    0    0    0
## [3182,]    0    0    0    1    0    0    0    0    0    0
## [3183,]    0    0    0    0    1    0    0    0    0    0
## [3184,]    0    0    0    0    1    0    0    0    0    0
## [3185,]    0    0    0    0    1    0    0    0    0    0
## [3186,]    0    0    0    0    0    1    0    0    0    0
## [3187,]    0    0    0    0    0    0    0    0    0    1
## [3188,]    0    0    0    0    0    0    1    0    0    0
## [3189,]    0    0    0    0    0    1    0    0    0    0
## [3190,]    0    0    0    0    0    0    0    1    0    0
## [3191,]    0    0    0    0    0    0    0    0    0    1
## [3192,]    0    0    0    0    0    0    0    0    1    0
## [3193,]    0    0    0    1    0    0    0    0    0    0
## [3194,]    0    0    0    0    0    0    0    0    0    1
## [3195,]    0    0    0    0    1    0    0    0    0    0
## [3196,]    1    0    0    0    0    0    0    0    0    0
## [3197,]    0    0    0    0    0    0    0    0    1    0
## [3198,]    0    1    0    0    0    0    0    0    0    0
## [3199,]    1    0    0    0    0    0    0    0    0    0
## [3200,]    0    0    1    0    0    0    0    0    0    0
## [3201,]    0    0    1    0    0    0    0    0    0    0
## [3202,]    0    0    0    1    0    0    0    0    0    0
## [3203,]    0    0    0    0    0    0    0    0    0    1
## [3204,]    0    0    0    0    1    0    0    0    0    0
## [3205,]    0    0    0    0    0    1    0    0    0    0
## [3206,]    0    0    0    0    0    1    0    0    0    0
## [3207,]    0    0    0    0    0    0    0    1    0    0
## [3208,]    0    0    0    0    0    0    1    0    0    0
## [3209,]    0    0    1    0    0    0    0    0    0    0
## [3210,]    0    0    0    0    0    0    0    1    0    0
## [3211,]    0    0    0    0    0    0    0    1    0    0
## [3212,]    0    0    0    0    0    0    0    0    1    0
## [3213,]    0    1    0    0    0    0    0    0    0    0
## [3214,]    1    0    0    0    0    0    0    0    0    0
## [3215,]    0    0    0    0    0    0    0    1    0    0
## [3216,]    0    0    0    1    0    0    0    0    0    0
## [3217,]    0    0    0    0    0    1    0    0    0    0
## [3218,]    0    0    0    0    1    0    0    0    0    0
## [3219,]    0    0    0    0    1    0    0    0    0    0
## [3220,]    0    0    0    0    0    1    0    0    0    0
## [3221,]    0    0    0    1    0    0    0    0    0    0
## [3222,]    0    0    0    0    0    0    1    0    0    0
```

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```
##   [3223,]      0    0    0    0    1    0    0    0    0    0
##   [3224,]      0    0    0    0    0    0    0    1    0    0
##   [3225,]      0    0    1    0    0    0    0    0    0    0
##   [3226,]      0    0    0    0    0    0    0    0    1    0
##   [3227,]      0    1    0    0    0    0    0    0    0    0
##   [3228,]      0    0    0    0    0    0    0    0    0    1
##   [3229,]      0    0    0    0    0    0    0    1    0    0
##   [3230,]      0    0    0    0    0    0    1    0    0    0
##   [3231,]      0    1    0    0    0    0    0    0    0    0
##   [3232,]      1    0    0    0    0    0    0    0    0    0
##   [3233,]      0    0    0    0    0    0    0    0    0    1
##   [3234,]      0    0    0    1    0    0    0    0    0    0
##   [3235,]      0    1    0    0    0    0    0    0    0    0
##   [3236,]      0    0    0    0    1    0    0    0    0    0
##   [3237,]      0    0    0    0    0    0    0    1    0    0
##   [3238,]      0    1    0    0    0    0    0    0    0    0
##   [3239,]      0    0    0    0    0    0    0    0    0    1
##   [3240,]      0    0    0    0    1    0    0    0    0    0
##   [3241,]      0    0    0    0    1    0    0    0    0    0
##   [3242,]      1    0    0    0    0    0    0    0    0    0
##   [3243,]      0    0    1    0    0    0    0    0    0    0
##   [3244,]      0    0    0    0    0    0    0    0    1    0
##   [3245,]      0    0    1    0    0    0    0    0    0    0
##   [3246,]      0    0    0    0    0    0    1    0    0    0
##   [3247,]      0    0    0    0    0    0    0    1    0    0
##   [3248,]      1    0    0    0    0    0    0    0    0    0
##   [3249,]      1    0    0    0    0    0    0    0    0    0
##   [3250,]      0    0    0    0    0    0    0    1    0    0
##   [3251,]      0    0    0    0    0    0    0    1    0    0
##   [3252,]      0    0    0    0    0    0    0    0    1    0
##   [3253,]      0    0    0    0    0    0    0    1    0    0
##   [3254,]      0    0    0    0    0    0    0    1    0    0
##   [3255,]      0    0    0    0    0    0    0    0    1    0
##   [3256,]      0    0    0    0    0    0    0    1    0    0
##   [3257,]      0    0    0    0    0    0    0    0    0    1
##   [3258,]      0    0    0    0    0    0    0    0    0    1
##   [3259,]      0    0    0    1    0    0    0    0    0    0
##   [3260,]      1    0    0    0    0    0    0    0    0    0
##   [3261,]      0    0    0    0    1    0    0    0    0    0
##   [3262,]      0    0    0    0    1    0    0    0    0    0
##   [3263,]      1    0    0    0    0    0    0    0    0    0
##   [3264,]      0    0    0    0    0    0    0    0    0    1
##   [3265,]      0    0    0    1    0    0    0    0    0    0
##   [3266,]      0    0    0    0    0    0    0    0    0    1
##   [3267,]      0    0    0    0    0    1    0    0    0    0
##   [3268,]      0    0    0    0    0    0    0    1    0    0
##   [3269,]      0    0    0    0    0    0    1    0    0    0
##   [3270,]      1    0    0    0    0    0    0    0    0    0
##   [3271,]      0    0    0    0    0    0    0    1    0    0
##   [3272,]      0    0    0    0    0    1    0    0    0    0
##   [3273,]      0    1    0    0    0    0    0    0    0    0
##   [3274,]      0    0    0    0    0    0    0    0    1    0
##   [3275,]      0    0    1    0    0    0    0    0    0    0
##   [3276,]      0    0    0    0    0    1    0    0    0    0
```

```
## [3277,]    0    0    0    0    0    0    0    1    0    0
## [3278,]    0    0    0    0    0    0    0    0    0    1
## [3279,]    0    0    0    0    1    0    0    0    0    0
## [3280,]    0    0    0    0    0    0    0    0    1    0
## [3281,]    0    0    0    0    1    0    0    0    0    0
## [3282,]    0    0    0    0    0    0    0    0    1    0
## [3283,]    0    0    0    0    0    0    0    1    0    0
## [3284,]    0    0    0    0    0    0    0    1    0    0
## [3285,]    0    0    0    0    0    0    0    0    0    1
## [3286,]    0    0    0    0    0    1    0    0    0    0
## [3287,]    1    0    0    0    0    0    0    0    0    0
## [3288,]    0    0    0    0    0    0    1    0    0    0
## [3289,]    0    0    0    0    0    0    1    0    0    0
## [3290,]    0    0    0    0    0    1    0    0    0    0
## [3291,]    0    0    0    0    1    0    0    0    0    0
## [3292,]    0    0    0    1    0    0    0    0    0    0
## [3293,]    0    0    0    0    0    0    0    0    0    1
## [3294,]    0    0    0    0    0    0    0    0    1    0
## [3295,]    0    0    0    0    0    0    1    0    0    0
## [3296,]    0    1    0    0    0    0    0    0    0    0
## [3297,]    0    0    0    0    0    0    0    0    0    1
## [3298,]    0    0    0    0    0    0    1    0    0    0
## [3299,]    0    0    0    0    0    0    0    1    0    0
## [3300,]    0    0    0    0    0    0    0    0    1    0
## [3301,]    0    0    1    0    0    0    0    0    0    0
## [3302,]    0    0    0    0    0    1    0    0    0    0
## [3303,]    0    0    0    0    0    0    0    0    0    1
## [3304,]    0    0    0    0    0    0    0    0    0    1
## [3305,]    0    0    1    0    0    0    0    0    0    0
## [3306,]    0    0    1    0    0    0    0    0    0    0
## [3307,]    0    1    0    0    0    0    0    0    0    0
## [3308,]    0    0    1    0    0    0    0    0    0    0
## [3309,]    0    0    1    0    0    0    0    0    0    0
## [3310,]    1    0    0    0    0    0    0    0    0    0
## [3311,]    0    0    0    0    0    0    0    0    0    1
## [3312,]    0    0    0    0    0    0    0    0    0    1
## [3313,]    0    0    0    0    1    0    0    0    0    0
## [3314,]    0    0    1    0    0    0    0    0    0    0
## [3315,]    0    0    0    1    0    0    0    0    0    0
## [3316,]    0    0    0    0    1    0    0    0    0    0
## [3317,]    0    0    0    0    0    0    0    0    0    1
## [3318,]    0    0    0    0    0    0    0    1    0    0
## [3319,]    0    0    0    1    0    0    0    0    0    0
## [3320,]    0    0    0    1    0    0    0    0    0    0
## [3321,]    0    0    0    1    0    0    0    0    0    0
## [3322,]    0    1    0    0    0    0    0    0    0    0
## [3323,]    0    0    0    0    0    0    0    0    0    1
## [3324,]    0    0    0    1    0    0    0    0    0    0
## [3325,]    0    0    0    0    0    0    0    1    0    0
## [3326,]    0    0    0    0    0    0    1    0    0    0
## [3327,]    0    0    0    0    0    1    0    0    0    0
## [3328,]    0    0    0    0    0    0    1    0    0    0
## [3329,]    1    0    0    0    0    0    0    0    0    0
## [3330,]    0    0    1    0    0    0    0    0    0    0
```

```
## [3331,]    0    0    0    0    0    0    1    0    0    0
## [3332,]    0    1    0    0    0    0    0    0    0    0
## [3333,]    0    0    0    1    0    0    0    0    0    0
## [3334,]    0    0    1    0    0    0    0    0    0    0
## [3335,]    0    0    0    0    1    0    0    0    0    0
## [3336,]    0    0    0    0    0    0    1    0    0    0
## [3337,]    0    0    0    1    0    0    0    0    0    0
## [3338,]    1    0    0    0    0    0    0    0    0    0
## [3339,]    0    0    0    0    0    0    0    0    1    0
## [3340,]    0    0    1    0    0    0    0    0    0    0
## [3341,]    0    0    0    0    1    0    0    0    0    0
## [3342,]    0    0    1    0    0    0    0    0    0    0
## [3343,]    0    0    1    0    0    0    0    0    0    0
## [3344,]    0    0    0    0    0    0    0    1    0    0
## [3345,]    0    1    0    0    0    0    0    0    0    0
## [3346,]    0    1    0    0    0    0    0    0    0    0
## [3347,]    0    0    0    0    0    0    0    0    0    1
## [3348,]    0    0    0    1    0    0    0    0    0    0
## [3349,]    0    0    0    0    0    0    0    0    0    1
## [3350,]    0    0    0    0    0    0    0    1    0    0
## [3351,]    0    0    0    0    1    0    0    0    0    0
## [3352,]    0    0    0    0    1    0    0    0    0    0
## [3353,]    0    0    0    0    1    0    0    0    0    0
## [3354,]    0    0    0    0    0    0    0    0    1    0
## [3355,]    0    0    0    0    0    0    0    0    1    0
## [3356,]    0    0    0    0    0    0    0    0    0    1
## [3357,]    0    0    0    0    0    1    0    0    0    0
## [3358,]    0    0    1    0    0    0    0    0    0    0
## [3359,]    0    0    0    1    0    0    0    0    0    0
## [3360,]    0    0    0    0    0    0    0    0    0    1
## [3361,]    0    0    0    0    1    0    0    0    0    0
## [3362,]    0    0    0    0    0    1    0    0    0    0
## [3363,]    0    0    1    0    0    0    0    0    0    0
## [3364,]    0    0    0    0    0    0    1    0    0    0
## [3365,]    0    0    0    0    0    0    1    0    0    0
## [3366,]    0    0    0    0    0    0    0    0    1    0
## [3367,]    0    0    0    0    0    0    1    0    0    0
## [3368,]    1    0    0    0    0    0    0    0    0    0
## [3369,]    0    0    0    0    0    0    0    1    0    0
## [3370,]    1    0    0    0    0    0    0    0    0    0
## [3371,]    0    0    0    0    1    0    0    0    0    0
## [3372,]    0    0    0    0    0    0    0    0    0    1
## [3373,]    0    0    0    0    0    0    0    1    0    0
## [3374,]    0    1    0    0    0    0    0    0    0    0
## [3375,]    0    0    0    0    0    0    0    0    0    1
## [3376,]    0    1    0    0    0    0    0    0    0    0
## [3377,]    1    0    0    0    0    0    0    0    0    0
## [3378,]    1    0    0    0    0    0    0    0    0    0
## [3379,]    0    0    0    0    0    1    0    0    0    0
## [3380,]    0    1    0    0    0    0    0    0    0    0
## [3381,]    0    1    0    0    0    0    0    0    0    0
## [3382,]    0    0    1    0    0    0    0    0    0    0
## [3383,]    0    0    0    0    0    0    0    0    0    1
## [3384,]    0    0    0    1    0    0    0    0    0    0
```

```
## [3385,]    0    0    0    0    0    1    0    0    0    0
## [3386,]    0    0    0    0    0    1    0    0    0    0
## [3387,]    0    0    0    1    0    0    0    0    0    0
## [3388,]    0    0    0    0    0    0    1    0    0    0
## [3389,]    0    0    0    0    1    0    0    0    0    0
## [3390,]    0    0    0    0    0    0    0    0    0    1
## [3391,]    0    0    1    0    0    0    0    0    0    0
## [3392,]    1    0    0    0    0    0    0    0    0    0
## [3393,]    0    0    0    0    0    0    1    0    0    0
## [3394,]    0    1    0    0    0    0    0    0    0    0
## [3395,]    0    1    0    0    0    0    0    0    0    0
## [3396,]    0    0    1    0    0    0    0    0    0    0
## [3397,]    1    0    0    0    0    0    0    0    0    0
## [3398,]    0    0    0    1    0    0    0    0    0    0
## [3399,]    0    0    0    0    0    0    0    0    0    1
## [3400,]    0    0    0    0    1    0    0    0    0    0
## [3401,]    0    0    0    1    0    0    0    0    0    0
## [3402,]    0    0    0    0    0    1    0    0    0    0
## [3403,]    0    0    0    1    0    0    0    0    0    0
## [3404,]    0    0    0    0    0    0    1    0    0    0
## [3405,]    0    0    0    1    0    0    0    0    0    0
## [3406,]    0    0    0    0    0    0    0    1    0    0
## [3407,]    0    1    0    0    0    0    0    0    0    0
## [3408,]    0    0    0    0    0    0    0    0    1    0
## [3409,]    0    0    0    0    0    0    0    1    0    0
## [3410,]    1    0    0    0    0    0    0    0    0    0
## [3411,]    1    0    0    0    0    0    0    0    0    0
## [3412,]    0    1    0    0    0    0    0    0    0    0
## [3413,]    0    1    0    0    0    0    0    0    0    0
## [3414,]    0    0    1    0    0    0    0    0    0    0
## [3415,]    0    0    0    0    0    0    0    0    0    1
## [3416,]    0    0    0    1    0    0    0    0    0    0
## [3417,]    0    0    0    0    0    1    0    0    0    0
## [3418,]    0    0    0    0    1    0    0    0    0    0
## [3419,]    0    1    0    0    0    0    0    0    0    0
## [3420,]    0    0    0    0    0    1    0    0    0    0
## [3421,]    0    0    0    0    0    0    0    0    1    0
## [3422,]    0    0    0    0    0    0    1    0    0    0
## [3423,]    0    0    0    1    0    0    0    0    0    0
## [3424,]    0    0    0    0    0    0    0    1    0    0
## [3425,]    0    0    0    1    0    0    0    0    0    0
## [3426,]    0    0    0    0    0    0    0    0    1    0
## [3427,]    0    0    0    0    0    0    0    1    0    0
## [3428,]    0    1    0    0    0    0    0    0    0    0
## [3429,]    0    0    0    0    0    0    0    1    0    0
## [3430,]    1    0    0    0    0    0    0    0    0    0
## [3431,]    0    1    0    0    0    0    0    0    0    0
## [3432,]    0    1    0    0    0    0    0    0    0    0
## [3433,]    0    0    0    0    0    0    0    0    1    0
## [3434,]    0    0    0    0    0    1    0    0    0    0
## [3435,]    1    0    0    0    0    0    0    0    0    0
## [3436,]    0    0    0    1    0    0    0    0    0    0
## [3437,]    0    0    0    0    1    0    0    0    0    0
## [3438,]    0    0    0    0    1    0    0    0    0    0
```

```
## [3439,]    0    0    0    0    0    0    0    0    1    0
## [3440,]    0    0    0    0    1    0    0    0    0    0
## [3441,]    0    1    0    0    0    0    0    0    0    0
## [3442,]    1    0    0    0    0    0    0    0    0    0
## [3443,]    0    0    0    0    0    0    0    1    0    0
## [3444,]    1    0    0    0    0    0    0    0    0    0
## [3445,]    0    0    1    0    0    0    0    0    0    0
## [3446,]    0    0    0    0    0    0    1    0    0    0
## [3447,]    0    0    0    0    0    0    0    0    1    0
## [3448,]    0    0    0    0    0    0    0    0    0    1
## [3449,]    0    0    0    0    0    0    0    1    0    0
## [3450,]    0    0    0    0    0    0    1    0    0    0
## [3451,]    0    0    0    0    1    0    0    0    0    0
## [3452,]    0    0    0    0    0    0    1    0    0    0
## [3453,]    0    0    0    1    0    0    0    0    0    0
## [3454,]    0    0    0    0    0    1    0    0    0    0
## [3455,]    0    0    0    0    0    0    1    0    0    0
## [3456,]    0    0    0    0    1    0    0    0    0    0
## [3457,]    0    1    0    0    0    0    0    0    0    0
## [3458,]    0    0    0    0    1    0    0    0    0    0
## [3459,]    0    0    0    0    1    0    0    0    0    0
## [3460,]    0    0    0    0    1    0    0    0    0    0
## [3461,]    0    0    0    1    0    0    0    0    0    0
## [3462,]    1    0    0    0    0    0    0    0    0    0
## [3463,]    0    0    0    1    0    0    0    0    0    0
## [3464,]    0    0    0    0    0    0    0    1    0    0
## [3465,]    0    1    0    0    0    0    0    0    0    0
## [3466,]    0    0    0    0    0    0    0    0    0    1
## [3467,]    0    0    0    1    0    0    0    0    0    0
## [3468,]    0    0    0    0    0    1    0    0    0    0
## [3469,]    0    1    0    0    0    0    0    0    0    0
## [3470,]    0    0    0    0    0    0    0    1    0    0
## [3471,]    0    0    1    0    0    0    0    0    0    0
## [3472,]    0    0    0    1    0    0    0    0    0    0
## [3473,]    0    0    0    1    0    0    0    0    0    0
## [3474,]    0    1    0    0    0    0    0    0    0    0
## [3475,]    0    0    0    0    0    0    1    0    0    0
## [3476,]    0    0    0    0    1    0    0    0    0    0
## [3477,]    0    0    0    0    0    0    0    0    1    0
## [3478,]    0    0    0    0    1    0    0    0    0    0
## [3479,]    0    1    0    0    0    0    0    0    0    0
## [3480,]    1    0    0    0    0    0    0    0    0    0
## [3481,]    0    0    0    0    0    0    0    0    1    0
## [3482,]    0    0    0    0    0    0    0    0    0    1
## [3483,]    0    0    0    0    0    0    0    0    1    0
## [3484,]    0    0    0    0    0    0    0    0    0    1
## [3485,]    0    0    0    0    1    0    0    0    0    0
## [3486,]    0    0    0    0    0    0    1    0    0    0
## [3487,]    0    0    1    0    0    0    0    0    0    0
## [3488,]    0    1    0    0    0    0    0    0    0    0
## [3489,]    0    1    0    0    0    0    0    0    0    0
## [3490,]    0    0    0    0    0    0    0    0    1    0
## [3491,]    1    0    0    0    0    0    0    0    0    0
## [3492,]    0    0    0    1    0    0    0    0    0    0
```

```
##  [3493,]    1    0    0    0    0    0    0    0    0    0
##  [3494,]    0    0    0    0    0    0    0    0    1    0
##  [3495,]    0    0    0    0    0    0    0    1    0    0
##  [3496,]    0    0    0    0    0    0    0    0    1    0
##  [3497,]    0    0    0    0    1    0    0    0    0    0
##  [3498,]    0    0    0    0    0    0    0    0    1    0
##  [3499,]    0    0    0    0    0    0    0    1    0    0
##  [3500,]    0    0    0    0    0    0    0    0    1    0
##  [3501,]    0    0    0    0    0    1    0    0    0    0
##  [3502,]    0    0    0    0    0    0    0    0    1    0
##  [3503,]    0    0    0    0    0    0    0    0    1    0
##  [3504,]    0    0    0    0    1    0    0    0    0    0
##  [3505,]    0    0    0    0    1    0    0    0    0    0
##  [3506,]    0    0    0    0    0    0    0    1    0    0
##  [3507,]    0    0    0    0    0    0    0    0    0    1
##  [3508,]    0    0    0    0    0    0    0    1    0    0
##  [3509,]    0    0    0    0    0    0    0    0    0    1
##  [3510,]    0    1    0    0    0    0    0    0    0    0
##  [3511,]    0    0    0    0    0    0    0    0    0    1
##  [3512,]    0    0    0    0    0    0    0    0    0    1
##  [3513,]    0    0    0    0    0    0    0    0    1    0
##  [3514,]    0    0    0    0    0    0    0    0    1    0
##  [3515,]    1    0    0    0    0    0    0    0    0    0
##  [3516,]    0    0    0    0    0    0    0    1    0    0
##  [3517,]    1    0    0    0    0    0    0    0    0    0
##  [3518,]    0    0    0    0    0    0    0    0    1    0
##  [3519,]    0    0    0    0    0    0    0    1    0    0
##  [3520,]    0    0    0    0    0    0    0    0    0    1
##  [3521,]    0    0    0    0    0    0    1    0    0    0
##  [3522,]    0    0    0    1    0    0    0    0    0    0
##  [3523,]    0    0    0    0    0    0    0    1    0    0
##  [3524,]    0    0    0    1    0    0    0    0    0    0
##  [3525,]    0    0    0    0    0    0    1    0    0    0
##  [3526,]    0    0    0    0    0    1    0    0    0    0
##  [3527,]    0    0    0    0    0    0    0    0    1    0
##  [3528,]    0    0    0    0    0    1    0    0    0    0
##  [3529,]    0    0    0    0    0    0    0    0    0    1
##  [3530,]    1    0    0    0    0    0    0    0    0    0
##  [3531,]    0    0    0    0    0    0    1    0    0    0
##  [3532,]    0    0    0    0    0    0    0    1    0    0
##  [3533,]    0    1    0    0    0    0    0    0    0    0
##  [3534,]    0    0    0    0    0    0    0    0    0    1
##  [3535,]    1    0    0    0    0    0    0    0    0    0
##  [3536,]    0    0    0    0    0    1    0    0    0    0
##  [3537,]    0    0    1    0    0    0    0    0    0    0
##  [3538,]    0    0    0    0    0    0    1    0    0    0
##  [3539,]    0    0    0    0    0    0    0    1    0    0
##  [3540,]    0    0    0    0    0    1    0    0    0    0
##  [3541,]    0    1    0    0    0    0    0    0    0    0
##  [3542,]    1    0    0    0    0    0    0    0    0    0
##  [3543,]    0    0    0    1    0    0    0    0    0    0
##  [3544,]    0    0    0    0    0    0    1    0    0    0
##  [3545,]    0    0    0    0    0    0    0    0    0    1
##  [3546,]    0    1    0    0    0    0    0    0    0    0
```

```
## [3547,]    0    1    0    0    0    0    0    0    0    0
## [3548,]    0    0    0    0    1    0    0    0    0    0
## [3549,]    0    0    0    0    1    0    0    0    0    0
## [3550,]    0    1    0    0    0    0    0    0    0    0
## [3551,]    0    0    0    1    0    0    0    0    0    0
## [3552,]    0    1    0    0    0    0    0    0    0    0
## [3553,]    0    0    0    1    0    0    0    0    0    0
## [3554,]    0    0    1    0    0    0    0    0    0    0
## [3555,]    0    0    0    0    0    0    0    0    1    0
## [3556,]    0    0    0    0    0    0    0    0    1    0
## [3557,]    0    0    0    0    0    0    0    1    0    0
## [3558,]    0    0    1    0    0    0    0    0    0    0
## [3559,]    0    0    0    0    0    1    0    0    0    0
## [3560,]    0    0    0    0    0    0    1    0    0    0
## [3561,]    0    1    0    0    0    0    0    0    0    0
## [3562,]    0    1    0    0    0    0    0    0    0    0
## [3563,]    1    0    0    0    0    0    0    0    0    0
## [3564,]    0    0    0    0    0    1    0    0    0    0
## [3565,]    0    0    1    0    0    0    0    0    0    0
## [3566,]    1    0    0    0    0    0    0    0    0    0
## [3567,]    0    0    0    0    0    0    0    0    0    1
## [3568,]    0    1    0    0    0    0    0    0    0    0
## [3569,]    1    0    0    0    0    0    0    0    0    0
## [3570,]    0    0    1    0    0    0    0    0    0    0
## [3571,]    0    0    0    0    0    0    0    0    1    0
## [3572,]    0    0    0    1    0    0    0    0    0    0
## [3573,]    0    0    0    0    0    0    1    0    0    0
## [3574,]    0    0    0    0    1    0    0    0    0    0
## [3575,]    0    0    1    0    0    0    0    0    0    0
## [3576,]    0    0    0    0    0    1    0    0    0    0
## [3577,]    0    0    0    1    0    0    0    0    0    0
## [3578,]    0    0    0    0    0    0    1    0    0    0
## [3579,]    0    0    1    0    0    0    0    0    0    0
## [3580,]    0    0    0    0    0    0    0    1    0    0
## [3581,]    0    0    0    0    0    1    0    0    0    0
## [3582,]    0    0    0    0    0    0    0    0    1    0
## [3583,]    0    0    1    0    0    0    0    0    0    0
## [3584,]    0    0    0    0    0    0    0    0    0    1
## [3585,]    0    0    0    0    0    0    0    0    1    0
## [3586,]    1    0    0    0    0    0    0    0    0    0
## [3587,]    0    0    0    0    0    0    1    0    0    0
## [3588,]    0    1    0    0    0    0    0    0    0    0
## [3589,]    0    0    0    0    0    0    0    0    0    1
## [3590,]    0    0    1    0    0    0    0    0    0    0
## [3591,]    1    0    0    0    0    0    0    0    0    0
## [3592,]    0    0    0    1    0    0    0    0    0    0
## [3593,]    0    1    0    0    0    0    0    0    0    0
## [3594,]    0    1    0    0    0    0    0    0    0    0
## [3595,]    0    0    0    0    0    0    0    0    0    1
## [3596,]    0    0    0    0    0    1    0    0    0    0
## [3597,]    0    0    0    1    0    0    0    0    0    0
## [3598,]    0    0    0    0    0    0    1    0    0    0
## [3599,]    0    0    0    0    0    0    0    0    0    1
## [3600,]    0    0    0    0    0    0    0    1    0    0
```

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```
## [3601,]    0    0    0    0    0    0    0    0    1    0
## [3602,]    0    0    0    0    0    0    0    0    1    0
## [3603,]    0    1    0    0    0    0    0    0    0    0
## [3604,]    1    0    0    0    0    0    0    0    0    0
## [3605,]    0    1    0    0    0    0    0    0    0    0
## [3606,]    0    1    0    0    0    0    0    0    0    0
## [3607,]    0    0    0    1    0    0    0    0    0    0
## [3608,]    0    0    1    0    0    0    0    0    0    0
## [3609,]    0    0    0    0    1    0    0    0    0    0
## [3610,]    0    0    0    1    0    0    0    0    0    0
## [3611,]    1    0    0    0    0    0    0    0    0    0
## [3612,]    0    0    0    0    1    0    0    0    0    0
## [3613,]    1    0    0    0    0    0    0    0    0    0
## [3614,]    0    0    0    0    0    1    0    0    0    0
## [3615,]    0    0    0    1    0    0    0    0    0    0
## [3616,]    0    0    0    0    0    0    1    0    0    0
## [3617,]    0    0    0    0    0    0    0    0    1    0
## [3618,]    0    0    0    0    0    0    0    1    0    0
## [3619,]    0    0    0    0    0    0    0    1    0    0
## [3620,]    0    0    0    0    0    0    0    0    1    0
## [3621,]    0    0    0    0    0    0    0    1    0    0
## [3622,]    0    0    0    0    0    0    0    0    0    1
## [3623,]    1    0    0    0    0    0    0    0    0    0
## [3624,]    0    0    0    0    0    0    1    0    0    0
## [3625,]    0    0    0    0    1    0    0    0    0    0
## [3626,]    0    0    0    0    1    0    0    0    0    0
## [3627,]    0    0    0    1    0    0    0    0    0    0
## [3628,]    0    0    1    0    0    0    0    0    0    0
## [3629,]    0    1    0    0    0    0    0    0    0    0
## [3630,]    0    0    0    0    0    0    1    0    0    0
## [3631,]    0    0    0    0    0    0    0    0    1    0
## [3632,]    0    0    0    0    1    0    0    0    0    0
## [3633,]    1    0    0    0    0    0    0    0    0    0
## [3634,]    0    0    0    0    0    0    0    1    0    0
## [3635,]    0    0    0    0    0    1    0    0    0    0
## [3636,]    0    0    0    0    0    1    0    0    0    0
## [3637,]    0    0    0    0    0    0    0    0    0    1
## [3638,]    0    0    0    0    0    1    0    0    0    0
## [3639,]    0    0    0    0    0    1    0    0    0    0
## [3640,]    0    0    0    0    1    0    0    0    0    0
## [3641,]    0    0    0    0    0    0    0    1    0    0
## [3642,]    0    0    0    0    0    0    0    1    0    0
## [3643,]    0    0    1    0    0    0    0    0    0    0
## [3644,]    0    0    0    0    0    0    0    0    1    0
## [3645,]    0    1    0    0    0    0    0    0    0    0
## [3646,]    0    0    0    0    0    0    0    0    0    1
## [3647,]    0    0    0    0    0    0    1    0    0    0
## [3648,]    0    0    1    0    0    0    0    0    0    0
## [3649,]    0    0    0    0    0    1    0    0    0    0
## [3650,]    0    0    0    0    0    0    0    0    0    1
## [3651,]    0    0    0    0    0    0    1    0    0    0
## [3652,]    0    0    0    1    0    0    0    0    0    0
## [3653,]    0    0    0    0    1    0    0    0    0    0
## [3654,]    0    0    0    0    0    0    0    0    0    1
```

```
## [3655,]    0    0    0    0    0    0    1    0    0    0
## [3656,]    0    0    0    1    0    0    0    0    0    0
## [3657,]    0    0    0    1    0    0    0    0    0    0
## [3658,]    0    0    0    0    0    0    0    0    1    0
## [3659,]    0    0    0    0    0    0    0    0    1    0
## [3660,]    0    0    1    0    0    0    0    0    0    0
## [3661,]    0    0    1    0    0    0    0    0    0    0
## [3662,]    1    0    0    0    0    0    0    0    0    0
## [3663,]    0    0    0    0    0    0    0    0    0    1
## [3664,]    0    0    0    0    0    0    0    0    0    1
## [3665,]    0    0    0    0    0    0    0    0    1    0
## [3666,]    0    0    0    0    0    0    0    0    1    0
## [3667,]    0    0    0    0    1    0    0    0    0    0
## [3668,]    1    0    0    0    0    0    0    0    0    0
## [3669,]    0    0    0    0    1    0    0    0    0    0
## [3670,]    0    0    0    0    0    1    0    0    0    0
## [3671,]    0    0    0    1    0    0    0    0    0    0
## [3672,]    0    0    0    0    0    0    1    0    0    0
## [3673,]    0    0    1    0    0    0    0    0    0    0
## [3674,]    1    0    0    0    0    0    0    0    0    0
## [3675,]    0    0    0    1    0    0    0    0    0    0
## [3676,]    0    1    0    0    0    0    0    0    0    0
## [3677,]    0    0    1    0    0    0    0    0    0    0
## [3678,]    1    0    0    0    0    0    0    0    0    0
## [3679,]    0    0    0    0    0    0    0    0    0    1
## [3680,]    0    0    1    0    0    0    0    0    0    0
## [3681,]    0    0    1    0    0    0    0    0    0    0
## [3682,]    0    0    0    0    0    1    0    0    0    0
## [3683,]    0    0    0    0    0    1    0    0    0    0
## [3684,]    0    0    0    1    0    0    0    0    0    0
## [3685,]    0    0    0    1    0    0    0    0    0    0
## [3686,]    0    0    0    0    0    1    0    0    0    0
## [3687,]    0    0    0    0    1    0    0    0    0    0
## [3688,]    0    0    0    1    0    0    0    0    0    0
## [3689,]    0    0    0    0    0    0    0    0    1    0
## [3690,]    0    0    0    0    0    0    0    0    1    0
## [3691,]    0    0    0    0    0    0    0    0    1    0
## [3692,]    1    0    0    0    0    0    0    0    0    0
## [3693,]    0    0    0    0    0    0    0    1    0    0
## [3694,]    1    0    0    0    0    0    0    0    0    0
## [3695,]    0    0    0    0    1    0    0    0    0    0
## [3696,]    0    0    0    0    0    1    0    0    0    0
## [3697,]    0    0    0    0    0    0    0    0    0    1
## [3698,]    0    0    0    0    1    0    0    0    0    0
## [3699,]    1    0    0    0    0    0    0    0    0    0
## [3700,]    0    0    0    1    0    0    0    0    0    0
## [3701,]    0    0    0    0    0    0    1    0    0    0
## [3702,]    0    0    0    0    1    0    0    0    0    0
## [3703,]    1    0    0    0    0    0    0    0    0    0
## [3704,]    0    1    0    0    0    0    0    0    0    0
## [3705,]    0    0    0    0    0    0    0    0    0    1
## [3706,]    0    0    0    0    0    1    0    0    0    0
## [3707,]    0    0    0    0    0    0    1    0    0    0
## [3708,]    0    0    0    1    0    0    0    0    0    0
```

```
## [3709,]    0    0    0    0    1    0    0    0    0    0
## [3710,]    1    0    0    0    0    0    0    0    0    0
## [3711,]    0    0    1    0    0    0    0    0    0    0
## [3712,]    0    0    0    0    0    0    0    0    1    0
## [3713,]    0    0    1    0    0    0    0    0    0    0
## [3714,]    0    0    0    1    0    0    0    0    0    0
## [3715,]    0    1    0    0    0    0    0    0    0    0
## [3716,]    1    0    0    0    0    0    0    0    0    0
## [3717,]    0    0    0    0    1    0    0    0    0    0
## [3718,]    0    0    0    0    0    0    1    0    0    0
## [3719,]    0    0    0    0    0    0    0    1    0    0
## [3720,]    0    0    1    0    0    0    0    0    0    0
## [3721,]    1    0    0    0    0    0    0    0    0    0
## [3722,]    0    0    0    0    0    0    0    1    0    0
## [3723,]    0    0    1    0    0    0    0    0    0    0
## [3724,]    0    1    0    0    0    0    0    0    0    0
## [3725,]    0    0    0    0    1    0    0    0    0    0
## [3726,]    0    1    0    0    0    0    0    0    0    0
## [3727,]    0    0    0    0    0    0    1    0    0    0
## [3728,]    0    0    0    0    0    0    0    0    1    0
## [3729,]    0    0    0    0    0    0    0    1    0    0
## [3730,]    0    1    0    0    0    0    0    0    0    0
## [3731,]    0    0    0    0    0    0    0    0    1    0
## [3732,]    0    0    0    0    0    0    0    1    0    0
## [3733,]    0    0    0    0    1    0    0    0    0    0
## [3734,]    0    1    0    0    0    0    0    0    0    0
## [3735,]    1    0    0    0    0    0    0    0    0    0
## [3736,]    0    0    0    1    0    0    0    0    0    0
## [3737,]    0    0    0    0    0    0    1    0    0    0
## [3738,]    0    0    0    0    0    0    0    0    1    0
## [3739,]    0    0    0    0    1    0    0    0    0    0
## [3740,]    0    0    0    0    1    0    0    0    0    0
## [3741,]    0    0    0    1    0    0    0    0    0    0
## [3742,]    0    0    1    0    0    0    0    0    0    0
## [3743,]    0    0    0    0    0    0    0    0    0    1
## [3744,]    1    0    0    0    0    0    0    0    0    0
## [3745,]    0    0    0    0    0    0    0    0    1    0
## [3746,]    0    0    0    0    0    0    0    0    0    1
## [3747,]    0    0    0    0    0    0    0    0    0    1
## [3748,]    0    0    0    0    0    0    0    1    0    0
## [3749,]    0    0    1    0    0    0    0    0    0    0
## [3750,]    0    0    0    0    0    0    1    0    0    0
## [3751,]    0    0    0    0    0    0    0    1    0    0
## [3752,]    0    0    0    0    0    0    0    1    0    0
## [3753,]    0    0    0    0    0    1    0    0    0    0
## [3754,]    0    0    0    0    1    0    0    0    0    0
## [3755,]    0    0    0    1    0    0    0    0    0    0
## [3756,]    0    1    0    0    0    0    0    0    0    0
## [3757,]    0    0    0    1    0    0    0    0    0    0
## [3758,]    0    0    0    0    0    0    1    0    0    0
## [3759,]    0    1    0    0    0    0    0    0    0    0
## [3760,]    0    0    0    0    0    0    0    0    1    0
## [3761,]    0    0    0    0    0    0    0    0    0    1
## [3762,]    0    0    0    0    1    0    0    0    0    0
```

```
## [3763,]    0    0    0    0    0    0    0    0    1    0
## [3764,]    0    1    0    0    0    0    0    0    0    0
## [3765,]    0    0    0    0    0    0    1    0    0    0
## [3766,]    0    0    1    0    0    0    0    0    0    0
## [3767,]    0    0    0    0    0    0    0    0    1    0
## [3768,]    0    0    0    0    0    0    1    0    0    0
## [3769,]    0    0    0    0    0    1    0    0    0    0
## [3770,]    0    0    0    0    0    0    0    1    0    0
## [3771,]    0    0    0    0    0    0    0    0    0    1
## [3772,]    0    1    0    0    0    0    0    0    0    0
## [3773,]    0    0    0    0    0    0    1    0    0    0
## [3774,]    0    0    0    0    0    0    0    0    0    1
## [3775,]    0    0    0    0    0    0    1    0    0    0
## [3776,]    0    0    0    0    0    0    0    0    1    0
## [3777,]    1    0    0    0    0    0    0    0    0    0
## [3778,]    1    0    0    0    0    0    0    0    0    0
## [3779,]    1    0    0    0    0    0    0    0    0    0
## [3780,]    0    0    0    0    0    0    1    0    0    0
## [3781,]    0    0    0    0    0    0    0    1    0    0
## [3782,]    0    0    0    0    0    0    0    0    0    1
## [3783,]    0    0    0    0    0    0    0    1    0    0
## [3784,]    0    0    0    0    1    0    0    0    0    0
## [3785,]    0    0    0    0    0    0    0    0    0    1
## [3786,]    0    0    0    0    0    0    0    0    0    1
## [3787,]    0    0    0    0    0    0    0    0    0    1
## [3788,]    0    0    0    0    0    0    0    0    0    1
## [3789,]    0    0    0    0    0    0    0    1    0    0
## [3790,]    0    0    0    0    0    0    1    0    0    0
## [3791,]    0    0    0    0    0    0    0    1    0    0
## [3792,]    0    0    1    0    0    0    0    0    0    0
## [3793,]    0    0    0    0    0    0    0    0    1    0
## [3794,]    0    0    0    1    0    0    0    0    0    0
## [3795,]    0    0    0    0    0    0    1    0    0    0
## [3796,]    0    0    0    0    0    0    0    1    0    0
## [3797,]    0    0    0    0    0    0    0    0    0    1
## [3798,]    0    1    0    0    0    0    0    0    0    0
## [3799,]    0    0    0    0    0    0    0    1    0    0
## [3800,]    0    0    1    0    0    0    0    0    0    0
## [3801,]    0    1    0    0    0    0    0    0    0    0
## [3802,]    0    0    0    0    0    1    0    0    0    0
## [3803,]    0    1    0    0    0    0    0    0    0    0
## [3804,]    0    0    0    1    0    0    0    0    0    0
## [3805,]    0    0    0    0    0    0    0    1    0    0
## [3806,]    0    0    0    0    0    0    0    1    0    0
## [3807,]    1    0    0    0    0    0    0    0    0    0
## [3808,]    0    0    0    0    0    0    0    0    1    0
## [3809,]    0    0    0    0    0    0    1    0    0    0
## [3810,]    1    0    0    0    0    0    0    0    0    0
## [3811,]    0    0    0    1    0    0    0    0    0    0
## [3812,]    0    1    0    0    0    0    0    0    0    0
## [3813,]    0    0    0    1    0    0    0    0    0    0
## [3814,]    0    0    1    0    0    0    0    0    0    0
## [3815,]    0    0    0    0    0    0    1    0    0    0
## [3816,]    0    0    0    1    0    0    0    0    0    0
```

```
## [3817,]     0     0     0     0     0     0     0     0     1     0
## [3818,]     0     0     0     0     1     0     0     0     0     0
## [3819,]     0     0     0     0     0     0     0     0     0     1
## [3820,]     0     0     0     0     0     1     0     0     0     0
## [3821,]     0     0     0     0     0     0     1     0     0     0
## [3822,]     0     0     0     0     0     0     1     0     0     0
## [3823,]     0     1     0     0     0     0     0     0     0     0
## [3824,]     0     0     0     0     0     0     0     1     0     0
## [3825,]     0     0     0     1     0     0     0     0     0     0
## [3826,]     0     0     0     0     0     0     0     0     1     0
## [3827,]     0     0     1     0     0     0     0     0     0     0
## [3828,]     0     0     0     0     0     0     0     0     0     1
## [3829,]     0     0     0     0     1     0     0     0     0     0
## [3830,]     1     0     0     0     0     0     0     0     0     0
## [3831,]     0     0     1     0     0     0     0     0     0     0
## [3832,]     0     1     0     0     0     0     0     0     0     0
## [3833,]     0     0     0     0     0     1     0     0     0     0
## [3834,]     0     0     1     0     0     0     0     0     0     0
## [3835,]     0     0     0     0     0     0     0     0     0     1
## [3836,]     0     0     0     1     0     0     0     0     0     0
## [3837,]     0     0     1     0     0     0     0     0     0     0
## [3838,]     0     0     0     0     1     0     0     0     0     0
## [3839,]     0     0     0     0     1     0     0     0     0     0
## [3840,]     0     0     0     0     0     1     0     0     0     0
## [3841,]     0     0     0     0     0     0     0     1     0     0
## [3842,]     0     0     0     0     0     0     1     0     0     0
## [3843,]     0     0     0     0     0     0     0     0     1     0
## [3844,]     0     0     0     0     0     0     0     1     0     0
## [3845,]     0     0     0     1     0     0     0     0     0     0
## [3846,]     0     0     0     0     0     0     0     0     1     0
## [3847,]     0     0     0     0     0     0     0     1     0     0
## [3848,]     0     0     0     0     0     0     0     0     0     1
## [3849,]     0     0     1     0     0     0     0     0     0     0
## [3850,]     1     0     0     0     0     0     0     0     0     0
## [3851,]     0     1     0     0     0     0     0     0     0     0
## [3852,]     0     1     0     0     0     0     0     0     0     0
## [3853,]     0     0     0     0     0     0     0     0     0     1
## [3854,]     0     0     1     0     0     0     0     0     0     0
## [3855,]     0     0     0     0     0     0     0     1     0     0
## [3856,]     0     0     0     1     0     0     0     0     0     0
## [3857,]     0     0     0     0     0     0     1     0     0     0
## [3858,]     0     0     0     0     1     0     0     0     0     0
## [3859,]     0     0     0     0     0     0     1     0     0     0
## [3860,]     0     0     0     0     0     1     0     0     0     0
## [3861,]     0     0     0     0     0     1     0     0     0     0
## [3862,]     0     0     0     0     0     0     1     0     0     0
## [3863,]     0     0     0     0     1     0     0     0     0     0
## [3864,]     0     0     0     0     0     0     0     1     0     0
## [3865,]     0     0     0     0     0     1     0     0     0     0
## [3866,]     0     0     0     0     0     0     0     0     1     0
## [3867,]     0     0     0     0     0     0     0     0     1     0
## [3868,]     0     0     0     0     0     0     0     0     0     1
## [3869,]     0     0     0     0     0     0     0     1     0     0
## [3870,]     0     0     0     0     0     0     1     0     0     0
```

```
## [3871,]    0    0    0    0    0    1    0    0    0    0
## [3872,]    0    0    1    0    0    0    0    0    0    0
## [3873,]    0    0    0    0    0    0    0    0    1    0
## [3874,]    0    0    0    0    0    0    1    0    0    0
## [3875,]    0    0    0    0    0    0    0    0    0    1
## [3876,]    0    0    0    0    0    1    0    0    0    0
## [3877,]    1    0    0    0    0    0    0    0    0    0
## [3878,]    0    0    0    0    1    0    0    0    0    0
## [3879,]    0    1    0    0    0    0    0    0    0    0
## [3880,]    0    0    1    0    0    0    0    0    0    0
## [3881,]    0    0    1    0    0    0    0    0    0    0
## [3882,]    1    0    0    0    0    0    0    0    0    0
## [3883,]    1    0    0    0    0    0    0    0    0    0
## [3884,]    0    0    0    0    0    0    0    0    1    0
## [3885,]    1    0    0    0    0    0    0    0    0    0
## [3886,]    0    1    0    0    0    0    0    0    0    0
## [3887,]    0    0    1    0    0    0    0    0    0    0
## [3888,]    0    0    0    0    0    0    0    1    0    0
## [3889,]    1    0    0    0    0    0    0    0    0    0
## [3890,]    0    1    0    0    0    0    0    0    0    0
## [3891,]    0    0    1    0    0    0    0    0    0    0
## [3892,]    0    0    0    0    0    0    0    0    1    0
## [3893,]    0    0    0    0    0    0    0    0    1    0
## [3894,]    0    0    0    1    0    0    0    0    0    0
## [3895,]    0    0    0    0    0    0    0    1    0    0
## [3896,]    0    0    0    0    0    0    0    1    0    0
## [3897,]    1    0    0    0    0    0    0    0    0    0
## [3898,]    0    1    0    0    0    0    0    0    0    0
## [3899,]    0    1    0    0    0    0    0    0    0    0
## [3900,]    0    0    0    0    0    0    0    1    0    0
## [3901,]    0    1    0    0    0    0    0    0    0    0
## [3902,]    0    1    0    0    0    0    0    0    0    0
## [3903,]    0    0    1    0    0    0    0    0    0    0
## [3904,]    0    0    0    0    1    0    0    0    0    0
## [3905,]    0    0    0    0    0    0    0    0    0    1
## [3906,]    0    0    0    0    1    0    0    0    0    0
## [3907,]    1    0    0    0    0    0    0    0    0    0
## [3908,]    0    0    0    0    0    1    0    0    0    0
## [3909,]    0    0    0    0    0    0    1    0    0    0
## [3910,]    0    0    0    0    0    0    0    1    0    0
## [3911,]    0    0    0    0    0    0    1    0    0    0
## [3912,]    0    0    0    0    1    0    0    0    0    0
## [3913,]    0    0    0    0    0    0    0    0    0    1
## [3914,]    0    0    0    0    0    0    0    0    0    1
## [3915,]    0    0    0    0    0    0    0    1    0    0
## [3916,]    0    0    0    0    0    0    0    1    0    0
## [3917,]    0    0    0    0    0    0    0    1    0    0
## [3918,]    0    0    1    0    0    0    0    0    0    0
## [3919,]    0    0    0    0    0    0    0    0    1    0
## [3920,]    0    0    0    0    0    0    1    0    0    0
## [3921,]    0    0    0    1    0    0    0    0    0    0
## [3922,]    0    0    0    0    0    1    0    0    0    0
## [3923,]    0    0    0    0    0    1    0    0    0    0
## [3924,]    0    0    0    1    0    0    0    0    0    0
```

```
## [3925,]    0    0    1    0    0    0    0    0    0    0
## [3926,]    0    0    0    0    0    0    0    0    0    1
## [3927,]    0    1    0    0    0    0    0    0    0    0
## [3928,]    0    0    0    0    0    0    0    0    0    1
## [3929,]    0    0    0    0    0    0    0    0    1    0
## [3930,]    1    0    0    0    0    0    0    0    0    0
## [3931,]    0    0    1    0    0    0    0    0    0    0
## [3932,]    0    0    0    0    0    0    0    0    1    0
## [3933,]    0    0    0    0    0    0    1    0    0    0
## [3934,]    0    0    0    0    0    0    0    1    0    0
## [3935,]    0    0    1    0    0    0    0    0    0    0
## [3936,]    0    0    0    0    0    0    0    0    0    1
## [3937,]    0    0    0    0    0    0    1    0    0    0
## [3938,]    1    0    0    0    0    0    0    0    0    0
## [3939,]    0    0    0    1    0    0    0    0    0    0
## [3940,]    0    0    0    0    0    0    1    0    0    0
## [3941,]    0    0    0    0    0    0    0    1    0    0
## [3942,]    0    0    0    1    0    0    0    0    0    0
## [3943,]    0    0    0    0    0    0    0    1    0    0
## [3944,]    1    0    0    0    0    0    0    0    0    0
## [3945,]    0    0    0    0    0    1    0    0    0    0
## [3946,]    0    0    0    0    1    0    0    0    0    0
## [3947,]    0    0    0    0    1    0    0    0    0    0
## [3948,]    0    0    0    0    0    0    1    0    0    0
## [3949,]    0    0    0    0    0    0    0    1    0    0
## [3950,]    0    0    0    1    0    0    0    0    0    0
## [3951,]    0    0    0    0    0    0    1    0    0    0
## [3952,]    0    0    0    0    0    0    0    1    0    0
## [3953,]    0    0    0    0    0    0    1    0    0    0
## [3954,]    1    0    0    0    0    0    0    0    0    0
## [3955,]    0    1    0    0    0    0    0    0    0    0
## [3956,]    0    1    0    0    0    0    0    0    0    0
## [3957,]    0    1    0    0    0    0    0    0    0    0
## [3958,]    0    0    0    0    1    0    0    0    0    0
## [3959,]    0    0    0    0    0    0    0    0    1    0
## [3960,]    0    0    0    0    0    0    0    0    1    0
## [3961,]    0    0    0    0    0    0    1    0    0    0
## [3962,]    0    0    0    0    0    0    0    0    1    0
## [3963,]    0    1    0    0    0    0    0    0    0    0
## [3964,]    0    1    0    0    0    0    0    0    0    0
## [3965,]    1    0    0    0    0    0    0    0    0    0
## [3966,]    0    0    1    0    0    0    0    0    0    0
## [3967,]    0    1    0    0    0    0    0    0    0    0
## [3968,]    0    0    0    0    0    0    0    0    0    1
## [3969,]    0    0    0    0    0    0    0    0    1    0
## [3970,]    0    0    0    1    0    0    0    0    0    0
## [3971,]    0    0    0    0    0    0    0    0    0    1
## [3972,]    0    1    0    0    0    0    0    0    0    0
## [3973,]    0    0    0    0    0    1    0    0    0    0
## [3974,]    0    0    0    0    1    0    0    0    0    0
## [3975,]    0    0    0    0    0    1    0    0    0    0
## [3976,]    0    0    1    0    0    0    0    0    0    0
## [3977,]    0    0    0    0    0    0    0    0    1    0
## [3978,]    0    0    0    0    0    0    0    0    0    1
```

```
##  [3979,]    0    0    0    0    1    0    0    0    0    0
##  [3980,]    0    0    0    0    0    0    0    0    1    0
##  [3981,]    0    0    1    0    0    0    0    0    0    0
##  [3982,]    0    0    1    0    0    0    0    0    0    0
##  [3983,]    0    0    0    0    0    0    0    0    0    1
##  [3984,]    0    0    0    0    0    0    0    0    1    0
##  [3985,]    0    0    0    0    1    0    0    0    0    0
##  [3986,]    0    0    0    0    0    0    1    0    0    0
##  [3987,]    0    0    0    0    0    0    0    0    1    0
##  [3988,]    0    0    0    0    0    0    0    0    0    1
##  [3989,]    0    0    0    0    0    1    0    0    0    0
##  [3990,]    0    0    1    0    0    0    0    0    0    0
##  [3991,]    0    0    0    0    1    0    0    0    0    0
##  [3992,]    0    0    0    0    0    0    0    0    0    1
##  [3993,]    0    0    0    0    0    0    0    1    0    0
##  [3994,]    0    0    0    0    0    0    1    0    0    0
##  [3995,]    0    0    0    0    0    0    1    0    0    0
##  [3996,]    0    0    0    1    0    0    0    0    0    0
##  [3997,]    0    1    0    0    0    0    0    0    0    0
##  [3998,]    0    0    0    1    0    0    0    0    0    0
##  [3999,]    0    0    0    0    0    0    0    0    0    1
##  [4000,]    0    0    0    0    0    0    1    0    0    0
##  [4001,]    0    0    0    0    0    0    0    1    0    0
##  [4002,]    0    0    0    1    0    0    0    0    0    0
##  [4003,]    1    0    0    0    0    0    0    0    0    0
##  [4004,]    0    1    0    0    0    0    0    0    0    0
##  [4005,]    0    0    0    0    0    1    0    0    0    0
##  [4006,]    0    0    1    0    0    0    0    0    0    0
##  [4007,]    0    0    0    0    0    0    0    0    1    0
##  [4008,]    0    0    0    0    0    1    0    0    0    0
##  [4009,]    1    0    0    0    0    0    0    0    0    0
##  [4010,]    1    0    0    0    0    0    0    0    0    0
##  [4011,]    0    1    0    0    0    0    0    0    0    0
##  [4012,]    0    0    0    1    0    0    0    0    0    0
##  [4013,]    0    1    0    0    0    0    0    0    0    0
##  [4014,]    0    1    0    0    0    0    0    0    0    0
##  [4015,]    0    1    0    0    0    0    0    0    0    0
##  [4016,]    0    0    0    0    0    1    0    0    0    0
##  [4017,]    0    0    1    0    0    0    0    0    0    0
##  [4018,]    0    0    0    0    0    1    0    0    0    0
##  [4019,]    0    0    0    0    0    0    1    0    0    0
##  [4020,]    0    0    0    0    0    0    0    0    0    1
##  [4021,]    0    0    0    0    0    0    0    1    0    0
##  [4022,]    0    0    0    0    0    0    0    0    1    0
##  [4023,]    0    0    0    1    0    0    0    0    0    0
##  [4024,]    1    0    0    0    0    0    0    0    0    0
##  [4025,]    0    0    0    0    0    0    0    1    0    0
##  [4026,]    0    0    0    0    0    0    0    0    0    1
##  [4027,]    0    0    0    0    0    0    0    0    0    1
##  [4028,]    1    0    0    0    0    0    0    0    0    0
##  [4029,]    0    0    1    0    0    0    0    0    0    0
##  [4030,]    0    1    0    0    0    0    0    0    0    0
##  [4031,]    0    0    0    0    0    0    1    0    0    0
##  [4032,]    0    0    1    0    0    0    0    0    0    0
```

```
## [4033,]    0    0    0    0    0    0    0    0    0    1
## [4034,]    0    0    0    1    0    0    0    0    0    0
## [4035,]    0    0    0    0    0    0    0    1    0    0
## [4036,]    0    0    0    0    1    0    0    0    0    0
## [4037,]    0    0    0    0    0    0    0    0    1    0
## [4038,]    0    0    0    0    0    1    0    0    0    0
## [4039,]    0    0    0    0    1    0    0    0    0    0
## [4040,]    0    0    0    0    0    0    1    0    0    0
## [4041,]    0    0    0    0    0    0    0    0    1    0
## [4042,]    0    0    0    0    0    0    0    1    0    0
## [4043,]    0    0    0    0    0    0    0    1    0    0
## [4044,]    0    0    0    0    0    0    0    0    1    0
## [4045,]    1    0    0    0    0    0    0    0    0    0
## [4046,]    0    0    0    0    0    0    0    0    0    1
## [4047,]    0    0    0    0    0    0    0    1    0    0
## [4048,]    1    0    0    0    0    0    0    0    0    0
## [4049,]    0    0    0    0    0    1    0    0    0    0
## [4050,]    0    1    0    0    0    0    0    0    0    0
## [4051,]    0    0    0    0    0    0    0    0    0    1
## [4052,]    0    0    1    0    0    0    0    0    0    0
## [4053,]    0    0    0    0    0    0    0    0    1    0
## [4054,]    0    0    0    1    0    0    0    0    0    0
## [4055,]    0    0    0    0    0    0    1    0    0    0
## [4056,]    0    0    0    0    1    0    0    0    0    0
## [4057,]    0    0    0    0    0    0    0    0    0    1
## [4058,]    0    0    0    0    0    1    0    0    0    0
## [4059,]    0    0    0    0    0    0    0    0    1    0
## [4060,]    0    0    0    0    0    0    1    0    0    0
## [4061,]    0    0    0    0    0    0    0    0    0    1
## [4062,]    0    0    0    0    0    0    0    1    0    0
## [4063,]    0    0    0    0    0    1    0    0    0    0
## [4064,]    0    0    0    0    0    0    0    0    1    0
## [4065,]    0    1    0    0    0    0    0    0    0    0
## [4066,]    0    0    0    0    0    0    0    0    0    1
## [4067,]    0    1    0    0    0    0    0    0    0    0
## [4068,]    1    0    0    0    0    0    0    0    0    0
## [4069,]    0    0    0    1    0    0    0    0    0    0
## [4070,]    0    1    0    0    0    0    0    0    0    0
## [4071,]    0    1    0    0    0    0    0    0    0    0
## [4072,]    0    0    1    0    0    0    0    0    0    0
## [4073,]    0    0    0    0    0    0    1    0    0    0
## [4074,]    0    0    0    1    0    0    0    0    0    0
## [4075,]    0    0    0    0    0    0    0    1    0    0
## [4076,]    0    0    0    0    1    0    0    0    0    0
## [4077,]    0    0    0    0    0    1    0    0    0    0
## [4078,]    0    0    0    0    0    1    0    0    0    0
## [4079,]    0    0    0    0    0    0    1    0    0    0
## [4080,]    0    0    0    0    0    0    1    0    0    0
## [4081,]    0    0    1    0    0    0    0    0    0    0
## [4082,]    0    0    0    0    0    0    0    1    0    0
## [4083,]    1    0    0    0    0    0    0    0    0    0
## [4084,]    0    0    0    0    0    0    0    0    1    0
## [4085,]    0    0    0    0    0    0    0    0    1    0
## [4086,]    0    0    0    0    0    0    0    0    0    1
```

```
## [4087,]    0    0    1    0    0    0    0    0    0    0
## [4088,]    0    0    0    0    0    0    1    0    0    0
## [4089,]    0    0    0    0    1    0    0    0    0    0
## [4090,]    0    1    0    0    0    0    0    0    0    0
## [4091,]    0    0    0    0    0    0    1    0    0    0
## [4092,]    0    0    0    0    0    0    0    0    0    1
## [4093,]    0    0    0    0    0    0    0    0    0    1
## [4094,]    0    0    0    0    0    0    0    0    0    1
## [4095,]    0    0    0    1    0    0    0    0    0    0
## [4096,]    0    0    0    0    0    0    0    0    0    1
## [4097,]    0    0    1    0    0    0    0    0    0    0
## [4098,]    0    0    0    0    1    0    0    0    0    0
## [4099,]    0    0    0    0    0    0    0    0    0    1
## [4100,]    0    0    0    0    1    0    0    0    0    0
## [4101,]    0    0    0    0    0    0    0    0    1    0
## [4102,]    0    0    0    1    0    0    0    0    0    0
## [4103,]    0    0    0    0    1    0    0    0    0    0
## [4104,]    0    0    0    0    0    0    0    0    1    0
## [4105,]    0    0    0    0    0    1    0    0    0    0
## [4106,]    0    1    0    0    0    0    0    0    0    0
## [4107,]    1    0    0    0    0    0    0    0    0    0
## [4108,]    0    0    0    0    1    0    0    0    0    0
## [4109,]    1    0    0    0    0    0    0    0    0    0
## [4110,]    0    1    0    0    0    0    0    0    0    0
## [4111,]    0    0    0    0    0    0    1    0    0    0
## [4112,]    0    0    1    0    0    0    0    0    0    0
## [4113,]    0    0    0    0    0    0    1    0    0    0
## [4114,]    0    0    0    0    0    1    0    0    0    0
## [4115,]    0    0    0    0    1    0    0    0    0    0
## [4116,]    1    0    0    0    0    0    0    0    0    0
## [4117,]    0    0    0    0    0    0    0    1    0    0
## [4118,]    0    0    0    0    0    0    0    0    0    1
## [4119,]    0    0    0    0    0    0    0    0    0    1
## [4120,]    0    0    0    0    0    1    0    0    0    0
## [4121,]    0    1    0    0    0    0    0    0    0    0
## [4122,]    0    0    0    1    0    0    0    0    0    0
## [4123,]    0    0    0    0    0    0    0    0    0    1
## [4124,]    1    0    0    0    0    0    0    0    0    0
## [4125,]    0    0    0    0    0    0    0    0    0    1
## [4126,]    0    0    0    0    1    0    0    0    0    0
## [4127,]    0    0    0    0    0    1    0    0    0    0
## [4128,]    0    0    0    0    0    0    0    0    0    1
## [4129,]    0    1    0    0    0    0    0    0    0    0
## [4130,]    0    1    0    0    0    0    0    0    0    0
## [4131,]    0    0    0    0    0    0    0    1    0    0
## [4132,]    0    0    0    0    0    0    0    1    0    0
## [4133,]    0    0    0    0    1    0    0    0    0    0
## [4134,]    0    0    0    0    1    0    0    0    0    0
## [4135,]    0    0    0    0    0    1    0    0    0    0
## [4136,]    0    0    0    0    1    0    0    0    0    0
## [4137,]    0    0    0    1    0    0    0    0    0    0
## [4138,]    0    1    0    0    0    0    0    0    0    0
## [4139,]    0    0    0    1    0    0    0    0    0    0
## [4140,]    0    0    0    0    0    0    0    0    1    0
```

```
## [4141,]    0    1    0    0    0    0    0    0    0    0
## [4142,]    0    0    0    0    0    0    0    1    0    0
## [4143,]    1    0    0    0    0    0    0    0    0    0
## [4144,]    0    0    0    0    0    0    1    0    0    0
## [4145,]    0    0    1    0    0    0    0    0    0    0
## [4146,]    1    0    0    0    0    0    0    0    0    0
## [4147,]    0    0    0    0    1    0    0    0    0    0
## [4148,]    0    0    0    0    0    0    0    0    1    0
## [4149,]    0    0    0    0    0    0    0    0    1    0
## [4150,]    0    1    0    0    0    0    0    0    0    0
## [4151,]    0    0    0    0    0    0    1    0    0    0
## [4152,]    0    0    0    0    0    0    0    0    1    0
## [4153,]    0    1    0    0    0    0    0    0    0    0
## [4154,]    0    0    1    0    0    0    0    0    0    0
## [4155,]    0    0    0    1    0    0    0    0    0    0
## [4156,]    0    0    0    0    0    0    1    0    0    0
## [4157,]    0    0    0    1    0    0    0    0    0    0
## [4158,]    0    0    1    0    0    0    0    0    0    0
## [4159,]    0    0    0    0    0    0    0    0    0    1
## [4160,]    1    0    0    0    0    0    0    0    0    0
## [4161,]    0    1    0    0    0    0    0    0    0    0
## [4162,]    0    0    0    0    0    0    0    0    0    1
## [4163,]    0    1    0    0    0    0    0    0    0    0
## [4164,]    0    1    0    0    0    0    0    0    0    0
## [4165,]    0    0    0    0    0    0    0    1    0    0
## [4166,]    0    0    1    0    0    0    0    0    0    0
## [4167,]    0    1    0    0    0    0    0    0    0    0
## [4168,]    0    0    0    0    0    1    0    0    0    0
## [4169,]    0    0    0    0    0    1    0    0    0    0
## [4170,]    0    0    0    0    1    0    0    0    0    0
## [4171,]    0    0    0    0    0    0    1    0    0    0
## [4172,]    0    0    0    0    0    1    0    0    0    0
## [4173,]    0    0    0    0    1    0    0    0    0    0
## [4174,]    0    0    0    0    0    0    0    1    0    0
## [4175,]    0    0    0    0    1    0    0    0    0    0
## [4176,]    0    0    0    0    0    0    0    1    0    0
## [4177,]    0    0    0    0    0    0    0    0    1    0
## [4178,]    0    0    0    0    0    1    0    0    0    0
## [4179,]    0    0    0    0    1    0    0    0    0    0
## [4180,]    0    0    0    1    0    0    0    0    0    0
## [4181,]    0    0    0    0    1    0    0    0    0    0
## [4182,]    1    0    0    0    0    0    0    0    0    0
## [4183,]    0    0    1    0    0    0    0    0    0    0
## [4184,]    0    0    1    0    0    0    0    0    0    0
## [4185,]    0    0    0    0    0    1    0    0    0    0
## [4186,]    0    0    1    0    0    0    0    0    0    0
## [4187,]    0    1    0    0    0    0    0    0    0    0
## [4188,]    0    0    1    0    0    0    0    0    0    0
## [4189,]    0    0    0    0    0    0    1    0    0    0
## [4190,]    0    0    0    0    0    0    0    1    0    0
## [4191,]    0    1    0    0    0    0    0    0    0    0
## [4192,]    0    0    0    1    0    0    0    0    0    0
## [4193,]    0    0    0    0    0    1    0    0    0    0
## [4194,]    0    1    0    0    0    0    0    0    0    0
```

```
## [4195,]    0    0    0    0    0    1    0    0    0    0
## [4196,]    0    0    0    0    1    0    0    0    0    0
## [4197,]    0    0    0    1    0    0    0    0    0    0
## [4198,]    0    0    0    0    1    0    0    0    0    0
## [4199,]    0    0    0    0    0    0    1    0    0    0
## [4200,]    0    0    0    1    0    0    0    0    0    0
## [4201,]    0    0    0    0    0    0    0    1    0    0
## [4202,]    1    0    0    0    0    0    0    0    0    0
## [4203,]    0    1    0    0    0    0    0    0    0    0
## [4204,]    1    0    0    0    0    0    0    0    0    0
## [4205,]    0    0    1    0    0    0    0    0    0    0
## [4206,]    0    0    0    0    1    0    0    0    0    0
## [4207,]    0    0    0    0    0    0    0    0    0    1
## [4208,]    0    0    0    0    0    0    0    1    0    0
## [4209,]    0    0    1    0    0    0    0    0    0    0
## [4210,]    0    0    0    0    0    0    0    0    0    1
## [4211,]    0    0    0    0    0    0    1    0    0    0
## [4212,]    0    0    0    0    0    0    0    1    0    0
## [4213,]    0    0    1    0    0    0    0    0    0    0
## [4214,]    0    0    0    0    0    0    0    0    1    0
## [4215,]    0    0    0    0    0    0    1    0    0    0
## [4216,]    0    0    0    0    0    0    0    0    1    0
## [4217,]    1    0    0    0    0    0    0    0    0    0
## [4218,]    0    0    0    0    0    0    0    1    0    0
## [4219,]    1    0    0    0    0    0    0    0    0    0
## [4220,]    0    0    0    0    0    0    0    0    0    1
## [4221,]    1    0    0    0    0    0    0    0    0    0
## [4222,]    0    0    0    0    0    0    1    0    0    0
## [4223,]    0    0    0    0    0    0    0    0    0    1
## [4224,]    0    0    0    1    0    0    0    0    0    0
## [4225,]    0    0    0    0    1    0    0    0    0    0
## [4226,]    0    1    0    0    0    0    0    0    0    0
## [4227,]    0    0    0    0    0    0    0    1    0    0
## [4228,]    0    0    0    0    0    0    0    1    0    0
## [4229,]    0    0    0    0    1    0    0    0    0    0
## [4230,]    0    0    0    0    0    0    0    0    0    1
## [4231,]    0    0    1    0    0    0    0    0    0    0
## [4232,]    0    0    0    0    0    0    1    0    0    0
## [4233,]    0    0    0    0    0    0    1    0    0    0
## [4234,]    0    0    0    1    0    0    0    0    0    0
## [4235,]    0    0    0    1    0    0    0    0    0    0
## [4236,]    0    0    0    1    0    0    0    0    0    0
## [4237,]    0    0    0    1    0    0    0    0    0    0
## [4238,]    0    1    0    0    0    0    0    0    0    0
## [4239,]    0    0    0    1    0    0    0    0    0    0
## [4240,]    1    0    0    0    0    0    0    0    0    0
## [4241,]    0    0    0    0    1    0    0    0    0    0
## [4242,]    0    0    1    0    0    0    0    0    0    0
## [4243,]    0    0    0    0    0    0    0    1    0    0
## [4244,]    0    0    0    0    0    0    1    0    0    0
## [4245,]    0    0    0    0    0    0    0    0    0    1
## [4246,]    1    0    0    0    0    0    0    0    0    0
## [4247,]    0    0    0    1    0    0    0    0    0    0
## [4248,]    0    0    0    0    0    1    0    0    0    0
```

```
## [4249,]     0     1     0     0     0     0     0     0     0     0
## [4250,]     0     0     0     0     0     0     1     0     0     0
## [4251,]     0     0     0     1     0     0     0     0     0     0
## [4252,]     0     0     0     0     0     0     1     0     0     0
## [4253,]     0     0     0     0     1     0     0     0     0     0
## [4254,]     0     0     0     0     0     0     0     0     1     0
## [4255,]     0     0     0     0     0     0     0     1     0     0
## [4256,]     0     0     0     0     0     0     0     1     0     0
## [4257,]     0     0     0     1     0     0     0     0     0     0
## [4258,]     0     0     0     1     0     0     0     0     0     0
## [4259,]     0     0     0     0     0     0     0     0     1     0
## [4260,]     0     0     0     0     0     1     0     0     0     0
## [4261,]     0     0     0     0     0     0     0     0     0     1
## [4262,]     0     0     0     0     0     0     0     0     1     0
## [4263,]     0     0     0     1     0     0     0     0     0     0
## [4264,]     0     0     0     1     0     0     0     0     0     0
## [4265,]     0     0     0     0     1     0     0     0     0     0
## [4266,]     1     0     0     0     0     0     0     0     0     0
## [4267,]     0     0     0     0     0     0     0     1     0     0
## [4268,]     0     1     0     0     0     0     0     0     0     0
## [4269,]     0     0     0     0     0     0     1     0     0     0
## [4270,]     0     0     1     0     0     0     0     0     0     0
## [4271,]     1     0     0     0     0     0     0     0     0     0
## [4272,]     0     0     0     1     0     0     0     0     0     0
## [4273,]     0     0     0     0     0     0     0     0     1     0
## [4274,]     0     0     0     0     0     0     0     1     0     0
## [4275,]     0     0     0     0     1     0     0     0     0     0
## [4276,]     0     0     0     0     0     0     0     0     1     0
## [4277,]     0     0     0     1     0     0     0     0     0     0
## [4278,]     0     0     0     0     0     0     0     0     0     1
## [4279,]     0     0     1     0     0     0     0     0     0     0
## [4280,]     1     0     0     0     0     0     0     0     0     0
## [4281,]     0     0     0     0     0     0     0     1     0     0
## [4282,]     0     0     0     1     0     0     0     0     0     0
## [4283,]     0     0     0     0     0     0     0     0     1     0
## [4284,]     0     0     0     0     1     0     0     0     0     0
## [4285,]     1     0     0     0     0     0     0     0     0     0
## [4286,]     0     0     0     0     0     0     0     1     0     0
## [4287,]     0     1     0     0     0     0     0     0     0     0
## [4288,]     0     0     0     0     0     0     0     0     1     0
## [4289,]     1     0     0     0     0     0     0     0     0     0
## [4290,]     1     0     0     0     0     0     0     0     0     0
## [4291,]     0     0     0     0     0     1     0     0     0     0
## [4292,]     0     1     0     0     0     0     0     0     0     0
## [4293,]     0     0     0     0     1     0     0     0     0     0
## [4294,]     0     0     1     0     0     0     0     0     0     0
## [4295,]     0     1     0     0     0     0     0     0     0     0
## [4296,]     0     0     0     1     0     0     0     0     0     0
## [4297,]     0     0     0     0     0     0     0     1     0     0
## [4298,]     0     0     0     0     1     0     0     0     0     0
## [4299,]     0     0     0     0     0     0     0     1     0     0
## [4300,]     0     0     0     0     0     1     0     0     0     0
## [4301,]     0     1     0     0     0     0     0     0     0     0
## [4302,]     0     0     0     0     0     0     1     0     0     0
```

```
## [4303,]    0    0    0    0    0    1    0    0    0    0
## [4304,]    0    0    0    0    0    0    0    1    0    0
## [4305,]    0    0    0    0    0    1    0    0    0    0
## [4306,]    0    0    0    0    0    0    0    0    1    0
## [4307,]    0    0    0    0    0    0    0    0    0    1
## [4308,]    0    0    0    0    0    0    0    0    0    1
## [4309,]    0    0    0    0    0    0    0    0    1    0
## [4310,]    0    0    0    0    0    1    0    0    0    0
## [4311,]    1    0    0    0    0    0    0    0    0    0
## [4312,]    0    1    0    0    0    0    0    0    0    0
## [4313,]    0    0    0    0    0    1    0    0    0    0
## [4314,]    0    0    0    0    0    0    0    0    0    1
## [4315,]    0    0    0    0    0    0    1    0    0    0
## [4316,]    0    0    0    0    0    0    0    0    0    1
## [4317,]    1    0    0    0    0    0    0    0    0    0
## [4318,]    0    0    0    0    0    0    0    1    0    0
## [4319,]    0    0    0    0    1    0    0    0    0    0
## [4320,]    0    1    0    0    0    0    0    0    0    0
## [4321,]    0    0    0    0    0    0    0    0    0    1
## [4322,]    1    0    0    0    0    0    0    0    0    0
## [4323,]    0    0    1    0    0    0    0    0    0    0
## [4324,]    0    0    0    0    0    0    0    0    0    1
## [4325,]    0    0    0    0    0    0    0    0    1    0
## [4326,]    1    0    0    0    0    0    0    0    0    0
## [4327,]    0    0    0    0    0    0    0    1    0    0
## [4328,]    0    0    0    0    0    1    0    0    0    0
## [4329,]    0    0    0    1    0    0    0    0    0    0
## [4330,]    0    0    0    0    0    0    0    0    0    1
## [4331,]    0    0    0    0    0    0    0    1    0    0
## [4332,]    0    0    0    0    0    0    0    1    0    0
## [4333,]    0    0    0    0    0    0    0    1    0    0
## [4334,]    0    1    0    0    0    0    0    0    0    0
## [4335,]    0    0    0    0    0    0    0    1    0    0
## [4336,]    0    0    0    1    0    0    0    0    0    0
## [4337,]    0    0    0    0    1    0    0    0    0    0
## [4338,]    0    0    0    0    0    0    1    0    0    0
## [4339,]    0    0    0    0    0    0    0    1    0    0
## [4340,]    0    0    0    1    0    0    0    0    0    0
## [4341,]    1    0    0    0    0    0    0    0    0    0
## [4342,]    0    0    1    0    0    0    0    0    0    0
## [4343,]    0    0    0    1    0    0    0    0    0    0
## [4344,]    1    0    0    0    0    0    0    0    0    0
## [4345,]    1    0    0    0    0    0    0    0    0    0
## [4346,]    0    0    0    0    0    0    0    0    0    1
## [4347,]    0    0    0    0    1    0    0    0    0    0
## [4348,]    1    0    0    0    0    0    0    0    0    0
## [4349,]    0    0    0    0    0    0    0    0    1    0
## [4350,]    0    0    0    0    0    0    1    0    0    0
## [4351,]    0    0    0    0    0    0    0    0    0    1
## [4352,]    0    1    0    0    0    0    0    0    0    0
## [4353,]    0    0    0    1    0    0    0    0    0    0
## [4354,]    0    0    0    0    0    0    0    1    0    0
## [4355,]    0    0    0    0    0    0    0    1    0    0
## [4356,]    0    0    1    0    0    0    0    0    0    0
```

```
## [4357,]   1   0   0   0   0   0   0   0   0   0
## [4358,]   0   0   0   0   0   0   0   0   1   0
## [4359,]   0   0   0   0   0   0   0   1   0   0
## [4360,]   0   0   0   1   0   0   0   0   0   0
## [4361,]   0   0   0   0   0   0   1   0   0   0
## [4362,]   0   0   0   0   1   0   0   0   0   0
## [4363,]   0   0   0   0   0   0   0   0   0   1
## [4364,]   0   0   0   0   0   0   0   1   0   0
## [4365,]   0   0   0   0   0   0   1   0   0   0
## [4366,]   0   0   0   0   0   0   1   0   0   0
## [4367,]   0   0   0   0   0   0   0   1   0   0
## [4368,]   0   0   0   0   0   0   1   0   0   0
## [4369,]   0   0   0   0   0   0   0   0   0   1
## [4370,]   0   0   0   1   0   0   0   0   0   0
## [4371,]   0   0   0   0   0   0   0   0   1   0
## [4372,]   0   0   1   0   0   0   0   0   0   0
## [4373,]   0   0   0   0   0   0   0   1   0   0
## [4374,]   0   0   0   1   0   0   0   0   0   0
## [4375,]   1   0   0   0   0   0   0   0   0   0
## [4376,]   0   0   0   0   0   0   0   0   1   0
## [4377,]   0   0   0   0   0   1   0   0   0   0
## [4378,]   0   0   0   0   0   0   0   0   0   1
## [4379,]   0   0   0   0   0   0   0   0   0   1
## [4380,]   0   0   0   0   1   0   0   0   0   0
## [4381,]   0   0   1   0   0   0   0   0   0   0
## [4382,]   0   0   0   0   0   0   0   0   1   0
## [4383,]   0   0   0   0   1   0   0   0   0   0
## [4384,]   0   0   0   0   0   0   0   0   1   0
## [4385,]   0   0   0   0   0   0   0   0   1   0
## [4386,]   0   0   0   0   0   0   0   1   0   0
## [4387,]   0   0   0   0   1   0   0   0   0   0
## [4388,]   0   1   0   0   0   0   0   0   0   0
## [4389,]   0   0   0   0   0   0   0   0   1   0
## [4390,]   1   0   0   0   0   0   0   0   0   0
## [4391,]   0   1   0   0   0   0   0   0   0   0
## [4392,]   0   0   0   0   0   0   0   0   1   0
## [4393,]   0   0   0   0   0   0   1   0   0   0
## [4394,]   0   0   0   0   0   0   0   1   0   0
## [4395,]   0   0   0   0   0   0   0   1   0   0
## [4396,]   0   0   0   0   0   0   0   1   0   0
## [4397,]   0   0   0   0   0   0   0   1   0   0
## [4398,]   0   0   0   0   0   1   0   0   0   0
## [4399,]   0   0   1   0   0   0   0   0   0   0
## [4400,]   0   0   0   0   0   0   0   0   0   1
## [4401,]   0   0   0   1   0   0   0   0   0   0
## [4402,]   0   0   1   0   0   0   0   0   0   0
## [4403,]   0   0   0   0   0   0   1   0   0   0
## [4404,]   0   0   0   1   0   0   0   0   0   0
## [4405,]   0   0   0   0   0   0   1   0   0   0
## [4406,]   0   1   0   0   0   0   0   0   0   0
## [4407,]   0   0   0   0   1   0   0   0   0   0
## [4408,]   0   1   0   0   0   0   0   0   0   0
## [4409,]   0   0   0   0   0   0   1   0   0   0
## [4410,]   0   0   0   0   1   0   0   0   0   0
```

```
## [4411,]      0      0      0      0      1      0      0      0      0      0
## [4412,]      0      0      0      0      0      1      0      0      0      0
## [4413,]      0      1      0      0      0      0      0      0      0      0
## [4414,]      0      0      0      0      0      1      0      0      0      0
## [4415,]      0      0      1      0      0      0      0      0      0      0
## [4416,]      1      0      0      0      0      0      0      0      0      0
## [4417,]      0      0      0      0      0      1      0      0      0      0
## [4418,]      0      0      0      0      1      0      0      0      0      0
## [4419,]      0      0      0      1      0      0      0      0      0      0
## [4420,]      0      0      0      0      0      0      0      0      1      0
## [4421,]      0      1      0      0      0      0      0      0      0      0
## [4422,]      0      0      0      0      0      0      0      1      0      0
## [4423,]      0      0      0      0      0      0      0      1      0      0
## [4424,]      0      0      0      0      1      0      0      0      0      0
## [4425,]      0      0      0      0      0      1      0      0      0      0
## [4426,]      0      0      0      0      0      0      0      0      0      1
## [4427,]      0      0      0      0      0      0      1      0      0      0
## [4428,]      0      0      1      0      0      0      0      0      0      0
## [4429,]      0      0      1      0      0      0      0      0      0      0
## [4430,]      0      0      0      1      0      0      0      0      0      0
## [4431,]      0      0      0      0      0      0      1      0      0      0
## [4432,]      0      0      0      0      0      0      1      0      0      0
## [4433,]      0      0      0      0      0      0      0      1      0      0
## [4434,]      0      0      0      0      1      0      0      0      0      0
## [4435,]      0      0      0      0      0      0      0      0      1      0
## [4436,]      0      1      0      0      0      0      0      0      0      0
## [4437,]      0      0      0      0      1      0      0      0      0      0
## [4438,]      0      0      1      0      0      0      0      0      0      0
## [4439,]      0      0      0      0      1      0      0      0      0      0
## [4440,]      0      0      0      0      1      0      0      0      0      0
## [4441,]      0      0      0      0      0      0      0      0      1      0
## [4442,]      0      1      0      0      0      0      0      0      0      0
## [4443,]      0      0      1      0      0      0      0      0      0      0
## [4444,]      0      0      0      0      0      1      0      0      0      0
## [4445,]      1      0      0      0      0      0      0      0      0      0
## [4446,]      0      1      0      0      0      0      0      0      0      0
## [4447,]      0      0      1      0      0      0      0      0      0      0
## [4448,]      0      0      0      0      0      0      0      0      0      1
## [4449,]      0      0      0      0      0      0      0      0      1      0
## [4450,]      0      0      0      1      0      0      0      0      0      0
## [4451,]      0      0      0      0      0      1      0      0      0      0
## [4452,]      0      0      1      0      0      0      0      0      0      0
## [4453,]      0      0      0      0      0      0      0      1      0      0
## [4454,]      1      0      0      0      0      0      0      0      0      0
## [4455,]      0      0      0      0      1      0      0      0      0      0
## [4456,]      1      0      0      0      0      0      0      0      0      0
## [4457,]      0      0      0      0      0      0      0      0      0      1
## [4458,]      0      0      1      0      0      0      0      0      0      0
## [4459,]      0      0      0      0      0      0      0      1      0      0
## [4460,]      0      0      0      0      0      0      0      0      0      1
## [4461,]      0      0      0      0      1      0      0      0      0      0
## [4462,]      0      0      0      1      0      0      0      0      0      0
## [4463,]      0      0      0      0      0      1      0      0      0      0
## [4464,]      0      0      0      0      0      0      1      0      0      0
```

```
## [4465,]    0    0    0    0    1    0    0    0    0    0
## [4466,]    1    0    0    0    0    0    0    0    0    0
## [4467,]    0    0    0    0    0    0    0    0    0    1
## [4468,]    0    1    0    0    0    0    0    0    0    0
## [4469,]    0    0    0    0    0    0    0    0    1    0
## [4470,]    0    0    1    0    0    0    0    0    0    0
## [4471,]    0    1    0    0    0    0    0    0    0    0
## [4472,]    0    0    0    1    0    0    0    0    0    0
## [4473,]    0    0    0    0    0    0    0    1    0    0
## [4474,]    0    0    0    0    1    0    0    0    0    0
## [4475,]    0    0    1    0    0    0    0    0    0    0
## [4476,]    0    0    0    0    0    1    0    0    0    0
## [4477,]    0    0    1    0    0    0    0    0    0    0
## [4478,]    0    0    0    0    0    0    1    0    0    0
## [4479,]    0    0    0    0    0    0    0    1    0    0
## [4480,]    0    0    0    0    0    0    0    1    0    0
## [4481,]    0    0    0    0    0    1    0    0    0    0
## [4482,]    0    0    0    0    0    0    0    0    1    0
## [4483,]    0    0    0    0    0    0    0    0    1    0
## [4484,]    0    0    0    0    0    0    0    0    0    1
## [4485,]    0    1    0    0    0    0    0    0    0    0
## [4486,]    1    0    0    0    0    0    0    0    0    0
## [4487,]    0    1    0    0    0    0    0    0    0    0
## [4488,]    0    1    0    0    0    0    0    0    0    0
## [4489,]    1    0    0    0    0    0    0    0    0    0
## [4490,]    0    0    1    0    0    0    0    0    0    0
## [4491,]    0    0    0    1    0    0    0    0    0    0
## [4492,]    0    0    0    1    0    0    0    0    0    0
## [4493,]    0    1    0    0    0    0    0    0    0    0
## [4494,]    0    0    0    0    1    0    0    0    0    0
## [4495,]    0    0    0    0    1    0    0    0    0    0
## [4496,]    0    0    0    0    0    1    0    0    0    0
## [4497,]    1    0    0    0    0    0    0    0    0    0
## [4498,]    0    0    0    0    0    0    1    0    0    0
## [4499,]    0    0    0    0    1    0    0    0    0    0
## [4500,]    0    0    0    0    0    0    0    1    0    0
## [4501,]    1    0    0    0    0    0    0    0    0    0
## [4502,]    0    0    0    0    0    0    0    0    1    0
## [4503,]    0    1    0    0    0    0    0    0    0    0
## [4504,]    0    0    0    0    0    0    0    0    0    1
## [4505,]    0    1    0    0    0    0    0    0    0    0
## [4506,]    1    0    0    0    0    0    0    0    0    0
## [4507,]    0    0    0    1    0    0    0    0    0    0
## [4508,]    0    1    0    0    0    0    0    0    0    0
## [4509,]    0    0    0    1    0    0    0    0    0    0
## [4510,]    0    0    1    0    0    0    0    0    0    0
## [4511,]    0    0    0    1    0    0    0    0    0    0
## [4512,]    0    0    0    1    0    0    0    0    0    0
## [4513,]    0    0    0    1    0    0    0    0    0    0
## [4514,]    0    0    0    0    1    0    0    0    0    0
## [4515,]    0    0    1    0    0    0    0    0    0    0
## [4516,]    0    0    0    0    0    1    0    0    0    0
## [4517,]    0    0    0    0    0    0    0    1    0    0
## [4518,]    0    0    0    0    0    0    1    0    0    0
```

```
## [4519,]      0    0    1    0    0    0    0    0    0    0
## [4520,]      0    0    0    0    0    0    0    1    0    0
## [4521,]      0    0    0    0    0    0    1    0    0    0
## [4522,]      0    0    0    0    0    0    0    0    1    0
## [4523,]      0    0    0    0    1    0    0    0    0    0
## [4524,]      0    0    0    0    0    0    0    0    0    1
## [4525,]      0    1    0    0    0    0    0    0    0    0
## [4526,]      0    0    0    0    0    0    0    0    1    0
## [4527,]      0    0    0    0    0    0    1    0    0    0
## [4528,]      1    0    0    0    0    0    0    0    0    0
## [4529,]      0    0    0    0    0    0    0    1    0    0
## [4530,]      0    0    0    0    0    1    0    0    0    0
## [4531,]      0    0    0    0    0    0    0    1    0    0
## [4532,]      0    0    0    0    0    0    1    0    0    0
## [4533,]      1    0    0    0    0    0    0    0    0    0
## [4534,]      0    0    0    0    0    0    1    0    0    0
## [4535,]      0    1    0    0    0    0    0    0    0    0
## [4536,]      1    0    0    0    0    0    0    0    0    0
## [4537,]      0    0    0    0    0    0    1    0    0    0
## [4538,]      0    0    0    0    0    0    0    0    1    0
## [4539,]      0    0    0    0    1    0    0    0    0    0
## [4540,]      1    0    0    0    0    0    0    0    0    0
## [4541,]      0    0    0    0    1    0    0    0    0    0
## [4542,]      0    0    1    0    0    0    0    0    0    0
## [4543,]      0    0    1    0    0    0    0    0    0    0
## [4544,]      0    0    0    1    0    0    0    0    0    0
## [4545,]      0    0    0    0    0    0    0    0    0    1
## [4546,]      0    0    0    0    0    0    0    1    0    0
## [4547,]      0    0    0    0    0    0    1    0    0    0
## [4548,]      0    0    0    0    0    0    0    0    0    1
## [4549,]      0    0    0    0    0    0    0    1    0    0
## [4550,]      0    0    0    0    1    0    0    0    0    0
## [4551,]      0    0    1    0    0    0    0    0    0    0
## [4552,]      0    0    0    0    0    0    0    1    0    0
## [4553,]      0    0    0    1    0    0    0    0    0    0
## [4554,]      0    1    0    0    0    0    0    0    0    0
## [4555,]      0    1    0    0    0    0    0    0    0    0
## [4556,]      0    0    0    0    0    0    0    0    0    1
## [4557,]      1    0    0    0    0    0    0    0    0    0
## [4558,]      0    1    0    0    0    0    0    0    0    0
## [4559,]      0    0    0    0    0    1    0    0    0    0
## [4560,]      0    0    0    0    0    0    0    1    0    0
## [4561,]      0    0    0    0    0    0    1    0    0    0
## [4562,]      0    1    0    0    0    0    0    0    0    0
## [4563,]      0    0    0    0    0    1    0    0    0    0
## [4564,]      1    0    0    0    0    0    0    0    0    0
## [4565,]      0    0    0    0    1    0    0    0    0    0
## [4566,]      1    0    0    0    0    0    0    0    0    0
## [4567,]      0    1    0    0    0    0    0    0    0    0
## [4568,]      0    0    0    0    1    0    0    0    0    0
## [4569,]      0    0    0    0    0    0    0    0    0    1
## [4570,]      0    1    0    0    0    0    0    0    0    0
## [4571,]      0    0    0    1    0    0    0    0    0    0
## [4572,]      0    0    0    0    0    0    0    1    0    0
```

```
## [4573,]     0    0    0    0    0    0    1    0    0    0
## [4574,]     0    0    0    0    0    1    0    0    0    0
## [4575,]     0    0    1    0    0    0    0    0    0    0
## [4576,]     0    0    0    0    0    0    0    1    0    0
## [4577,]     0    0    1    0    0    0    0    0    0    0
## [4578,]     0    1    0    0    0    0    0    0    0    0
## [4579,]     0    0    0    0    0    0    0    0    1    0
## [4580,]     0    0    0    1    0    0    0    0    0    0
## [4581,]     0    0    0    0    0    0    0    0    1    0
## [4582,]     0    0    0    1    0    0    0    0    0    0
## [4583,]     0    0    0    0    0    0    0    0    1    0
## [4584,]     0    0    0    1    0    0    0    0    0    0
## [4585,]     0    0    0    1    0    0    0    0    0    0
## [4586,]     0    1    0    0    0    0    0    0    0    0
## [4587,]     0    0    0    0    0    0    1    0    0    0
## [4588,]     0    0    0    0    0    0    1    0    0    0
## [4589,]     1    0    0    0    0    0    0    0    0    0
## [4590,]     0    0    0    0    0    0    0    0    0    1
## [4591,]     0    0    0    0    0    1    0    0    0    0
## [4592,]     0    0    0    0    0    0    0    1    0    0
## [4593,]     0    0    0    0    0    0    0    1    0    0
## [4594,]     0    0    0    0    1    0    0    0    0    0
## [4595,]     0    0    0    0    0    0    0    0    0    1
## [4596,]     0    0    0    1    0    0    0    0    0    0
## [4597,]     0    0    0    0    0    1    0    0    0    0
## [4598,]     1    0    0    0    0    0    0    0    0    0
## [4599,]     0    0    0    0    0    0    0    0    1    0
## [4600,]     0    0    1    0    0    0    0    0    0    0
## [4601,]     0    0    0    0    0    1    0    0    0    0
## [4602,]     0    0    0    0    0    1    0    0    0    0
## [4603,]     0    1    0    0    0    0    0    0    0    0
## [4604,]     0    0    1    0    0    0    0    0    0    0
## [4605,]     0    0    0    0    0    0    0    1    0    0
## [4606,]     0    0    0    0    0    0    1    0    0    0
## [4607,]     0    0    0    0    0    0    0    0    0    1
## [4608,]     1    0    0    0    0    0    0    0    0    0
## [4609,]     1    0    0    0    0    0    0    0    0    0
## [4610,]     0    0    0    0    0    0    0    0    1    0
## [4611,]     0    0    1    0    0    0    0    0    0    0
## [4612,]     0    0    0    0    0    0    0    0    0    1
## [4613,]     0    0    0    0    0    0    1    0    0    0
## [4614,]     0    0    0    0    1    0    0    0    0    0
## [4615,]     0    0    0    0    0    1    0    0    0    0
## [4616,]     0    0    0    1    0    0    0    0    0    0
## [4617,]     0    0    0    0    1    0    0    0    0    0
## [4618,]     0    0    0    0    0    1    0    0    0    0
## [4619,]     0    0    0    0    0    0    0    1    0    0
## [4620,]     0    0    0    0    1    0    0    0    0    0
## [4621,]     0    0    0    0    0    0    1    0    0    0
## [4622,]     0    0    0    0    0    0    0    0    1    0
## [4623,]     0    0    0    0    0    1    0    0    0    0
## [4624,]     0    1    0    0    0    0    0    0    0    0
## [4625,]     1    0    0    0    0    0    0    0    0    0
## [4626,]     0    0    0    0    0    1    0    0    0    0
```

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```
## [4627,]      0    0    0    0    1    0    0    0    0    0
## [4628,]      0    0    0    0    0    0    0    0    0    1
## [4629,]      0    0    0    1    0    0    0    0    0    0
## [4630,]      1    0    0    0    0    0    0    0    0    0
## [4631,]      0    0    0    0    0    0    0    0    0    1
## [4632,]      0    0    0    0    0    0    1    0    0    0
## [4633,]      0    0    0    1    0    0    0    0    0    0
## [4634,]      0    0    0    0    1    0    0    0    0    0
## [4635,]      0    0    0    0    0    0    0    0    1    0
## [4636,]      0    0    0    0    0    0    1    0    0    0
## [4637,]      0    0    0    0    1    0    0    0    0    0
## [4638,]      0    0    0    0    0    0    0    0    1    0
## [4639,]      0    0    0    1    0    0    0    0    0    0
## [4640,]      0    1    0    0    0    0    0    0    0    0
## [4641,]      0    0    0    0    0    0    1    0    0    0
## [4642,]      0    0    0    0    1    0    0    0    0    0
## [4643,]      1    0    0    0    0    0    0    0    0    0
## [4644,]      0    0    0    0    0    0    0    1    0    0
## [4645,]      0    1    0    0    0    0    0    0    0    0
## [4646,]      0    0    0    0    0    1    0    0    0    0
## [4647,]      0    0    1    0    0    0    0    0    0    0
## [4648,]      0    0    0    0    0    0    0    1    0    0
## [4649,]      0    0    1    0    0    0    0    0    0    0
## [4650,]      0    0    1    0    0    0    0    0    0    0
## [4651,]      0    0    1    0    0    0    0    0    0    0
## [4652,]      0    0    1    0    0    0    0    0    0    0
## [4653,]      0    0    0    0    0    0    0    0    1    0
## [4654,]      1    0    0    0    0    0    0    0    0    0
## [4655,]      0    1    0    0    0    0    0    0    0    0
## [4656,]      1    0    0    0    0    0    0    0    0    0
## [4657,]      1    0    0    0    0    0    0    0    0    0
## [4658,]      0    1    0    0    0    0    0    0    0    0
## [4659,]      0    0    0    1    0    0    0    0    0    0
## [4660,]      0    0    0    0    0    0    0    1    0    0
## [4661,]      0    0    0    0    0    0    1    0    0    0
## [4662,]      0    0    0    0    0    0    0    1    0    0
## [4663,]      0    0    1    0    0    0    0    0    0    0
## [4664,]      0    0    0    0    0    0    0    0    0    1
## [4665,]      0    0    1    0    0    0    0    0    0    0
## [4666,]      0    0    0    0    0    1    0    0    0    0
## [4667,]      0    0    0    0    0    1    0    0    0    0
## [4668,]      0    0    0    0    0    0    0    0    0    1
## [4669,]      0    0    0    0    0    0    0    0    0    1
## [4670,]      0    0    0    0    0    0    0    0    1    0
## [4671,]      0    0    0    0    0    1    0    0    0    0
## [4672,]      0    0    0    0    0    0    0    0    0    1
## [4673,]      0    0    0    0    0    0    0    1    0    0
## [4674,]      0    0    0    0    0    0    1    0    0    0
## [4675,]      0    0    0    1    0    0    0    0    0    0
## [4676,]      0    0    0    0    0    0    0    0    1    0
## [4677,]      0    1    0    0    0    0    0    0    0    0
## [4678,]      0    0    0    0    0    0    0    0    1    0
## [4679,]      0    0    0    0    0    0    0    0    0    1
## [4680,]      0    0    1    0    0    0    0    0    0    0
```

```
## [4681,]      0    0    0    0    0    0    0    1    0    0
## [4682,]      0    0    0    1    0    0    0    0    0    0
## [4683,]      1    0    0    0    0    0    0    0    0    0
## [4684,]      0    0    0    0    0    0    1    0    0    0
## [4685,]      0    0    0    0    0    0    0    0    1    0
## [4686,]      0    1    0    0    0    0    0    0    0    0
## [4687,]      1    0    0    0    0    0    0    0    0    0
## [4688,]      0    0    1    0    0    0    0    0    0    0
## [4689,]      1    0    0    0    0    0    0    0    0    0
## [4690,]      0    0    0    0    0    0    0    0    0    1
## [4691,]      0    0    0    0    0    0    0    0    0    1
## [4692,]      0    0    0    0    0    0    0    0    1    0
## [4693,]      0    0    0    0    0    0    0    0    1    0
## [4694,]      0    0    0    0    0    0    0    0    0    1
## [4695,]      0    0    0    1    0    0    0    0    0    0
## [4696,]      0    0    0    0    0    1    0    0    0    0
## [4697,]      0    1    0    0    0    0    0    0    0    0
## [4698,]      0    0    1    0    0    0    0    0    0    0
## [4699,]      0    0    0    0    0    0    0    0    1    0
## [4700,]      0    0    0    0    0    0    1    0    0    0
## [4701,]      0    0    0    0    0    0    0    0    1    0
## [4702,]      0    0    1    0    0    0    0    0    0    0
## [4703,]      0    0    0    0    0    0    1    0    0    0
## [4704,]      0    0    0    0    1    0    0    0    0    0
## [4705,]      0    0    0    0    0    1    0    0    0    0
## [4706,]      0    0    0    0    0    0    0    0    1    0
## [4707,]      0    0    1    0    0    0    0    0    0    0
## [4708,]      0    0    0    0    1    0    0    0    0    0
## [4709,]      0    1    0    0    0    0    0    0    0    0
## [4710,]      0    0    0    0    0    0    1    0    0    0
## [4711,]      0    1    0    0    0    0    0    0    0    0
## [4712,]      0    0    0    0    0    1    0    0    0    0
## [4713,]      0    0    0    0    0    0    1    0    0    0
## [4714,]      1    0    0    0    0    0    0    0    0    0
## [4715,]      0    0    1    0    0    0    0    0    0    0
## [4716,]      0    1    0    0    0    0    0    0    0    0
## [4717,]      0    0    1    0    0    0    0    0    0    0
## [4718,]      0    0    1    0    0    0    0    0    0    0
## [4719,]      1    0    0    0    0    0    0    0    0    0
## [4720,]      0    0    0    1    0    0    0    0    0    0
## [4721,]      0    0    0    0    0    0    0    0    0    1
## [4722,]      0    0    0    0    1    0    0    0    0    0
## [4723,]      0    0    1    0    0    0    0    0    0    0
## [4724,]      0    0    0    0    0    1    0    0    0    0
## [4725,]      0    0    0    0    0    0    1    0    0    0
## [4726,]      0    0    0    0    0    0    0    1    0    0
## [4727,]      0    0    0    0    0    0    0    1    0    0
## [4728,]      0    0    0    0    0    0    0    0    1    0
## [4729,]      0    0    0    0    0    1    0    0    0    0
## [4730,]      1    0    0    0    0    0    0    0    0    0
## [4731,]      0    0    0    0    1    0    0    0    0    0
## [4732,]      0    1    0    0    0    0    0    0    0    0
## [4733,]      0    0    0    0    0    0    1    0    0    0
## [4734,]      0    0    1    0    0    0    0    0    0    0
```

```
## [4735,]    0    0    0    0    0    0    0    1    0    0
## [4736,]    0    0    0    1    0    0    0    0    0    0
## [4737,]    0    0    0    1    0    0    0    0    0    0
## [4738,]    0    0    0    0    1    0    0    0    0    0
## [4739,]    1    0    0    0    0    0    0    0    0    0
## [4740,]    0    0    0    0    0    1    0    0    0    0
## [4741,]    0    0    0    1    0    0    0    0    0    0
## [4742,]    0    0    0    0    0    0    1    0    0    0
## [4743,]    0    0    0    1    0    0    0    0    0    0
## [4744,]    0    0    0    0    0    0    0    1    0    0
## [4745,]    1    0    0    0    0    0    0    0    0    0
## [4746,]    0    0    0    0    0    0    0    0    1    0
## [4747,]    0    0    0    0    1    0    0    0    0    0
## [4748,]    0    0    0    0    0    0    0    0    0    1
## [4749,]    1    0    0    0    0    0    0    0    0    0
## [4750,]    1    0    0    0    0    0    0    0    0    0
## [4751,]    0    1    0    0    0    0    0    0    0    0
## [4752,]    0    1    0    0    0    0    0    0    0    0
## [4753,]    0    0    0    0    0    1    0    0    0    0
## [4754,]    0    0    1    0    0    0    0    0    0    0
## [4755,]    0    0    0    0    0    0    0    0    0    1
## [4756,]    0    0    0    1    0    0    0    0    0    0
## [4757,]    1    0    0    0    0    0    0    0    0    0
## [4758,]    0    0    0    0    1    0    0    0    0    0
## [4759,]    0    0    0    0    1    0    0    0    0    0
## [4760,]    0    0    0    0    0    0    0    1    0    0
## [4761,]    0    0    0    0    0    1    0    0    0    0
## [4762,]    0    0    0    0    0    0    0    0    1    0
## [4763,]    0    0    0    1    0    0    0    0    0    0
## [4764,]    0    1    0    0    0    0    0    0    0    0
## [4765,]    0    1    0    0    0    0    0    0    0    0
## [4766,]    0    0    0    0    0    0    1    0    0    0
## [4767,]    0    1    0    0    0    0    0    0    0    0
## [4768,]    0    0    0    0    0    0    0    0    1    0
## [4769,]    0    0    0    0    1    0    0    0    0    0
## [4770,]    0    0    0    0    0    0    0    0    0    1
## [4771,]    0    0    0    0    0    0    1    0    0    0
## [4772,]    0    0    0    0    0    0    0    0    0    1
## [4773,]    0    1    0    0    0    0    0    0    0    0
## [4774,]    1    0    0    0    0    0    0    0    0    0
## [4775,]    0    0    0    0    0    0    0    1    0    0
## [4776,]    0    1    0    0    0    0    0    0    0    0
## [4777,]    1    0    0    0    0    0    0    0    0    0
## [4778,]    0    0    1    0    0    0    0    0    0    0
## [4779,]    0    0    0    0    0    0    1    0    0    0
## [4780,]    0    0    0    0    1    0    0    0    0    0
## [4781,]    0    0    0    0    1    0    0    0    0    0
## [4782,]    0    0    0    0    1    0    0    0    0    0
## [4783,]    0    0    0    0    1    0    0    0    0    0
## [4784,]    0    0    0    1    0    0    0    0    0    0
## [4785,]    0    0    0    0    0    0    0    1    0    0
## [4786,]    0    0    0    0    0    0    0    1    0    0
## [4787,]    0    0    0    0    0    1    0    0    0    0
## [4788,]    0    0    0    0    1    0    0    0    0    0
```

```
## [4789,]      0    0    0    0    0    0    0    0    0    1
## [4790,]      0    0    0    0    1    0    0    0    0    0
## [4791,]      0    1    0    0    0    0    0    0    0    0
## [4792,]      0    0    0    0    1    0    0    0    0    0
## [4793,]      0    0    0    1    0    0    0    0    0    0
## [4794,]      1    0    0    0    0    0    0    0    0    0
## [4795,]      0    0    0    0    0    0    0    1    0    0
## [4796,]      0    0    0    1    0    0    0    0    0    0
## [4797,]      0    0    0    0    1    0    0    0    0    0
## [4798,]      0    0    0    0    0    0    0    0    1    0
## [4799,]      0    0    0    0    1    0    0    0    0    0
## [4800,]      0    0    0    0    0    0    0    1    0    0
## [4801,]      0    0    0    0    0    0    1    0    0    0
## [4802,]      0    0    0    0    0    1    0    0    0    0
## [4803,]      0    0    0    0    1    0    0    0    0    0
## [4804,]      0    0    0    0    0    0    0    0    1    0
## [4805,]      1    0    0    0    0    0    0    0    0    0
## [4806,]      0    0    1    0    0    0    0    0    0    0
## [4807,]      0    0    0    0    0    0    0    1    0    0
## [4808,]      0    1    0    0    0    0    0    0    0    0
## [4809,]      0    0    0    1    0    0    0    0    0    0
## [4810,]      0    0    0    0    0    0    0    1    0    0
## [4811,]      0    1    0    0    0    0    0    0    0    0
## [4812,]      0    0    0    0    0    0    0    0    0    1
## [4813,]      0    0    0    0    1    0    0    0    0    0
## [4814,]      0    1    0    0    0    0    0    0    0    0
## [4815,]      0    0    0    0    0    0    0    0    1    0
## [4816,]      0    1    0    0    0    0    0    0    0    0
## [4817,]      0    0    0    0    0    0    0    0    0    1
## [4818,]      0    0    0    0    0    0    1    0    0    0
## [4819,]      0    0    0    0    0    0    1    0    0    0
## [4820,]      0    0    1    0    0    0    0    0    0    0
## [4821,]      0    0    0    0    0    1    0    0    0    0
## [4822,]      0    1    0    0    0    0    0    0    0    0
## [4823,]      0    0    0    0    1    0    0    0    0    0
## [4824,]      0    0    0    1    0    0    0    0    0    0
## [4825,]      0    0    0    0    0    0    0    0    0    1
## [4826,]      0    0    0    0    0    0    0    0    1    0
## [4827,]      0    0    0    0    0    0    0    0    0    1
## [4828,]      0    0    0    0    0    0    1    0    0    0
## [4829,]      0    0    0    0    0    0    1    0    0    0
## [4830,]      0    0    0    0    1    0    0    0    0    0
## [4831,]      0    0    0    0    0    0    0    0    0    1
## [4832,]      0    0    0    0    0    0    0    0    0    1
## [4833,]      0    0    0    0    0    0    0    1    0    0
## [4834,]      0    0    0    0    1    0    0    0    0    0
## [4835,]      0    0    0    0    0    0    0    0    1    0
## [4836,]      0    0    1    0    0    0    0    0    0    0
## [4837,]      0    0    0    1    0    0    0    0    0    0
## [4838,]      0    0    0    0    1    0    0    0    0    0
## [4839,]      0    0    0    0    1    0    0    0    0    0
## [4840,]      0    0    0    0    1    0    0    0    0    0
## [4841,]      0    0    0    0    0    0    0    1    0    0
## [4842,]      0    0    0    0    0    0    1    0    0    0
```

```
## [4843,]    0    0    0    0    0    0    0    1    0    0
## [4844,]    0    0    1    0    0    0    0    0    0    0
## [4845,]    0    0    0    0    0    1    0    0    0    0
## [4846,]    0    0    0    0    0    1    0    0    0    0
## [4847,]    0    0    1    0    0    0    0    0    0    0
## [4848,]    0    0    0    0    0    1    0    0    0    0
## [4849,]    0    0    0    0    0    0    0    0    1    0
## [4850,]    1    0    0    0    0    0    0    0    0    0
## [4851,]    0    0    0    1    0    0    0    0    0    0
## [4852,]    0    0    1    0    0    0    0    0    0    0
## [4853,]    1    0    0    0    0    0    0    0    0    0
## [4854,]    0    0    0    0    0    0    0    0    1    0
## [4855,]    1    0    0    0    0    0    0    0    0    0
## [4856,]    1    0    0    0    0    0    0    0    0    0
## [4857,]    0    0    1    0    0    0    0    0    0    0
## [4858,]    0    0    0    0    0    0    1    0    0    0
## [4859,]    0    0    0    0    0    0    0    1    0    0
## [4860,]    0    0    0    0    0    0    0    0    1    0
## [4861,]    0    0    0    0    0    0    0    0    1    0
## [4862,]    0    1    0    0    0    0    0    0    0    0
## [4863,]    0    0    0    0    0    0    0    0    1    0
## [4864,]    0    0    0    0    0    0    0    1    0    0
## [4865,]    0    0    0    1    0    0    0    0    0    0
## [4866,]    0    1    0    0    0    0    0    0    0    0
## [4867,]    0    0    0    1    0    0    0    0    0    0
## [4868,]    0    0    0    0    0    0    1    0    0    0
## [4869,]    0    0    0    1    0    0    0    0    0    0
## [4870,]    0    0    0    0    0    0    0    1    0    0
## [4871,]    1    0    0    0    0    0    0    0    0    0
## [4872,]    0    0    0    0    0    0    1    0    0    0
## [4873,]    0    1    0    0    0    0    0    0    0    0
## [4874,]    0    0    0    0    0    0    0    0    1    0
## [4875,]    0    0    0    0    1    0    0    0    0    0
## [4876,]    0    0    0    0    0    0    0    1    0    0
## [4877,]    0    0    0    0    0    0    0    1    0    0
## [4878,]    0    0    0    0    1    0    0    0    0    0
## [4879,]    0    0    0    1    0    0    0    0    0    0
## [4880,]    0    0    0    0    0    0    0    0    0    1
## [4881,]    0    0    1    0    0    0    0    0    0    0
## [4882,]    0    0    0    1    0    0    0    0    0    0
## [4883,]    0    0    0    0    0    0    1    0    0    0
## [4884,]    0    0    0    1    0    0    0    0    0    0
## [4885,]    0    1    0    0    0    0    0    0    0    0
## [4886,]    0    0    0    0    0    1    0    0    0    0
## [4887,]    0    0    0    0    0    0    1    0    0    0
## [4888,]    0    0    0    0    0    0    0    0    1    0
## [4889,]    0    0    0    0    0    0    0    1    0    0
## [4890,]    1    0    0    0    0    0    0    0    0    0
## [4891,]    0    0    0    0    1    0    0    0    0    0
## [4892,]    0    0    0    1    0    0    0    0    0    0
## [4893,]    1    0    0    0    0    0    0    0    0    0
## [4894,]    0    0    0    0    0    0    0    1    0    0
## [4895,]    0    0    0    0    0    0    0    0    0    1
## [4896,]    0    0    0    0    0    0    0    0    0    1
```

```
## [4897,]    0    0    0    0    1    0    0    0    0    0
## [4898,]    0    0    0    0    0    0    0    1    0    0
## [4899,]    0    0    0    1    0    0    0    0    0    0
## [4900,]    0    0    0    0    0    0    0    1    0    0
## [4901,]    0    1    0    0    0    0    0    0    0    0
## [4902,]    0    0    0    0    0    0    0    0    0    1
## [4903,]    0    0    0    0    0    0    0    0    0    1
## [4904,]    0    1    0    0    0    0    0    0    0    0
## [4905,]    0    0    0    0    0    0    0    1    0    0
## [4906,]    0    0    0    0    0    0    1    0    0    0
## [4907,]    1    0    0    0    0    0    0    0    0    0
## [4908,]    0    0    0    0    0    0    0    1    0    0
## [4909,]    0    0    0    0    0    1    0    0    0    0
## [4910,]    0    0    0    0    0    0    0    0    1    0
## [4911,]    0    0    0    0    0    0    1    0    0    0
## [4912,]    1    0    0    0    0    0    0    0    0    0
## [4913,]    0    0    0    0    0    0    0    0    0    1
## [4914,]    0    1    0    0    0    0    0    0    0    0
## [4915,]    0    0    1    0    0    0    0    0    0    0
## [4916,]    0    0    1    0    0    0    0    0    0    0
## [4917,]    0    0    0    0    0    0    0    0    0    1
## [4918,]    0    0    0    1    0    0    0    0    0    0
## [4919,]    1    0    0    0    0    0    0    0    0    0
## [4920,]    0    0    0    0    1    0    0    0    0    0
## [4921,]    0    1    0    0    0    0    0    0    0    0
## [4922,]    0    0    0    0    0    1    0    0    0    0
## [4923,]    0    0    0    0    0    0    1    0    0    0
## [4924,]    0    0    0    0    0    0    1    0    0    0
## [4925,]    0    1    0    0    0    0    0    0    0    0
## [4926,]    0    0    0    0    0    0    0    1    0    0
## [4927,]    1    0    0    0    0    0    0    0    0    0
## [4928,]    0    0    0    0    0    0    0    0    1    0
## [4929,]    0    0    0    0    0    0    0    1    0    0
## [4930,]    0    0    0    0    0    0    0    0    0    1
## [4931,]    0    0    0    0    0    0    1    0    0    0
## [4932,]    1    0    0    0    0    0    0    0    0    0
## [4933,]    0    0    0    0    0    0    0    0    0    1
## [4934,]    0    1    0    0    0    0    0    0    0    0
## [4935,]    0    0    0    0    0    0    1    0    0    0
## [4936,]    0    0    1    0    0    0    0    0    0    0
## [4937,]    0    0    0    0    0    0    0    0    0    1
## [4938,]    0    0    0    1    0    0    0    0    0    0
## [4939,]    0    0    1    0    0    0    0    0    0    0
## [4940,]    0    0    0    0    1    0    0    0    0    0
## [4941,]    0    0    0    0    0    1    0    0    0    0
## [4942,]    0    0    0    0    0    1    0    0    0    0
## [4943,]    0    1    0    0    0    0    0    0    0    0
## [4944,]    0    0    0    0    0    0    1    0    0    0
## [4945,]    0    1    0    0    0    0    0    0    0    0
## [4946,]    0    0    0    0    0    0    0    1    0    0
## [4947,]    0    0    0    0    0    0    0    1    0    0
## [4948,]    0    0    0    0    0    0    0    0    1    0
## [4949,]    0    0    0    0    0    1    0    0    0    0
## [4950,]    0    0    0    0    0    0    0    0    0    1
```

```
## [4951,]    0    1    0    0    0    0    0    0    0    0
## [4952,]    1    0    0    0    0    0    0    0    0    0
## [4953,]    0    0    0    0    1    0    0    0    0    0
## [4954,]    0    1    0    0    0    0    0    0    0    0
## [4955,]    0    0    0    0    1    0    0    0    0    0
## [4956,]    0    0    1    0    0    0    0    0    0    0
## [4957,]    0    0    0    1    0    0    0    0    0    0
## [4958,]    0    0    0    1    0    0    0    0    0    0
## [4959,]    0    1    0    0    0    0    0    0    0    0
## [4960,]    0    0    0    0    1    0    0    0    0    0
## [4961,]    0    1    0    0    0    0    0    0    0    0
## [4962,]    0    0    0    0    0    1    0    0    0    0
## [4963,]    1    0    0    0    0    0    0    0    0    0
## [4964,]    0    0    0    0    0    0    1    0    0    0
## [4965,]    0    0    0    0    0    0    0    1    0    0
## [4966,]    0    0    0    0    0    0    0    1    0    0
## [4967,]    0    0    0    1    0    0    0    0    0    0
## [4968,]    0    0    0    0    0    0    0    0    1    0
## [4969,]    0    0    0    0    0    0    0    0    0    1
## [4970,]    0    0    0    0    0    1    0    0    0    0
## [4971,]    0    1    0    0    0    0    0    0    0    0
## [4972,]    0    1    0    0    0    0    0    0    0    0
## [4973,]    0    1    0    0    0    0    0    0    0    0
## [4974,]    0    0    0    0    0    0    0    0    0    1
## [4975,]    0    0    0    0    0    1    0    0    0    0
## [4976,]    0    0    0    0    0    0    0    0    0    1
## [4977,]    0    1    0    0    0    0    0    0    0    0
## [4978,]    0    0    0    0    0    0    0    1    0    0
## [4979,]    0    1    0    0    0    0    0    0    0    0
## [4980,]    0    1    0    0    0    0    0    0    0    0
## [4981,]    0    0    0    0    0    0    1    0    0    0
## [4982,]    1    0    0    0    0    0    0    0    0    0
## [4983,]    0    0    0    0    0    0    0    0    1    0
## [4984,]    0    0    0    0    0    0    0    0    0    1
## [4985,]    0    0    0    0    0    0    0    1    0    0
## [4986,]    1    0    0    0    0    0    0    0    0    0
## [4987,]    0    0    1    0    0    0    0    0    0    0
## [4988,]    0    0    0    0    0    1    0    0    0    0
## [4989,]    0    0    0    1    0    0    0    0    0    0
## [4990,]    0    0    0    0    0    0    0    0    0    1
## [4991,]    0    0    0    0    0    0    1    0    0    0
## [4992,]    0    0    0    0    0    0    0    1    0    0
## [4993,]    0    0    0    0    0    0    0    0    1    0
## [4994,]    0    1    0    0    0    0    0    0    0    0
## [4995,]    1    0    0    0    0    0    0    0    0    0
## [4996,]    0    0    0    0    0    0    0    1    0    0
## [4997,]    0    0    0    1    0    0    0    0    0    0
## [4998,]    0    0    1    0    0    0    0    0    0    0
## [4999,]    0    1    0    0    0    0    0    0    0    0
## [5000,]    0    0    1    0    0    0    0    0    0    0
## [5001,]    0    0    0    0    0    0    0    1    0    0
## [5002,]    0    0    0    1    0    0    0    0    0    0
## [5003,]    0    0    0    0    1    0    0    0    0    0
## [5004,]    0    0    0    0    0    0    1    0    0    0
```

```
## [5005,]    0   1   0   0   0   0   0   0   0   0
## [5006,]    0   0   0   0   0   0   0   0   1   0
## [5007,]    0   1   0   0   0   0   0   0   0   0
## [5008,]    1   0   0   0   0   0   0   0   0   0
## [5009,]    0   0   0   0   0   0   0   0   0   1
## [5010,]    0   0   0   0   0   0   0   0   1   0
## [5011,]    1   0   0   0   0   0   0   0   0   0
## [5012,]    0   0   0   1   0   0   0   0   0   0
## [5013,]    0   1   0   0   0   0   0   0   0   0
## [5014,]    0   0   1   0   0   0   0   0   0   0
## [5015,]    0   0   0   0   0   0   0   1   0   0
## [5016,]    1   0   0   0   0   0   0   0   0   0
## [5017,]    0   0   1   0   0   0   0   0   0   0
## [5018,]    0   0   0   0   0   0   0   0   0   1
## [5019,]    0   0   0   0   0   0   1   0   0   0
## [5020,]    1   0   0   0   0   0   0   0   0   0
## [5021,]    0   1   0   0   0   0   0   0   0   0
## [5022,]    0   0   0   0   0   0   1   0   0   0
## [5023,]    0   0   0   0   0   0   0   1   0   0
## [5024,]    0   1   0   0   0   0   0   0   0   0
## [5025,]    0   0   0   0   0   0   0   0   0   1
## [5026,]    0   0   0   0   0   0   0   1   0   0
## [5027,]    0   0   0   0   0   0   1   0   0   0
## [5028,]    0   0   0   0   0   1   0   0   0   0
## [5029,]    0   0   0   0   0   1   0   0   0   0
## [5030,]    0   0   0   0   0   0   0   0   1   0
## [5031,]    0   0   0   0   0   0   0   0   1   0
## [5032,]    0   0   0   1   0   0   0   0   0   0
## [5033,]    0   0   0   0   1   0   0   0   0   0
## [5034,]    0   0   0   0   1   0   0   0   0   0
## [5035,]    0   0   0   0   0   0   0   0   1   0
## [5036,]    0   0   0   0   0   0   0   1   0   0
## [5037,]    0   0   0   1   0   0   0   0   0   0
## [5038,]    0   0   0   0   0   0   1   0   0   0
## [5039,]    0   0   0   0   1   0   0   0   0   0
## [5040,]    0   0   0   0   0   0   1   0   0   0
## [5041,]    0   0   0   0   0   0   1   0   0   0
## [5042,]    0   0   0   1   0   0   0   0   0   0
## [5043,]    0   0   0   0   0   0   0   0   1   0
## [5044,]    0   0   0   0   0   0   0   0   1   0
## [5045,]    0   0   0   0   0   0   0   0   0   1
## [5046,]    0   0   0   0   0   0   0   0   0   1
## [5047,]    0   0   0   0   1   0   0   0   0   0
## [5048,]    0   0   0   0   1   0   0   0   0   0
## [5049,]    1   0   0   0   0   0   0   0   0   0
## [5050,]    0   0   0   0   0   0   0   1   0   0
## [5051,]    0   0   0   0   0   0   0   0   1   0
## [5052,]    0   1   0   0   0   0   0   0   0   0
## [5053,]    1   0   0   0   0   0   0   0   0   0
## [5054,]    1   0   0   0   0   0   0   0   0   0
## [5055,]    0   1   0   0   0   0   0   0   0   0
## [5056,]    0   0   0   0   0   0   0   0   1   0
## [5057,]    0   0   0   0   0   1   0   0   0   0
## [5058,]    0   0   0   0   0   0   0   1   0   0
```

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```
## [5059,]    0    1    0    0    0    0    0    0    0    0
## [5060,]    0    0    0    0    0    0    0    1    0    0
## [5061,]    0    0    0    0    0    1    0    0    0    0
## [5062,]    0    0    0    0    0    1    0    0    0    0
## [5063,]    0    0    0    0    0    0    0    0    0    1
## [5064,]    0    0    0    0    0    0    0    0    0    1
## [5065,]    0    0    0    0    1    0    0    0    0    0
## [5066,]    0    0    1    0    0    0    0    0    0    0
## [5067,]    0    0    0    0    0    1    0    0    0    0
## [5068,]    0    0    0    1    0    0    0    0    0    0
## [5069,]    0    0    0    0    0    0    0    1    0    0
## [5070,]    0    0    0    0    1    0    0    0    0    0
## [5071,]    0    0    0    0    0    0    1    0    0    0
## [5072,]    0    0    0    0    0    0    1    0    0    0
## [5073,]    1    0    0    0    0    0    0    0    0    0
## [5074,]    0    1    0    0    0    0    0    0    0    0
## [5075,]    1    0    0    0    0    0    0    0    0    0
## [5076,]    0    1    0    0    0    0    0    0    0    0
## [5077,]    0    0    1    0    0    0    0    0    0    0
## [5078,]    0    0    0    0    1    0    0    0    0    0
## [5079,]    0    0    0    0    0    0    0    0    1    0
## [5080,]    0    0    0    0    0    1    0    0    0    0
## [5081,]    0    0    0    1    0    0    0    0    0    0
## [5082,]    0    0    0    0    0    1    0    0    0    0
## [5083,]    1    0    0    0    0    0    0    0    0    0
## [5084,]    1    0    0    0    0    0    0    0    0    0
## [5085,]    0    0    0    0    0    0    1    0    0    0
## [5086,]    0    0    0    0    1    0    0    0    0    0
## [5087,]    0    0    0    1    0    0    0    0    0    0
## [5088,]    0    0    0    0    0    0    0    0    1    0
## [5089,]    0    0    0    1    0    0    0    0    0    0
## [5090,]    0    0    0    0    0    0    0    1    0    0
## [5091,]    0    1    0    0    0    0    0    0    0    0
## [5092,]    0    0    0    0    1    0    0    0    0    0
## [5093,]    0    0    0    1    0    0    0    0    0    0
## [5094,]    0    0    0    0    0    0    0    0    0    1
## [5095,]    0    0    1    0    0    0    0    0    0    0
## [5096,]    0    0    1    0    0    0    0    0    0    0
## [5097,]    1    0    0    0    0    0    0    0    0    0
## [5098,]    0    0    0    1    0    0    0    0    0    0
## [5099,]    0    0    0    0    0    0    1    0    0    0
## [5100,]    0    0    0    0    0    0    1    0    0    0
## [5101,]    0    0    0    0    0    0    0    1    0    0
## [5102,]    0    0    0    0    1    0    0    0    0    0
## [5103,]    0    0    0    1    0    0    0    0    0    0
## [5104,]    0    0    1    0    0    0    0    0    0    0
## [5105,]    0    0    1    0    0    0    0    0    0    0
## [5106,]    0    0    0    0    1    0    0    0    0    0
## [5107,]    0    0    0    0    0    0    0    0    0    1
## [5108,]    0    1    0    0    0    0    0    0    0    0
## [5109,]    1    0    0    0    0    0    0    0    0    0
## [5110,]    0    0    0    0    0    1    0    0    0    0
## [5111,]    0    0    1    0    0    0    0    0    0    0
## [5112,]    0    0    0    0    1    0    0    0    0    0
```

```
## [5113,]     0    0    0    0    0    0    0    0    1    0
## [5114,]     0    0    1    0    0    0    0    0    0    0
## [5115,]     0    1    0    0    0    0    0    0    0    0
## [5116,]     1    0    0    0    0    0    0    0    0    0
## [5117,]     0    0    0    0    0    0    0    0    1    0
## [5118,]     0    0    0    0    1    0    0    0    0    0
## [5119,]     0    0    0    0    1    0    0    0    0    0
## [5120,]     0    0    0    0    0    0    0    0    1    0
## [5121,]     1    0    0    0    0    0    0    0    0    0
## [5122,]     0    0    0    0    0    0    1    0    0    0
## [5123,]     0    0    0    0    1    0    0    0    0    0
## [5124,]     0    1    0    0    0    0    0    0    0    0
## [5125,]     0    0    0    0    1    0    0    0    0    0
## [5126,]     0    0    0    0    0    0    0    0    0    1
## [5127,]     0    0    0    0    0    0    1    0    0    0
## [5128,]     0    0    0    1    0    0    0    0    0    0
## [5129,]     0    1    0    0    0    0    0    0    0    0
## [5130,]     0    0    1    0    0    0    0    0    0    0
## [5131,]     0    0    0    0    0    0    0    0    0    1
## [5132,]     1    0    0    0    0    0    0    0    0    0
## [5133,]     0    1    0    0    0    0    0    0    0    0
## [5134,]     1    0    0    0    0    0    0    0    0    0
## [5135,]     0    0    0    0    1    0    0    0    0    0
## [5136,]     0    0    1    0    0    0    0    0    0    0
## [5137,]     0    0    0    0    0    0    0    0    0    1
## [5138,]     0    0    0    0    0    0    0    0    0    1
## [5139,]     0    0    0    0    1    0    0    0    0    0
## [5140,]     0    0    0    1    0    0    0    0    0    0
## [5141,]     0    0    0    0    0    0    0    0    1    0
## [5142,]     0    0    0    0    0    0    1    0    0    0
## [5143,]     0    0    0    0    0    0    0    0    0    1
## [5144,]     0    0    0    1    0    0    0    0    0    0
## [5145,]     1    0    0    0    0    0    0    0    0    0
## [5146,]     0    0    0    0    0    0    1    0    0    0
## [5147,]     0    0    0    0    0    0    0    1    0    0
## [5148,]     1    0    0    0    0    0    0    0    0    0
## [5149,]     0    0    0    1    0    0    0    0    0    0
## [5150,]     0    1    0    0    0    0    0    0    0    0
## [5151,]     0    0    0    0    1    0    0    0    0    0
## [5152,]     0    0    1    0    0    0    0    0    0    0
## [5153,]     0    0    0    1    0    0    0    0    0    0
## [5154,]     0    0    0    1    0    0    0    0    0    0
## [5155,]     1    0    0    0    0    0    0    0    0    0
## [5156,]     0    0    0    0    1    0    0    0    0    0
## [5157,]     0    0    1    0    0    0    0    0    0    0
## [5158,]     0    0    0    0    0    1    0    0    0    0
## [5159,]     0    0    0    0    0    1    0    0    0    0
## [5160,]     0    0    0    0    0    0    1    0    0    0
## [5161,]     0    0    0    1    0    0    0    0    0    0
## [5162,]     0    0    0    0    0    0    0    1    0    0
## [5163,]     0    0    1    0    0    0    0    0    0    0
## [5164,]     0    0    0    0    0    0    0    0    1    0
## [5165,]     0    0    0    0    0    1    0    0    0    0
## [5166,]     0    0    0    0    0    0    0    0    0    1
```

```
## [5167,]    0    0    1    0    0    0    0    0    0    0
## [5168,]    1    0    0    0    0    0    0    0    0    0
## [5169,]    0    1    0    0    0    0    0    0    0    0
## [5170,]    0    1    0    0    0    0    0    0    0    0
## [5171,]    0    0    0    0    0    0    0    0    1    0
## [5172,]    0    0    1    0    0    0    0    0    0    0
## [5173,]    0    0    0    0    0    0    0    0    0    1
## [5174,]    0    0    0    1    0    0    0    0    0    0
## [5175,]    0    1    0    0    0    0    0    0    0    0
## [5176,]    0    0    0    0    1    0    0    0    0    0
## [5177,]    0    1    0    0    0    0    0    0    0    0
## [5178,]    0    0    0    0    0    1    0    0    0    0
## [5179,]    0    0    0    0    0    0    0    1    0    0
## [5180,]    0    0    0    0    0    0    1    0    0    0
## [5181,]    0    0    0    0    1    0    0    0    0    0
## [5182,]    0    0    0    0    0    0    0    1    0    0
## [5183,]    0    0    0    0    0    0    0    1    0    0
## [5184,]    0    0    0    0    0    0    0    0    1    0
## [5185,]    0    0    0    1    0    0    0    0    0    0
## [5186,]    0    0    0    0    0    0    0    0    0    1
## [5187,]    0    0    0    1    0    0    0    0    0    0
## [5188,]    1    0    0    0    0    0    0    0    0    0
## [5189,]    0    0    0    0    0    1    0    0    0    0
## [5190,]    0    1    0    0    0    0    0    0    0    0
## [5191,]    0    0    0    1    0    0    0    0    0    0
## [5192,]    0    0    1    0    0    0    0    0    0    0
## [5193,]    1    0    0    0    0    0    0    0    0    0
## [5194,]    0    0    0    1    0    0    0    0    0    0
## [5195,]    1    0    0    0    0    0    0    0    0    0
## [5196,]    0    0    0    0    1    0    0    0    0    0
## [5197,]    1    0    0    0    0    0    0    0    0    0
## [5198,]    0    0    0    0    0    0    0    1    0    0
## [5199,]    0    0    0    0    1    0    0    0    0    0
## [5200,]    0    0    0    0    0    0    0    0    1    0
## [5201,]    0    0    0    0    0    0    0    0    1    0
## [5202,]    0    0    0    0    0    0    0    0    0    1
## [5203,]    1    0    0    0    0    0    0    0    0    0
## [5204,]    1    0    0    0    0    0    0    0    0    0
## [5205,]    0    1    0    0    0    0    0    0    0    0
## [5206,]    0    0    0    0    0    0    0    0    1    0
## [5207,]    0    0    0    0    0    0    0    1    0    0
## [5208,]    0    0    0    1    0    0    0    0    0    0
## [5209,]    0    0    0    0    0    0    0    0    0    1
## [5210,]    0    0    0    0    0    0    0    0    0    1
## [5211,]    0    0    0    0    0    1    0    0    0    0
## [5212,]    0    0    0    0    0    1    0    0    0    0
## [5213,]    0    0    0    0    0    0    0    0    0    1
## [5214,]    0    0    0    0    0    0    1    0    0    0
## [5215,]    0    0    0    0    0    0    0    1    0    0
## [5216,]    0    0    0    0    0    0    0    0    1    0
## [5217,]    0    0    1    0    0    0    0    0    0    0
## [5218,]    0    0    0    0    1    0    0    0    0    0
## [5219,]    0    0    0    0    0    0    1    0    0    0
## [5220,]    0    0    0    0    0    0    0    0    0    1
```

```
## [5221,]     0     0     0     0     0     0     0     0     1     0
## [5222,]     0     1     0     0     0     0     0     0     0     0
## [5223,]     0     0     0     0     0     0     1     0     0     0
## [5224,]     0     0     0     0     0     0     0     1     0     0
## [5225,]     0     0     0     0     0     0     0     0     0     1
## [5226,]     0     1     0     0     0     0     0     0     0     0
## [5227,]     0     0     0     0     0     0     1     0     0     0
## [5228,]     0     0     1     0     0     0     0     0     0     0
## [5229,]     1     0     0     0     0     0     0     0     0     0
## [5230,]     0     0     0     0     0     0     0     0     0     1
## [5231,]     0     0     0     0     0     0     1     0     0     0
## [5232,]     0     0     0     0     0     0     1     0     0     0
## [5233,]     0     0     1     0     0     0     0     0     0     0
## [5234,]     0     0     0     0     0     0     0     0     0     1
## [5235,]     0     1     0     0     0     0     0     0     0     0
## [5236,]     0     1     0     0     0     0     0     0     0     0
## [5237,]     0     0     1     0     0     0     0     0     0     0
## [5238,]     0     1     0     0     0     0     0     0     0     0
## [5239,]     0     0     0     1     0     0     0     0     0     0
## [5240,]     0     1     0     0     0     0     0     0     0     0
## [5241,]     0     0     0     0     0     1     0     0     0     0
## [5242,]     0     0     1     0     0     0     0     0     0     0
## [5243,]     0     0     0     0     0     0     0     1     0     0
## [5244,]     0     0     0     0     0     0     0     0     1     0
## [5245,]     1     0     0     0     0     0     0     0     0     0
## [5246,]     0     1     0     0     0     0     0     0     0     0
## [5247,]     1     0     0     0     0     0     0     0     0     0
## [5248,]     0     0     1     0     0     0     0     0     0     0
## [5249,]     0     0     0     0     0     0     0     0     1     0
## [5250,]     1     0     0     0     0     0     0     0     0     0
## [5251,]     0     0     1     0     0     0     0     0     0     0
## [5252,]     0     0     0     0     0     0     0     1     0     0
## [5253,]     0     0     0     1     0     0     0     0     0     0
## [5254,]     0     0     0     0     0     0     0     1     0     0
## [5255,]     0     0     0     0     0     1     0     0     0     0
## [5256,]     0     0     0     0     0     1     0     0     0     0
## [5257,]     0     1     0     0     0     0     0     0     0     0
## [5258,]     0     0     0     0     0     0     0     0     1     0
## [5259,]     0     0     1     0     0     0     0     0     0     0
## [5260,]     0     0     1     0     0     0     0     0     0     0
## [5261,]     0     0     0     0     0     0     1     0     0     0
## [5262,]     0     0     0     0     0     0     0     0     0     1
## [5263,]     0     1     0     0     0     0     0     0     0     0
## [5264,]     0     0     0     0     0     0     0     0     1     0
## [5265,]     0     0     0     0     0     0     0     1     0     0
## [5266,]     0     0     0     0     1     0     0     0     0     0
## [5267,]     1     0     0     0     0     0     0     0     0     0
## [5268,]     0     0     0     0     0     0     1     0     0     0
## [5269,]     1     0     0     0     0     0     0     0     0     0
## [5270,]     0     0     0     0     0     0     0     1     0     0
## [5271,]     0     0     0     1     0     0     0     0     0     0
## [5272,]     0     1     0     0     0     0     0     0     0     0
## [5273,]     1     0     0     0     0     0     0     0     0     0
## [5274,]     0     0     0     0     0     0     1     0     0     0
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```
## [5275,]      0    0    0    0    0    0    1    0    0    0
## [5276,]      1    0    0    0    0    0    0    0    0    0
## [5277,]      0    0    0    0    0    0    0    0    0    1
## [5278,]      0    0    0    1    0    0    0    0    0    0
## [5279,]      0    0    0    0    1    0    0    0    0    0
## [5280,]      0    0    0    0    0    0    1    0    0    0
## [5281,]      0    0    0    0    0    0    0    1    0    0
## [5282,]      0    0    0    0    0    0    0    0    1    0
## [5283,]      0    0    0    0    0    0    0    0    0    1
## [5284,]      0    0    0    0    0    0    0    1    0    0
## [5285,]      0    0    0    1    0    0    0    0    0    0
## [5286,]      1    0    0    0    0    0    0    0    0    0
## [5287,]      1    0    0    0    0    0    0    0    0    0
## [5288,]      0    0    0    0    1    0    0    0    0    0
## [5289,]      1    0    0    0    0    0    0    0    0    0
## [5290,]      0    0    1    0    0    0    0    0    0    0
## [5291,]      0    0    0    0    0    0    1    0    0    0
## [5292,]      0    0    0    0    0    0    0    1    0    0
## [5293,]      0    0    0    0    0    1    0    0    0    0
## [5294,]      0    0    0    0    1    0    0    0    0    0
## [5295,]      0    0    0    0    0    0    1    0    0    0
## [5296,]      0    0    0    0    1    0    0    0    0    0
## [5297,]      0    0    0    0    0    0    0    0    1    0
## [5298,]      0    0    1    0    0    0    0    0    0    0
## [5299,]      1    0    0    0    0    0    0    0    0    0
## [5300,]      0    0    0    0    0    0    0    0    1    0
## [5301,]      0    0    0    0    0    0    0    1    0    0
## [5302,]      0    1    0    0    0    0    0    0    0    0
## [5303,]      0    0    0    0    0    0    0    1    0    0
## [5304,]      0    0    0    0    0    1    0    0    0    0
## [5305,]      0    1    0    0    0    0    0    0    0    0
## [5306,]      0    1    0    0    0    0    0    0    0    0
## [5307,]      0    0    1    0    0    0    0    0    0    0
## [5308,]      0    0    1    0    0    0    0    0    0    0
## [5309,]      0    0    0    0    0    0    0    1    0    0
## [5310,]      0    0    0    0    0    1    0    0    0    0
## [5311,]      0    0    0    0    0    0    1    0    0    0
## [5312,]      0    0    0    0    0    0    1    0    0    0
## [5313,]      0    0    0    0    0    0    0    1    0    0
## [5314,]      0    0    0    0    1    0    0    0    0    0
## [5315,]      0    0    1    0    0    0    0    0    0    0
## [5316,]      0    0    0    1    0    0    0    0    0    0
## [5317,]      0    0    0    0    0    0    0    0    0    1
## [5318,]      1    0    0    0    0    0    0    0    0    0
## [5319,]      0    0    1    0    0    0    0    0    0    0
## [5320,]      1    0    0    0    0    0    0    0    0    0
## [5321,]      0    0    0    0    0    0    0    0    0    1
## [5322,]      1    0    0    0    0    0    0    0    0    0
## [5323,]      0    0    0    0    1    0    0    0    0    0
## [5324,]      0    0    0    1    0    0    0    0    0    0
## [5325,]      0    0    0    0    1    0    0    0    0    0
## [5326,]      0    0    0    0    0    0    0    1    0    0
## [5327,]      0    0    0    0    0    0    0    1    0    0
## [5328,]      1    0    0    0    0    0    0    0    0    0
```

```
## [5329,]      0    0    0    1    0    0    0    0    0    0
## [5330,]      0    0    0    0    0    0    1    0    0    0
## [5331,]      1    0    0    0    0    0    0    0    0    0
## [5332,]      0    0    0    0    1    0    0    0    0    0
## [5333,]      0    0    0    1    0    0    0    0    0    0
## [5334,]      0    0    0    0    0    0    0    0    1    0
## [5335,]      0    0    0    0    0    0    1    0    0    0
## [5336,]      0    0    0    0    0    0    0    0    1    0
## [5337,]      0    1    0    0    0    0    0    0    0    0
## [5338,]      0    0    0    1    0    0    0    0    0    0
## [5339,]      0    0    0    0    0    0    0    0    1    0
## [5340,]      0    0    0    0    0    0    0    0    0    1
## [5341,]      1    0    0    0    0    0    0    0    0    0
## [5342,]      0    0    0    0    0    0    0    0    0    1
## [5343,]      1    0    0    0    0    0    0    0    0    0
## [5344,]      0    0    0    0    0    0    0    0    1    0
## [5345,]      1    0    0    0    0    0    0    0    0    0
## [5346,]      0    0    1    0    0    0    0    0    0    0
## [5347,]      0    0    0    0    0    0    0    0    1    0
## [5348,]      0    0    0    0    0    0    0    1    0    0
## [5349,]      0    0    0    0    0    0    0    0    1    0
## [5350,]      0    0    0    0    0    0    0    1    0    0
## [5351,]      0    0    0    0    0    0    0    0    0    1
## [5352,]      0    1    0    0    0    0    0    0    0    0
## [5353,]      0    0    0    0    0    0    0    1    0    0
## [5354,]      1    0    0    0    0    0    0    0    0    0
## [5355,]      0    0    0    1    0    0    0    0    0    0
## [5356,]      0    1    0    0    0    0    0    0    0    0
## [5357,]      0    0    0    0    1    0    0    0    0    0
## [5358,]      0    0    1    0    0    0    0    0    0    0
## [5359,]      0    0    0    1    0    0    0    0    0    0
## [5360,]      0    0    0    1    0    0    0    0    0    0
## [5361,]      0    0    0    0    0    0    0    0    1    0
## [5362,]      0    0    0    0    1    0    0    0    0    0
## [5363,]      0    0    0    0    0    0    0    0    0    1
## [5364,]      0    0    0    0    0    1    0    0    0    0
## [5365,]      0    0    0    0    0    0    1    0    0    0
## [5366,]      0    0    0    0    0    0    1    0    0    0
## [5367,]      0    0    0    0    1    0    0    0    0    0
## [5368,]      0    0    0    0    0    0    0    1    0    0
## [5369,]      1    0    0    0    0    0    0    0    0    0
## [5370,]      0    0    0    0    0    0    0    0    1    0
## [5371,]      0    0    0    1    0    0    0    0    0    0
## [5372,]      0    0    0    0    0    0    0    0    0    1
## [5373,]      0    0    0    0    0    0    0    0    1    0
## [5374,]      1    0    0    0    0    0    0    0    0    0
## [5375,]      0    0    0    0    0    0    1    0    0    0
## [5376,]      0    1    0    0    0    0    0    0    0    0
## [5377,]      0    0    0    0    0    0    0    0    1    0
## [5378,]      0    0    1    0    0    0    0    0    0    0
## [5379,]      0    0    0    0    0    1    0    0    0    0
## [5380,]      0    0    0    1    0    0    0    0    0    0
## [5381,]      0    0    1    0    0    0    0    0    0    0
## [5382,]      0    0    0    0    1    0    0    0    0    0
```

```
## [5383,]      0   0   0   0   0   1   0   0   0   0
## [5384,]      0   0   0   0   0   1   0   0   0   0
## [5385,]      0   0   0   0   0   0   1   0   0   0
## [5386,]      0   0   0   0   0   0   1   0   0   0
## [5387,]      0   0   0   0   0   0   0   0   0   1
## [5388,]      0   0   0   0   0   0   0   1   0   0
## [5389,]      0   0   0   1   0   0   0   0   0   0
## [5390,]      0   0   0   0   0   0   0   0   1   0
## [5391,]      0   0   0   0   0   0   0   0   0   1
## [5392,]      0   0   0   0   0   0   0   0   0   1
## [5393,]      0   0   0   1   0   0   0   0   0   0
## [5394,]      1   0   0   0   0   0   0   0   0   0
## [5395,]      0   0   0   0   0   0   0   0   1   0
## [5396,]      0   1   0   0   0   0   0   0   0   0
## [5397,]      0   0   0   1   0   0   0   0   0   0
## [5398,]      0   0   1   0   0   0   0   0   0   0
## [5399,]      1   0   0   0   0   0   0   0   0   0
## [5400,]      0   0   0   1   0   0   0   0   0   0
## [5401,]      0   0   1   0   0   0   0   0   0   0
## [5402,]      0   0   0   0   1   0   0   0   0   0
## [5403,]      0   0   0   0   0   0   0   0   0   1
## [5404,]      0   0   0   0   0   1   0   0   0   0
## [5405,]      0   0   0   0   0   0   0   0   0   1
## [5406,]      0   0   0   0   0   0   1   0   0   0
## [5407,]      0   0   0   0   1   0   0   0   0   0
## [5408,]      0   0   0   0   0   0   0   1   0   0
## [5409,]      0   0   0   1   0   0   0   0   0   0
## [5410,]      0   0   0   0   0   0   0   0   1   0
## [5411,]      0   0   0   0   1   0   0   0   0   0
## [5412,]      0   0   0   0   0   0   0   0   0   1
## [5413,]      0   0   0   1   0   0   0   0   0   0
## [5414,]      0   0   0   0   0   0   1   0   0   0
## [5415,]      0   0   0   0   0   1   0   0   0   0
## [5416,]      0   0   1   0   0   0   0   0   0   0
## [5417,]      0   0   0   0   0   0   0   1   0   0
## [5418,]      0   0   0   0   0   1   0   0   0   0
## [5419,]      0   0   0   0   0   0   0   0   1   0
## [5420,]      0   0   0   0   0   0   1   0   0   0
## [5421,]      0   0   1   0   0   0   0   0   0   0
## [5422,]      0   0   1   0   0   0   0   0   0   0
## [5423,]      0   0   0   0   0   0   0   1   0   0
## [5424,]      0   0   0   0   0   1   0   0   0   0
## [5425,]      0   0   0   0   0   1   0   0   0   0
## [5426,]      0   1   0   0   0   0   0   0   0   0
## [5427,]      0   0   0   0   0   0   0   0   0   1
## [5428,]      0   0   0   0   0   0   0   1   0   0
## [5429,]      0   1   0   0   0   0   0   0   0   0
## [5430,]      0   1   0   0   0   0   0   0   0   0
## [5431,]      0   0   0   0   0   0   0   0   1   0
## [5432,]      0   0   0   0   0   0   0   0   1   0
## [5433,]      0   0   0   1   0   0   0   0   0   0
## [5434,]      0   0   0   1   0   0   0   0   0   0
## [5435,]      0   0   0   1   0   0   0   0   0   0
## [5436,]      0   0   0   0   0   0   0   0   1   0
```

```
## [5437,]    0    0    1    0    0    0    0    0    0    0
## [5438,]    0    0    0    0    0    0    0    1    0    0
## [5439,]    0    0    1    0    0    0    0    0    0    0
## [5440,]    0    1    0    0    0    0    0    0    0    0
## [5441,]    0    0    0    0    0    1    0    0    0    0
## [5442,]    0    0    0    0    0    0    0    1    0    0
## [5443,]    0    0    0    1    0    0    0    0    0    0
## [5444,]    0    1    0    0    0    0    0    0    0    0
## [5445,]    0    0    0    0    1    0    0    0    0    0
## [5446,]    0    0    0    0    1    0    0    0    0    0
## [5447,]    0    0    0    0    0    0    0    1    0    0
## [5448,]    0    0    0    0    0    0    0    1    0    0
## [5449,]    0    0    0    0    0    0    0    1    0    0
## [5450,]    0    0    1    0    0    0    0    0    0    0
## [5451,]    0    0    0    0    1    0    0    0    0    0
## [5452,]    0    0    0    0    0    0    1    0    0    0
## [5453,]    0    0    0    0    0    1    0    0    0    0
## [5454,]    0    0    0    0    0    1    0    0    0    0
## [5455,]    0    0    0    0    0    0    0    0    0    1
## [5456,]    0    0    0    1    0    0    0    0    0    0
## [5457,]    0    0    0    0    0    1    0    0    0    0
## [5458,]    0    0    0    0    0    0    0    0    0    1
## [5459,]    0    0    0    1    0    0    0    0    0    0
## [5460,]    0    0    0    0    0    0    0    0    0    1
## [5461,]    0    0    0    0    0    0    0    0    1    0
## [5462,]    1    0    0    0    0    0    0    0    0    0
## [5463,]    1    0    0    0    0    0    0    0    0    0
## [5464,]    0    0    0    0    0    0    0    0    1    0
## [5465,]    1    0    0    0    0    0    0    0    0    0
## [5466,]    0    0    0    0    0    0    0    1    0    0
## [5467,]    0    0    0    0    0    0    1    0    0    0
## [5468,]    0    0    0    1    0    0    0    0    0    0
## [5469,]    1    0    0    0    0    0    0    0    0    0
## [5470,]    1    0    0    0    0    0    0    0    0    0
## [5471,]    1    0    0    0    0    0    0    0    0    0
## [5472,]    0    0    0    1    0    0    0    0    0    0
## [5473,]    0    0    0    0    0    0    0    1    0    0
## [5474,]    0    0    0    0    0    0    0    1    0    0
## [5475,]    0    0    0    0    0    0    0    0    1    0
## [5476,]    1    0    0    0    0    0    0    0    0    0
## [5477,]    0    0    0    0    0    0    0    0    1    0
## [5478,]    0    1    0    0    0    0    0    0    0    0
## [5479,]    0    0    0    0    0    0    0    0    0    1
## [5480,]    0    1    0    0    0    0    0    0    0    0
## [5481,]    0    0    1    0    0    0    0    0    0    0
## [5482,]    0    0    1    0    0    0    0    0    0    0
## [5483,]    0    0    0    0    1    0    0    0    0    0
## [5484,]    0    1    0    0    0    0    0    0    0    0
## [5485,]    0    1    0    0    0    0    0    0    0    0
## [5486,]    0    0    0    0    0    0    1    0    0    0
## [5487,]    0    0    0    0    0    0    1    0    0    0
## [5488,]    1    0    0    0    0    0    0    0    0    0
## [5489,]    1    0    0    0    0    0    0    0    0    0
## [5490,]    0    0    0    0    0    1    0    0    0    0
```

```
## [5491,]    0    0    0    0    1    0    0    0    0    0
## [5492,]    0    0    0    1    0    0    0    0    0    0
## [5493,]    0    0    0    0    0    0    0    0    0    1
## [5494,]    0    0    0    1    0    0    0    0    0    0
## [5495,]    0    1    0    0    0    0    0    0    0    0
## [5496,]    0    0    0    0    0    0    1    0    0    0
## [5497,]    0    0    0    0    0    0    0    1    0    0
## [5498,]    0    0    0    1    0    0    0    0    0    0
## [5499,]    1    0    0    0    0    0    0    0    0    0
## [5500,]    0    0    0    0    0    1    0    0    0    0
## [5501,]    0    1    0    0    0    0    0    0    0    0
## [5502,]    0    0    0    0    0    0    0    0    0    1
## [5503,]    1    0    0    0    0    0    0    0    0    0
## [5504,]    0    0    0    0    0    0    0    0    0    1
## [5505,]    0    0    0    0    0    0    0    1    0    0
## [5506,]    1    0    0    0    0    0    0    0    0    0
## [5507,]    0    0    0    0    0    1    0    0    0    0
## [5508,]    0    1    0    0    0    0    0    0    0    0
## [5509,]    0    0    1    0    0    0    0    0    0    0
## [5510,]    0    0    1    0    0    0    0    0    0    0
## [5511,]    0    0    0    1    0    0    0    0    0    0
## [5512,]    0    0    0    1    0    0    0    0    0    0
## [5513,]    1    0    0    0    0    0    0    0    0    0
## [5514,]    0    0    0    0    1    0    0    0    0    0
## [5515,]    1    0    0    0    0    0    0    0    0    0
## [5516,]    0    0    0    0    0    1    0    0    0    0
## [5517,]    0    1    0    0    0    0    0    0    0    0
## [5518,]    0    0    0    0    0    0    1    0    0    0
## [5519,]    0    0    0    0    0    0    0    0    0    1
## [5520,]    0    0    0    0    0    0    0    1    0    0
## [5521,]    0    1    0    0    0    0    0    0    0    0
## [5522,]    0    0    0    0    0    0    0    0    1    0
## [5523,]    0    0    0    0    0    0    0    0    0    1
## [5524,]    0    0    0    0    0    0    0    0    0    1
## [5525,]    0    0    0    0    0    0    1    0    0    0
## [5526,]    1    0    0    0    0    0    0    0    0    0
## [5527,]    0    0    0    0    0    1    0    0    0    0
## [5528,]    0    1    0    0    0    0    0    0    0    0
## [5529,]    0    0    1    0    0    0    0    0    0    0
## [5530,]    0    0    1    0    0    0    0    0    0    0
## [5531,]    0    1    0    0    0    0    0    0    0    0
## [5532,]    0    0    0    1    0    0    0    0    0    0
## [5533,]    0    0    0    0    0    0    0    0    0    1
## [5534,]    0    0    0    0    1    0    0    0    0    0
## [5535,]    0    0    0    0    0    0    0    0    1    0
## [5536,]    0    0    0    0    0    0    0    1    0    0
## [5537,]    0    0    0    0    0    0    0    0    1    0
## [5538,]    0    0    0    0    0    0    0    0    1    0
## [5539,]    0    0    0    0    0    0    0    0    0    1
## [5540,]    0    0    0    0    0    0    0    0    0    1
## [5541,]    0    0    0    0    0    0    0    1    0    0
## [5542,]    1    0    0    0    0    0    0    0    0    0
## [5543,]    0    0    0    1    0    0    0    0    0    0
## [5544,]    0    1    0    0    0    0    0    0    0    0
```

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```
## [5545,]    0    0    0    0    0    0    0    0    0    1
## [5546,]    0    0    1    0    0    0    0    0    0    0
## [5547,]    0    0    0    0    0    0    0    1    0    0
## [5548,]    0    0    0    1    0    0    0    0    0    0
## [5549,]    0    0    0    0    0    0    0    0    1    0
## [5550,]    0    0    0    0    1    0    0    0    0    0
## [5551,]    0    0    0    0    0    1    0    0    0    0
## [5552,]    0    0    0    0    0    1    0    0    0    0
## [5553,]    0    1    0    0    0    0    0    0    0    0
## [5554,]    0    0    0    0    0    0    1    0    0    0
## [5555,]    0    0    0    0    0    0    1    0    0    0
## [5556,]    0    0    0    0    0    0    0    1    0    0
## [5557,]    0    0    0    0    0    0    1    0    0    0
## [5558,]    0    0    0    0    0    0    0    0    1    0
## [5559,]    0    0    0    0    0    0    0    0    0    1
## [5560,]    0    0    0    0    0    0    0    0    0    1
## [5561,]    1    0    0    0    0    0    0    0    0    0
## [5562,]    0    0    0    0    0    0    1    0    0    0
## [5563,]    0    0    0    1    0    0    0    0    0    0
## [5564,]    1    0    0    0    0    0    0    0    0    0
## [5565,]    0    0    0    0    0    0    0    1    0    0
## [5566,]    0    0    0    0    0    0    0    1    0    0
## [5567,]    0    0    0    0    0    0    1    0    0    0
## [5568,]    0    0    0    1    0    0    0    0    0    0
## [5569,]    0    0    0    0    0    0    0    1    0    0
## [5570,]    0    0    0    0    0    0    0    1    0    0
## [5571,]    0    1    0    0    0    0    0    0    0    0
## [5572,]    0    1    0    0    0    0    0    0    0    0
## [5573,]    0    0    0    0    0    0    0    0    0    1
## [5574,]    0    0    0    1    0    0    0    0    0    0
## [5575,]    0    0    0    0    0    0    0    0    1    0
## [5576,]    0    0    0    0    0    0    0    1    0    0
## [5577,]    0    0    0    0    0    0    1    0    0    0
## [5578,]    0    0    0    0    0    0    0    0    0    1
## [5579,]    0    0    0    1    0    0    0    0    0    0
## [5580,]    0    0    0    0    0    0    0    1    0    0
## [5581,]    0    0    0    0    1    0    0    0    0    0
## [5582,]    0    0    0    0    1    0    0    0    0    0
## [5583,]    0    1    0    0    0    0    0    0    0    0
## [5584,]    1    0    0    0    0    0    0    0    0    0
## [5585,]    0    0    0    0    0    0    0    1    0    0
## [5586,]    1    0    0    0    0    0    0    0    0    0
## [5587,]    0    0    0    0    0    0    1    0    0    0
## [5588,]    0    0    0    0    0    0    1    0    0    0
## [5589,]    0    0    0    1    0    0    0    0    0    0
## [5590,]    0    0    0    0    0    0    0    0    0    1
## [5591,]    0    0    0    0    1    0    0    0    0    0
## [5592,]    0    0    0    0    0    1    0    0    0    0
## [5593,]    0    0    0    0    0    0    0    0    0    1
## [5594,]    0    0    0    0    0    0    1    0    0    0
## [5595,]    0    0    0    0    0    0    0    0    1    0
## [5596,]    0    0    0    0    0    0    0    0    0    1
## [5597,]    0    0    0    0    0    0    0    1    0    0
## [5598,]    0    0    0    0    0    0    0    0    1    0
```

```
## [5599,]    0    0    0    0    0    1    0    0    0    0
## [5600,]    0    0    0    0    0    1    0    0    0    0
## [5601,]    0    0    0    0    0    0    1    0    0    0
## [5602,]    0    1    0    0    0    0    0    0    0    0
## [5603,]    0    0    1    0    0    0    0    0    0    0
## [5604,]    0    0    0    0    0    1    0    0    0    0
## [5605,]    1    0    0    0    0    0    0    0    0    0
## [5606,]    0    0    0    1    0    0    0    0    0    0
## [5607,]    0    0    0    0    0    1    0    0    0    0
## [5608,]    0    0    0    0    0    0    0    0    0    1
## [5609,]    1    0    0    0    0    0    0    0    0    0
## [5610,]    0    0    0    0    0    0    0    0    1    0
## [5611,]    0    1    0    0    0    0    0    0    0    0
## [5612,]    0    0    0    1    0    0    0    0    0    0
## [5613,]    1    0    0    0    0    0    0    0    0    0
## [5614,]    0    0    0    0    1    0    0    0    0    0
## [5615,]    0    0    0    0    0    0    0    0    0    1
## [5616,]    1    0    0    0    0    0    0    0    0    0
## [5617,]    0    0    0    1    0    0    0    0    0    0
## [5618,]    0    0    0    0    0    1    0    0    0    0
## [5619,]    0    0    1    0    0    0    0    0    0    0
## [5620,]    0    0    0    0    0    0    1    0    0    0
## [5621,]    0    0    0    0    0    1    0    0    0    0
## [5622,]    0    0    0    1    0    0    0    0    0    0
## [5623,]    1    0    0    0    0    0    0    0    0    0
## [5624,]    0    0    0    0    1    0    0    0    0    0
## [5625,]    0    0    1    0    0    0    0    0    0    0
## [5626,]    0    0    0    0    0    0    0    0    1    0
## [5627,]    0    0    0    0    0    0    0    1    0    0
## [5628,]    1    0    0    0    0    0    0    0    0    0
## [5629,]    0    0    0    0    0    0    0    0    1    0
## [5630,]    0    0    0    0    0    0    1    0    0    0
## [5631,]    0    1    0    0    0    0    0    0    0    0
## [5632,]    0    0    0    0    1    0    0    0    0    0
## [5633,]    0    0    0    0    0    0    1    0    0    0
## [5634,]    0    0    0    0    0    0    0    0    1    0
## [5635,]    0    0    0    0    0    0    1    0    0    0
## [5636,]    0    1    0    0    0    0    0    0    0    0
## [5637,]    0    0    0    0    1    0    0    0    0    0
## [5638,]    0    0    0    1    0    0    0    0    0    0
## [5639,]    0    0    1    0    0    0    0    0    0    0
## [5640,]    0    0    0    0    1    0    0    0    0    0
## [5641,]    0    0    0    1    0    0    0    0    0    0
## [5642,]    1    0    0    0    0    0    0    0    0    0
## [5643,]    0    0    0    1    0    0    0    0    0    0
## [5644,]    0    1    0    0    0    0    0    0    0    0
## [5645,]    0    1    0    0    0    0    0    0    0    0
## [5646,]    0    0    0    0    0    0    0    0    0    1
## [5647,]    1    0    0    0    0    0    0    0    0    0
## [5648,]    0    0    1    0    0    0    0    0    0    0
## [5649,]    0    1    0    0    0    0    0    0    0    0
## [5650,]    0    0    0    1    0    0    0    0    0    0
## [5651,]    0    0    0    0    0    0    0    1    0    0
## [5652,]    0    0    0    0    0    0    0    1    0    0
```

```
## [5653,]    0    0    0    0    0    0    0    1    0    0
## [5654,]    0    0    0    0    0    1    0    0    0    0
## [5655,]    0    0    0    0    0    0    1    0    0    0
## [5656,]    0    1    0    0    0    0    0    0    0    0
## [5657,]    0    0    1    0    0    0    0    0    0    0
## [5658,]    0    0    0    0    0    0    0    1    0    0
## [5659,]    0    0    0    0    0    0    0    0    0    1
## [5660,]    0    0    1    0    0    0    0    0    0    0
## [5661,]    0    0    0    1    0    0    0    0    0    0
## [5662,]    0    0    0    0    0    0    0    0    1    0
## [5663,]    1    0    0    0    0    0    0    0    0    0
## [5664,]    0    0    0    0    0    0    0    1    0    0
## [5665,]    0    0    0    0    0    0    0    0    0    1
## [5666,]    1    0    0    0    0    0    0    0    0    0
## [5667,]    0    0    0    0    0    1    0    0    0    0
## [5668,]    0    1    0    0    0    0    0    0    0    0
## [5669,]    0    0    0    0    0    1    0    0    0    0
## [5670,]    0    0    0    0    0    0    0    0    0    1
## [5671,]    0    0    0    0    0    0    0    0    1    0
## [5672,]    0    0    0    0    0    0    1    0    0    0
## [5673,]    0    0    0    0    0    0    0    0    0    1
## [5674,]    0    0    0    0    1    0    0    0    0    0
## [5675,]    1    0    0    0    0    0    0    0    0    0
## [5676,]    0    1    0    0    0    0    0    0    0    0
## [5677,]    0    0    0    0    0    0    0    1    0    0
## [5678,]    0    0    1    0    0    0    0    0    0    0
## [5679,]    0    0    0    0    0    1    0    0    0    0
## [5680,]    0    0    0    1    0    0    0    0    0    0
## [5681,]    0    0    0    0    0    0    0    0    1    0
## [5682,]    0    1    0    0    0    0    0    0    0    0
## [5683,]    0    0    0    0    0    0    1    0    0    0
## [5684,]    0    0    0    1    0    0    0    0    0    0
## [5685,]    0    0    0    0    0    0    1    0    0    0
## [5686,]    0    0    0    0    0    1    0    0    0    0
## [5687,]    0    0    0    0    0    0    1    0    0    0
## [5688,]    0    0    0    1    0    0    0    0    0    0
## [5689,]    0    0    0    0    0    1    0    0    0    0
## [5690,]    0    0    0    0    1    0    0    0    0    0
## [5691,]    1    0    0    0    0    0    0    0    0    0
## [5692,]    0    1    0    0    0    0    0    0    0    0
## [5693,]    1    0    0    0    0    0    0    0    0    0
## [5694,]    0    0    0    0    0    0    1    0    0    0
## [5695,]    1    0    0    0    0    0    0    0    0    0
## [5696,]    0    0    0    0    0    0    0    0    1    0
## [5697,]    0    0    0    0    0    0    0    0    1    0
## [5698,]    1    0    0    0    0    0    0    0    0    0
## [5699,]    1    0    0    0    0    0    0    0    0    0
## [5700,]    0    0    0    0    0    0    0    0    1    0
## [5701,]    0    0    1    0    0    0    0    0    0    0
## [5702,]    0    0    0    0    0    0    0    0    0    1
## [5703,]    0    0    0    1    0    0    0    0    0    0
## [5704,]    0    0    0    0    1    0    0    0    0    0
## [5705,]    0    0    0    0    0    0    0    0    0    1
## [5706,]    0    0    0    0    0    0    0    0    0    1
```

```
## [5707,]   0   0   1   0   0   0   0   0   0   0
## [5708,]   0   0   1   0   0   0   0   0   0   0
## [5709,]   0   1   0   0   0   0   0   0   0   0
## [5710,]   0   0   0   0   0   0   1   0   0   0
## [5711,]   0   0   0   1   0   0   0   0   0   0
## [5712,]   1   0   0   0   0   0   0   0   0   0
## [5713,]   0   0   0   0   0   1   0   0   0   0
## [5714,]   0   1   0   0   0   0   0   0   0   0
## [5715,]   0   1   0   0   0   0   0   0   0   0
## [5716,]   0   0   1   0   0   0   0   0   0   0
## [5717,]   0   0   0   0   0   0   0   1   0   0
## [5718,]   0   0   0   1   0   0   0   0   0   0
## [5719,]   0   0   0   0   0   0   0   0   0   1
## [5720,]   0   0   0   0   0   1   0   0   0   0
## [5721,]   0   0   0   0   1   0   0   0   0   0
## [5722,]   0   0   0   0   0   0   1   0   0   0
## [5723,]   0   0   1   0   0   0   0   0   0   0
## [5724,]   0   0   0   0   0   0   0   1   0   0
## [5725,]   0   0   1   0   0   0   0   0   0   0
## [5726,]   0   0   0   0   0   0   0   0   1   0
## [5727,]   0   0   0   0   0   0   0   0   0   1
## [5728,]   0   0   0   0   0   0   0   0   0   1
## [5729,]   0   0   0   1   0   0   0   0   0   0
## [5730,]   1   0   0   0   0   0   0   0   0   0
## [5731,]   1   0   0   0   0   0   0   0   0   0
## [5732,]   0   1   0   0   0   0   0   0   0   0
## [5733,]   0   1   0   0   0   0   0   0   0   0
## [5734,]   0   0   1   0   0   0   0   0   0   0
## [5735,]   0   0   0   0   1   0   0   0   0   0
## [5736,]   0   0   0   0   1   0   0   0   0   0
## [5737,]   0   0   0   1   0   0   0   0   0   0
## [5738,]   0   0   0   0   0   1   0   0   0   0
## [5739,]   0   0   0   1   0   0   0   0   0   0
## [5740,]   0   0   0   0   0   0   1   0   0   0
## [5741,]   0   0   0   0   0   0   0   0   0   1
## [5742,]   0   0   0   0   0   0   0   1   0   0
## [5743,]   0   0   0   0   0   1   0   0   0   0
## [5744,]   0   0   0   0   0   0   0   0   1   0
## [5745,]   0   0   1   0   0   0   0   0   0   0
## [5746,]   0   0   0   0   0   0   0   0   0   1
## [5747,]   0   0   0   0   0   0   0   0   0   1
## [5748,]   1   0   0   0   0   0   0   0   0   0
## [5749,]   0   0   0   1   0   0   0   0   0   0
## [5750,]   0   1   0   0   0   0   0   0   0   0
## [5751,]   0   0   0   0   0   0   1   0   0   0
## [5752,]   0   0   1   0   0   0   0   0   0   0
## [5753,]   0   0   0   0   0   1   0   0   0   0
## [5754,]   0   0   0   1   0   0   0   0   0   0
## [5755,]   0   0   0   0   0   0   0   1   0   0
## [5756,]   0   0   0   0   1   0   0   0   0   0
## [5757,]   0   1   0   0   0   0   0   0   0   0
## [5758,]   0   0   0   0   0   1   0   0   0   0
## [5759,]   0   0   1   0   0   0   0   0   0   0
## [5760,]   0   0   0   0   0   0   1   0   0   0
```

```
## [5761,]    0    1    0    0    0    0    0    0    0    0
## [5762,]    0    0    0    0    0    0    0    1    0    0
## [5763,]    0    0    1    0    0    0    0    0    0    0
## [5764,]    0    0    0    0    0    0    0    0    1    0
## [5765,]    0    0    0    0    1    0    0    0    0    0
## [5766,]    0    0    0    0    0    0    0    0    0    1
## [5767,]    0    0    0    0    0    0    1    0    0    0
## [5768,]    1    0    0    0    0    0    0    0    0    0
## [5769,]    0    0    0    0    0    0    0    1    0    0
## [5770,]    0    0    0    0    0    0    0    1    0    0
## [5771,]    0    0    0    1    0    0    0    0    0    0
## [5772,]    0    0    0    0    0    1    0    0    0    0
## [5773,]    0    0    0    0    0    0    1    0    0    0
## [5774,]    1    0    0    0    0    0    0    0    0    0
## [5775,]    0    0    0    0    0    0    1    0    0    0
## [5776,]    0    0    0    0    0    0    0    0    1    0
## [5777,]    0    0    0    0    0    1    0    0    0    0
## [5778,]    0    0    0    0    1    0    0    0    0    0
## [5779,]    0    0    0    0    0    0    0    1    0    0
## [5780,]    0    1    0    0    0    0    0    0    0    0
## [5781,]    0    0    0    0    0    0    1    0    0    0
## [5782,]    0    0    0    0    0    0    0    0    1    0
## [5783,]    0    0    0    0    0    0    1    0    0    0
## [5784,]    0    0    0    0    0    0    0    0    1    0
## [5785,]    0    0    0    0    0    0    0    1    0    0
## [5786,]    0    1    0    0    0    0    0    0    0    0
## [5787,]    0    0    0    0    0    0    0    1    0    0
## [5788,]    0    0    0    1    0    0    0    0    0    0
## [5789,]    0    0    0    1    0    0    0    0    0    0
## [5790,]    0    1    0    0    0    0    0    0    0    0
## [5791,]    0    0    1    0    0    0    0    0    0    0
## [5792,]    0    0    0    0    0    0    0    0    1    0
## [5793,]    0    0    0    0    1    0    0    0    0    0
## [5794,]    0    0    0    1    0    0    0    0    0    0
## [5795,]    0    0    0    0    0    0    0    0    0    1
## [5796,]    0    0    0    0    0    0    0    1    0    0
## [5797,]    0    0    0    0    1    0    0    0    0    0
## [5798,]    0    0    0    0    0    0    0    0    0    1
## [5799,]    0    0    0    1    0    0    0    0    0    0
## [5800,]    0    0    0    1    0    0    0    0    0    0
## [5801,]    0    0    0    0    0    0    0    0    1    0
## [5802,]    1    0    0    0    0    0    0    0    0    0
## [5803,]    0    0    0    0    0    0    1    0    0    0
## [5804,]    0    0    0    0    0    0    0    0    0    1
## [5805,]    0    0    0    0    0    0    1    0    0    0
## [5806,]    0    0    0    0    1    0    0    0    0    0
## [5807,]    0    0    0    0    0    0    0    0    0    1
## [5808,]    0    0    0    0    1    0    0    0    0    0
## [5809,]    1    0    0    0    0    0    0    0    0    0
## [5810,]    1    0    0    0    0    0    0    0    0    0
## [5811,]    0    0    0    0    0    0    1    0    0    0
## [5812,]    0    0    0    0    0    0    0    1    0    0
## [5813,]    0    0    0    1    0    0    0    0    0    0
## [5814,]    0    0    0    0    1    0    0    0    0    0
```

```
## [5815,]    0   1   0   0   0   0   0   0   0   0
## [5816,]    0   0   1   0   0   0   0   0   0   0
## [5817,]    0   0   1   0   0   0   0   0   0   0
## [5818,]    0   0   0   0   0   0   0   0   0   1
## [5819,]    0   0   0   0   0   0   0   1   0   0
## [5820,]    0   0   0   0   0   0   0   0   1   0
## [5821,]    0   0   0   1   0   0   0   0   0   0
## [5822,]    0   0   0   0   0   0   0   1   0   0
## [5823,]    0   0   0   0   1   0   0   0   0   0
## [5824,]    0   0   1   0   0   0   0   0   0   0
## [5825,]    0   1   0   0   0   0   0   0   0   0
## [5826,]    0   0   0   0   0   0   0   1   0   0
## [5827,]    0   0   0   0   0   0   1   0   0   0
## [5828,]    0   0   0   0   0   0   0   0   1   0
## [5829,]    0   0   0   0   0   1   0   0   0   0
## [5830,]    0   0   0   0   0   0   0   0   0   1
## [5831,]    1   0   0   0   0   0   0   0   0   0
## [5832,]    0   0   0   1   0   0   0   0   0   0
## [5833,]    0   0   0   0   0   0   1   0   0   0
## [5834,]    0   1   0   0   0   0   0   0   0   0
## [5835,]    0   1   0   0   0   0   0   0   0   0
## [5836,]    0   0   0   0   1   0   0   0   0   0
## [5837,]    0   0   0   0   0   0   0   0   0   1
## [5838,]    0   0   0   0   0   0   1   0   0   0
## [5839,]    0   0   0   1   0   0   0   0   0   0
## [5840,]    0   0   0   0   0   1   0   0   0   0
## [5841,]    0   1   0   0   0   0   0   0   0   0
## [5842,]    0   0   1   0   0   0   0   0   0   0
## [5843,]    0   1   0   0   0   0   0   0   0   0
## [5844,]    0   0   1   0   0   0   0   0   0   0
## [5845,]    1   0   0   0   0   0   0   0   0   0
## [5846,]    0   0   1   0   0   0   0   0   0   0
## [5847,]    0   0   0   0   0   0   1   0   0   0
## [5848,]    0   0   0   0   0   1   0   0   0   0
## [5849,]    0   0   0   0   0   0   1   0   0   0
## [5850,]    0   0   0   0   0   0   1   0   0   0
## [5851,]    0   1   0   0   0   0   0   0   0   0
## [5852,]    0   0   0   0   0   0   0   1   0   0
## [5853,]    0   0   0   1   0   0   0   0   0   0
## [5854,]    0   0   0   0   0   0   0   0   1   0
## [5855,]    0   0   0   0   1   0   0   0   0   0
## [5856,]    0   0   0   0   0   0   0   1   0   0
## [5857,]    0   0   0   0   0   1   0   0   0   0
## [5858,]    0   0   0   0   0   1   0   0   0   0
## [5859,]    0   0   0   1   0   0   0   0   0   0
## [5860,]    0   1   0   0   0   0   0   0   0   0
## [5861,]    0   0   0   0   0   0   0   0   0   1
## [5862,]    0   0   0   0   0   0   1   0   0   0
## [5863,]    0   1   0   0   0   0   0   0   0   0
## [5864,]    0   0   0   0   1   0   0   0   0   0
## [5865,]    0   1   0   0   0   0   0   0   0   0
## [5866,]    0   0   0   0   0   0   0   0   0   1
## [5867,]    0   0   0   0   0   1   0   0   0   0
## [5868,]    0   0   1   0   0   0   0   0   0   0
```

```
## [5869,]    0    0    0    0    0    0    0    0    0    1
## [5870,]    0    0    0    0    0    0    0    0    0    1
## [5871,]    0    0    0    1    0    0    0    0    0    0
## [5872,]    0    0    0    1    0    0    0    0    0    0
## [5873,]    0    0    0    0    0    1    0    0    0    0
## [5874,]    0    0    0    0    0    1    0    0    0    0
## [5875,]    0    0    0    0    0    0    0    0    0    1
## [5876,]    0    0    0    1    0    0    0    0    0    0
## [5877,]    0    1    0    0    0    0    0    0    0    0
## [5878,]    0    0    0    0    0    0    1    0    0    0
## [5879,]    0    0    0    0    0    0    0    0    0    1
## [5880,]    0    0    0    0    0    0    1    0    0    0
## [5881,]    0    0    0    0    1    0    0    0    0    0
## [5882,]    1    0    0    0    0    0    0    0    0    0
## [5883,]    0    1    0    0    0    0    0    0    0    0
## [5884,]    1    0    0    0    0    0    0    0    0    0
## [5885,]    1    0    0    0    0    0    0    0    0    0
## [5886,]    0    0    1    0    0    0    0    0    0    0
## [5887,]    1    0    0    0    0    0    0    0    0    0
## [5888,]    0    0    0    0    0    1    0    0    0    0
## [5889,]    1    0    0    0    0    0    0    0    0    0
## [5890,]    0    0    0    0    0    0    1    0    0    0
## [5891,]    0    0    1    0    0    0    0    0    0    0
## [5892,]    0    0    0    0    1    0    0    0    0    0
## [5893,]    0    0    0    0    0    0    0    0    0    1
## [5894,]    0    0    0    0    0    0    0    0    0    1
## [5895,]    0    0    0    0    0    0    0    0    1    0
## [5896,]    0    0    1    0    0    0    0    0    0    0
## [5897,]    0    0    0    0    0    0    0    0    1    0
## [5898,]    0    0    0    0    0    0    0    1    0    0
## [5899,]    0    0    0    0    0    0    0    0    0    1
## [5900,]    0    0    0    0    1    0    0    0    0    0
## [5901,]    0    0    1    0    0    0    0    0    0    0
## [5902,]    0    0    0    0    0    0    0    0    0    1
## [5903,]    0    0    1    0    0    0    0    0    0    0
## [5904,]    0    1    0    0    0    0    0    0    0    0
## [5905,]    0    0    0    0    0    1    0    0    0    0
## [5906,]    1    0    0    0    0    0    0    0    0    0
## [5907,]    0    0    0    0    0    0    0    1    0    0
## [5908,]    0    0    1    0    0    0    0    0    0    0
## [5909,]    0    0    1    0    0    0    0    0    0    0
## [5910,]    0    0    1    0    0    0    0    0    0    0
## [5911,]    0    0    0    0    0    0    1    0    0    0
## [5912,]    0    0    0    1    0    0    0    0    0    0
## [5913,]    0    0    0    0    0    0    0    1    0    0
## [5914,]    0    0    0    0    0    0    1    0    0    0
## [5915,]    0    0    1    0    0    0    0    0    0    0
## [5916,]    0    1    0    0    0    0    0    0    0    0
## [5917,]    0    0    0    0    0    0    0    0    1    0
## [5918,]    0    0    0    0    0    0    0    0    1    0
## [5919,]    0    0    0    0    0    0    0    0    0    1
## [5920,]    0    0    0    1    0    0    0    0    0    0
## [5921,]    0    0    0    0    0    0    1    0    0    0
## [5922,]    1    0    0    0    0    0    0    0    0    0
```

```
## [5923,]    0    0    0    1    0    0    0    0    0    0
## [5924,]    0    0    0    1    0    0    0    0    0    0
## [5925,]    0    0    0    0    0    0    0    0    0    1
## [5926,]    0    0    0    0    0    1    0    0    0    0
## [5927,]    0    0    0    1    0    0    0    0    0    0
## [5928,]    1    0    0    0    0    0    0    0    0    0
## [5929,]    0    0    1    0    0    0    0    0    0    0
## [5930,]    1    0    0    0    0    0    0    0    0    0
## [5931,]    0    1    0    0    0    0    0    0    0    0
## [5932,]    0    0    0    0    0    0    1    0    0    0
## [5933,]    1    0    0    0    0    0    0    0    0    0
## [5934,]    0    1    0    0    0    0    0    0    0    0
## [5935,]    0    0    0    0    0    1    0    0    0    0
## [5936,]    0    0    0    0    0    0    1    0    0    0
## [5937,]    0    0    0    0    1    0    0    0    0    0
## [5938,]    0    0    0    0    0    0    0    0    0    1
## [5939,]    1    0    0    0    0    0    0    0    0    0
## [5940,]    0    0    0    0    0    1    0    0    0    0
## [5941,]    0    0    0    0    0    0    0    0    0    1
## [5942,]    0    0    0    1    0    0    0    0    0    0
## [5943,]    0    0    0    1    0    0    0    0    0    0
## [5944,]    0    0    0    0    0    0    0    0    0    1
## [5945,]    0    0    0    0    1    0    0    0    0    0
## [5946,]    0    0    0    0    1    0    0    0    0    0
## [5947,]    0    0    0    0    0    0    0    1    0    0
## [5948,]    0    0    0    0    0    1    0    0    0    0
## [5949,]    0    0    0    0    0    0    1    0    0    0
## [5950,]    0    0    0    0    0    0    0    0    1    0
## [5951,]    0    1    0    0    0    0    0    0    0    0
## [5952,]    0    0    0    0    0    0    1    0    0    0
## [5953,]    0    0    1    0    0    0    0    0    0    0
## [5954,]    0    0    0    0    0    0    0    1    0    0
## [5955,]    0    0    0    0    1    0    0    0    0    0
## [5956,]    0    1    0    0    0    0    0    0    0    0
## [5957,]    0    0    0    0    0    0    1    0    0    0
## [5958,]    0    1    0    0    0    0    0    0    0    0
## [5959,]    0    0    0    1    0    0    0    0    0    0
## [5960,]    0    0    0    0    0    0    0    1    0    0
## [5961,]    0    0    0    0    1    0    0    0    0    0
## [5962,]    1    0    0    0    0    0    0    0    0    0
## [5963,]    0    0    0    0    0    0    1    0    0    0
## [5964,]    0    1    0    0    0    0    0    0    0    0
## [5965,]    0    0    0    0    0    0    0    0    0    1
## [5966,]    0    0    1    0    0    0    0    0    0    0
## [5967,]    0    1    0    0    0    0    0    0    0    0
## [5968,]    0    0    0    1    0    0    0    0    0    0
## [5969,]    0    0    0    0    0    0    0    1    0    0
## [5970,]    0    0    0    0    1    0    0    0    0    0
## [5971,]    0    0    0    1    0    0    0    0    0    0
## [5972,]    0    0    0    0    0    1    0    0    0    0
## [5973,]    0    0    0    0    0    0    0    0    1    0
## [5974,]    0    0    0    0    0    0    1    0    0    0
## [5975,]    0    0    0    1    0    0    0    0    0    0
## [5976,]    0    0    0    0    0    0    0    1    0    0
```

```
## [5977,]    0    0    0    0    0    0    0    1    0    0
## [5978,]    0    0    0    0    0    0    0    0    1    0
## [5979,]    1    0    0    0    0    0    0    0    0    0
## [5980,]    0    0    0    0    0    0    0    0    0    1
## [5981,]    0    0    0    1    0    0    0    0    0    0
## [5982,]    1    0    0    0    0    0    0    0    0    0
## [5983,]    0    0    0    0    1    0    0    0    0    0
## [5984,]    0    1    0    0    0    0    0    0    0    0
## [5985,]    0    0    0    0    0    1    0    0    0    0
## [5986,]    0    0    1    0    0    0    0    0    0    0
## [5987,]    0    0    0    0    0    0    0    1    0    0
## [5988,]    0    0    0    1    0    0    0    0    0    0
## [5989,]    0    0    1    0    0    0    0    0    0    0
## [5990,]    0    0    0    0    1    0    0    0    0    0
## [5991,]    0    0    0    0    0    0    1    0    0    0
## [5992,]    0    0    0    0    0    1    0    0    0    0
## [5993,]    0    0    0    0    0    0    0    0    0    1
## [5994,]    0    0    0    0    0    0    1    0    0    0
## [5995,]    0    1    0    0    0    0    0    0    0    0
## [5996,]    0    0    0    0    0    0    0    1    0    0
## [5997,]    0    0    0    0    0    0    1    0    0    0
## [5998,]    0    0    0    0    0    0    0    0    1    0
## [5999,]    0    0    0    0    0    0    1    0    0    0
## [6000,]    0    0    0    0    0    0    0    0    0    1
## [6001,]    0    0    0    0    0    0    1    0    0    0
## [6002,]    1    0    0    0    0    0    0    0    0    0
## [6003,]    0    1    0    0    0    0    0    0    0    0
## [6004,]    0    1    0    0    0    0    0    0    0    0
## [6005,]    0    0    0    0    0    1    0    0    0    0
## [6006,]    0    0    1    0    0    0    0    0    0    0
## [6007,]    0    0    0    0    0    0    0    0    1    0
## [6008,]    0    0    0    1    0    0    0    0    0    0
## [6009,]    1    0    0    0    0    0    0    0    0    0
## [6010,]    0    0    0    0    1    0    0    0    0    0
## [6011,]    0    0    0    0    0    0    0    0    0    1
## [6012,]    0    0    0    0    0    1    0    0    0    0
## [6013,]    0    0    1    0    0    0    0    0    0    0
## [6014,]    0    0    0    0    0    0    1    0    0    0
## [6015,]    0    0    0    0    0    0    0    1    0    0
## [6016,]    0    0    0    0    0    0    0    1    0    0
## [6017,]    0    0    0    1    0    0    0    0    0    0
## [6018,]    0    0    0    0    0    0    0    0    1    0
## [6019,]    0    0    0    0    0    1    0    0    0    0
## [6020,]    0    0    0    0    0    0    0    0    0    1
## [6021,]    0    1    0    0    0    0    0    0    0    0
## [6022,]    0    1    0    0    0    0    0    0    0    0
## [6023,]    0    0    0    0    0    0    0    0    1    0
## [6024,]    1    0    0    0    0    0    0    0    0    0
## [6025,]    0    0    0    0    0    0    1    0    0    0
## [6026,]    0    0    0    0    1    0    0    0    0    0
## [6027,]    0    0    0    0    0    1    0    0    0    0
## [6028,]    0    0    0    0    0    1    0    0    0    0
## [6029,]    0    0    0    0    1    0    0    0    0    0
## [6030,]    0    0    0    0    0    0    1    0    0    0
```

```
## [6031,]    0    0    0    0    0    0    0    0    1    0
## [6032,]    0    0    0    0    0    0    1    0    0    0
## [6033,]    0    0    0    1    0    0    0    0    0    0
## [6034,]    0    0    0    1    0    0    0    0    0    0
## [6035,]    1    0    0    0    0    0    0    0    0    0
## [6036,]    0    0    0    0    1    0    0    0    0    0
## [6037,]    0    0    0    0    0    0    0    0    0    1
## [6038,]    0    0    0    0    1    0    0    0    0    0
## [6039,]    0    0    1    0    0    0    0    0    0    0
## [6040,]    0    0    1    0    0    0    0    0    0    0
## [6041,]    0    0    0    1    0    0    0    0    0    0
## [6042,]    0    0    0    0    0    0    0    0    1    0
## [6043,]    0    0    0    0    0    0    0    0    0    1
## [6044,]    0    1    0    0    0    0    0    0    0    0
## [6045,]    0    0    1    0    0    0    0    0    0    0
## [6046,]    1    0    0    0    0    0    0    0    0    0
## [6047,]    0    0    0    0    0    0    0    1    0    0
## [6048,]    0    0    0    0    0    0    1    0    0    0
## [6049,]    0    0    0    1    0    0    0    0    0    0
## [6050,]    0    0    0    0    1    0    0    0    0    0
## [6051,]    0    0    0    0    0    0    0    1    0    0
## [6052,]    0    0    0    0    0    0    0    0    0    1
## [6053,]    0    1    0    0    0    0    0    0    0    0
## [6054,]    0    0    0    0    0    0    0    1    0    0
## [6055,]    0    0    0    0    0    0    0    1    0    0
## [6056,]    0    0    1    0    0    0    0    0    0    0
## [6057,]    0    0    1    0    0    0    0    0    0    0
## [6058,]    0    0    0    1    0    0    0    0    0    0
## [6059,]    0    0    0    0    1    0    0    0    0    0
## [6060,]    0    0    0    1    0    0    0    0    0    0
## [6061,]    0    0    1    0    0    0    0    0    0    0
## [6062,]    0    0    0    0    0    0    0    0    0    1
## [6063,]    0    1    0    0    0    0    0    0    0    0
## [6064,]    0    0    1    0    0    0    0    0    0    0
## [6065,]    0    0    0    0    0    0    0    1    0    0
## [6066,]    1    0    0    0    0    0    0    0    0    0
## [6067,]    0    0    0    0    0    0    0    0    1    0
## [6068,]    0    0    0    0    0    0    0    0    0    1
## [6069,]    0    0    0    0    0    1    0    0    0    0
## [6070,]    0    0    0    1    0    0    0    0    0    0
## [6071,]    0    1    0    0    0    0    0    0    0    0
## [6072,]    0    0    0    1    0    0    0    0    0    0
## [6073,]    0    0    0    0    0    0    0    0    1    0
## [6074,]    0    0    0    0    0    0    0    0    0    1
## [6075,]    0    0    0    0    0    0    0    0    0    1
## [6076,]    0    1    0    0    0    0    0    0    0    0
## [6077,]    1    0    0    0    0    0    0    0    0    0
## [6078,]    0    0    0    0    0    1    0    0    0    0
## [6079,]    0    0    0    0    0    0    0    0    0    1
## [6080,]    0    0    1    0    0    0    0    0    0    0
## [6081,]    0    0    1    0    0    0    0    0    0    0
## [6082,]    0    0    0    1    0    0    0    0    0    0
## [6083,]    0    1    0    0    0    0    0    0    0    0
## [6084,]    0    1    0    0    0    0    0    0    0    0
```

```
## [6085,]    0    0    0    0    0    0    0    0    0    1
## [6086,]    0    0    0    0    0    0    1    0    0    0
## [6087,]    0    0    0    0    0    1    0    0    0    0
## [6088,]    0    0    0    0    0    0    0    1    0    0
## [6089,]    0    0    0    0    0    0    0    1    0    0
## [6090,]    0    0    0    1    0    0    0    0    0    0
## [6091,]    0    0    0    0    0    0    1    0    0    0
## [6092,]    0    0    0    0    0    0    0    1    0    0
## [6093,]    0    0    0    0    0    0    0    0    0    1
## [6094,]    0    0    0    0    0    0    0    0    1    0
## [6095,]    1    0    0    0    0    0    0    0    0    0
## [6096,]    0    0    0    0    1    0    0    0    0    0
## [6097,]    0    0    0    0    0    1    0    0    0    0
## [6098,]    1    0    0    0    0    0    0    0    0    0
## [6099,]    0    0    0    1    0    0    0    0    0    0
## [6100,]    0    0    1    0    0    0    0    0    0    0
## [6101,]    0    0    0    0    0    0    0    0    0    1
## [6102,]    0    0    0    0    1    0    0    0    0    0
## [6103,]    0    0    0    0    0    0    1    0    0    0
## [6104,]    1    0    0    0    0    0    0    0    0    0
## [6105,]    0    1    0    0    0    0    0    0    0    0
## [6106,]    0    0    1    0    0    0    0    0    0    0
## [6107,]    0    0    0    1    0    0    0    0    0    0
## [6108,]    0    0    0    0    1    0    0    0    0    0
## [6109,]    0    1    0    0    0    0    0    0    0    0
## [6110,]    0    0    0    0    0    0    0    1    0    0
## [6111,]    0    1    0    0    0    0    0    0    0    0
## [6112,]    0    0    0    0    0    0    0    0    1    0
## [6113,]    0    0    0    0    0    1    0    0    0    0
## [6114,]    1    0    0    0    0    0    0    0    0    0
## [6115,]    0    0    1    0    0    0    0    0    0    0
## [6116,]    0    0    0    0    0    0    0    1    0    0
## [6117,]    0    1    0    0    0    0    0    0    0    0
## [6118,]    1    0    0    0    0    0    0    0    0    0
## [6119,]    0    0    0    1    0    0    0    0    0    0
## [6120,]    0    0    0    0    0    0    1    0    0    0
## [6121,]    0    0    0    0    1    0    0    0    0    0
## [6122,]    0    0    0    0    0    0    0    0    0    1
## [6123,]    0    1    0    0    0    0    0    0    0    0
## [6124,]    0    0    0    1    0    0    0    0    0    0
## [6125,]    0    0    1    0    0    0    0    0    0    0
## [6126,]    0    0    1    0    0    0    0    0    0    0
## [6127,]    0    0    1    0    0    0    0    0    0    0
## [6128,]    0    0    0    0    1    0    0    0    0    0
## [6129,]    0    0    0    0    1    0    0    0    0    0
## [6130,]    0    0    0    0    0    0    0    0    1    0
## [6131,]    0    0    0    0    0    0    0    1    0    0
## [6132,]    0    0    0    0    0    0    1    0    0    0
## [6133,]    0    0    0    0    0    0    0    1    0    0
## [6134,]    1    0    0    0    0    0    0    0    0    0
## [6135,]    0    0    0    0    0    0    0    1    0    0
## [6136,]    0    1    0    0    0    0    0    0    0    0
## [6137,]    0    0    0    0    0    0    0    0    1    0
## [6138,]    1    0    0    0    0    0    0    0    0    0
```

```
## [6139,]    0    0    1    0    0    0    0    0    0    0
## [6140,]    0    0    0    0    0    0    1    0    0    0
## [6141,]    0    0    0    0    0    0    0    1    0    0
## [6142,]    0    0    0    0    0    0    0    1    0    0
## [6143,]    0    1    0    0    0    0    0    0    0    0
## [6144,]    0    0    1    0    0    0    0    0    0    0
## [6145,]    0    0    1    0    0    0    0    0    0    0
## [6146,]    0    0    0    0    0    0    0    0    0    1
## [6147,]    1    0    0    0    0    0    0    0    0    0
## [6148,]    0    0    0    0    0    0    0    1    0    0
## [6149,]    0    0    0    1    0    0    0    0    0    0
## [6150,]    0    0    0    0    0    0    0    0    0    1
## [6151,]    0    0    0    0    0    0    1    0    0    0
## [6152,]    0    0    0    0    0    1    0    0    0    0
## [6153,]    0    0    0    0    0    0    0    0    1    0
## [6154,]    0    0    0    0    0    0    0    0    1    0
## [6155,]    0    0    0    0    1    0    0    0    0    0
## [6156,]    0    0    0    0    0    0    0    0    0    1
## [6157,]    0    0    0    0    0    0    0    0    0    1
## [6158,]    0    0    0    0    0    0    1    0    0    0
## [6159,]    0    0    0    0    0    0    0    0    1    0
## [6160,]    0    0    0    0    0    0    1    0    0    0
## [6161,]    0    0    0    0    1    0    0    0    0    0
## [6162,]    0    0    1    0    0    0    0    0    0    0
## [6163,]    0    0    0    0    0    0    0    0    0    1
## [6164,]    0    0    0    0    0    0    0    0    1    0
## [6165,]    0    0    0    0    0    0    0    0    0    1
## [6166,]    0    1    0    0    0    0    0    0    0    0
## [6167,]    0    0    0    0    0    0    0    0    0    1
## [6168,]    0    0    0    0    0    0    0    1    0    0
## [6169,]    0    0    1    0    0    0    0    0    0    0
## [6170,]    0    0    0    0    0    1    0    0    0    0
## [6171,]    0    0    0    1    0    0    0    0    0    0
## [6172,]    0    0    0    0    0    1    0    0    0    0
## [6173,]    0    0    1    0    0    0    0    0    0    0
## [6174,]    0    0    0    0    0    0    0    1    0    0
## [6175,]    0    0    0    0    0    0    0    0    0    1
## [6176,]    0    0    0    1    0    0    0    0    0    0
## [6177,]    0    0    0    0    0    0    0    1    0    0
## [6178,]    0    0    0    0    0    1    0    0    0    0
## [6179,]    0    0    0    0    0    0    1    0    0    0
## [6180,]    1    0    0    0    0    0    0    0    0    0
## [6181,]    0    0    0    0    0    1    0    0    0    0
## [6182,]    0    1    0    0    0    0    0    0    0    0
## [6183,]    0    0    0    1    0    0    0    0    0    0
## [6184,]    0    1    0    0    0    0    0    0    0    0
## [6185,]    0    0    0    0    1    0    0    0    0    0
## [6186,]    0    0    0    1    0    0    0    0    0    0
## [6187,]    0    1    0    0    0    0    0    0    0    0
## [6188,]    0    0    0    0    0    0    0    0    1    0
## [6189,]    0    0    0    0    0    1    0    0    0    0
## [6190,]    0    0    0    0    1    0    0    0    0    0
## [6191,]    0    0    1    0    0    0    0    0    0    0
## [6192,]    0    0    0    0    0    0    0    0    0    1
```

```
## [6193,]    0    1    0    0    0    0    0    0    0    0
## [6194,]    0    0    0    0    1    0    0    0    0    0
## [6195,]    0    0    0    0    0    0    1    0    0    0
## [6196,]    0    0    0    0    0    1    0    0    0    0
## [6197,]    0    0    0    0    0    0    0    0    1    0
## [6198,]    0    1    0    0    0    0    0    0    0    0
## [6199,]    0    0    0    0    0    1    0    0    0    0
## [6200,]    0    0    0    0    0    0    0    0    1    0
## [6201,]    0    0    0    0    0    1    0    0    0    0
## [6202,]    0    0    0    0    0    0    1    0    0    0
## [6203,]    0    0    0    0    0    0    0    1    0    0
## [6204,]    0    0    0    0    0    0    0    0    1    0
## [6205,]    0    0    1    0    0    0    0    0    0    0
## [6206,]    0    0    0    0    0    0    0    0    0    1
## [6207,]    0    1    0    0    0    0    0    0    0    0
## [6208,]    1    0    0    0    0    0    0    0    0    0
## [6209,]    0    1    0    0    0    0    0    0    0    0
## [6210,]    0    1    0    0    0    0    0    0    0    0
## [6211,]    0    0    0    0    1    0    0    0    0    0
## [6212,]    0    0    1    0    0    0    0    0    0    0
## [6213,]    0    0    1    0    0    0    0    0    0    0
## [6214,]    0    0    0    1    0    0    0    0    0    0
## [6215,]    0    0    0    0    0    0    0    0    1    0
## [6216,]    0    0    0    0    1    0    0    0    0    0
## [6217,]    0    0    0    1    0    0    0    0    0    0
## [6218,]    0    0    0    0    0    1    0    0    0    0
## [6219,]    0    0    0    0    1    0    0    0    0    0
## [6220,]    0    0    0    0    0    0    1    0    0    0
## [6221,]    0    0    0    0    1    0    0    0    0    0
## [6222,]    0    0    0    0    0    0    0    1    0    0
## [6223,]    0    0    1    0    0    0    0    0    0    0
## [6224,]    0    0    0    0    0    0    0    0    1    0
## [6225,]    0    0    0    0    0    0    0    1    0    0
## [6226,]    0    0    0    0    0    0    0    0    0    1
## [6227,]    0    1    0    0    0    0    0    0    0    0
## [6228,]    1    0    0    0    0    0    0    0    0    0
## [6229,]    1    0    0    0    0    0    0    0    0    0
## [6230,]    0    1    0    0    0    0    0    0    0    0
## [6231,]    0    0    0    1    0    0    0    0    0    0
## [6232,]    0    0    1    0    0    0    0    0    0    0
## [6233,]    0    1    0    0    0    0    0    0    0    0
## [6234,]    0    0    0    1    0    0    0    0    0    0
## [6235,]    0    0    0    0    0    0    0    0    0    1
## [6236,]    0    0    0    0    1    0    0    0    0    0
## [6237,]    0    0    0    0    0    0    1    0    0    0
## [6238,]    0    0    0    0    0    1    0    0    0    0
## [6239,]    0    0    0    0    0    0    0    0    0    1
## [6240,]    0    0    0    0    0    0    1    0    0    0
## [6241,]    0    0    0    0    0    0    0    0    1    0
## [6242,]    0    0    0    0    0    0    0    1    0    0
## [6243,]    0    0    0    0    0    0    0    0    1    0
## [6244,]    0    0    0    0    0    0    0    0    1    0
## [6245,]    0    1    0    0    0    0    0    0    0    0
## [6246,]    1    0    0    0    0    0    0    0    0    0
```

```
## [6247,]     0    0    0    0    0    0    1    0    0    0
## [6248,]     0    1    0    0    0    0    0    0    0    0
## [6249,]     0    0    0    0    0    0    0    1    0    0
## [6250,]     0    0    1    0    0    0    0    0    0    0
## [6251,]     0    0    0    0    0    0    0    1    0    0
## [6252,]     0    0    0    1    0    0    0    0    0    0
## [6253,]     0    0    1    0    0    0    0    0    0    0
## [6254,]     0    0    0    0    1    0    0    0    0    0
## [6255,]     0    1    0    0    0    0    0    0    0    0
## [6256,]     0    0    0    0    0    1    0    0    0    0
## [6257,]     0    0    0    0    1    0    0    0    0    0
## [6258,]     0    0    0    0    0    0    1    0    0    0
## [6259,]     0    0    0    0    1    0    0    0    0    0
## [6260,]     0    0    0    0    0    0    0    1    0    0
## [6261,]     0    0    0    0    1    0    0    0    0    0
## [6262,]     0    0    0    0    0    0    0    0    1    0
## [6263,]     0    1    0    0    0    0    0    0    0    0
## [6264,]     0    0    0    0    0    0    0    0    0    1
## [6265,]     0    0    0    0    0    1    0    0    0    0
## [6266,]     0    0    0    0    0    0    1    0    0    0
## [6267,]     0    0    0    0    0    0    1    0    0    0
## [6268,]     0    0    0    0    0    0    1    0    0    0
## [6269,]     0    0    0    0    1    0    0    0    0    0
## [6270,]     0    0    0    1    0    0    0    0    0    0
## [6271,]     0    0    1    0    0    0    0    0    0    0
## [6272,]     0    0    0    0    1    0    0    0    0    0
## [6273,]     0    0    0    0    0    0    0    0    0    1
## [6274,]     0    0    1    0    0    0    0    0    0    0
## [6275,]     0    0    0    0    0    1    0    0    0    0
## [6276,]     0    0    0    0    0    0    0    0    1    0
## [6277,]     0    0    0    0    0    1    0    0    0    0
## [6278,]     0    1    0    0    0    0    0    0    0    0
## [6279,]     0    0    0    0    0    0    0    1    0    0
## [6280,]     1    0    0    0    0    0    0    0    0    0
## [6281,]     0    0    0    0    0    0    0    1    0    0
## [6282,]     0    0    0    0    0    0    1    0    0    0
## [6283,]     0    0    0    1    0    0    0    0    0    0
## [6284,]     0    0    0    0    1    0    0    0    0    0
## [6285,]     0    0    0    0    0    0    0    0    1    0
## [6286,]     0    0    0    0    0    0    0    0    0    1
## [6287,]     0    0    0    1    0    0    0    0    0    0
## [6288,]     0    0    0    0    0    0    0    1    0    0
## [6289,]     0    0    0    0    0    0    0    0    1    0
## [6290,]     0    0    1    0    0    0    0    0    0    0
## [6291,]     0    0    0    0    0    1    0    0    0    0
## [6292,]     0    0    0    1    0    0    0    0    0    0
## [6293,]     1    0    0    0    0    0    0    0    0    0
## [6294,]     0    0    0    1    0    0    0    0    0    0
## [6295,]     0    0    0    0    0    0    0    0    0    1
## [6296,]     0    0    0    0    0    0    0    0    0    1
## [6297,]     1    0    0    0    0    0    0    0    0    0
## [6298,]     0    0    0    1    0    0    0    0    0    0
## [6299,]     0    0    0    1    0    0    0    0    0    0
## [6300,]     0    0    0    1    0    0    0    0    0    0
```

```
## [6301,]    0    0    0    0    0    1    0    0    0    0
## [6302,]    0    0    0    0    0    0    0    0    0    1
## [6303,]    1    0    0    0    0    0    0    0    0    0
## [6304,]    0    1    0    0    0    0    0    0    0    0
## [6305,]    0    0    0    0    0    0    0    1    0    0
## [6306,]    0    0    0    0    0    1    0    0    0    0
## [6307,]    0    0    0    0    0    0    0    0    0    1
## [6308,]    0    0    1    0    0    0    0    0    0    0
## [6309,]    0    0    0    0    1    0    0    0    0    0
## [6310,]    0    0    0    1    0    0    0    0    0    0
## [6311,]    0    0    0    0    0    0    0    0    0    1
## [6312,]    0    1    0    0    0    0    0    0    0    0
## [6313,]    0    0    0    0    1    0    0    0    0    0
## [6314,]    0    0    0    0    0    0    1    0    0    0
## [6315,]    0    0    0    0    1    0    0    0    0    0
## [6316,]    0    0    0    0    0    0    0    1    0    0
## [6317,]    1    0    0    0    0    0    0    0    0    0
## [6318,]    0    0    0    1    0    0    0    0    0    0
## [6319,]    0    1    0    0    0    0    0    0    0    0
## [6320,]    0    0    0    0    0    0    0    1    0    0
## [6321,]    1    0    0    0    0    0    0    0    0    0
## [6322,]    0    0    0    0    0    0    0    0    1    0
## [6323,]    0    0    0    0    0    0    0    0    1    0
## [6324,]    0    0    0    0    1    0    0    0    0    0
## [6325,]    0    0    0    0    0    1    0    0    0    0
## [6326,]    1    0    0    0    0    0    0    0    0    0
## [6327,]    1    0    0    0    0    0    0    0    0    0
## [6328,]    0    0    1    0    0    0    0    0    0    0
## [6329,]    0    1    0    0    0    0    0    0    0    0
## [6330,]    0    0    0    0    1    0    0    0    0    0
## [6331,]    1    0    0    0    0    0    0    0    0    0
## [6332,]    1    0    0    0    0    0    0    0    0    0
## [6333,]    1    0    0    0    0    0    0    0    0    0
## [6334,]    0    0    0    0    0    0    0    1    0    0
## [6335,]    0    0    0    0    0    0    0    0    0    1
## [6336,]    0    0    0    0    0    0    0    0    1    0
## [6337,]    0    0    0    0    1    0    0    0    0    0
## [6338,]    1    0    0    0    0    0    0    0    0    0
## [6339,]    0    0    0    0    0    0    1    0    0    0
## [6340,]    0    0    0    0    0    0    0    1    0    0
## [6341,]    0    0    0    1    0    0    0    0    0    0
## [6342,]    1    0    0    0    0    0    0    0    0    0
## [6343,]    0    0    0    1    0    0    0    0    0    0
## [6344,]    0    0    0    0    0    0    1    0    0    0
## [6345,]    0    0    1    0    0    0    0    0    0    0
## [6346,]    0    0    0    0    0    0    0    0    0    1
## [6347,]    0    0    0    0    0    1    0    0    0    0
## [6348,]    0    0    0    1    0    0    0    0    0    0
## [6349,]    0    0    1    0    0    0    0    0    0    0
## [6350,]    0    0    1    0    0    0    0    0    0    0
## [6351,]    0    0    0    1    0    0    0    0    0    0
## [6352,]    0    0    0    0    1    0    0    0    0    0
## [6353,]    0    0    0    0    0    1    0    0    0    0
## [6354,]    0    0    0    0    0    0    0    0    1    0
```

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```
## [6355,]    0    0    0    0    0    0    0    0    1    0
## [6356,]    0    0    0    0    0    0    1    0    0    0
## [6357,]    0    1    0    0    0    0    0    0    0    0
## [6358,]    1    0    0    0    0    0    0    0    0    0
## [6359,]    0    0    0    0    0    0    0    1    0    0
## [6360,]    0    0    0    0    0    1    0    0    0    0
## [6361,]    0    0    1    0    0    0    0    0    0    0
## [6362,]    0    0    0    0    0    0    0    1    0    0
## [6363,]    0    0    0    1    0    0    0    0    0    0
## [6364,]    0    0    0    0    0    1    0    0    0    0
## [6365,]    0    0    0    0    0    0    0    0    1    0
## [6366,]    0    1    0    0    0    0    0    0    0    0
## [6367,]    0    1    0    0    0    0    0    0    0    0
## [6368,]    1    0    0    0    0    0    0    0    0    0
## [6369,]    0    0    0    0    0    0    0    0    0    1
## [6370,]    0    0    0    0    0    0    0    0    1    0
## [6371,]    0    0    0    0    0    1    0    0    0    0
## [6372,]    0    1    0    0    0    0    0    0    0    0
## [6373,]    0    1    0    0    0    0    0    0    0    0
## [6374,]    0    0    0    0    0    0    1    0    0    0
## [6375,]    0    0    0    0    0    1    0    0    0    0
## [6376,]    0    0    0    0    0    0    0    1    0    0
## [6377,]    0    0    0    0    0    0    0    0    0    1
## [6378,]    0    0    1    0    0    0    0    0    0    0
## [6379,]    0    0    0    0    0    0    0    1    0    0
## [6380,]    0    0    0    0    0    0    0    0    0    1
## [6381,]    0    1    0    0    0    0    0    0    0    0
## [6382,]    0    0    0    0    0    0    0    1    0    0
## [6383,]    0    0    0    0    0    0    0    0    0    1
## [6384,]    0    0    0    0    0    0    0    0    0    1
## [6385,]    0    1    0    0    0    0    0    0    0    0
## [6386,]    0    0    0    0    0    1    0    0    0    0
## [6387,]    0    0    1    0    0    0    0    0    0    0
## [6388,]    0    0    0    0    0    0    1    0    0    0
## [6389,]    0    0    0    0    0    0    1    0    0    0
## [6390,]    0    0    0    0    0    1    0    0    0    0
## [6391,]    0    0    0    0    0    0    0    0    1    0
## [6392,]    0    0    1    0    0    0    0    0    0    0
## [6393,]    0    0    0    0    0    0    1    0    0    0
## [6394,]    0    0    0    0    0    0    1    0    0    0
## [6395,]    1    0    0    0    0    0    0    0    0    0
## [6396,]    0    1    0    0    0    0    0    0    0    0
## [6397,]    0    0    0    0    0    0    1    0    0    0
## [6398,]    0    0    0    0    0    0    0    1    0    0
## [6399,]    0    0    0    1    0    0    0    0    0    0
## [6400,]    0    0    0    0    0    1    0    0    0    0
## [6401,]    1    0    0    0    0    0    0    0    0    0
## [6402,]    0    0    0    0    0    1    0    0    0    0
## [6403,]    0    0    0    0    0    0    1    0    0    0
## [6404,]    0    0    0    0    0    0    0    1    0    0
## [6405,]    0    0    0    0    0    0    0    0    1    0
## [6406,]    0    0    0    1    0    0    0    0    0    0
## [6407,]    1    0    0    0    0    0    0    0    0    0
## [6408,]    0    0    0    0    0    1    0    0    0    0
```

```
## [6409,]    0    1    0    0    0    0    0    0    0    0
## [6410,]    1    0    0    0    0    0    0    0    0    0
## [6411,]    0    0    0    1    0    0    0    0    0    0
## [6412,]    0    1    0    0    0    0    0    0    0    0
## [6413,]    0    0    0    0    0    1    0    0    0    0
## [6414,]    0    1    0    0    0    0    0    0    0    0
## [6415,]    0    0    1    0    0    0    0    0    0    0
## [6416,]    0    0    0    1    0    0    0    0    0    0
## [6417,]    0    0    0    1    0    0    0    0    0    0
## [6418,]    0    0    0    0    0    0    0    0    1    0
## [6419,]    0    0    0    0    0    1    0    0    0    0
## [6420,]    0    1    0    0    0    0    0    0    0    0
## [6421,]    0    0    0    1    0    0    0    0    0    0
## [6422,]    1    0    0    0    0    0    0    0    0    0
## [6423,]    1    0    0    0    0    0    0    0    0    0
## [6424,]    0    1    0    0    0    0    0    0    0    0
## [6425,]    0    0    0    0    1    0    0    0    0    0
## [6426,]    0    0    1    0    0    0    0    0    0    0
## [6427,]    0    0    0    0    0    1    0    0    0    0
## [6428,]    0    0    0    1    0    0    0    0    0    0
## [6429,]    0    0    0    1    0    0    0    0    0    0
## [6430,]    0    0    0    0    1    0    0    0    0    0
## [6431,]    0    0    0    1    0    0    0    0    0    0
## [6432,]    0    0    0    0    0    1    0    0    0    0
## [6433,]    0    0    0    0    0    0    0    1    0    0
## [6434,]    0    0    0    0    0    0    1    0    0    0
## [6435,]    0    0    0    0    0    1    0    0    0    0
## [6436,]    0    0    0    0    0    0    0    1    0    0
## [6437,]    0    1    0    0    0    0    0    0    0    0
## [6438,]    0    0    0    0    0    0    0    0    1    0
## [6439,]    0    0    0    0    0    0    0    0    0    1
## [6440,]    0    0    0    0    0    0    0    0    0    1
## [6441,]    0    0    0    1    0    0    0    0    0    0
## [6442,]    1    0    0    0    0    0    0    0    0    0
## [6443,]    0    0    1    0    0    0    0    0    0    0
## [6444,]    0    1    0    0    0    0    0    0    0    0
## [6445,]    1    0    0    0    0    0    0    0    0    0
## [6446,]    0    0    1    0    0    0    0    0    0    0
## [6447,]    1    0    0    0    0    0    0    0    0    0
## [6448,]    0    0    0    1    0    0    0    0    0    0
## [6449,]    0    0    0    0    1    0    0    0    0    0
## [6450,]    0    0    0    0    1    0    0    0    0    0
## [6451,]    0    0    0    1    0    0    0    0    0    0
## [6452,]    0    0    0    0    0    1    0    0    0    0
## [6453,]    0    0    0    0    0    0    1    0    0    0
## [6454,]    0    0    0    0    0    0    1    0    0    0
## [6455,]    0    0    0    0    1    0    0    0    0    0
## [6456,]    0    0    0    0    0    0    0    1    0    0
## [6457,]    0    0    0    0    0    0    1    0    0    0
## [6458,]    0    0    0    0    0    0    0    0    1    0
## [6459,]    0    1    0    0    0    0    0    0    0    0
## [6460,]    0    0    0    0    0    0    0    0    0    1
## [6461,]    0    0    0    0    0    0    0    0    0    1
## [6462,]    1    0    0    0    0    0    0    0    0    0
```

```
## [6463,]     0    0    0    0    1    0    0    0    0    0
## [6464,]     0    1    0    0    0    0    0    0    0    0
## [6465,]     0    0    0    0    0    0    1    0    0    0
## [6466,]     0    0    1    0    0    0    0    0    0    0
## [6467,]     0    0    1    0    0    0    0    0    0    0
## [6468,]     0    0    0    1    0    0    0    0    0    0
## [6469,]     1    0    0    0    0    0    0    0    0    0
## [6470,]     0    0    0    0    1    0    0    0    0    0
## [6471,]     0    0    0    0    0    0    0    0    1    0
## [6472,]     0    0    0    0    0    1    0    0    0    0
## [6473,]     0    0    0    0    0    1    0    0    0    0
## [6474,]     0    0    0    0    0    0    1    0    0    0
## [6475,]     0    0    0    0    0    0    1    0    0    0
## [6476,]     0    0    0    0    0    0    0    1    0    0
## [6477,]     0    0    0    0    0    0    0    1    0    0
## [6478,]     0    0    0    0    0    0    0    0    1    0
## [6479,]     0    0    1    0    0    0    0    0    0    0
## [6480,]     0    0    0    0    0    0    0    0    0    1
## [6481,]     0    0    1    0    0    0    0    0    0    0
## [6482,]     0    0    0    0    0    0    0    1    0    0
## [6483,]     0    0    0    0    0    0    1    0    0    0
## [6484,]     0    0    0    0    1    0    0    0    0    0
## [6485,]     0    0    0    0    1    0    0    0    0    0
## [6486,]     0    0    0    0    0    0    0    1    0    0
## [6487,]     0    0    0    0    0    0    1    0    0    0
## [6488,]     0    0    0    0    0    0    0    1    0    0
## [6489,]     0    1    0    0    0    0    0    0    0    0
## [6490,]     0    0    0    1    0    0    0    0    0    0
## [6491,]     0    0    0    0    1    0    0    0    0    0
## [6492,]     0    0    0    0    0    0    0    0    0    1
## [6493,]     0    0    1    0    0    0    0    0    0    0
## [6494,]     0    0    0    0    0    0    0    0    1    0
## [6495,]     0    0    1    0    0    0    0    0    0    0
## [6496,]     0    0    0    0    0    0    0    0    1    0
## [6497,]     1    0    0    0    0    0    0    0    0    0
## [6498,]     0    0    0    1    0    0    0    0    0    0
## [6499,]     0    0    0    0    0    0    0    0    1    0
## [6500,]     0    1    0    0    0    0    0    0    0    0
## [6501,]     0    0    0    1    0    0    0    0    0    0
## [6502,]     0    0    0    0    0    1    0    0    0    0
## [6503,]     1    0    0    0    0    0    0    0    0    0
## [6504,]     0    0    0    0    0    0    0    0    1    0
## [6505,]     0    0    0    0    0    1    0    0    0    0
## [6506,]     0    0    1    0    0    0    0    0    0    0
## [6507,]     0    0    0    0    0    0    0    0    1    0
## [6508,]     0    0    0    0    0    0    0    1    0    0
## [6509,]     0    0    0    0    0    0    0    0    1    0
## [6510,]     0    0    0    0    0    0    1    0    0    0
## [6511,]     0    0    0    0    0    0    0    1    0    0
## [6512,]     0    1    0    0    0    0    0    0    0    0
## [6513,]     0    0    0    0    0    0    0    0    1    0
## [6514,]     0    0    0    0    0    1    0    0    0    0
## [6515,]     0    0    0    0    0    0    0    0    0    1
## [6516,]     0    0    1    0    0    0    0    0    0    0
```

```
## [6517,]      0      0      0      1      0      0      0      0      0      0
## [6518,]      0      0      0      0      0      0      1      0      0      0
## [6519,]      0      0      0      0      0      0      0      0      0      1
## [6520,]      0      0      0      0      1      0      0      0      0      0
## [6521,]      0      0      0      0      0      0      0      0      0      1
## [6522,]      0      1      0      0      0      0      0      0      0      0
## [6523,]      0      0      0      1      0      0      0      0      0      0
## [6524,]      0      0      0      0      0      0      0      0      1      0
## [6525,]      0      0      0      0      0      1      0      0      0      0
## [6526,]      0      0      0      0      0      0      0      1      0      0
## [6527,]      0      0      0      0      0      0      1      0      0      0
## [6528,]      0      0      0      0      0      1      0      0      0      0
## [6529,]      0      0      0      0      0      0      0      1      0      0
## [6530,]      0      0      0      0      0      1      0      0      0      0
## [6531,]      0      1      0      0      0      0      0      0      0      0
## [6532,]      0      1      0      0      0      0      0      0      0      0
## [6533,]      0      0      0      0      1      0      0      0      0      0
## [6534,]      0      0      0      0      0      0      0      0      1      0
## [6535,]      0      0      0      0      0      0      0      0      1      0
## [6536,]      0      0      0      0      0      0      0      0      0      1
## [6537,]      0      0      0      0      1      0      0      0      0      0
## [6538,]      0      1      0      0      0      0      0      0      0      0
## [6539,]      1      0      0      0      0      0      0      0      0      0
## [6540,]      0      0      0      1      0      0      0      0      0      0
## [6541,]      0      0      1      0      0      0      0      0      0      0
## [6542,]      0      0      0      0      0      0      1      0      0      0
## [6543,]      0      0      0      0      0      0      0      0      0      1
## [6544,]      0      0      0      1      0      0      0      0      0      0
## [6545,]      0      0      0      0      0      0      0      0      1      0
## [6546,]      0      0      0      1      0      0      0      0      0      0
## [6547,]      0      0      0      0      1      0      0      0      0      0
## [6548,]      0      0      1      0      0      0      0      0      0      0
## [6549,]      0      0      0      0      0      0      1      0      0      0
## [6550,]      0      0      1      0      0      0      0      0      0      0
## [6551,]      0      0      0      0      0      0      0      1      0      0
## [6552,]      0      0      0      0      0      0      1      0      0      0
## [6553,]      0      0      0      0      1      0      0      0      0      0
## [6554,]      0      0      0      0      0      0      1      0      0      0
## [6555,]      0      1      0      0      0      0      0      0      0      0
## [6556,]      0      0      0      0      0      1      0      0      0      0
## [6557,]      0      0      0      0      1      0      0      0      0      0
## [6558,]      0      0      0      0      0      1      0      0      0      0
## [6559,]      0      1      0      0      0      0      0      0      0      0
## [6560,]      0      0      0      1      0      0      0      0      0      0
## [6561,]      0      0      0      0      1      0      0      0      0      0
## [6562,]      0      0      0      1      0      0      0      0      0      0
## [6563,]      0      0      0      0      0      0      1      0      0      0
## [6564,]      0      0      0      0      0      0      0      0      1      0
## [6565,]      0      0      0      0      0      0      0      0      0      1
## [6566,]      0      1      0      0      0      0      0      0      0      0
## [6567,]      0      0      0      0      0      0      0      1      0      0
## [6568,]      0      0      0      0      0      0      1      0      0      0
## [6569,]      0      1      0      0      0      0      0      0      0      0
## [6570,]      0      0      0      0      0      1      0      0      0      0
```

```
## [6571,]     0   1   0   0   0   0   0   0   0   0
## [6572,]     0   0   0   0   0   0   1   0   0   0
## [6573,]     0   0   0   0   0   0   1   0   0   0
## [6574,]     0   0   0   0   0   0   0   0   1   0
## [6575,]     0   0   0   0   0   0   1   0   0   0
## [6576,]     0   1   0   0   0   0   0   0   0   0
## [6577,]     0   0   0   1   0   0   0   0   0   0
## [6578,]     0   0   0   0   0   0   0   0   0   1
## [6579,]     0   0   0   0   0   0   1   0   0   0
## [6580,]     0   0   0   0   0   0   0   1   0   0
## [6581,]     0   0   0   0   0   0   0   0   1   0
## [6582,]     0   0   0   0   0   0   1   0   0   0
## [6583,]     0   0   0   0   0   0   0   0   1   0
## [6584,]     0   0   0   0   0   0   0   0   1   0
## [6585,]     0   0   0   1   0   0   0   0   0   0
## [6586,]     0   0   0   1   0   0   0   0   0   0
## [6587,]     0   1   0   0   0   0   0   0   0   0
## [6588,]     0   0   0   0   0   0   0   1   0   0
## [6589,]     0   0   0   0   0   0   0   0   0   1
## [6590,]     0   0   0   0   0   0   0   0   0   1
## [6591,]     0   0   0   0   0   0   0   1   0   0
## [6592,]     1   0   0   0   0   0   0   0   0   0
## [6593,]     0   0   0   1   0   0   0   0   0   0
## [6594,]     1   0   0   0   0   0   0   0   0   0
## [6595,]     0   0   0   1   0   0   0   0   0   0
## [6596,]     0   0   0   1   0   0   0   0   0   0
## [6597,]     0   0   0   0   1   0   0   0   0   0
## [6598,]     0   0   0   0   0   0   0   1   0   0
## [6599,]     0   0   0   0   1   0   0   0   0   0
## [6600,]     0   0   0   0   0   0   0   0   0   1
## [6601,]     0   0   0   0   0   0   0   1   0   0
## [6602,]     0   0   0   1   0   0   0   0   0   0
## [6603,]     0   0   0   0   0   0   1   0   0   0
## [6604,]     1   0   0   0   0   0   0   0   0   0
## [6605,]     0   0   0   0   0   0   0   0   1   0
## [6606,]     0   0   1   0   0   0   0   0   0   0
## [6607,]     0   0   0   0   0   0   0   0   1   0
## [6608,]     1   0   0   0   0   0   0   0   0   0
## [6609,]     0   0   0   0   1   0   0   0   0   0
## [6610,]     0   1   0   0   0   0   0   0   0   0
## [6611,]     0   0   0   0   0   1   0   0   0   0
## [6612,]     1   0   0   0   0   0   0   0   0   0
## [6613,]     0   0   0   1   0   0   0   0   0   0
## [6614,]     0   1   0   0   0   0   0   0   0   0
## [6615,]     1   0   0   0   0   0   0   0   0   0
## [6616,]     1   0   0   0   0   0   0   0   0   0
## [6617,]     0   0   0   0   0   0   0   1   0   0
## [6618,]     0   1   0   0   0   0   0   0   0   0
## [6619,]     0   0   0   0   0   0   0   0   1   0
## [6620,]     1   0   0   0   0   0   0   0   0   0
## [6621,]     0   0   0   0   0   0   0   0   1   0
## [6622,]     0   0   0   0   1   0   0   0   0   0
## [6623,]     0   0   0   0   0   0   0   0   1   0
## [6624,]     0   0   0   0   0   0   0   1   0   0
```

```
## [6625,]    0    0    1    0    0    0    0    0    0    0
## [6626,]    0    0    0    0    0    0    0    0    0    1
## [6627,]    0    0    1    0    0    0    0    0    0    0
## [6628,]    0    0    1    0    0    0    0    0    0    0
## [6629,]    0    0    1    0    0    0    0    0    0    0
## [6630,]    1    0    0    0    0    0    0    0    0    0
## [6631,]    1    0    0    0    0    0    0    0    0    0
## [6632,]    0    0    0    0    0    0    1    0    0    0
## [6633,]    0    0    0    1    0    0    0    0    0    0
## [6634,]    0    0    1    0    0    0    0    0    0    0
## [6635,]    0    0    0    0    0    0    0    0    0    1
## [6636,]    0    0    0    0    0    0    1    0    0    0
## [6637,]    0    0    0    0    0    1    0    0    0    0
## [6638,]    0    0    1    0    0    0    0    0    0    0
## [6639,]    0    0    0    0    0    0    1    0    0    0
## [6640,]    0    0    1    0    0    0    0    0    0    0
## [6641,]    0    1    0    0    0    0    0    0    0    0
## [6642,]    0    0    0    0    0    0    0    0    0    1
## [6643,]    0    0    1    0    0    0    0    0    0    0
## [6644,]    0    0    0    0    0    0    0    0    0    1
## [6645,]    0    0    0    0    0    1    0    0    0    0
## [6646,]    1    0    0    0    0    0    0    0    0    0
## [6647,]    0    0    0    0    0    1    0    0    0    0
## [6648,]    0    1    0    0    0    0    0    0    0    0
## [6649,]    1    0    0    0    0    0    0    0    0    0
## [6650,]    0    0    1    0    0    0    0    0    0    0
## [6651,]    0    0    0    0    0    0    0    1    0    0
## [6652,]    0    0    0    1    0    0    0    0    0    0
## [6653,]    0    0    0    0    1    0    0    0    0    0
## [6654,]    0    0    0    0    1    0    0    0    0    0
## [6655,]    0    1    0    0    0    0    0    0    0    0
## [6656,]    0    0    0    0    0    1    0    0    0    0
## [6657,]    0    0    0    0    1    0    0    0    0    0
## [6658,]    0    0    0    0    0    0    1    0    0    0
## [6659,]    0    0    0    1    0    0    0    0    0    0
## [6660,]    0    0    0    0    0    0    0    0    1    0
## [6661,]    0    0    0    0    0    1    0    0    0    0
## [6662,]    0    0    0    0    0    0    0    0    0    1
## [6663,]    0    0    0    1    0    0    0    0    0    0
## [6664,]    1    0    0    0    0    0    0    0    0    0
## [6665,]    0    0    0    0    0    1    0    0    0    0
## [6666,]    0    1    0    0    0    0    0    0    0    0
## [6667,]    0    0    0    0    0    0    0    1    0    0
## [6668,]    0    0    0    1    0    0    0    0    0    0
## [6669,]    0    0    0    0    0    0    0    0    0    1
## [6670,]    0    0    0    0    1    0    0    0    0    0
## [6671,]    0    0    0    0    0    0    1    0    0    0
## [6672,]    0    0    0    0    0    1    0    0    0    0
## [6673,]    0    0    0    0    1    0    0    0    0    0
## [6674,]    0    0    0    0    0    0    1    0    0    0
## [6675,]    0    0    0    0    1    0    0    0    0    0
## [6676,]    0    0    0    0    0    0    0    1    0    0
## [6677,]    1    0    0    0    0    0    0    0    0    0
## [6678,]    0    0    0    0    0    0    0    0    1    0
```

```
## [6679,]     0    1    0    0    0    0    0    0    0    0
## [6680,]     0    0    0    0    0    0    0    0    0    1
## [6681,]     0    0    0    0    0    1    0    0    0    0
## [6682,]     1    0    0    0    0    0    0    0    0    0
## [6683,]     0    1    0    0    0    0    0    0    0    0
## [6684,]     0    1    0    0    0    0    0    0    0    0
## [6685,]     1    0    0    0    0    0    0    0    0    0
## [6686,]     0    0    1    0    0    0    0    0    0    0
## [6687,]     0    0    0    0    0    0    0    1    0    0
## [6688,]     0    0    0    1    0    0    0    0    0    0
## [6689,]     0    0    0    0    0    0    0    1    0    0
## [6690,]     0    0    0    0    1    0    0    0    0    0
## [6691,]     0    0    0    0    0    0    1    0    0    0
## [6692,]     0    0    0    0    0    1    0    0    0    0
## [6693,]     0    0    0    0    0    0    1    0    0    0
## [6694,]     0    0    0    0    0    0    1    0    0    0
## [6695,]     0    0    0    0    0    0    0    0    0    1
## [6696,]     0    0    0    0    0    0    0    1    0    0
## [6697,]     0    0    0    0    0    0    0    1    0    0
## [6698,]     0    0    0    0    0    0    0    0    1    0
## [6699,]     0    1    0    0    0    0    0    0    0    0
## [6700,]     0    0    0    0    0    0    0    0    0    1
## [6701,]     1    0    0    0    0    0    0    0    0    0
## [6702,]     0    1    0    0    0    0    0    0    0    0
## [6703,]     0    1    0    0    0    0    0    0    0    0
## [6704,]     0    0    0    0    0    0    0    0    1    0
## [6705,]     1    0    0    0    0    0    0    0    0    0
## [6706,]     0    0    0    0    0    0    1    0    0    0
## [6707,]     0    0    0    1    0    0    0    0    0    0
## [6708,]     0    0    0    0    0    0    0    1    0    0
## [6709,]     1    0    0    0    0    0    0    0    0    0
## [6710,]     0    1    0    0    0    0    0    0    0    0
## [6711,]     0    0    0    1    0    0    0    0    0    0
## [6712,]     0    0    0    1    0    0    0    0    0    0
## [6713,]     0    0    0    0    0    1    0    0    0    0
## [6714,]     0    0    0    0    0    0    0    1    0    0
## [6715,]     0    0    0    0    1    0    0    0    0    0
## [6716,]     0    0    0    0    0    0    0    1    0    0
## [6717,]     0    0    0    0    1    0    0    0    0    0
## [6718,]     0    0    0    0    0    0    0    0    0    1
## [6719,]     0    1    0    0    0    0    0    0    0    0
## [6720,]     0    0    0    1    0    0    0    0    0    0
## [6721,]     0    0    0    0    0    0    1    0    0    0
## [6722,]     0    0    0    0    0    0    1    0    0    0
## [6723,]     0    0    0    0    0    0    0    1    0    0
## [6724,]     1    0    0    0    0    0    0    0    0    0
## [6725,]     0    0    0    0    1    0    0    0    0    0
## [6726,]     0    0    1    0    0    0    0    0    0    0
## [6727,]     0    0    0    0    0    0    1    0    0    0
## [6728,]     0    0    0    0    0    0    1    0    0    0
## [6729,]     0    0    0    0    0    0    0    0    1    0
## [6730,]     0    0    0    0    1    0    0    0    0    0
## [6731,]     1    0    0    0    0    0    0    0    0    0
## [6732,]     0    0    0    0    0    0    0    0    1    0
```

```
## [6733,]    0    0    0    0    0    0    1    0    0    0
## [6734,]    0    0    0    0    1    0    0    0    0    0
## [6735,]    0    0    0    0    0    0    0    0    0    1
## [6736,]    0    0    0    0    0    1    0    0    0    0
## [6737,]    0    1    0    0    0    0    0    0    0    0
## [6738,]    1    0    0    0    0    0    0    0    0    0
## [6739,]    1    0    0    0    0    0    0    0    0    0
## [6740,]    0    0    0    1    0    0    0    0    0    0
## [6741,]    0    0    0    0    0    0    0    1    0    0
## [6742,]    0    0    0    0    0    0    0    0    0    1
## [6743,]    0    0    0    0    0    0    1    0    0    0
## [6744,]    0    0    1    0    0    0    0    0    0    0
## [6745,]    0    0    0    0    0    0    0    0    1    0
## [6746,]    0    1    0    0    0    0    0    0    0    0
## [6747,]    0    0    0    0    0    0    0    0    1    0
## [6748,]    0    1    0    0    0    0    0    0    0    0
## [6749,]    0    1    0    0    0    0    0    0    0    0
## [6750,]    0    0    0    0    0    1    0    0    0    0
## [6751,]    0    0    0    1    0    0    0    0    0    0
## [6752,]    0    0    0    0    0    0    0    0    0    1
## [6753,]    0    0    0    0    0    0    0    1    0    0
## [6754,]    0    0    0    0    1    0    0    0    0    0
## [6755,]    0    0    0    1    0    0    0    0    0    0
## [6756,]    0    0    1    0    0    0    0    0    0    0
## [6757,]    0    0    0    0    0    0    0    1    0    0
## [6758,]    1    0    0    0    0    0    0    0    0    0
## [6759,]    1    0    0    0    0    0    0    0    0    0
## [6760,]    0    0    0    0    1    0    0    0    0    0
## [6761,]    0    0    0    0    0    0    0    0    1    0
## [6762,]    0    0    0    0    1    0    0    0    0    0
## [6763,]    0    0    0    1    0    0    0    0    0    0
## [6764,]    1    0    0    0    0    0    0    0    0    0
## [6765,]    0    0    1    0    0    0    0    0    0    0
## [6766,]    0    0    0    0    0    0    0    0    0    1
## [6767,]    0    0    0    1    0    0    0    0    0    0
## [6768,]    0    0    0    0    0    0    1    0    0    0
## [6769,]    1    0    0    0    0    0    0    0    0    0
## [6770,]    0    0    0    0    0    0    0    0    0    1
## [6771,]    0    0    0    0    0    0    0    1    0    0
## [6772,]    0    0    1    0    0    0    0    0    0    0
## [6773,]    0    0    0    0    0    1    0    0    0    0
## [6774,]    0    0    1    0    0    0    0    0    0    0
## [6775,]    0    0    0    0    0    0    0    0    1    0
## [6776,]    0    1    0    0    0    0    0    0    0    0
## [6777,]    0    0    0    0    0    1    0    0    0    0
## [6778,]    0    0    0    0    0    0    0    1    0    0
## [6779,]    0    0    0    0    1    0    0    0    0    0
## [6780,]    0    0    0    0    0    0    0    0    0    1
## [6781,]    0    0    1    0    0    0    0    0    0    0
## [6782,]    0    0    0    0    0    1    0    0    0    0
## [6783,]    0    0    0    0    0    1    0    0    0    0
## [6784,]    0    1    0    0    0    0    0    0    0    0
## [6785,]    0    0    0    1    0    0    0    0    0    0
## [6786,]    0    1    0    0    0    0    0    0    0    0
```

```
## [6787,]    0    0    0    0    0    1    0    0    0    0
## [6788,]    0    0    0    0    0    0    0    0    0    1
## [6789,]    0    0    0    0    0    0    0    0    1    0
## [6790,]    0    0    0    0    0    0    1    0    0    0
## [6791,]    0    0    0    0    0    0    0    0    0    1
## [6792,]    1    0    0    0    0    0    0    0    0    0
## [6793,]    0    0    0    0    0    0    0    0    1    0
## [6794,]    0    1    0    0    0    0    0    0    0    0
## [6795,]    0    0    0    0    1    0    0    0    0    0
## [6796,]    0    0    0    0    0    0    0    0    1    0
## [6797,]    0    0    0    0    0    0    1    0    0    0
## [6798,]    0    0    0    0    1    0    0    0    0    0
## [6799,]    0    0    0    0    1    0    0    0    0    0
## [6800,]    0    0    0    0    0    0    1    0    0    0
## [6801,]    0    0    0    0    0    0    1    0    0    0
## [6802,]    0    0    0    0    0    0    0    0    1    0
## [6803,]    1    0    0    0    0    0    0    0    0    0
## [6804,]    0    0    0    0    0    0    0    0    1    0
## [6805,]    0    0    0    0    1    0    0    0    0    0
## [6806,]    0    0    1    0    0    0    0    0    0    0
## [6807,]    0    0    0    0    0    0    0    0    1    0
## [6808,]    0    0    0    0    0    0    1    0    0    0
## [6809,]    0    0    0    0    0    0    0    0    1    0
## [6810,]    0    0    0    1    0    0    0    0    0    0
## [6811,]    0    0    0    0    1    0    0    0    0    0
## [6812,]    0    0    1    0    0    0    0    0    0    0
## [6813,]    0    0    0    0    1    0    0    0    0    0
## [6814,]    0    0    0    0    0    0    0    0    0    1
## [6815,]    0    0    0    0    0    0    0    0    1    0
## [6816,]    0    0    1    0    0    0    0    0    0    0
## [6817,]    0    0    0    0    0    0    0    0    1    0
## [6818,]    0    0    0    0    1    0    0    0    0    0
## [6819,]    0    0    0    0    0    0    0    1    0    0
## [6820,]    1    0    0    0    0    0    0    0    0    0
## [6821,]    0    0    0    0    0    0    0    0    0    1
## [6822,]    0    0    0    0    0    0    0    0    0    1
## [6823,]    0    1    0    0    0    0    0    0    0    0
## [6824,]    1    0    0    0    0    0    0    0    0    0
## [6825,]    0    0    0    0    0    0    0    1    0    0
## [6826,]    0    0    0    1    0    0    0    0    0    0
## [6827,]    0    0    0    1    0    0    0    0    0    0
## [6828,]    0    0    0    1    0    0    0    0    0    0
## [6829,]    0    0    0    0    0    0    1    0    0    0
## [6830,]    0    0    0    0    0    1    0    0    0    0
## [6831,]    0    0    0    0    0    1    0    0    0    0
## [6832,]    0    0    0    0    0    0    0    0    1    0
## [6833,]    1    0    0    0    0    0    0    0    0    0
## [6834,]    0    0    0    0    1    0    0    0    0    0
## [6835,]    0    1    0    0    0    0    0    0    0    0
## [6836,]    0    0    0    0    0    0    0    1    0    0
## [6837,]    0    0    0    0    0    1    0    0    0    0
## [6838,]    0    0    0    0    0    0    1    0    0    0
## [6839,]    0    0    0    0    0    0    0    0    0    1
## [6840,]    0    0    1    0    0    0    0    0    0    0
```

```
## [6841,]    0    0    0    0    0    1    0    0    0    0
## [6842,]    0    0    1    0    0    0    0    0    0    0
## [6843,]    0    0    0    0    0    0    0    0    0    1
## [6844,]    0    0    0    0    0    0    0    1    0    0
## [6845,]    0    0    0    1    0    0    0    0    0    0
## [6846,]    0    0    0    0    0    0    0    1    0    0
## [6847,]    0    0    1    0    0    0    0    0    0    0
## [6848,]    1    0    0    0    0    0    0    0    0    0
## [6849,]    0    0    0    0    0    1    0    0    0    0
## [6850,]    0    0    0    0    0    1    0    0    0    0
## [6851,]    0    0    0    0    0    0    0    0    0    1
## [6852,]    0    1    0    0    0    0    0    0    0    0
## [6853,]    0    0    0    0    0    1    0    0    0    0
## [6854,]    0    0    0    0    0    1    0    0    0    0
## [6855,]    0    0    0    0    0    0    1    0    0    0
## [6856,]    0    0    0    1    0    0    0    0    0    0
## [6857,]    0    0    0    1    0    0    0    0    0    0
## [6858,]    1    0    0    0    0    0    0    0    0    0
## [6859,]    0    0    0    1    0    0    0    0    0    0
## [6860,]    0    1    0    0    0    0    0    0    0    0
## [6861,]    0    0    1    0    0    0    0    0    0    0
## [6862,]    0    0    1    0    0    0    0    0    0    0
## [6863,]    0    0    0    0    0    0    0    1    0    0
## [6864,]    0    0    0    1    0    0    0    0    0    0
## [6865,]    0    1    0    0    0    0    0    0    0    0
## [6866,]    0    0    0    0    1    0    0    0    0    0
## [6867,]    0    0    0    0    0    0    0    1    0    0
## [6868,]    0    0    0    0    0    1    0    0    0    0
## [6869,]    0    0    0    0    0    1    0    0    0    0
## [6870,]    0    0    0    0    0    0    1    0    0    0
## [6871,]    0    1    0    0    0    0    0    0    0    0
## [6872,]    0    0    0    0    0    0    0    1    0    0
## [6873,]    0    0    0    0    0    0    0    0    0    1
## [6874,]    0    0    0    0    0    0    0    0    1    0
## [6875,]    0    0    0    0    0    0    1    0    0    0
## [6876,]    1    0    0    0    0    0    0    0    0    0
## [6877,]    0    0    0    0    0    0    1    0    0    0
## [6878,]    0    1    0    0    0    0    0    0    0    0
## [6879,]    0    0    0    0    0    0    0    1    0    0
## [6880,]    0    0    0    0    1    0    0    0    0    0
## [6881,]    0    1    0    0    0    0    0    0    0    0
## [6882,]    0    0    0    0    0    0    0    1    0    0
## [6883,]    0    0    0    0    0    0    0    1    0    0
## [6884,]    1    0    0    0    0    0    0    0    0    0
## [6885,]    0    0    0    0    0    1    0    0    0    0
## [6886,]    0    1    0    0    0    0    0    0    0    0
## [6887,]    0    0    0    0    0    0    0    0    0    1
## [6888,]    0    0    0    0    1    0    0    0    0    0
## [6889,]    0    0    0    0    0    1    0    0    0    0
## [6890,]    0    0    0    0    0    0    0    1    0    0
## [6891,]    0    0    0    0    1    0    0    0    0    0
## [6892,]    0    0    0    0    0    0    0    0    1    0
## [6893,]    0    0    0    1    0    0    0    0    0    0
## [6894,]    0    0    0    0    0    0    0    0    0    1
```

```
## [6895,]    0    0    0    1    0    0    0    0    0    0
## [6896,]    0    0    0    0    0    0    1    0    0    0
## [6897,]    0    0    0    0    0    0    0    0    1    0
## [6898,]    0    0    0    0    0    0    0    0    1    0
## [6899,]    0    0    0    1    0    0    0    0    0    0
## [6900,]    0    0    1    0    0    0    0    0    0    0
## [6901,]    0    1    0    0    0    0    0    0    0    0
## [6902,]    0    0    0    0    1    0    0    0    0    0
## [6903,]    0    0    0    0    0    0    0    1    0    0
## [6904,]    0    0    0    0    0    0    1    0    0    0
## [6905,]    0    0    0    1    0    0    0    0    0    0
## [6906,]    0    0    0    0    0    0    0    0    1    0
## [6907,]    0    0    0    1    0    0    0    0    0    0
## [6908,]    0    0    0    0    0    0    1    0    0    0
## [6909,]    0    0    0    0    0    0    0    1    0    0
## [6910,]    0    0    0    0    0    0    1    0    0    0
## [6911,]    0    0    1    0    0    0    0    0    0    0
## [6912,]    0    0    0    0    0    0    0    1    0    0
## [6913,]    0    0    0    1    0    0    0    0    0    0
## [6914,]    0    1    0    0    0    0    0    0    0    0
## [6915,]    0    0    0    0    0    0    0    1    0    0
## [6916,]    0    0    0    0    0    0    0    1    0    0
## [6917,]    0    0    0    0    0    0    0    0    1    0
## [6918,]    1    0    0    0    0    0    0    0    0    0
## [6919,]    0    0    0    0    0    0    0    0    0    1
## [6920,]    0    0    1    0    0    0    0    0    0    0
## [6921,]    0    0    0    1    0    0    0    0    0    0
## [6922,]    0    0    1    0    0    0    0    0    0    0
## [6923,]    0    0    0    0    0    0    0    0    0    1
## [6924,]    1    0    0    0    0    0    0    0    0    0
## [6925,]    0    0    0    0    0    0    0    0    1    0
## [6926,]    0    1    0    0    0    0    0    0    0    0
## [6927,]    0    1    0    0    0    0    0    0    0    0
## [6928,]    0    0    0    0    0    0    1    0    0    0
## [6929,]    1    0    0    0    0    0    0    0    0    0
## [6930,]    0    0    0    0    0    1    0    0    0    0
## [6931,]    0    0    0    0    0    0    1    0    0    0
## [6932,]    0    1    0    0    0    0    0    0    0    0
## [6933,]    0    0    0    0    0    0    0    1    0    0
## [6934,]    0    0    1    0    0    0    0    0    0    0
## [6935,]    0    0    0    0    0    0    0    0    0    1
## [6936,]    1    0    0    0    0    0    0    0    0    0
## [6937,]    0    0    0    0    0    1    0    0    0    0
## [6938,]    0    0    1    0    0    0    0    0    0    0
## [6939,]    0    0    0    0    0    0    0    0    1    0
## [6940,]    0    0    0    1    0    0    0    0    0    0
## [6941,]    0    0    0    0    0    0    0    0    1    0
## [6942,]    0    0    0    0    1    0    0    0    0    0
## [6943,]    0    0    0    0    0    0    0    0    1    0
## [6944,]    0    0    0    0    0    0    0    0    1    0
## [6945,]    0    0    1    0    0    0    0    0    0    0
## [6946,]    0    0    0    1    0    0    0    0    0    0
## [6947,]    0    1    0    0    0    0    0    0    0    0
## [6948,]    0    0    0    0    0    0    0    1    0    0
```

```
## [6949,]    0    0    1    0    0    0    0    0    0    0
## [6950,]    0    0    0    0    1    0    0    0    0    0
## [6951,]    0    0    0    0    0    0    0    0    0    1
## [6952,]    0    1    0    0    0    0    0    0    0    0
## [6953,]    0    0    0    0    0    0    0    0    1    0
## [6954,]    0    0    0    0    0    0    0    1    0    0
## [6955,]    0    0    0    0    0    0    1    0    0    0
## [6956,]    0    0    0    0    1    0    0    0    0    0
## [6957,]    0    0    0    0    0    0    0    1    0    0
## [6958,]    0    0    0    0    0    0    0    0    1    0
## [6959,]    1    0    0    0    0    0    0    0    0    0
## [6960,]    0    0    0    1    0    0    0    0    0    0
## [6961,]    1    0    0    0    0    0    0    0    0    0
## [6962,]    0    0    0    0    0    0    0    0    0    1
## [6963,]    0    0    0    0    0    0    0    0    1    0
## [6964,]    0    0    0    0    0    0    1    0    0    0
## [6965,]    0    0    0    0    0    0    0    0    0    1
## [6966,]    0    0    0    0    0    0    0    1    0    0
## [6967,]    0    0    0    1    0    0    0    0    0    0
## [6968,]    1    0    0    0    0    0    0    0    0    0
## [6969,]    1    0    0    0    0    0    0    0    0    0
## [6970,]    0    0    0    0    0    0    0    0    0    1
## [6971,]    1    0    0    0    0    0    0    0    0    0
## [6972,]    0    0    0    0    0    0    1    0    0    0
## [6973,]    1    0    0    0    0    0    0    0    0    0
## [6974,]    1    0    0    0    0    0    0    0    0    0
## [6975,]    0    0    1    0    0    0    0    0    0    0
## [6976,]    0    0    0    0    0    0    1    0    0    0
## [6977,]    0    0    0    0    0    0    0    0    1    0
## [6978,]    0    1    0    0    0    0    0    0    0    0
## [6979,]    0    0    0    0    0    1    0    0    0    0
## [6980,]    1    0    0    0    0    0    0    0    0    0
## [6981,]    0    0    0    0    0    1    0    0    0    0
## [6982,]    0    0    0    0    0    1    0    0    0    0
## [6983,]    0    0    0    0    0    0    1    0    0    0
## [6984,]    0    0    0    0    0    1    0    0    0    0
## [6985,]    0    0    0    0    0    1    0    0    0    0
## [6986,]    0    1    0    0    0    0    0    0    0    0
## [6987,]    0    0    0    0    0    0    0    1    0    0
## [6988,]    1    0    0    0    0    0    0    0    0    0
## [6989,]    0    0    0    0    0    1    0    0    0    0
## [6990,]    0    1    0    0    0    0    0    0    0    0
## [6991,]    0    0    0    0    1    0    0    0    0    0
## [6992,]    1    0    0    0    0    0    0    0    0    0
## [6993,]    0    0    1    0    0    0    0    0    0    0
## [6994,]    0    0    0    0    0    0    0    0    0    1
## [6995,]    0    0    0    0    0    0    0    0    1    0
## [6996,]    0    0    0    0    1    0    0    0    0    0
## [6997,]    0    0    0    0    1    0    0    0    0    0
## [6998,]    0    0    0    0    0    1    0    0    0    0
## [6999,]    0    1    0    0    0    0    0    0    0    0
## [7000,]    0    0    0    0    0    0    0    0    0    1
## [7001,]    0    0    0    0    0    0    0    0    1    0
## [7002,]    0    0    0    0    0    0    0    1    0    0
```

```
## [7003,]    0    0    0    0    1    0    0    0    0    0
## [7004,]    1    0    0    0    0    0    0    0    0    0
## [7005,]    1    0    0    0    0    0    0    0    0    0
## [7006,]    0    0    1    0    0    0    0    0    0    0
## [7007,]    0    0    0    0    0    0    0    0    0    1
## [7008,]    0    1    0    0    0    0    0    0    0    0
## [7009,]    0    0    0    0    0    0    1    0    0    0
## [7010,]    0    0    0    0    1    0    0    0    0    0
## [7011,]    0    0    0    0    0    0    0    1    0    0
## [7012,]    0    0    0    0    1    0    0    0    0    0
## [7013,]    1    0    0    0    0    0    0    0    0    0
## [7014,]    0    0    0    0    0    0    0    0    0    1
## [7015,]    0    0    1    0    0    0    0    0    0    0
## [7016,]    0    0    0    0    0    0    1    0    0    0
## [7017,]    0    0    0    0    0    0    0    0    0    1
## [7018,]    0    0    0    0    0    0    0    1    0    0
## [7019,]    1    0    0    0    0    0    0    0    0    0
## [7020,]    0    0    0    0    1    0    0    0    0    0
## [7021,]    0    1    0    0    0    0    0    0    0    0
## [7022,]    0    0    0    0    0    0    0    0    1    0
## [7023,]    0    1    0    0    0    0    0    0    0    0
## [7024,]    0    0    0    0    0    0    0    0    0    1
## [7025,]    0    0    0    0    0    1    0    0    0    0
## [7026,]    1    0    0    0    0    0    0    0    0    0
## [7027,]    0    0    0    0    0    0    0    0    1    0
## [7028,]    0    1    0    0    0    0    0    0    0    0
## [7029,]    0    0    0    0    0    0    0    1    0    0
## [7030,]    0    0    1    0    0    0    0    0    0    0
## [7031,]    0    0    0    1    0    0    0    0    0    0
## [7032,]    0    0    0    1    0    0    0    0    0    0
## [7033,]    0    0    0    0    0    1    0    0    0    0
## [7034,]    0    0    0    0    0    0    0    1    0    0
## [7035,]    0    0    0    0    0    0    0    0    1    0
## [7036,]    0    0    0    0    0    0    0    0    1    0
## [7037,]    0    0    0    0    1    0    0    0    0    0
## [7038,]    1    0    0    0    0    0    0    0    0    0
## [7039,]    1    0    0    0    0    0    0    0    0    0
## [7040,]    0    1    0    0    0    0    0    0    0    0
## [7041,]    0    1    0    0    0    0    0    0    0    0
## [7042,]    0    0    1    0    0    0    0    0    0    0
## [7043,]    0    0    0    0    0    0    0    0    1    0
## [7044,]    0    0    0    1    0    0    0    0    0    0
## [7045,]    0    0    0    0    0    1    0    0    0    0
## [7046,]    0    0    0    0    1    0    0    0    0    0
## [7047,]    0    0    0    1    0    0    0    0    0    0
## [7048,]    0    0    0    0    0    1    0    0    0    0
## [7049,]    0    0    0    0    0    0    0    0    1    0
## [7050,]    0    0    0    0    0    0    1    0    0    0
## [7051,]    1    0    0    0    0    0    0    0    0    0
## [7052,]    0    0    0    0    0    0    0    0    1    0
## [7053,]    1    0    0    0    0    0    0    0    0    0
## [7054,]    0    0    0    0    0    0    0    0    0    1
## [7055,]    0    0    0    0    0    0    0    1    0    0
## [7056,]    1    0    0    0    0    0    0    0    0    0
```

```
## [7057,]     0   0   0   0   0   0   0   0   0   1
## [7058,]     0   1   0   0   0   0   0   0   0   0
## [7059,]     0   0   0   1   0   0   0   0   0   0
## [7060,]     0   0   0   0   0   0   0   1   0   0
## [7061,]     0   1   0   0   0   0   0   0   0   0
## [7062,]     0   0   0   0   0   0   0   0   0   1
## [7063,]     1   0   0   0   0   0   0   0   0   0
## [7064,]     0   0   0   0   0   0   1   0   0   0
## [7065,]     0   0   0   0   0   0   1   0   0   0
## [7066,]     0   0   0   1   0   0   0   0   0   0
## [7067,]     1   0   0   0   0   0   0   0   0   0
## [7068,]     0   0   0   1   0   0   0   0   0   0
## [7069,]     0   0   0   0   0   1   0   0   0   0
## [7070,]     0   0   0   0   0   0   0   0   0   1
## [7071,]     0   0   0   0   0   0   0   0   0   1
## [7072,]     0   0   0   0   0   0   0   0   0   1
## [7073,]     0   0   1   0   0   0   0   0   0   0
## [7074,]     0   0   0   0   0   1   0   0   0   0
## [7075,]     0   1   0   0   0   0   0   0   0   0
## [7076,]     0   1   0   0   0   0   0   0   0   0
## [7077,]     0   0   0   0   0   0   0   0   1   0
## [7078,]     0   0   0   0   1   0   0   0   0   0
## [7079,]     0   1   0   0   0   0   0   0   0   0
## [7080,]     0   0   1   0   0   0   0   0   0   0
## [7081,]     0   0   0   1   0   0   0   0   0   0
## [7082,]     0   0   0   0   0   1   0   0   0   0
## [7083,]     0   0   1   0   0   0   0   0   0   0
## [7084,]     0   0   0   0   1   0   0   0   0   0
## [7085,]     0   1   0   0   0   0   0   0   0   0
## [7086,]     0   0   0   0   0   0   0   1   0   0
## [7087,]     0   0   0   0   0   0   1   0   0   0
## [7088,]     0   0   0   0   0   0   0   0   0   1
## [7089,]     0   0   1   0   0   0   0   0   0   0
## [7090,]     0   1   0   0   0   0   0   0   0   0
## [7091,]     0   0   0   0   1   0   0   0   0   0
## [7092,]     0   0   0   0   0   1   0   0   0   0
## [7093,]     0   0   0   0   0   0   0   1   0   0
## [7094,]     0   0   1   0   0   0   0   0   0   0
## [7095,]     0   0   0   0   0   0   0   0   0   1
## [7096,]     0   0   0   0   0   0   1   0   0   0
## [7097,]     0   0   0   0   0   0   1   0   0   0
## [7098,]     0   0   0   1   0   0   0   0   0   0
## [7099,]     0   0   0   0   0   0   0   0   0   1
## [7100,]     0   0   0   0   0   0   0   1   0   0
## [7101,]     0   0   0   0   1   0   0   0   0   0
## [7102,]     0   0   0   0   0   0   0   0   1   0
## [7103,]     0   0   0   0   0   0   1   0   0   0
## [7104,]     0   0   0   0   0   1   0   0   0   0
## [7105,]     0   0   0   0   0   0   1   0   0   0
## [7106,]     0   1   0   0   0   0   0   0   0   1
## [7107,]     0   0   0   1   0   0   0   0   0   0
## [7108,]     0   0   1   0   0   0   0   0   0   0
## [7109,]     0   0   0   0   0   0   0   0   0   1
## [7110,]     0   0   0   0   0   0   1   0   0   0
```

```
## [7111,]    0    0    0    0    0    0    0    0    0    1
## [7112,]    0    0    0    0    0    0    1    0    0    0
## [7113,]    0    0    0    0    0    1    0    0    0    0
## [7114,]    0    0    0    0    0    0    0    1    0    0
## [7115,]    0    0    0    0    0    1    0    0    0    0
## [7116,]    0    0    0    0    0    0    0    0    1    0
## [7117,]    0    1    0    0    0    0    0    0    0    0
## [7118,]    0    0    0    0    0    0    0    0    1    0
## [7119,]    0    0    0    0    0    0    0    0    0    1
## [7120,]    0    1    0    0    0    0    0    0    0    0
## [7121,]    0    0    0    0    1    0    0    0    0    0
## [7122,]    0    0    0    0    0    0    0    0    1    0
## [7123,]    0    0    0    0    0    0    0    0    1    0
## [7124,]    0    0    0    1    0    0    0    0    0    0
## [7125,]    0    0    0    0    1    0    0    0    0    0
## [7126,]    0    0    0    0    0    0    0    1    0    0
## [7127,]    0    0    0    0    0    0    1    0    0    0
## [7128,]    1    0    0    0    0    0    0    0    0    0
## [7129,]    1    0    0    0    0    0    0    0    0    0
## [7130,]    1    0    0    0    0    0    0    0    0    0
## [7131,]    1    0    0    0    0    0    0    0    0    0
## [7132,]    0    1    0    0    0    0    0    0    0    0
## [7133,]    0    0    0    1    0    0    0    0    0    0
## [7134,]    0    0    0    0    0    1    0    0    0    0
## [7135,]    0    0    0    1    0    0    0    0    0    0
## [7136,]    1    0    0    0    0    0    0    0    0    0
## [7137,]    0    0    0    0    0    0    0    0    1    0
## [7138,]    0    0    0    0    0    1    0    0    0    0
## [7139,]    0    1    0    0    0    0    0    0    0    0
## [7140,]    0    0    1    0    0    0    0    0    0    0
## [7141,]    0    0    1    0    0    0    0    0    0    0
## [7142,]    0    0    0    0    0    0    0    0    1    0
## [7143,]    0    0    0    0    0    0    0    0    1    0
## [7144,]    1    0    0    0    0    0    0    0    0    0
## [7145,]    0    0    0    0    0    1    0    0    0    0
## [7146,]    0    0    0    0    1    0    0    0    0    0
## [7147,]    0    0    1    0    0    0    0    0    0    0
## [7148,]    0    0    0    1    0    0    0    0    0    0
## [7149,]    0    0    0    0    0    0    0    0    0    1
## [7150,]    0    1    0    0    0    0    0    0    0    0
## [7151,]    0    0    0    1    0    0    0    0    0    0
## [7152,]    0    0    0    0    0    0    0    0    1    0
## [7153,]    0    0    0    0    1    0    0    0    0    0
## [7154,]    0    0    1    0    0    0    0    0    0    0
## [7155,]    0    0    0    0    0    1    0    0    0    0
## [7156,]    0    0    0    0    0    0    0    0    0    1
## [7157,]    0    0    0    1    0    0    0    0    0    0
## [7158,]    0    0    0    0    0    0    0    0    0    1
## [7159,]    1    0    0    0    0    0    0    0    0    0
## [7160,]    0    0    0    0    0    1    0    0    0    0
## [7161,]    0    1    0    0    0    0    0    0    0    0
## [7162,]    0    0    1    0    0    0    0    0    0    0
## [7163,]    0    0    0    1    0    0    0    0    0    0
## [7164,]    0    0    0    0    0    0    1    0    0    0
```

```
## [7165,]   1   0   0   0   0   0   0   0   0   0
## [7166,]   0   0   0   0   0   1   0   0   0   0
## [7167,]   0   0   0   0   1   0   0   0   0   0
## [7168,]   0   0   0   0   0   0   0   1   0   0
## [7169,]   0   0   0   0   0   0   0   0   1   0
## [7170,]   0   1   0   0   0   0   0   0   0   0
## [7171,]   0   0   1   0   0   0   0   0   0   0
## [7172,]   0   0   0   0   0   0   0   0   0   1
## [7173,]   0   0   0   0   0   1   0   0   0   0
## [7174,]   0   0   0   0   0   0   0   1   0   0
## [7175,]   0   0   0   0   0   0   0   1   0   0
## [7176,]   0   1   0   0   0   0   0   0   0   0
## [7177,]   0   1   0   0   0   0   0   0   0   0
## [7178,]   0   0   1   0   0   0   0   0   0   0
## [7179,]   0   0   0   0   1   0   0   0   0   0
## [7180,]   0   0   0   0   0   0   1   0   0   0
## [7181,]   0   0   0   0   0   0   0   0   0   1
## [7182,]   1   0   0   0   0   0   0   0   0   0
## [7183,]   0   0   0   0   0   0   0   0   1   0
## [7184,]   1   0   0   0   0   0   0   0   0   0
## [7185,]   0   0   0   0   0   0   0   0   1   0
## [7186,]   0   1   0   0   0   0   0   0   0   0
## [7187,]   0   0   0   0   1   0   0   0   0   0
## [7188,]   0   0   1   0   0   0   0   0   0   0
## [7189,]   0   1   0   0   0   0   0   0   0   0
## [7190,]   0   0   0   1   0   0   0   0   0   0
## [7191,]   0   0   0   0   0   0   0   0   1   0
## [7192,]   0   0   0   0   1   0   0   0   0   0
## [7193,]   0   0   0   1   0   0   0   0   0   0
## [7194,]   0   0   0   0   0   1   0   0   0   0
## [7195,]   0   0   0   0   0   0   0   0   0   1
## [7196,]   0   0   0   0   0   0   1   0   0   0
## [7197,]   0   0   1   0   0   0   0   0   0   0
## [7198,]   0   0   0   0   0   0   0   1   0   0
## [7199,]   0   0   0   0   0   0   0   0   0   1
## [7200,]   0   0   0   0   0   0   0   0   1   0
## [7201,]   0   0   0   0   0   0   0   0   0   1
## [7202,]   0   0   0   0   0   0   0   0   0   1
## [7203,]   0   0   0   0   0   0   1   0   0   0
## [7204,]   1   0   0   0   0   0   0   0   0   0
## [7205,]   0   0   0   0   1   0   0   0   0   0
## [7206,]   0   1   0   0   0   0   0   0   0   0
## [7207,]   0   0   0   0   0   0   1   0   0   0
## [7208,]   0   0   1   0   0   0   0   0   0   0
## [7209,]   0   0   0   0   0   0   0   0   0   1
## [7210,]   0   0   0   1   0   0   0   0   0   0
## [7211,]   0   0   0   0   0   0   0   1   0   0
## [7212,]   0   0   0   0   1   0   0   0   0   0
## [7213,]   0   0   0   0   0   0   1   0   0   0
## [7214,]   0   0   0   0   0   0   0   1   0   0
## [7215,]   0   0   0   1   0   0   0   0   0   0
## [7216,]   0   0   0   0   0   0   0   0   1   0
## [7217,]   0   0   0   0   0   1   0   0   0   0
## [7218,]   0   0   0   0   0   0   0   0   0   1
```

```
## [7219,]    0    0    0    0    0    0    0    0    1    0
## [7220,]    1    0    0    0    0    0    0    0    0    0
## [7221,]    0    0    0    0    0    0    1    0    0    0
## [7222,]    0    1    0    0    0    0    0    0    0    0
## [7223,]    0    1    0    0    0    0    0    0    0    0
## [7224,]    0    0    1    0    0    0    0    0    0    0
## [7225,]    0    0    0    0    0    0    1    0    0    0
## [7226,]    0    0    0    1    0    0    0    0    0    0
## [7227,]    0    0    0    0    0    0    0    1    0    0
## [7228,]    0    0    0    0    1    0    0    0    0    0
## [7229,]    0    0    0    0    0    0    0    0    1    0
## [7230,]    0    0    0    0    0    0    0    1    0    0
## [7231,]    0    0    0    0    0    0    1    0    0    0
## [7232,]    0    0    0    0    0    0    0    0    1    0
## [7233,]    0    0    0    0    0    1    0    0    0    0
## [7234,]    0    0    0    0    0    0    0    0    0    1
## [7235,]    0    1    0    0    0    0    0    0    0    0
## [7236,]    0    0    0    0    0    1    0    0    0    0
## [7237,]    0    0    0    0    0    0    0    1    0    0
## [7238,]    0    1    0    0    0    0    0    0    0    0
## [7239,]    0    0    0    0    0    1    0    0    0    0
## [7240,]    0    0    0    0    0    0    0    0    0    1
## [7241,]    0    1    0    0    0    0    0    0    0    0
## [7242,]    0    0    0    0    0    0    0    0    0    1
## [7243,]    0    0    1    0    0    0    0    0    0    0
## [7244,]    1    0    0    0    0    0    0    0    0    0
## [7245,]    0    0    0    0    0    1    0    0    0    0
## [7246,]    0    0    0    0    0    0    0    0    0    1
## [7247,]    0    0    0    0    0    1    0    0    0    0
## [7248,]    1    0    0    0    0    0    0    0    0    0
## [7249,]    0    0    0    0    1    0    0    0    0    0
## [7250,]    0    0    0    0    0    1    0    0    0    0
## [7251,]    0    0    0    1    0    0    0    0    0    0
## [7252,]    0    0    0    0    0    0    0    0    0    1
## [7253,]    0    0    0    0    0    0    0    0    0    1
## [7254,]    0    1    0    0    0    0    0    0    0    0
## [7255,]    1    0    0    0    0    0    0    0    0    0
## [7256,]    0    0    0    0    0    0    0    1    0    0
## [7257,]    0    0    0    0    0    0    0    0    0    1
## [7258,]    0    0    1    0    0    0    0    0    0    0
## [7259,]    0    0    0    0    0    0    0    0    0    1
## [7260,]    0    0    1    0    0    0    0    0    0    0
## [7261,]    0    0    0    0    0    1    0    0    0    0
## [7262,]    0    0    0    1    0    0    0    0    0    0
## [7263,]    0    0    1    0    0    0    0    0    0    0
## [7264,]    0    0    0    1    0    0    0    0    0    0
## [7265,]    0    0    0    0    0    0    0    0    0    1
## [7266,]    0    0    1    0    0    0    0    0    0    0
## [7267,]    0    0    1    0    0    0    0    0    0    0
## [7268,]    1    0    0    0    0    0    0    0    0    0
## [7269,]    0    0    0    0    0    0    1    0    0    0
## [7270,]    0    0    0    0    0    0    0    0    0    1
## [7271,]    0    0    0    0    0    1    0    0    0    0
## [7272,]    1    0    0    0    0    0    0    0    0    0
```

```
## [7273,]    1    0    0    0    0    0    0    0    0    0
## [7274,]    0    0    0    0    0    0    1    0    0    0
## [7275,]    0    0    0    0    0    0    0    0    0    1
## [7276,]    0    1    0    0    0    0    0    0    0    0
## [7277,]    0    0    0    0    0    1    0    0    0    0
## [7278,]    0    0    0    0    0    0    0    1    0    0
## [7279,]    0    0    0    0    0    0    0    1    0    0
## [7280,]    0    0    0    0    0    1    0    0    0    0
## [7281,]    0    0    0    0    1    0    0    0    0    0
## [7282,]    1    0    0    0    0    0    0    0    0    0
## [7283,]    0    0    0    0    1    0    0    0    0    0
## [7284,]    0    0    0    1    0    0    0    0    0    0
## [7285,]    0    0    0    0    0    0    0    1    0    0
## [7286,]    0    0    0    0    1    0    0    0    0    0
## [7287,]    1    0    0    0    0    0    0    0    0    0
## [7288,]    0    0    0    0    0    0    0    1    0    0
## [7289,]    0    0    0    1    0    0    0    0    0    0
## [7290,]    0    0    0    0    0    0    1    0    0    0
## [7291,]    0    0    0    0    0    0    0    0    1    0
## [7292,]    0    0    0    0    0    0    1    0    0    0
## [7293,]    0    0    1    0    0    0    0    0    0    0
## [7294,]    0    0    0    1    0    0    0    0    0    0
## [7295,]    0    0    0    0    0    0    1    0    0    0
## [7296,]    0    0    0    1    0    0    0    0    0    0
## [7297,]    0    0    0    0    1    0    0    0    0    0
## [7298,]    0    0    0    0    0    0    0    0    1    0
## [7299,]    0    0    0    0    0    0    1    0    0    0
## [7300,]    0    0    0    0    1    0    0    0    0    0
## [7301,]    0    0    0    0    0    0    0    0    1    0
## [7302,]    0    0    0    0    0    0    0    1    0    0
## [7303,]    0    0    0    0    0    1    0    0    0    0
## [7304,]    0    1    0    0    0    0    0    0    0    0
## [7305,]    0    0    0    0    0    0    0    1    0    0
## [7306,]    1    0    0    0    0    0    0    0    0    0
## [7307,]    0    0    0    0    0    0    0    1    0    0
## [7308,]    0    0    0    0    0    0    0    0    1    0
## [7309,]    0    0    0    0    0    0    0    0    1    0
## [7310,]    0    0    0    0    0    0    0    1    0    0
## [7311,]    0    0    0    0    0    0    0    0    0    1
## [7312,]    0    0    0    0    0    1    0    0    0    0
## [7313,]    0    0    0    0    0    0    0    0    0    1
## [7314,]    0    0    1    0    0    0    0    0    0    0
## [7315,]    0    0    0    0    0    0    0    1    0    0
## [7316,]    0    1    0    0    0    0    0    0    0    0
## [7317,]    0    0    0    0    0    0    0    0    1    0
## [7318,]    0    1    0    0    0    0    0    0    0    0
## [7319,]    1    0    0    0    0    0    0    0    0    0
## [7320,]    0    0    0    0    1    0    0    0    0    0
## [7321,]    0    0    0    0    0    0    0    0    1    0
## [7322,]    0    0    0    0    0    1    0    0    0    0
## [7323,]    0    0    0    1    0    0    0    0    0    0
## [7324,]    0    0    0    0    0    1    0    0    0    0
## [7325,]    0    1    0    0    0    0    0    0    0    0
## [7326,]    1    0    0    0    0    0    0    0    0    0
```

```
## [7327,]    0    0    1    0    0    0    0    0    0    0
## [7328,]    0    0    0    0    1    0    0    0    0    0
## [7329,]    0    0    0    0    0    0    0    0    1    0
## [7330,]    0    0    0    0    0    0    0    0    1    0
## [7331,]    0    1    0    0    0    0    0    0    0    0
## [7332,]    0    0    0    0    0    0    0    1    0    0
## [7333,]    0    0    0    1    0    0    0    0    0    0
## [7334,]    0    0    0    0    1    0    0    0    0    0
## [7335,]    0    0    0    0    0    0    0    1    0    0
## [7336,]    0    0    0    0    0    0    0    0    0    1
## [7337,]    0    0    0    1    0    0    0    0    0    0
## [7338,]    0    0    1    0    0    0    0    0    0    0
## [7339,]    1    0    0    0    0    0    0    0    0    0
## [7340,]    0    0    0    1    0    0    0    0    0    0
## [7341,]    0    0    0    0    0    0    0    1    0    0
## [7342,]    0    0    0    0    0    0    1    0    0    0
## [7343,]    0    0    0    0    0    0    1    0    0    0
## [7344,]    0    0    0    0    1    0    0    0    0    0
## [7345,]    0    0    1    0    0    0    0    0    0    0
## [7346,]    0    1    0    0    0    0    0    0    0    0
## [7347,]    0    0    0    0    0    1    0    0    0    0
## [7348,]    0    0    1    0    0    0    0    0    0    0
## [7349,]    0    0    0    0    0    0    0    1    0    0
## [7350,]    0    1    0    0    0    0    0    0    0    0
## [7351,]    0    0    0    0    1    0    0    0    0    0
## [7352,]    0    0    0    0    0    1    0    0    0    0
## [7353,]    0    0    0    0    0    0    0    1    0    0
## [7354,]    0    0    1    0    0    0    0    0    0    0
## [7355,]    0    0    0    0    0    1    0    0    0    0
## [7356,]    1    0    0    0    0    0    0    0    0    0
## [7357,]    0    0    0    0    0    0    0    0    1    0
## [7358,]    0    0    0    0    1    0    0    0    0    0
## [7359,]    1    0    0    0    0    0    0    0    0    0
## [7360,]    0    0    0    0    0    0    0    0    1    0
## [7361,]    0    0    1    0    0    0    0    0    0    0
## [7362,]    0    0    0    0    0    0    1    0    0    0
## [7363,]    0    0    0    0    0    0    0    1    0    0
## [7364,]    0    1    0    0    0    0    0    0    0    0
## [7365,]    1    0    0    0    0    0    0    0    0    0
## [7366,]    0    0    0    0    0    0    0    0    0    1
## [7367,]    0    0    0    0    1    0    0    0    0    0
## [7368,]    0    0    0    1    0    0    0    0    0    0
## [7369,]    0    0    0    0    0    1    0    0    0    0
## [7370,]    0    0    1    0    0    0    0    0    0    0
## [7371,]    0    0    1    0    0    0    0    0    0    0
## [7372,]    1    0    0    0    0    0    0    0    0    0
## [7373,]    1    0    0    0    0    0    0    0    0    0
## [7374,]    1    0    0    0    0    0    0    0    0    0
## [7375,]    0    0    0    0    0    1    0    0    0    0
## [7376,]    0    0    1    0    0    0    0    0    0    0
## [7377,]    0    0    0    0    0    0    0    0    1    0
## [7378,]    0    0    0    0    0    1    0    0    0    0
## [7379,]    1    0    0    0    0    0    0    0    0    0
## [7380,]    0    0    0    0    0    0    1    0    0    0
```

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```
## [7381,]     0    0    0    0    0    0    0    1    0    0
## [7382,]     0    0    0    0    0    0    0    0    0    1
## [7383,]     0    0    0    0    0    1    0    0    0    0
## [7384,]     0    0    0    1    0    0    0    0    0    0
## [7385,]     0    0    0    0    0    0    0    1    0    0
## [7386,]     0    0    0    0    0    0    1    0    0    0
## [7387,]     0    0    0    0    0    0    0    1    0    0
## [7388,]     0    0    0    1    0    0    0    0    0    0
## [7389,]     0    0    0    0    0    0    0    1    0    0
## [7390,]     0    0    0    0    0    0    1    0    0    0
## [7391,]     0    0    0    0    0    1    0    0    0    0
## [7392,]     1    0    0    0    0    0    0    0    0    0
## [7393,]     0    0    1    0    0    0    0    0    0    0
## [7394,]     0    1    0    0    0    0    0    0    0    0
## [7395,]     0    0    1    0    0    0    0    0    0    0
## [7396,]     0    0    1    0    0    0    0    0    0    0
## [7397,]     0    0    0    1    0    0    0    0    0    0
## [7398,]     0    0    0    1    0    0    0    0    0    0
## [7399,]     0    0    0    0    0    0    1    0    0    0
## [7400,]     0    0    0    0    1    0    0    0    0    0
## [7401,]     0    0    0    0    0    0    0    0    1    0
## [7402,]     0    0    0    0    0    0    1    0    0    0
## [7403,]     0    1    0    0    0    0    0    0    0    0
## [7404,]     0    0    0    0    0    0    0    1    0    0
## [7405,]     0    1    0    0    0    0    0    0    0    0
## [7406,]     0    0    0    0    0    0    0    0    1    0
## [7407,]     0    1    0    0    0    0    0    0    0    0
## [7408,]     0    0    0    0    0    0    0    0    0    1
## [7409,]     0    0    1    0    0    0    0    0    0    0
## [7410,]     1    0    0    0    0    0    0    0    0    0
## [7411,]     0    1    0    0    0    0    0    0    0    0
## [7412,]     0    1    0    0    0    0    0    0    0    0
## [7413,]     0    0    0    1    0    0    0    0    0    0
## [7414,]     0    0    1    0    0    0    0    0    0    0
## [7415,]     0    0    1    0    0    0    0    0    0    0
## [7416,]     0    0    0    1    0    0    0    0    0    0
## [7417,]     0    0    0    0    0    0    0    0    0    1
## [7418,]     0    0    0    0    1    0    0    0    0    0
## [7419,]     0    0    0    0    0    0    0    1    0    0
## [7420,]     0    0    0    0    0    1    0    0    0    0
## [7421,]     0    0    0    0    0    0    0    1    0    0
## [7422,]     0    1    0    0    0    0    0    0    0    0
## [7423,]     0    0    0    1    0    0    0    0    0    0
## [7424,]     0    0    0    0    0    0    0    1    0    0
## [7425,]     0    1    0    0    0    0    0    0    0    0
## [7426,]     0    0    0    0    0    0    0    0    1    0
## [7427,]     0    0    0    0    1    0    0    0    0    0
## [7428,]     1    0    0    0    0    0    0    0    0    0
## [7429,]     0    0    1    0    0    0    0    0    0    0
## [7430,]     0    1    0    0    0    0    0    0    0    0
## [7431,]     0    0    0    0    0    0    0    0    0    1
## [7432,]     0    0    1    0    0    0    0    0    0    0
## [7433,]     0    0    1    0    0    0    0    0    0    0
## [7434,]     0    0    0    1    0    0    0    0    0    0
```

```
##  [7435,]    0    0    0    0    0    0    1    0    0    0
##  [7436,]    0    1    0    0    0    0    0    0    0    0
##  [7437,]    0    0    0    0    0    0    0    0    1    0
##  [7438,]    0    0    0    0    0    0    0    1    0    0
##  [7439,]    0    0    0    0    0    0    0    1    0    0
##  [7440,]    0    0    0    0    0    0    0    0    1    0
##  [7441,]    0    1    0    0    0    0    0    0    0    0
##  [7442,]    0    0    0    0    0    0    0    0    1    0
##  [7443,]    0    0    0    0    1    0    0    0    0    0
##  [7444,]    0    0    0    0    0    1    0    0    0    0
##  [7445,]    0    0    0    0    0    1    0    0    0    0
##  [7446,]    0    0    0    0    0    0    0    1    0    0
##  [7447,]    0    0    0    0    0    0    0    1    0    0
##  [7448,]    0    0    0    0    0    0    0    0    0    1
##  [7449,]    0    0    0    0    0    1    0    0    0    0
##  [7450,]    0    0    0    0    0    1    0    0    0    0
##  [7451,]    0    0    0    0    0    0    0    0    1    0
##  [7452,]    1    0    0    0    0    0    0    0    0    0
##  [7453,]    0    0    0    0    0    0    1    0    0    0
##  [7454,]    0    0    0    0    0    0    0    0    1    0
##  [7455,]    0    1    0    0    0    0    0    0    0    0
##  [7456,]    0    0    0    1    0    0    0    0    0    0
##  [7457,]    0    0    0    0    0    0    1    0    0    0
##  [7458,]    0    0    0    0    0    1    0    0    0    0
##  [7459,]    1    0    0    0    0    0    0    0    0    0
##  [7460,]    0    0    0    0    1    0    0    0    0    0
##  [7461,]    0    0    0    0    0    0    1    0    0    0
##  [7462,]    0    0    0    0    0    0    0    0    1    0
##  [7463,]    1    0    0    0    0    0    0    0    0    0
##  [7464,]    0    0    0    1    0    0    0    0    0    0
##  [7465,]    0    0    0    0    1    0    0    0    0    0
##  [7466,]    1    0    0    0    0    0    0    0    0    0
##  [7467,]    1    0    0    0    0    0    0    0    0    0
##  [7468,]    0    0    1    0    0    0    0    0    0    0
##  [7469,]    0    0    0    0    0    0    0    0    0    1
##  [7470,]    0    1    0    0    0    0    0    0    0    0
##  [7471,]    0    0    0    0    0    0    0    1    0    0
##  [7472,]    1    0    0    0    0    0    0    0    0    0
##  [7473,]    0    1    0    0    0    0    0    0    0    0
##  [7474,]    0    0    1    0    0    0    0    0    0    0
##  [7475,]    0    0    0    0    0    0    0    0    0    1
##  [7476,]    0    0    0    0    0    1    0    0    0    0
##  [7477,]    0    0    1    0    0    0    0    0    0    0
##  [7478,]    0    0    0    0    0    0    0    0    1    0
##  [7479,]    0    0    0    0    0    0    0    0    0    1
##  [7480,]    0    0    0    0    0    0    0    0    1    0
##  [7481,]    0    0    0    0    0    1    0    0    0    0
##  [7482,]    0    0    0    0    0    1    0    0    0    0
##  [7483,]    0    0    0    0    0    1    0    0    0    0
##  [7484,]    0    0    0    1    0    0    0    0    0    0
##  [7485,]    0    0    1    0    0    0    0    0    0    0
##  [7486,]    1    0    0    0    0    0    0    0    0    0
##  [7487,]    0    0    1    0    0    0    0    0    0    0
##  [7488,]    0    0    0    0    1    0    0    0    0    0
```

```
## [7489,]    0    0    0    0    0    0    0    0    1    0
## [7490,]    0    0    0    0    1    0    0    0    0    0
## [7491,]    0    0    0    0    0    0    1    0    0    0
## [7492,]    0    1    0    0    0    0    0    0    0    0
## [7493,]    0    0    0    0    0    0    0    0    0    1
## [7494,]    0    0    0    0    0    0    1    0    0    0
## [7495,]    0    0    0    0    0    0    0    1    0    0
## [7496,]    0    1    0    0    0    0    0    0    0    0
## [7497,]    0    1    0    0    0    0    0    0    0    0
## [7498,]    0    0    0    1    0    0    0    0    0    0
## [7499,]    0    0    0    0    0    1    0    0    0    0
## [7500,]    1    0    0    0    0    0    0    0    0    0
## [7501,]    0    0    1    0    0    0    0    0    0    0
## [7502,]    0    0    0    1    0    0    0    0    0    0
## [7503,]    0    0    0    0    1    0    0    0    0    0
## [7504,]    0    0    0    0    0    0    1    0    0    0
## [7505,]    0    0    0    0    0    0    1    0    0    0
## [7506,]    0    0    0    0    0    0    0    0    0    1
## [7507,]    1    0    0    0    0    0    0    0    0    0
## [7508,]    0    0    0    1    0    0    0    0    0    0
## [7509,]    0    0    0    0    0    0    0    0    1    0
## [7510,]    0    0    0    0    0    0    0    1    0    0
## [7511,]    0    0    1    0    0    0    0    0    0    0
## [7512,]    0    0    0    0    0    0    0    0    0    1
## [7513,]    0    0    0    0    0    0    0    0    1    0
## [7514,]    0    0    0    0    0    0    0    1    0    0
## [7515,]    0    0    0    0    0    0    0    0    1    0
## [7516,]    1    0    0    0    0    0    0    0    0    0
## [7517,]    0    0    0    0    0    0    1    0    0    0
## [7518,]    0    0    0    0    1    0    0    0    0    0
## [7519,]    0    0    0    0    0    0    0    0    0    1
## [7520,]    0    0    0    0    0    0    0    0    1    0
## [7521,]    0    0    1    0    0    0    0    0    0    0
## [7522,]    0    0    0    1    0    0    0    0    0    0
## [7523,]    0    0    0    0    0    0    1    0    0    0
## [7524,]    0    0    1    0    0    0    0    0    0    0
## [7525,]    0    1    0    0    0    0    0    0    0    0
## [7526,]    0    0    0    0    0    0    0    1    0    0
## [7527,]    0    0    0    0    1    0    0    0    0    0
## [7528,]    0    0    0    0    0    0    0    1    0    0
## [7529,]    0    0    1    0    0    0    0    0    0    0
## [7530,]    0    0    0    0    0    0    0    0    0    1
## [7531,]    0    0    0    0    0    0    0    1    0    0
## [7532,]    0    0    0    0    0    1    0    0    0    0
## [7533,]    0    1    0    0    0    0    0    0    0    0
## [7534,]    0    1    0    0    0    0    0    0    0    0
## [7535,]    0    0    0    0    0    0    0    1    0    0
## [7536,]    0    0    0    0    0    1    0    0    0    0
## [7537,]    0    1    0    0    0    0    0    0    0    0
## [7538,]    0    0    1    0    0    0    0    0    0    0
## [7539,]    0    0    0    0    0    0    0    0    0    1
## [7540,]    0    0    0    0    0    0    0    0    1    0
## [7541,]    0    0    0    0    0    0    0    0    1    0
## [7542,]    0    0    0    0    0    0    0    0    0    1
```

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## [7543,]    0    1    0    0    0    0    0    0    0    0
## [7544,]    0    0    0    0    0    0    1    0    0    0
## [7545,]    0    0    0    0    0    0    1    0    0    0
## [7546,]    0    0    0    0    0    0    0    0    0    1
## [7547,]    0    0    0    0    0    1    0    0    0    0
## [7548,]    0    0    0    0    0    0    0    1    0    0
## [7549,]    1    0    0    0    0    0    0    0    0    0
## [7550,]    0    0    0    0    0    0    1    0    0    0
## [7551,]    0    0    0    0    0    0    0    0    1    0
## [7552,]    0    0    0    0    1    0    0    0    0    0
## [7553,]    1    0    0    0    0    0    0    0    0    0
## [7554,]    0    1    0    0    0    0    0    0    0    0
## [7555,]    0    0    1    0    0    0    0    0    0    0
## [7556,]    0    0    1    0    0    0    0    0    0    0
## [7557,]    0    0    0    1    0    0    0    0    0    0
## [7558,]    1    0    0    0    0    0    0    0    0    0
## [7559,]    0    1    0    0    0    0    0    0    0    0
## [7560,]    0    0    0    0    0    0    1    0    0    0
## [7561,]    0    0    0    0    1    0    0    0    0    0
## [7562,]    0    1    0    0    0    0    0    0    0    0
## [7563,]    0    0    0    0    0    0    1    0    0    0
## [7564,]    0    1    0    0    0    0    0    0    0    0
## [7565,]    0    0    0    0    0    0    1    0    0    0
## [7566,]    0    0    0    0    0    0    0    1    0    0
## [7567,]    1    0    0    0    0    0    0    0    0    0
## [7568,]    0    0    1    0    0    0    0    0    0    0
## [7569,]    0    0    0    0    0    0    0    1    0    0
## [7570,]    0    0    0    1    0    0    0    0    0    0
## [7571,]    0    0    0    0    0    0    0    0    1    0
## [7572,]    0    0    0    0    0    0    1    0    0    0
## [7573,]    0    1    0    0    0    0    0    0    0    0
## [7574,]    0    0    0    0    1    0    0    0    0    0
## [7575,]    0    1    0    0    0    0    0    0    0    0
## [7576,]    0    0    0    0    0    0    0    0    1    0
## [7577,]    0    0    1    0    0    0    0    0    0    0
## [7578,]    0    0    0    0    0    0    1    0    0    0
## [7579,]    0    0    0    0    1    0    0    0    0    0
## [7580,]    0    0    0    0    1    0    0    0    0    0
## [7581,]    0    0    0    0    0    0    1    0    0    0
## [7582,]    0    0    0    0    0    0    1    0    0    0
## [7583,]    0    0    0    1    0    0    0    0    0    0
## [7584,]    0    0    0    0    0    1    0    0    0    0
## [7585,]    0    0    0    1    0    0    0    0    0    0
## [7586,]    1    0    0    0    0    0    0    0    0    0
## [7587,]    0    0    0    0    0    0    0    0    1    0
## [7588,]    0    0    1    0    0    0    0    0    0    0
## [7589,]    0    1    0    0    0    0    0    0    0    0
## [7590,]    1    0    0    0    0    0    0    0    0    0
## [7591,]    0    0    0    1    0    0    0    0    0    0
## [7592,]    0    0    0    0    0    1    0    0    0    0
## [7593,]    0    0    0    0    0    1    0    0    0    0
## [7594,]    0    0    0    0    0    0    1    0    0    0
## [7595,]    0    0    1    0    0    0    0    0    0    0
## [7596,]    0    0    0    0    0    1    0    0    0    0
```

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## [7597,]      0   0   0   0   1   0   0   0   0   0
## [7598,]      1   0   0   0   0   0   0   0   0   0
## [7599,]      0   0   0   0   0   0   1   0   0   0
## [7600,]      0   1   0   0   0   0   0   0   0   0
## [7601,]      0   0   0   1   0   0   0   0   0   0
## [7602,]      0   0   1   0   0   0   0   0   0   0
## [7603,]      0   0   0   0   0   0   0   0   0   1
## [7604,]      0   1   0   0   0   0   0   0   0   0
## [7605,]      0   0   0   0   0   0   0   0   1   0
## [7606,]      0   0   0   0   0   0   0   1   0   0
## [7607,]      0   0   0   0   0   0   0   0   1   0
## [7608,]      0   0   0   0   0   0   0   0   1   0
## [7609,]      0   0   0   0   0   0   0   1   0   0
## [7610,]      0   1   0   0   0   0   0   0   0   0
## [7611,]      0   0   0   0   0   0   0   1   0   0
## [7612,]      0   0   0   0   1   0   0   0   0   0
## [7613,]      0   0   1   0   0   0   0   0   0   0
## [7614,]      0   0   0   1   0   0   0   0   0   0
## [7615,]      0   0   1   0   0   0   0   0   0   0
## [7616,]      0   0   1   0   0   0   0   0   0   0
## [7617,]      0   0   0   0   0   0   0   1   0   0
## [7618,]      0   0   0   0   0   0   0   0   1   0
## [7619,]      0   0   0   1   0   0   0   0   0   0
## [7620,]      0   0   1   0   0   0   0   0   0   0
## [7621,]      0   0   0   0   0   0   0   0   0   1
## [7622,]      0   0   0   0   0   0   0   1   0   0
## [7623,]      0   1   0   0   0   0   0   0   0   0
## [7624,]      0   0   0   0   0   0   0   0   0   1
## [7625,]      0   0   1   0   0   0   0   0   0   0
## [7626,]      0   0   0   1   0   0   0   0   0   0
## [7627,]      0   0   0   1   0   0   0   0   0   0
## [7628,]      0   0   0   0   0   0   0   0   0   1
## [7629,]      0   0   1   0   0   0   0   0   0   0
## [7630,]      1   0   0   0   0   0   0   0   0   0
## [7631,]      0   1   0   0   0   0   0   0   0   0
## [7632,]      0   1   0   0   0   0   0   0   0   0
## [7633,]      0   1   0   0   0   0   0   0   0   0
## [7634,]      0   0   1   0   0   0   0   0   0   0
## [7635,]      0   0   0   1   0   0   0   0   0   0
## [7636,]      0   0   0   1   0   0   0   0   0   0
## [7637,]      0   0   0   0   0   0   0   0   1   0
## [7638,]      0   0   0   0   1   0   0   0   0   0
## [7639,]      0   0   0   0   0   0   0   0   1   0
## [7640,]      0   0   0   0   0   1   0   0   0   0
## [7641,]      0   0   0   0   0   1   0   0   0   0
## [7642,]      0   0   0   0   0   0   1   0   0   0
## [7643,]      0   0   0   0   0   0   0   0   1   0
## [7644,]      0   0   0   0   0   0   0   1   0   0
## [7645,]      0   0   0   0   0   0   0   1   0   0
## [7646,]      0   0   0   0   0   0   0   0   1   0
## [7647,]      0   0   1   0   0   0   0   0   0   0
## [7648,]      0   0   0   0   0   0   0   0   0   1
## [7649,]      1   0   0   0   0   0   0   0   0   0
## [7650,]      1   0   0   0   0   0   0   0   0   0
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## [7651,]    0   1   0   0   0   0   0   0   0   0
## [7652,]    0   1   0   0   0   0   0   0   0   0
## [7653,]    0   0   0   0   1   0   0   0   0   0
## [7654,]    0   0   1   0   0   0   0   0   0   0
## [7655,]    0   0   1   0   0   0   0   0   0   0
## [7656,]    0   0   0   1   0   0   0   0   0   0
## [7657,]    0   1   0   0   0   0   0   0   0   0
## [7658,]    0   0   0   0   1   0   0   0   0   0
## [7659,]    0   1   0   0   0   0   0   0   0   0
## [7660,]    0   0   0   0   0   1   0   0   0   0
## [7661,]    0   0   0   1   0   0   0   0   0   0
## [7662,]    0   0   0   0   0   0   1   0   0   0
## [7663,]    0   0   0   0   0   0   1   0   0   0
## [7664,]    0   0   0   0   0   0   0   1   0   0
## [7665,]    1   0   0   0   0   0   0   0   0   0
## [7666,]    0   0   0   0   0   0   0   0   1   0
## [7667,]    0   0   0   1   0   0   0   0   0   0
## [7668,]    0   0   0   0   0   0   0   0   0   1
## [7669,]    0   1   0   0   0   0   0   0   0   0
## [7670,]    1   0   0   0   0   0   0   0   0   0
## [7671,]    0   0   0   0   0   1   0   0   0   0
## [7672,]    0   1   0   0   0   0   0   0   0   0
## [7673,]    0   0   0   1   0   0   0   0   0   0
## [7674,]    0   0   1   0   0   0   0   0   0   0
## [7675,]    0   0   0   0   0   0   0   0   1   0
## [7676,]    0   0   0   1   0   0   0   0   0   0
## [7677,]    0   0   0   0   0   0   0   0   0   1
## [7678,]    0   0   0   0   1   0   0   0   0   0
## [7679,]    0   0   0   1   0   0   0   0   0   0
## [7680,]    0   0   0   0   0   0   0   1   0   0
## [7681,]    0   0   0   0   0   0   0   0   0   1
## [7682,]    0   0   0   0   0   0   0   0   1   0
## [7683,]    0   0   0   0   0   0   0   0   1   0
## [7684,]    0   0   0   0   0   0   0   0   0   1
## [7685,]    0   0   0   0   0   0   1   0   0   0
## [7686,]    1   0   0   0   0   0   0   0   0   0
## [7687,]    0   0   0   0   0   0   0   1   0   0
## [7688,]    1   0   0   0   0   0   0   0   0   0
## [7689,]    0   0   1   0   0   0   0   0   0   0
## [7690,]    0   1   0   0   0   0   0   0   0   0
## [7691,]    0   0   0   0   0   0   0   0   0   1
## [7692,]    1   0   0   0   0   0   0   0   0   0
## [7693,]    0   0   0   1   0   0   0   0   0   0
## [7694,]    0   1   0   0   0   0   0   0   0   0
## [7695,]    0   0   0   0   0   0   0   1   0   0
## [7696,]    0   0   1   0   0   0   0   0   0   0
## [7697,]    0   1   0   0   0   0   0   0   0   0
## [7698,]    0   0   0   0   0   0   0   1   0   0
## [7699,]    0   0   0   1   0   0   0   0   0   0
## [7700,]    0   0   0   0   0   1   0   0   0   0
## [7701,]    0   0   0   0   0   0   1   0   0   0
## [7702,]    0   0   0   1   0   0   0   0   0   0
## [7703,]    0   0   0   0   0   0   0   0   0   1
## [7704,]    0   0   0   0   1   0   0   0   0   0
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## [7705,]    0    0    0    0    0    0    0    0    1    0
## [7706,]    0    0    0    0    1    0    0    0    0    0
## [7707,]    0    0    1    0    0    0    0    0    0    0
## [7708,]    1    0    0    0    0    0    0    0    0    0
## [7709,]    1    0    0    0    0    0    0    0    0    0
## [7710,]    1    0    0    0    0    0    0    0    0    0
## [7711,]    1    0    0    0    0    0    0    0    0    0
## [7712,]    0    0    0    0    0    0    1    0    0    0
## [7713,]    0    0    0    0    0    0    0    0    1    0
## [7714,]    0    0    0    0    0    0    0    0    0    1
## [7715,]    0    0    0    0    0    0    0    0    0    1
## [7716,]    0    0    0    0    0    0    1    0    0    0
## [7717,]    0    1    0    0    0    0    0    0    0    0
## [7718,]    0    0    0    0    0    0    1    0    0    0
## [7719,]    0    0    0    0    0    0    1    0    0    0
## [7720,]    0    0    1    0    0    0    0    0    0    0
## [7721,]    0    1    0    0    0    0    0    0    0    0
## [7722,]    0    0    0    1    0    0    0    0    0    0
## [7723,]    0    0    0    0    1    0    0    0    0    0
## [7724,]    0    0    0    0    1    0    0    0    0    0
## [7725,]    0    0    0    0    0    0    1    0    0    0
## [7726,]    0    0    0    0    1    0    0    0    0    0
## [7727,]    0    0    0    0    1    0    0    0    0    0
## [7728,]    0    0    0    0    0    0    0    0    0    1
## [7729,]    1    0    0    0    0    0    0    0    0    0
## [7730,]    0    1    0    0    0    0    0    0    0    0
## [7731,]    0    0    0    0    0    0    0    1    0    0
## [7732,]    0    0    0    0    0    0    0    1    0    0
## [7733,]    0    0    1    0    0    0    0    0    0    0
## [7734,]    0    0    0    0    0    0    0    0    0    1
## [7735,]    0    0    0    0    1    0    0    0    0    0
## [7736,]    0    0    0    0    0    1    0    0    0    0
## [7737,]    0    0    1    0    0    0    0    0    0    0
## [7738,]    0    0    0    0    0    0    0    1    0    0
## [7739,]    0    0    0    0    0    1    0    0    0    0
## [7740,]    0    0    0    0    0    1    0    0    0    0
## [7741,]    0    0    0    0    0    1    0    0    0    0
## [7742,]    0    0    0    0    0    0    1    0    0    0
## [7743,]    0    0    0    0    0    0    0    0    0    1
## [7744,]    0    0    1    0    0    0    0    0    0    0
## [7745,]    0    0    0    0    0    0    1    0    0    0
## [7746,]    0    0    0    1    0    0    0    0    0    0
## [7747,]    0    1    0    0    0    0    0    0    0    0
## [7748,]    0    1    0    0    0    0    0    0    0    0
## [7749,]    0    1    0    0    0    0    0    0    0    0
## [7750,]    0    0    0    0    1    0    0    0    0    0
## [7751,]    0    0    0    0    0    0    0    0    1    0
## [7752,]    0    0    0    0    1    0    0    0    0    0
## [7753,]    0    1    0    0    0    0    0    0    0    0
## [7754,]    1    0    0    0    0    0    0    0    0    0
## [7755,]    0    0    0    0    0    0    0    1    0    0
## [7756,]    0    0    0    0    0    0    0    0    0    1
## [7757,]    0    0    0    0    0    0    0    0    0    1
## [7758,]    0    0    0    0    0    0    0    0    0    1
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## [7759,]      0    0    1    0    0    0    0    0    0    0
## [7760,]      0    0    0    0    0    0    1    0    0    0
## [7761,]      0    0    1    0    0    0    0    0    0    0
## [7762,]      0    1    0    0    0    0    0    0    0    0
## [7763,]      0    0    0    1    0    0    0    0    0    0
## [7764,]      0    0    0    0    0    0    0    0    1    0
## [7765,]      0    1    0    0    0    0    0    0    0    0
## [7766,]      0    0    0    1    0    0    0    0    0    0
## [7767,]      0    0    0    1    0    0    0    0    0    0
## [7768,]      0    0    0    1    0    0    0    0    0    0
## [7769,]      0    0    0    0    0    0    0    0    1    0
## [7770,]      0    0    0    0    0    0    0    1    0    0
## [7771,]      0    0    0    0    0    0    0    1    0    0
## [7772,]      0    0    0    1    0    0    0    0    0    0
## [7773,]      0    0    1    0    0    0    0    0    0    0
## [7774,]      0    0    0    0    0    0    0    0    0    1
## [7775,]      0    0    0    0    0    0    0    0    0    1
## [7776,]      0    0    0    0    0    0    0    0    1    0
## [7777,]      0    0    1    0    0    0    0    0    0    0
## [7778,]      0    0    0    0    0    0    0    0    1    0
## [7779,]      0    0    0    1    0    0    0    0    0    0
## [7780,]      0    0    0    0    1    0    0    0    0    0
## [7781,]      0    0    1    0    0    0    0    0    0    0
## [7782,]      0    0    0    0    0    0    0    1    0    0
## [7783,]      0    0    1    0    0    0    0    0    0    0
## [7784,]      0    0    0    0    0    0    0    1    0    0
## [7785,]      0    0    0    1    0    0    0    0    0    0
## [7786,]      0    0    0    0    0    0    1    0    0    0
## [7787,]      1    0    0    0    0    0    0    0    0    0
## [7788,]      0    0    1    0    0    0    0    0    0    0
## [7789,]      0    1    0    0    0    0    0    0    0    0
## [7790,]      0    1    0    0    0    0    0    0    0    0
## [7791,]      0    0    1    0    0    0    0    0    0    0
## [7792,]      0    0    0    0    0    0    0    0    0    1
## [7793,]      0    0    1    0    0    0    0    0    0    0
## [7794,]      0    0    0    0    0    0    0    0    1    0
## [7795,]      0    0    0    1    0    0    0    0    0    0
## [7796,]      0    0    0    0    0    0    0    1    0    0
## [7797,]      0    0    1    0    0    0    0    0    0    0
## [7798,]      0    0    0    0    0    0    0    0    1    0
## [7799,]      0    0    0    0    0    0    0    0    0    1
## [7800,]      0    0    0    0    0    0    0    0    1    0
## [7801,]      0    0    0    1    0    0    0    0    0    0
## [7802,]      0    0    1    0    0    0    0    0    0    0
## [7803,]      0    0    0    0    0    1    0    0    0    0
## [7804,]      0    0    0    1    0    0    0    0    0    0
## [7805,]      0    0    0    0    1    0    0    0    0    0
## [7806,]      0    0    0    0    0    0    0    0    0    1
## [7807,]      0    1    0    0    0    0    0    0    0    0
## [7808,]      1    0    0    0    0    0    0    0    0    0
## [7809,]      0    0    0    0    0    0    0    1    0    0
## [7810,]      0    0    0    0    0    0    0    1    0    0
## [7811,]      0    0    0    0    0    0    0    0    1    0
## [7812,]      0    0    0    0    0    0    0    0    0    1
```

```
## [7813,]    0    0    0    0    0    0    0    0    0    1
## [7814,]    1    0    0    0    0    0    0    0    0    0
## [7815,]    0    0    0    0    0    0    0    0    1    0
## [7816,]    0    0    0    0    0    0    1    0    0    0
## [7817,]    1    0    0    0    0    0    0    0    0    0
## [7818,]    0    0    0    0    1    0    0    0    0    0
## [7819,]    0    0    1    0    0    0    0    0    0    0
## [7820,]    0    1    0    0    0    0    0    0    0    0
## [7821,]    0    0    0    0    0    1    0    0    0    0
## [7822,]    0    1    0    0    0    0    0    0    0    0
## [7823,]    0    0    0    0    0    0    0    0    0    1
## [7824,]    0    0    1    0    0    0    0    0    0    0
## [7825,]    0    0    0    0    0    0    0    0    1    0
## [7826,]    0    0    0    0    0    0    0    0    1    0
## [7827,]    0    0    0    0    1    0    0    0    0    0
## [7828,]    0    0    1    0    0    0    0    0    0    0
## [7829,]    0    1    0    0    0    0    0    0    0    0
## [7830,]    0    0    0    0    0    0    1    0    0    0
## [7831,]    1    0    0    0    0    0    0    0    0    0
## [7832,]    0    1    0    0    0    0    0    0    0    0
## [7833,]    0    0    0    1    0    0    0    0    0    0
## [7834,]    0    0    0    0    0    1    0    0    0    0
## [7835,]    0    1    0    0    0    0    0    0    0    0
## [7836,]    1    0    0    0    0    0    0    0    0    0
## [7837,]    0    0    0    0    0    0    0    0    1    0
## [7838,]    0    1    0    0    0    0    0    0    0    0
## [7839,]    0    1    0    0    0    0    0    0    0    0
## [7840,]    0    0    1    0    0    0    0    0    0    0
## [7841,]    0    0    0    0    0    1    0    0    0    0
## [7842,]    0    0    0    1    0    0    0    0    0    0
## [7843,]    0    0    0    0    0    1    0    0    0    0
## [7844,]    0    0    0    0    1    0    0    0    0    0
## [7845,]    0    0    0    0    0    0    0    0    1    0
## [7846,]    0    0    0    0    0    1    0    0    0    0
## [7847,]    1    0    0    0    0    0    0    0    0    0
## [7848,]    0    0    0    0    0    0    1    0    0    0
## [7849,]    0    0    0    0    0    1    0    0    0    0
## [7850,]    0    0    0    0    0    0    0    1    0    0
## [7851,]    0    1    0    0    0    0    0    0    0    0
## [7852,]    0    0    0    0    0    0    0    0    1    0
## [7853,]    0    0    0    0    0    0    0    1    0    0
## [7854,]    0    0    0    0    0    0    0    0    0    1
## [7855,]    0    0    0    0    1    0    0    0    0    0
## [7856,]    1    0    0    0    0    0    0    0    0    0
## [7857,]    0    0    0    0    0    0    0    0    1    0
## [7858,]    0    1    0    0    0    0    0    0    0    0
## [7859,]    1    0    0    0    0    0    0    0    0    0
## [7860,]    0    0    1    0    0    0    0    0    0    0
## [7861,]    0    1    0    0    0    0    0    0    0    0
## [7862,]    0    0    0    1    0    0    0    0    0    0
## [7863,]    0    0    0    1    0    0    0    0    0    0
## [7864,]    0    0    0    0    1    0    0    0    0    0
## [7865,]    0    0    0    0    1    0    0    0    0    0
## [7866,]    0    0    0    0    0    1    0    0    0    0
```

```
## [7867,]     0    0    0    0    0    0    0    1    0    0
## [7868,]     0    0    0    0    0    0    1    0    0    0
## [7869,]     0    0    0    0    0    0    1    0    0    0
## [7870,]     0    0    0    0    0    0    0    1    0    0
## [7871,]     0    0    1    0    0    0    0    0    0    0
## [7872,]     0    0    0    0    0    0    0    0    1    0
## [7873,]     0    0    0    0    0    0    0    0    1    0
## [7874,]     0    0    0    0    0    0    0    0    0    1
## [7875,]     1    0    0    0    0    0    0    0    0    0
## [7876,]     1    0    0    0    0    0    0    0    0    0
## [7877,]     0    1    0    0    0    0    0    0    0    0
## [7878,]     0    1    0    0    0    0    0    0    0    0
## [7879,]     0    0    0    1    0    0    0    0    0    0
## [7880,]     0    0    1    0    0    0    0    0    0    0
## [7881,]     0    0    0    0    0    0    1    0    0    0
## [7882,]     0    0    0    1    0    0    0    0    0    0
## [7883,]     1    0    0    0    0    0    0    0    0    0
## [7884,]     0    0    0    0    1    0    0    0    0    0
## [7885,]     0    0    0    0    0    1    0    0    0    0
## [7886,]     0    0    0    0    0    1    0    0    0    0
## [7887,]     0    0    0    0    0    0    0    0    0    1
## [7888,]     0    0    0    0    0    0    1    0    0    0
## [7889,]     0    0    0    0    0    1    0    0    0    0
## [7890,]     0    0    0    0    0    0    0    1    0    0
## [7891,]     0    0    0    0    0    0    0    0    0    1
## [7892,]     0    0    0    0    0    0    0    0    1    0
## [7893,]     1    0    0    0    0    0    0    0    0    0
## [7894,]     0    0    0    0    0    0    0    0    0    1
## [7895,]     1    0    0    0    0    0    0    0    0    0
## [7896,]     0    0    1    0    0    0    0    0    0    0
## [7897,]     0    1    0    0    0    0    0    0    0    0
## [7898,]     0    0    1    0    0    0    0    0    0    0
## [7899,]     0    1    0    0    0    0    0    0    0    0
## [7900,]     0    0    0    0    0    0    0    1    0    0
## [7901,]     0    0    0    0    0    1    0    0    0    0
## [7902,]     0    0    0    0    0    0    1    0    0    0
## [7903,]     0    0    0    0    0    1    0    0    0    0
## [7904,]     0    0    0    0    1    0    0    0    0    0
## [7905,]     0    0    0    0    0    0    0    0    0    1
## [7906,]     1    0    0    0    0    0    0    0    0    0
## [7907,]     0    0    0    0    0    0    0    1    0    0
## [7908,]     0    0    0    0    0    1    0    0    0    0
## [7909,]     0    0    0    0    0    0    0    0    1    0
## [7910,]     0    0    0    0    0    0    0    0    1    0
## [7911,]     0    1    0    0    0    0    0    0    0    0
## [7912,]     1    0    0    0    0    0    0    0    0    0
## [7913,]     0    1    0    0    0    0    0    0    0    0
## [7914,]     0    0    0    0    0    0    0    1    0    0
## [7915,]     0    0    0    0    1    0    0    0    0    0
## [7916,]     0    0    0    1    0    0    0    0    0    0
## [7917,]     0    0    1    0    0    0    0    0    0    0
## [7918,]     0    0    0    0    0    1    0    0    0    0
## [7919,]     0    0    0    0    0    0    0    0    1    0
## [7920,]     0    0    0    0    1    0    0    0    0    0
```

```
## [7921,]      0    0    1    0    0    0    0    0    0    0
## [7922,]      0    1    0    0    0    0    0    0    0    0
## [7923,]      0    0    0    0    0    0    0    0    0    1
## [7924,]      0    0    0    0    0    0    0    0    1    0
## [7925,]      0    0    0    0    0    0    0    0    1    0
## [7926,]      1    0    0    0    0    0    0    0    0    0
## [7927,]      0    0    0    0    0    0    1    0    0    0
## [7928,]      0    0    0    0    0    1    0    0    0    0
## [7929,]      0    0    0    0    0    0    0    0    1    0
## [7930,]      0    0    1    0    0    0    0    0    0    0
## [7931,]      1    0    0    0    0    0    0    0    0    0
## [7932,]      0    0    0    0    0    0    0    1    0    0
## [7933,]      1    0    0    0    0    0    0    0    0    0
## [7934,]      0    0    1    0    0    0    0    0    0    0
## [7935,]      1    0    0    0    0    0    0    0    0    0
## [7936,]      0    0    0    1    0    0    0    0    0    0
## [7937,]      0    0    0    0    0    0    0    0    0    1
## [7938,]      0    0    0    0    0    0    1    0    0    0
## [7939,]      0    1    0    0    0    0    0    0    0    0
## [7940,]      0    0    1    0    0    0    0    0    0    0
## [7941,]      0    0    0    0    0    0    0    0    0    1
## [7942,]      0    1    0    0    0    0    0    0    0    0
## [7943,]      0    0    1    0    0    0    0    0    0    0
## [7944,]      0    0    0    0    0    0    0    1    0    0
## [7945,]      1    0    0    0    0    0    0    0    0    0
## [7946,]      0    0    0    0    0    0    0    1    0    0
## [7947,]      0    0    0    0    0    0    0    0    0    1
## [7948,]      0    0    0    0    0    0    0    0    0    1
## [7949,]      1    0    0    0    0    0    0    0    0    0
## [7950,]      0    0    0    0    0    0    0    0    0    1
## [7951,]      0    0    0    0    0    0    0    1    0    0
## [7952,]      0    1    0    0    0    0    0    0    0    0
## [7953,]      0    0    0    0    0    0    0    0    0    1
## [7954,]      0    0    1    0    0    0    0    0    0    0
## [7955,]      1    0    0    0    0    0    0    0    0    0
## [7956,]      0    0    0    0    1    0    0    0    0    0
## [7957,]      0    0    0    0    0    0    0    0    1    0
## [7958,]      0    0    0    0    0    0    1    0    0    0
## [7959,]      0    0    0    0    1    0    0    0    0    0
## [7960,]      0    0    0    0    0    0    0    1    0    0
## [7961,]      0    0    1    0    0    0    0    0    0    0
## [7962,]      0    0    0    0    0    0    0    1    0    0
## [7963,]      0    0    0    0    0    1    0    0    0    0
## [7964,]      0    0    0    0    0    1    0    0    0    0
## [7965,]      0    0    0    0    0    1    0    0    0    0
## [7966,]      0    0    0    0    1    0    0    0    0    0
## [7967,]      0    0    0    1    0    0    0    0    0    0
## [7968,]      0    0    0    0    0    1    0    0    0    0
## [7969,]      0    0    0    0    0    0    1    0    0    0
## [7970,]      1    0    0    0    0    0    0    0    0    0
## [7971,]      0    0    0    0    0    0    1    0    0    0
## [7972,]      0    1    0    0    0    0    0    0    0    0
## [7973,]      0    0    0    0    0    0    1    0    0    0
## [7974,]      0    1    0    0    0    0    0    0    0    0
```

```
## [7975,]    0    0    0    0    1    0    0    0    0    0
## [7976,]    0    0    0    0    0    0    0    0    0    1
## [7977,]    0    0    0    1    0    0    0    0    0    0
## [7978,]    0    0    0    0    0    0    0    0    0    1
## [7979,]    1    0    0    0    0    0    0    0    0    0
## [7980,]    0    0    0    0    0    0    0    0    1    0
## [7981,]    0    0    0    1    0    0    0    0    0    0
## [7982,]    1    0    0    0    0    0    0    0    0    0
## [7983,]    0    0    0    1    0    0    0    0    0    0
## [7984,]    0    0    1    0    0    0    0    0    0    0
## [7985,]    0    0    0    0    1    0    0    0    0    0
## [7986,]    1    0    0    0    0    0    0    0    0    0
## [7987,]    0    0    1    0    0    0    0    0    0    0
## [7988,]    0    0    0    1    0    0    0    0    0    0
## [7989,]    0    0    0    0    0    1    0    0    0    0
## [7990,]    0    0    0    0    0    1    0    0    0    0
## [7991,]    0    0    0    0    0    0    1    0    0    0
## [7992,]    0    0    0    0    0    0    1    0    0    0
## [7993,]    0    0    0    0    0    0    0    1    0    0
## [7994,]    0    1    0    0    0    0    0    0    0    0
## [7995,]    0    0    0    0    0    0    0    1    0    0
## [7996,]    0    0    0    0    0    0    0    0    1    0
## [7997,]    0    1    0    0    0    0    0    0    0    0
## [7998,]    0    0    0    0    0    0    1    0    0    0
## [7999,]    0    0    0    0    0    1    0    0    0    0
## [8000,]    0    0    0    0    1    0    0    0    0    0
## [8001,]    1    0    0    0    0    0    0    0    0    0
## [8002,]    0    0    0    0    0    0    1    0    0    0
## [8003,]    0    0    1    0    0    0    0    0    0    0
## [8004,]    1    0    0    0    0    0    0    0    0    0
## [8005,]    0    0    0    0    0    0    1    0    0    0
## [8006,]    0    0    0    0    0    0    0    0    0    1
## [8007,]    0    0    0    0    1    0    0    0    0    0
## [8008,]    0    0    1    0    0    0    0    0    0    0
## [8009,]    0    0    0    0    0    0    0    0    1    0
## [8010,]    0    0    0    0    0    0    1    0    0    0
## [8011,]    0    0    0    0    0    1    0    0    0    0
## [8012,]    0    0    0    0    1    0    0    0    0    0
## [8013,]    0    0    0    1    0    0    0    0    0    0
## [8014,]    0    0    0    1    0    0    0    0    0    0
## [8015,]    0    0    0    1    0    0    0    0    0    0
## [8016,]    0    0    0    0    0    0    0    0    0    1
## [8017,]    1    0    0    0    0    0    0    0    0    0
## [8018,]    0    0    0    1    0    0    0    0    0    0
## [8019,]    0    0    0    1    0    0    0    0    0    0
## [8020,]    1    0    0    0    0    0    0    0    0    0
## [8021,]    0    0    0    0    0    0    0    1    0    0
## [8022,]    1    0    0    0    0    0    0    0    0    0
## [8023,]    0    0    0    0    0    1    0    0    0    0
## [8024,]    0    0    0    0    0    1    0    0    0    0
## [8025,]    0    0    1    0    0    0    0    0    0    0
## [8026,]    0    0    1    0    0    0    0    0    0    0
## [8027,]    0    0    0    0    1    0    0    0    0    0
## [8028,]    0    0    0    0    0    1    0    0    0    0
```

```
## [8029,]    1    0    0    0    0    0    0    0    0    0
## [8030,]    0    0    0    0    0    0    0    0    1    0
## [8031,]    0    0    0    0    0    0    0    0    0    1
## [8032,]    0    0    0    0    0    0    0    0    1    0
## [8033,]    0    1    0    0    0    0    0    0    0    0
## [8034,]    0    0    0    0    0    0    0    0    1    0
## [8035,]    0    0    0    0    0    0    1    0    0    0
## [8036,]    0    0    0    0    0    0    0    0    0    1
## [8037,]    0    0    0    0    0    0    0    0    0    1
## [8038,]    0    0    0    0    1    0    0    0    0    0
## [8039,]    0    0    0    0    0    0    0    1    0    0
## [8040,]    0    0    0    1    0    0    0    0    0    0
## [8041,]    0    1    0    0    0    0    0    0    0    0
## [8042,]    0    0    0    0    1    0    0    0    0    0
## [8043,]    0    0    0    0    0    0    1    0    0    0
## [8044,]    0    0    1    0    0    0    0    0    0    0
## [8045,]    0    0    0    0    0    0    0    1    0    0
## [8046,]    0    0    0    0    0    0    0    0    1    0
## [8047,]    1    0    0    0    0    0    0    0    0    0
## [8048,]    0    0    0    0    0    0    0    0    1    0
## [8049,]    0    0    0    1    0    0    0    0    0    0
## [8050,]    0    0    0    0    0    0    0    1    0    0
## [8051,]    1    0    0    0    0    0    0    0    0    0
## [8052,]    0    1    0    0    0    0    0    0    0    0
## [8053,]    0    0    0    1    0    0    0    0    0    0
## [8054,]    0    1    0    0    0    0    0    0    0    0
## [8055,]    0    0    0    1    0    0    0    0    0    0
## [8056,]    0    0    0    1    0    0    0    0    0    0
## [8057,]    0    0    0    0    0    1    0    0    0    0
## [8058,]    0    0    0    0    0    0    1    0    0    0
## [8059,]    0    0    1    0    0    0    0    0    0    0
## [8060,]    0    0    0    0    0    0    0    0    0    1
## [8061,]    0    0    0    0    0    0    0    0    0    1
## [8062,]    0    0    0    0    1    0    0    0    0    0
## [8063,]    0    0    0    0    0    1    0    0    0    0
## [8064,]    0    1    0    0    0    0    0    0    0    0
## [8065,]    0    0    0    0    0    0    1    0    0    0
## [8066,]    0    0    0    1    0    0    0    0    0    0
## [8067,]    0    0    0    0    0    0    0    0    0    1
## [8068,]    0    0    0    0    0    0    0    0    1    0
## [8069,]    0    0    0    0    0    0    0    1    0    0
## [8070,]    0    0    0    0    0    0    0    1    0    0
## [8071,]    0    1    0    0    0    0    0    0    0    0
## [8072,]    0    0    0    0    0    0    1    0    0    0
## [8073,]    0    0    0    0    0    0    1    0    0    0
## [8074,]    0    0    0    0    0    0    0    0    0    1
## [8075,]    0    0    0    0    0    0    1    0    0    0
## [8076,]    0    0    0    1    0    0    0    0    0    0
## [8077,]    0    0    0    0    0    0    1    0    0    0
## [8078,]    0    0    0    1    0    0    0    0    0    0
## [8079,]    0    0    1    0    0    0    0    0    0    0
## [8080,]    0    0    0    0    0    0    0    1    0    0
## [8081,]    0    1    0    0    0    0    0    0    0    0
## [8082,]    0    0    0    0    1    0    0    0    0    0
```

```
## [8083,]    0    0    1    0    0    0    0    0    0    0
## [8084,]    0    1    0    0    0    0    0    0    0    0
## [8085,]    0    0    0    0    0    0    0    1    0    0
## [8086,]    0    0    0    0    0    0    0    0    0    1
## [8087,]    0    0    0    0    1    0    0    0    0    0
## [8088,]    0    1    0    0    0    0    0    0    0    0
## [8089,]    1    0    0    0    0    0    0    0    0    0
## [8090,]    1    0    0    0    0    0    0    0    0    0
## [8091,]    0    0    0    0    0    0    0    1    0    0
## [8092,]    0    0    0    0    0    0    1    0    0    0
## [8093,]    0    1    0    0    0    0    0    0    0    0
## [8094,]    1    0    0    0    0    0    0    0    0    0
## [8095,]    0    0    0    1    0    0    0    0    0    0
## [8096,]    0    1    0    0    0    0    0    0    0    0
## [8097,]    1    0    0    0    0    0    0    0    0    0
## [8098,]    0    0    1    0    0    0    0    0    0    0
## [8099,]    1    0    0    0    0    0    0    0    0    0
## [8100,]    0    0    0    1    0    0    0    0    0    0
## [8101,]    0    0    0    0    0    0    1    0    0    0
## [8102,]    0    0    0    0    1    0    0    0    0    0
## [8103,]    0    0    1    0    0    0    0    0    0    0
## [8104,]    0    0    0    0    0    1    0    0    0    0
## [8105,]    0    0    0    0    0    1    0    0    0    0
## [8106,]    0    0    0    0    0    0    1    0    0    0
## [8107,]    0    1    0    0    0    0    0    0    0    0
## [8108,]    0    0    0    0    0    0    0    1    0    0
## [8109,]    1    0    0    0    0    0    0    0    0    0
## [8110,]    0    0    0    0    0    0    0    0    1    0
## [8111,]    1    0    0    0    0    0    0    0    0    0
## [8112,]    0    0    0    0    0    0    0    0    0    1
## [8113,]    0    1    0    0    0    0    0    0    0    0
## [8114,]    1    0    0    0    0    0    0    0    0    0
## [8115,]    0    0    0    0    0    0    0    1    0    0
## [8116,]    0    0    0    1    0    0    0    0    0    0
## [8117,]    1    0    0    0    0    0    0    0    0    0
## [8118,]    0    0    0    0    1    0    0    0    0    0
## [8119,]    0    0    0    0    0    0    0    0    1    0
## [8120,]    0    0    0    0    0    1    0    0    0    0
## [8121,]    0    0    0    1    0    0    0    0    0    0
## [8122,]    0    0    0    0    0    0    1    0    0    0
## [8123,]    0    0    0    1    0    0    0    0    0    0
## [8124,]    0    0    0    0    0    0    0    1    0    0
## [8125,]    0    1    0    0    0    0    0    0    0    0
## [8126,]    0    0    0    0    0    0    0    0    1    0
## [8127,]    0    0    0    0    0    1    0    0    0    0
## [8128,]    0    0    0    0    0    0    0    0    0    1
## [8129,]    0    0    0    0    0    1    0    0    0    0
## [8130,]    1    0    0    0    0    0    0    0    0    0
## [8131,]    0    0    0    0    0    0    0    1    0    0
## [8132,]    0    1    0    0    0    0    0    0    0    0
## [8133,]    0    0    0    0    0    0    0    0    1    0
## [8134,]    0    0    1    0    0    0    0    0    0    0
## [8135,]    1    0    0    0    0    0    0    0    0    0
## [8136,]    0    0    0    1    0    0    0    0    0    0
```

```
## [8137,]     0     0     0     0     0     0     0     0     1     0
## [8138,]     0     0     0     0     0     0     0     1     0     0
## [8139,]     0     0     0     0     0     0     0     1     0     0
## [8140,]     0     0     0     0     0     0     0     0     1     0
## [8141,]     0     0     0     0     0     0     1     0     0     0
## [8142,]     0     0     0     0     0     0     0     0     0     1
## [8143,]     0     0     0     0     0     0     0     1     0     0
## [8144,]     0     0     0     0     0     0     0     1     0     0
## [8145,]     0     0     0     0     0     0     0     1     0     0
## [8146,]     0     0     0     0     0     0     1     0     0     0
## [8147,]     0     0     0     0     0     0     1     0     0     0
## [8148,]     1     0     0     0     0     0     0     0     0     0
## [8149,]     0     0     0     0     0     0     0     0     1     0
## [8150,]     0     0     0     0     0     0     1     0     0     0
## [8151,]     0     0     0     0     0     0     1     0     0     0
## [8152,]     0     0     0     0     0     0     1     0     0     0
## [8153,]     0     0     1     0     0     0     0     0     0     0
## [8154,]     0     0     0     0     0     0     1     0     0     0
## [8155,]     0     0     1     0     0     0     0     0     0     0
## [8156,]     0     0     0     0     0     0     0     0     0     1
## [8157,]     0     1     0     0     0     0     0     0     0     0
## [8158,]     1     0     0     0     0     0     0     0     0     0
## [8159,]     1     0     0     0     0     0     0     0     0     0
## [8160,]     1     0     0     0     0     0     0     0     0     0
## [8161,]     0     1     0     0     0     0     0     0     0     0
## [8162,]     0     1     0     0     0     0     0     0     0     0
## [8163,]     0     1     0     0     0     0     0     0     0     0
## [8164,]     0     0     0     1     0     0     0     0     0     0
## [8165,]     0     0     0     1     0     0     0     0     0     0
## [8166,]     0     0     0     0     0     0     0     0     0     1
## [8167,]     0     1     0     0     0     0     0     0     0     0
## [8168,]     0     0     0     0     0     0     0     1     0     0
## [8169,]     0     0     0     0     0     0     0     1     0     0
## [8170,]     0     0     0     1     0     0     0     0     0     0
## [8171,]     0     0     0     0     0     0     0     1     0     0
## [8172,]     0     0     0     0     0     0     0     0     1     0
## [8173,]     1     0     0     0     0     0     0     0     0     0
## [8174,]     0     0     0     0     0     1     0     0     0     0
## [8175,]     0     0     0     0     1     0     0     0     0     0
## [8176,]     0     0     0     0     0     0     0     0     1     0
## [8177,]     0     1     0     0     0     0     0     0     0     0
## [8178,]     0     1     0     0     0     0     0     0     0     0
## [8179,]     0     0     0     0     0     1     0     0     0     0
## [8180,]     0     0     0     0     1     0     0     0     0     0
## [8181,]     0     1     0     0     0     0     0     0     0     0
## [8182,]     0     0     0     0     0     0     0     0     1     0
## [8183,]     0     0     0     0     0     0     0     1     0     0
## [8184,]     0     0     0     0     0     1     0     0     0     0
## [8185,]     0     0     0     1     0     0     0     0     0     0
## [8186,]     0     1     0     0     0     0     0     0     0     0
## [8187,]     0     0     0     0     0     0     0     1     0     0
## [8188,]     1     0     0     0     0     0     0     0     0     0
## [8189,]     0     0     0     1     0     0     0     0     0     0
## [8190,]     0     1     0     0     0     0     0     0     0     0
```

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```
## [8191,]      0   0   0   0   0   1   0   0   0   0
## [8192,]      0   0   0   0   0   0   1   0   0   0
## [8193,]      0   0   0   1   0   0   0   0   0   0
## [8194,]      1   0   0   0   0   0   0   0   0   0
## [8195,]      0   1   0   0   0   0   0   0   0   0
## [8196,]      0   0   0   1   0   0   0   0   0   0
## [8197,]      0   0   0   0   0   0   0   1   0   0
## [8198,]      0   0   0   0   0   0   0   0   1   0
## [8199,]      0   0   0   0   0   0   0   1   0   0
## [8200,]      0   0   0   0   0   0   0   0   0   1
## [8201,]      0   0   0   1   0   0   0   0   0   0
## [8202,]      0   0   1   0   0   0   0   0   0   0
## [8203,]      0   0   1   0   0   0   0   0   0   0
## [8204,]      0   1   0   0   0   0   0   0   0   0
## [8205,]      0   0   1   0   0   0   0   0   0   0
## [8206,]      0   0   0   0   0   0   0   1   0   0
## [8207,]      0   0   0   0   0   0   1   0   0   0
## [8208,]      0   0   0   0   1   0   0   0   0   0
## [8209,]      0   0   0   0   1   0   0   0   0   0
## [8210,]      0   0   0   0   0   1   0   0   0   0
## [8211,]      0   0   0   0   0   0   0   0   1   0
## [8212,]      0   0   1   0   0   0   0   0   0   0
## [8213,]      0   0   1   0   0   0   0   0   0   0
## [8214,]      0   0   0   0   0   0   0   0   1   0
## [8215,]      0   0   0   0   0   0   0   1   0   0
## [8216,]      0   0   0   0   1   0   0   0   0   0
## [8217,]      0   0   0   0   0   0   0   0   0   1
## [8218,]      0   0   0   0   0   0   0   1   0   0
## [8219,]      0   1   0   0   0   0   0   0   0   0
## [8220,]      0   1   0   0   0   0   0   0   0   0
## [8221,]      0   0   0   0   0   0   0   0   0   1
## [8222,]      0   0   0   0   0   0   0   0   1   0
## [8223,]      0   1   0   0   0   0   0   0   0   0
## [8224,]      1   0   0   0   0   0   0   0   0   0
## [8225,]      0   0   0   0   0   0   1   0   0   0
## [8226,]      0   0   0   0   0   0   1   0   0   0
## [8227,]      0   0   1   0   0   0   0   0   0   0
## [8228,]      0   0   0   1   0   0   0   0   0   0
## [8229,]      0   0   0   1   0   0   0   0   0   0
## [8230,]      0   0   1   0   0   0   0   0   0   0
## [8231,]      0   0   0   1   0   0   0   0   0   0
## [8232,]      0   0   0   0   0   0   0   0   0   1
## [8233,]      0   0   0   0   0   0   0   1   0   0
## [8234,]      1   0   0   0   0   0   0   0   0   0
## [8235,]      0   0   0   0   0   0   0   0   1   0
## [8236,]      0   0   0   0   1   0   0   0   0   0
## [8237,]      0   0   0   1   0   0   0   0   0   0
## [8238,]      0   0   0   0   0   0   0   1   0   0
## [8239,]      0   0   0   0   0   0   0   0   0   1
## [8240,]      0   0   0   0   1   0   0   0   0   0
## [8241,]      0   0   0   0   1   0   0   0   0   0
## [8242,]      0   0   0   1   0   0   0   0   0   0
## [8243,]      0   0   0   0   0   0   0   0   1   0
## [8244,]      0   0   0   0   1   0   0   0   0   0
```

```
## [8245,]    0    0    0    0    0    0    0    0    0    1
## [8246,]    0    0    0    0    0    1    0    0    0    0
## [8247,]    0    0    0    1    0    0    0    0    0    0
## [8248,]    1    0    0    0    0    0    0    0    0    0
## [8249,]    0    0    0    0    0    0    0    1    0    0
## [8250,]    1    0    0    0    0    0    0    0    0    0
## [8251,]    1    0    0    0    0    0    0    0    0    0
## [8252,]    0    0    1    0    0    0    0    0    0    0
## [8253,]    0    0    0    0    0    1    0    0    0    0
## [8254,]    1    0    0    0    0    0    0    0    0    0
## [8255,]    0    0    0    1    0    0    0    0    0    0
## [8256,]    0    1    0    0    0    0    0    0    0    0
## [8257,]    0    0    0    0    0    0    0    1    0    0
## [8258,]    0    0    1    0    0    0    0    0    0    0
## [8259,]    0    1    0    0    0    0    0    0    0    0
## [8260,]    0    0    0    1    0    0    0    0    0    0
## [8261,]    0    0    0    0    0    1    0    0    0    0
## [8262,]    0    0    0    0    1    0    0    0    0    0
## [8263,]    1    0    0    0    0    0    0    0    0    0
## [8264,]    0    0    0    0    0    1    0    0    0    0
## [8265,]    0    0    0    1    0    0    0    0    0    0
## [8266,]    0    0    0    0    0    0    1    0    0    0
## [8267,]    0    0    0    0    1    0    0    0    0    0
## [8268,]    0    0    0    0    0    0    0    1    0    0
## [8269,]    0    0    0    0    0    0    0    1    0    0
## [8270,]    0    0    0    0    0    0    0    0    1    0
## [8271,]    0    0    0    0    1    0    0    0    0    0
## [8272,]    0    0    0    0    0    0    0    0    0    1
## [8273,]    1    0    0    0    0    0    0    0    0    0
## [8274,]    1    0    0    0    0    0    0    0    0    0
## [8275,]    1    0    0    0    0    0    0    0    0    0
## [8276,]    0    1    0    0    0    0    0    0    0    0
## [8277,]    0    0    0    0    0    0    0    0    0    1
## [8278,]    0    0    1    0    0    0    0    0    0    0
## [8279,]    0    0    0    0    1    0    0    0    0    0
## [8280,]    0    0    0    1    0    0    0    0    0    0
## [8281,]    0    0    0    0    0    0    0    1    0    0
## [8282,]    0    0    0    0    1    0    0    0    0    0
## [8283,]    0    0    0    0    0    0    1    0    0    0
## [8284,]    0    0    0    0    0    0    0    1    0    0
## [8285,]    1    0    0    0    0    0    0    0    0    0
## [8286,]    0    0    0    0    0    0    0    0    1    0
## [8287,]    0    0    0    0    0    0    0    1    0    0
## [8288,]    0    0    0    0    0    0    0    0    0    1
## [8289,]    1    0    0    0    0    0    0    0    0    0
## [8290,]    1    0    0    0    0    0    0    0    0    0
## [8291,]    0    0    0    0    0    0    1    0    0    0
## [8292,]    0    1    0    0    0    0    0    0    0    0
## [8293,]    0    0    1    0    0    0    0    0    0    0
## [8294,]    0    0    1    0    0    0    0    0    0    0
## [8295,]    1    0    0    0    0    0    0    0    0    0
## [8296,]    0    0    0    1    0    0    0    0    0    0
## [8297,]    0    1    0    0    0    0    0    0    0    0
## [8298,]    0    0    0    0    0    0    0    1    0    0
```

```
## [8299,]    0    0    0    0    1    0    0    0    0    0
## [8300,]    0    0    0    0    0    0    0    0    1    0
## [8301,]    0    0    0    0    0    0    0    0    1    0
## [8302,]    0    0    0    0    0    0    0    0    0    1
## [8303,]    0    0    0    0    0    0    0    1    0    0
## [8304,]    0    0    0    0    0    0    0    0    1    0
## [8305,]    1    0    0    0    0    0    0    0    0    0
## [8306,]    0    0    0    0    0    0    1    0    0    0
## [8307,]    0    0    0    0    0    0    0    0    1    0
## [8308,]    0    0    0    0    0    1    0    0    0    0
## [8309,]    0    0    0    0    0    0    0    0    0    1
## [8310,]    1    0    0    0    0    0    0    0    0    0
## [8311,]    0    0    0    0    0    0    0    0    1    0
## [8312,]    0    0    0    0    0    0    1    0    0    0
## [8313,]    0    0    0    0    0    0    1    0    0    0
## [8314,]    0    0    0    0    0    0    0    0    1    0
## [8315,]    0    0    0    0    0    0    1    0    0    0
## [8316,]    0    0    0    0    0    0    0    0    0    1
## [8317,]    0    0    0    0    0    0    0    0    0    1
## [8318,]    0    0    0    0    1    0    0    0    0    0
## [8319,]    0    0    0    0    0    0    0    0    0    1
## [8320,]    0    1    0    0    0    0    0    0    0    0
## [8321,]    0    0    0    0    0    1    0    0    0    0
## [8322,]    0    0    0    0    0    0    0    0    0    1
## [8323,]    0    0    0    0    0    0    0    0    0    1
## [8324,]    1    0    0    0    0    0    0    0    0    0
## [8325,]    0    0    0    0    0    0    0    0    1    0
## [8326,]    0    0    0    0    1    0    0    0    0    0
## [8327,]    0    0    0    0    0    0    1    0    0    0
## [8328,]    0    0    0    0    0    0    0    0    1    0
## [8329,]    0    0    0    0    0    0    1    0    0    0
## [8330,]    0    0    0    0    0    0    0    0    0    1
## [8331,]    0    1    0    0    0    0    0    0    0    0
## [8332,]    0    1    0    0    0    0    0    0    0    0
## [8333,]    0    1    0    0    0    0    0    0    0    0
## [8334,]    0    0    0    0    1    0    0    0    0    0
## [8335,]    0    0    1    0    0    0    0    0    0    0
## [8336,]    1    0    0    0    0    0    0    0    0    0
## [8337,]    0    0    0    0    0    0    1    0    0    0
## [8338,]    0    0    0    0    0    1    0    0    0    0
## [8339,]    0    0    0    1    0    0    0    0    0    0
## [8340,]    0    0    0    0    0    1    0    0    0    0
## [8341,]    0    0    0    0    0    0    0    0    1    0
## [8342,]    0    0    0    0    1    0    0    0    0    0
## [8343,]    0    0    1    0    0    0    0    0    0    0
## [8344,]    1    0    0    0    0    0    0    0    0    0
## [8345,]    0    0    0    0    1    0    0    0    0    0
## [8346,]    0    0    0    0    0    0    0    1    0    0
## [8347,]    0    0    0    0    1    0    0    0    0    0
## [8348,]    0    0    0    0    0    0    1    0    0    0
## [8349,]    0    1    0    0    0    0    0    0    0    0
## [8350,]    1    0    0    0    0    0    0    0    0    0
## [8351,]    0    0    0    1    0    0    0    0    0    0
## [8352,]    0    1    0    0    0    0    0    0    0    0
```

```
## [8353,]     0    0    0    0    0    0    1    0    0    0
## [8354,]     0    0    0    0    0    0    0    1    0    0
## [8355,]     1    0    0    0    0    0    0    0    0    0
## [8356,]     1    0    0    0    0    0    0    0    0    0
## [8357,]     0    0    0    0    0    0    0    0    0    1
## [8358,]     0    0    0    0    0    0    1    0    0    0
## [8359,]     0    0    0    0    0    0    0    0    0    1
## [8360,]     0    0    0    0    0    0    0    0    1    0
## [8361,]     0    0    0    1    0    0    0    0    0    0
## [8362,]     0    0    0    0    0    0    0    1    0    0
## [8363,]     0    0    0    0    0    0    0    1    0    0
## [8364,]     0    0    0    0    0    0    0    0    0    1
## [8365,]     0    0    0    0    0    0    0    1    0    0
## [8366,]     0    0    0    0    0    0    0    0    1    0
## [8367,]     0    0    0    0    0    0    0    0    1    0
## [8368,]     0    0    0    0    0    0    1    0    0    0
## [8369,]     1    0    0    0    0    0    0    0    0    0
## [8370,]     1    0    0    0    0    0    0    0    0    0
## [8371,]     0    0    0    0    1    0    0    0    0    0
## [8372,]     0    0    0    0    0    0    0    0    1    0
## [8373,]     0    0    1    0    0    0    0    0    0    0
## [8374,]     0    1    0    0    0    0    0    0    0    0
## [8375,]     0    0    1    0    0    0    0    0    0    0
## [8376,]     0    0    0    0    0    0    0    1    0    0
## [8377,]     0    0    0    0    0    0    1    0    0    0
## [8378,]     0    0    0    0    0    0    0    1    0    0
## [8379,]     0    0    0    0    0    0    0    0    1    0
## [8380,]     0    1    0    0    0    0    0    0    0    0
## [8381,]     0    0    0    0    1    0    0    0    0    0
## [8382,]     0    0    0    1    0    0    0    0    0    0
## [8383,]     0    1    0    0    0    0    0    0    0    0
## [8384,]     0    1    0    0    0    0    0    0    0    0
## [8385,]     0    0    0    0    0    0    1    0    0    0
## [8386,]     1    0    0    0    0    0    0    0    0    0
## [8387,]     0    0    0    0    0    0    0    0    1    0
## [8388,]     1    0    0    0    0    0    0    0    0    0
## [8389,]     0    1    0    0    0    0    0    0    0    0
## [8390,]     0    0    0    0    0    0    0    1    0    0
## [8391,]     0    0    1    0    0    0    0    0    0    0
## [8392,]     0    0    0    0    0    0    0    0    1    0
## [8393,]     0    0    0    0    0    1    0    0    0    0
## [8394,]     0    0    0    0    0    0    0    0    0    1
## [8395,]     0    1    0    0    0    0    0    0    0    0
## [8396,]     0    0    0    1    0    0    0    0    0    0
## [8397,]     0    0    0    0    0    0    0    1    0    0
## [8398,]     0    0    0    0    0    0    0    0    1    0
## [8399,]     0    0    0    0    0    0    1    0    0    0
## [8400,]     0    0    0    0    1    0    0    0    0    0
## [8401,]     0    0    0    0    1    0    0    0    0    0
## [8402,]     0    0    0    0    0    0    0    1    0    0
## [8403,]     0    1    0    0    0    0    0    0    0    0
## [8404,]     0    0    1    0    0    0    0    0    0    0
## [8405,]     0    0    0    0    0    0    0    0    0    1
## [8406,]     0    0    0    1    0    0    0    0    0    0
```

```
## [8407,]    0    0    0    1    0    0    0    0    0    0
## [8408,]    0    0    0    0    0    0    1    0    0    0
## [8409,]    0    0    0    0    0    0    0    0    0    1
## [8410,]    0    0    0    0    0    0    0    0    0    1
## [8411,]    0    0    0    0    0    0    1    0    0    0
## [8412,]    0    0    1    0    0    0    0    0    0    0
## [8413,]    0    0    0    0    1    0    0    0    0    0
## [8414,]    0    0    1    0    0    0    0    0    0    0
## [8415,]    0    0    0    0    0    1    0    0    0    0
## [8416,]    0    0    0    0    1    0    0    0    0    0
## [8417,]    0    0    0    0    0    0    0    0    0    1
## [8418,]    0    0    0    0    0    0    1    0    0    0
## [8419,]    0    1    0    0    0    0    0    0    0    0
## [8420,]    0    0    0    0    0    1    0    0    0    0
## [8421,]    0    0    0    0    0    0    1    0    0    0
## [8422,]    0    0    0    0    0    1    0    0    0    0
## [8423,]    0    1    0    0    0    0    0    0    0    0
## [8424,]    0    1    0    0    0    0    0    0    0    0
## [8425,]    0    0    0    0    0    0    0    0    0    1
## [8426,]    0    0    0    1    0    0    0    0    0    0
## [8427,]    0    0    0    0    0    1    0    0    0    0
## [8428,]    0    0    0    1    0    0    0    0    0    0
## [8429,]    0    0    1    0    0    0    0    0    0    0
## [8430,]    0    0    0    0    0    0    0    1    0    0
## [8431,]    0    1    0    0    0    0    0    0    0    0
## [8432,]    0    0    0    0    0    0    0    0    1    0
## [8433,]    0    0    0    0    0    0    0    0    1    0
## [8434,]    0    0    1    0    0    0    0    0    0    0
## [8435,]    0    0    0    0    0    1    0    0    0    0
## [8436,]    0    0    0    0    0    1    0    0    0    0
## [8437,]    0    0    0    0    0    0    0    1    0    0
## [8438,]    0    0    0    0    0    0    0    1    0    0
## [8439,]    0    0    0    0    1    0    0    0    0    0
## [8440,]    0    0    0    0    0    0    0    0    0    1
## [8441,]    0    0    0    0    0    0    0    0    0    1
## [8442,]    0    0    0    0    0    0    0    0    1    0
## [8443,]    0    0    0    0    0    0    0    0    0    1
## [8444,]    0    0    1    0    0    0    0    0    0    0
## [8445,]    0    0    0    0    0    0    0    1    0    0
## [8446,]    0    1    0    0    0    0    0    0    0    0
## [8447,]    0    0    1    0    0    0    0    0    0    0
## [8448,]    0    0    0    1    0    0    0    0    0    0
## [8449,]    0    0    0    0    0    0    0    0    0    1
## [8450,]    1    0    0    0    0    0    0    0    0    0
## [8451,]    0    0    0    1    0    0    0    0    0    0
## [8452,]    0    1    0    0    0    0    0    0    0    0
## [8453,]    0    1    0    0    0    0    0    0    0    0
## [8454,]    0    0    1    0    0    0    0    0    0    0
## [8455,]    0    0    0    0    0    0    1    0    0    0
## [8456,]    0    0    0    1    0    0    0    0    0    0
## [8457,]    0    1    0    0    0    0    0    0    0    0
## [8458,]    0    0    0    0    1    0    0    0    0    0
## [8459,]    0    0    0    0    1    0    0    0    0    0
## [8460,]    0    0    0    0    0    1    0    0    0    0
```

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```
## [8461,]     0    0    1    0    0    0    0    0    0    0
## [8462,]     0    0    0    0    0    0    1    0    0    0
## [8463,]     0    0    0    0    0    0    1    0    0    0
## [8464,]     0    0    0    0    0    0    0    1    0    0
## [8465,]     0    1    0    0    0    0    0    0    0    0
## [8466,]     0    0    0    0    0    0    0    0    1    0
## [8467,]     0    0    0    0    1    0    0    0    0    0
## [8468,]     0    0    0    0    0    0    0    0    0    1
## [8469,]     0    0    0    0    0    0    0    0    0    1
## [8470,]     1    0    0    0    0    0    0    0    0    0
## [8471,]     0    0    1    0    0    0    0    0    0    0
## [8472,]     0    1    0    0    0    0    0    0    0    0
## [8473,]     1    0    0    0    0    0    0    0    0    0
## [8474,]     0    0    1    0    0    0    0    0    0    0
## [8475,]     0    0    1    0    0    0    0    0    0    0
## [8476,]     0    0    0    1    0    0    0    0    0    0
## [8477,]     0    0    0    0    0    0    0    1    0    0
## [8478,]     0    0    0    0    1    0    0    0    0    0
## [8479,]     0    0    0    0    0    0    1    0    0    0
## [8480,]     0    0    0    0    0    1    0    0    0    0
## [8481,]     0    0    1    0    0    0    0    0    0    0
## [8482,]     0    0    0    0    0    0    1    0    0    0
## [8483,]     0    0    0    0    0    0    0    0    1    0
## [8484,]     0    0    0    0    0    0    0    1    0    0
## [8485,]     0    0    0    0    0    0    0    0    0    1
## [8486,]     0    0    0    0    0    0    0    0    1    0
## [8487,]     0    1    0    0    0    0    0    0    0    0
## [8488,]     0    0    0    0    0    0    0    0    0    1
## [8489,]     0    0    0    0    0    0    1    0    0    0
## [8490,]     1    0    0    0    0    0    0    0    0    0
## [8491,]     0    0    1    0    0    0    0    0    0    0
## [8492,]     0    1    0    0    0    0    0    0    0    0
## [8493,]     0    0    0    0    0    0    0    0    0    1
## [8494,]     0    0    1    0    0    0    0    0    0    0
## [8495,]     0    0    0    1    0    0    0    0    0    0
## [8496,]     0    0    0    0    1    0    0    0    0    0
## [8497,]     0    0    0    0    0    0    0    0    1    0
## [8498,]     0    0    0    0    0    0    1    0    0    0
## [8499,]     0    0    0    1    0    0    0    0    0    0
## [8500,]     0    0    0    0    0    0    0    1    0    0
## [8501,]     0    0    0    0    0    0    1    0    0    0
## [8502,]     0    0    0    0    0    0    0    0    1    0
## [8503,]     0    0    0    0    0    0    0    1    0    0
## [8504,]     0    0    0    0    0    0    0    0    0    1
## [8505,]     0    0    0    0    0    1    0    0    0    0
## [8506,]     0    0    0    1    0    0    0    0    0    0
## [8507,]     0    1    0    0    0    0    0    0    0    0
## [8508,]     0    0    0    0    0    0    0    0    1    0
## [8509,]     0    0    0    0    1    0    0    0    0    0
## [8510,]     1    0    0    0    0    0    0    0    0    0
## [8511,]     0    0    0    0    0    0    0    0    0    1
## [8512,]     0    0    0    0    0    0    0    1    0    0
## [8513,]     0    1    0    0    0    0    0    0    0    0
## [8514,]     0    1    0    0    0    0    0    0    0    0
```

```
## [8515,]     0    0    0    0    0    0    0    0    0    1
## [8516,]     1    0    0    0    0    0    0    0    0    0
## [8517,]     0    0    0    0    0    0    0    1    0    0
## [8518,]     0    0    0    0    0    0    0    1    0    0
## [8519,]     0    0    0    0    0    0    0    0    0    1
## [8520,]     0    0    0    0    0    1    0    0    0    0
## [8521,]     0    0    0    0    0    0    0    0    1    0
## [8522,]     0    0    0    0    0    1    0    0    0    0
## [8523,]     0    0    0    0    0    0    0    0    1    0
## [8524,]     0    0    0    0    0    0    1    0    0    0
## [8525,]     0    0    0    1    0    0    0    0    0    0
## [8526,]     0    0    0    0    0    0    0    0    0    1
## [8527,]     0    0    0    0    0    0    1    0    0    0
## [8528,]     1    0    0    0    0    0    0    0    0    0
## [8529,]     0    0    0    1    0    0    0    0    0    0
## [8530,]     0    1    0    0    0    0    0    0    0    0
## [8531,]     0    1    0    0    0    0    0    0    0    0
## [8532,]     1    0    0    0    0    0    0    0    0    0
## [8533,]     0    0    0    0    0    0    1    0    0    0
## [8534,]     1    0    0    0    0    0    0    0    0    0
## [8535,]     0    0    0    0    1    0    0    0    0    0
## [8536,]     0    0    0    0    0    0    0    0    1    0
## [8537,]     0    0    0    0    0    0    0    0    1    0
## [8538,]     0    0    0    1    0    0    0    0    0    0
## [8539,]     0    1    0    0    0    0    0    0    0    0
## [8540,]     0    0    0    0    1    0    0    0    0    0
## [8541,]     1    0    0    0    0    0    0    0    0    0
## [8542,]     0    0    0    1    0    0    0    0    0    0
## [8543,]     0    1    0    0    0    0    0    0    0    0
## [8544,]     0    1    0    0    0    0    0    0    0    0
## [8545,]     0    0    0    1    0    0    0    0    0    0
## [8546,]     1    0    0    0    0    0    0    0    0    0
## [8547,]     0    0    0    0    0    0    1    0    0    0
## [8548,]     0    0    0    0    0    0    0    0    0    1
## [8549,]     0    0    0    0    0    1    0    0    0    0
## [8550,]     0    0    0    0    0    1    0    0    0    0
## [8551,]     0    1    0    0    0    0    0    0    0    0
## [8552,]     0    0    0    1    0    0    0    0    0    0
## [8553,]     0    0    1    0    0    0    0    0    0    0
## [8554,]     0    0    0    0    1    0    0    0    0    0
## [8555,]     0    0    0    1    0    0    0    0    0    0
## [8556,]     0    0    0    0    0    0    0    0    0    1
## [8557,]     0    0    0    0    0    0    0    1    0    0
## [8558,]     0    0    0    1    0    0    0    0    0    0
## [8559,]     0    0    0    0    0    0    0    0    0    1
## [8560,]     0    0    0    0    0    0    0    1    0    0
## [8561,]     0    0    0    0    1    0    0    0    0    0
## [8562,]     0    0    0    0    0    0    1    0    0    0
## [8563,]     0    0    0    0    0    0    0    1    0    0
## [8564,]     0    0    0    0    0    0    0    0    0    1
## [8565,]     0    0    1    0    0    0    0    0    0    0
## [8566,]     0    0    1    0    0    0    0    0    0    0
## [8567,]     0    0    0    0    0    0    0    1    0    0
## [8568,]     0    0    0    0    1    0    0    0    0    0
```

```
## [8569,]      0      0      0      1      0      0      0      0      0      0
## [8570,]      0      0      0      0      0      1      0      0      0      0
## [8571,]      0      0      0      0      1      0      0      0      0      0
## [8572,]      0      0      0      0      0      0      0      1      0      0
## [8573,]      0      0      0      0      0      0      0      1      0      0
## [8574,]      0      0      1      0      0      0      0      0      0      0
## [8575,]      0      1      0      0      0      0      0      0      0      0
## [8576,]      0      1      0      0      0      0      0      0      0      0
## [8577,]      0      0      0      0      0      0      0      1      0      0
## [8578,]      0      0      0      0      0      0      1      0      0      0
## [8579,]      0      1      0      0      0      0      0      0      0      0
## [8580,]      0      0      0      0      1      0      0      0      0      0
## [8581,]      0      0      0      0      1      0      0      0      0      0
## [8582,]      0      0      0      0      0      0      0      0      0      1
## [8583,]      0      0      1      0      0      0      0      0      0      0
## [8584,]      0      0      0      0      1      0      0      0      0      0
## [8585,]      0      0      0      0      0      0      0      0      1      0
## [8586,]      0      0      0      0      0      0      0      0      0      1
## [8587,]      0      0      0      0      0      0      0      0      0      1
## [8588,]      0      0      0      0      1      0      0      0      0      0
## [8589,]      0      1      0      0      0      0      0      0      0      0
## [8590,]      0      1      0      0      0      0      0      0      0      0
## [8591,]      0      0      0      0      0      0      1      0      0      0
## [8592,]      0      0      1      0      0      0      0      0      0      0
## [8593,]      0      0      0      0      0      0      0      0      0      1
## [8594,]      0      0      1      0      0      0      0      0      0      0
## [8595,]      0      0      0      0      0      0      0      1      0      0
## [8596,]      0      1      0      0      0      0      0      0      0      0
## [8597,]      0      0      0      0      0      0      0      1      0      0
## [8598,]      0      0      0      1      0      0      0      0      0      0
## [8599,]      0      0      1      0      0      0      0      0      0      0
## [8600,]      0      0      1      0      0      0      0      0      0      0
## [8601,]      0      0      0      0      1      0      0      0      0      0
## [8602,]      0      0      0      0      0      0      0      0      0      1
## [8603,]      0      1      0      0      0      0      0      0      0      0
## [8604,]      0      0      0      0      1      0      0      0      0      0
## [8605,]      0      0      0      0      0      0      0      1      0      0
## [8606,]      0      0      0      1      0      0      0      0      0      0
## [8607,]      0      0      0      1      0      0      0      0      0      0
## [8608,]      0      0      0      0      0      0      0      0      1      0
## [8609,]      0      0      0      0      0      0      0      0      0      1
## [8610,]      0      0      1      0      0      0      0      0      0      0
## [8611,]      0      1      0      0      0      0      0      0      0      0
## [8612,]      0      0      1      0      0      0      0      0      0      0
## [8613,]      1      0      0      0      0      0      0      0      0      0
## [8614,]      0      0      1      0      0      0      0      0      0      0
## [8615,]      0      0      1      0      0      0      0      0      0      0
## [8616,]      0      1      0      0      0      0      0      0      0      0
## [8617,]      0      0      0      0      0      0      0      1      0      0
## [8618,]      0      0      1      0      0      0      0      0      0      0
## [8619,]      0      0      0      0      0      0      0      0      1      0
## [8620,]      0      0      0      0      0      0      0      0      1      0
## [8621,]      0      0      0      0      0      0      0      0      0      1
## [8622,]      0      0      0      0      0      0      1      0      0      0
```

```
## [8623,]    0    0    0    0    1    0    0    0    0    0
## [8624,]    0    0    0    0    0    1    0    0    0    0
## [8625,]    0    0    0    0    0    1    0    0    0    0
## [8626,]    0    1    0    0    0    0    0    0    0    0
## [8627,]    0    0    0    0    0    0    0    0    0    1
## [8628,]    0    0    0    0    0    0    1    0    0    0
## [8629,]    0    0    0    0    0    0    1    0    0    0
## [8630,]    0    0    0    0    0    0    0    1    0    0
## [8631,]    0    0    0    0    0    0    0    0    0    1
## [8632,]    0    0    1    0    0    0    0    0    0    0
## [8633,]    0    0    1    0    0    0    0    0    0    0
## [8634,]    0    1    0    0    0    0    0    0    0    0
## [8635,]    0    0    0    0    1    0    0    0    0    0
## [8636,]    0    0    0    1    0    0    0    0    0    0
## [8637,]    0    0    0    0    0    0    1    0    0    0
## [8638,]    0    0    0    0    0    0    0    1    0    0
## [8639,]    0    0    0    0    0    0    1    0    0    0
## [8640,]    0    0    0    0    0    1    0    0    0    0
## [8641,]    0    0    1    0    0    0    0    0    0    0
## [8642,]    0    0    0    0    0    0    0    0    0    1
## [8643,]    0    0    0    0    0    1    0    0    0    0
## [8644,]    0    0    0    1    0    0    0    0    0    0
## [8645,]    0    0    0    0    1    0    0    0    0    0
## [8646,]    0    0    0    0    0    0    0    0    1    0
## [8647,]    0    0    0    0    0    1    0    0    0    0
## [8648,]    0    0    0    0    0    0    0    1    0    0
## [8649,]    0    1    0    0    0    0    0    0    0    0
## [8650,]    0    0    0    0    0    1    0    0    0    0
## [8651,]    0    0    0    0    1    0    0    0    0    0
## [8652,]    0    0    0    0    0    0    0    1    0    0
## [8653,]    0    1    0    0    0    0    0    0    0    0
## [8654,]    1    0    0    0    0    0    0    0    0    0
## [8655,]    0    0    0    0    0    0    0    0    0    1
## [8656,]    0    0    0    0    0    0    0    1    0    0
## [8657,]    0    0    0    0    0    1    0    0    0    0
## [8658,]    0    0    0    0    1    0    0    0    0    0
## [8659,]    0    0    0    0    0    0    1    0    0    0
## [8660,]    0    0    0    0    0    0    0    0    1    0
## [8661,]    0    1    0    0    0    0    0    0    0    0
## [8662,]    0    0    0    0    0    0    0    0    1    0
## [8663,]    0    0    0    0    0    0    0    0    1    0
## [8664,]    0    0    0    1    0    0    0    0    0    0
## [8665,]    0    1    0    0    0    0    0    0    0    0
## [8666,]    0    0    0    0    0    0    0    1    0    0
## [8667,]    0    0    0    0    0    0    0    0    1    0
## [8668,]    0    0    0    0    0    0    1    0    0    0
## [8669,]    0    0    0    0    0    1    0    0    0    0
## [8670,]    0    0    0    0    0    0    0    0    0    1
## [8671,]    0    0    1    0    0    0    0    0    0    0
## [8672,]    0    0    0    0    0    0    0    0    0    1
## [8673,]    0    0    0    1    0    0    0    0    0    0
## [8674,]    0    0    0    0    1    0    0    0    0    0
## [8675,]    0    0    0    0    0    0    0    0    0    1
## [8676,]    0    0    0    0    0    0    0    0    1    0
```

```
##   [8677,]    0    0    0    0    0    1    0    0    0    0
##   [8678,]    0    0    0    0    1    0    0    0    0    0
##   [8679,]    0    1    0    0    0    0    0    0    0    0
##   [8680,]    0    1    0    0    0    0    0    0    0    0
##   [8681,]    0    0    0    0    0    0    0    0    1    0
##   [8682,]    1    0    0    0    0    0    0    0    0    0
##   [8683,]    1    0    0    0    0    0    0    0    0    0
##   [8684,]    0    0    0    0    0    0    1    0    0    0
##   [8685,]    0    0    0    1    0    0    0    0    0    0
##   [8686,]    0    0    0    0    0    0    1    0    0    0
##   [8687,]    0    0    0    0    0    0    0    0    1    0
##   [8688,]    1    0    0    0    0    0    0    0    0    0
##   [8689,]    0    0    0    0    0    0    1    0    0    0
##   [8690,]    0    1    0    0    0    0    0    0    0    0
##   [8691,]    0    0    0    0    0    0    0    0    1    0
##   [8692,]    0    0    1    0    0    0    0    0    0    0
##   [8693,]    0    0    0    0    0    0    1    0    0    0
##   [8694,]    0    0    0    1    0    0    0    0    0    0
##   [8695,]    0    0    0    0    0    0    0    0    1    0
##   [8696,]    0    0    0    0    1    0    0    0    0    0
##   [8697,]    0    0    0    0    1    0    0    0    0    0
##   [8698,]    0    0    0    0    0    0    1    0    0    0
##   [8699,]    0    0    0    0    0    0    0    1    0    0
##   [8700,]    0    0    0    0    0    0    0    1    0    0
##   [8701,]    0    0    0    1    0    0    0    0    0    0
##   [8702,]    0    0    0    0    0    0    0    0    1    0
##   [8703,]    0    0    0    0    0    0    0    0    0    1
##   [8704,]    1    0    0    0    0    0    0    0    0    0
##   [8705,]    0    1    0    0    0    0    0    0    0    0
##   [8706,]    0    1    0    0    0    0    0    0    0    0
##   [8707,]    0    0    0    0    1    0    0    0    0    0
##   [8708,]    0    0    1    0    0    0    0    0    0    0
##   [8709,]    0    0    0    1    0    0    0    0    0    0
##   [8710,]    0    0    0    1    0    0    0    0    0    0
##   [8711,]    0    0    0    1    0    0    0    0    0    0
##   [8712,]    0    0    0    0    1    0    0    0    0    0
##   [8713,]    0    0    0    0    0    1    0    0    0    0
##   [8714,]    0    0    0    0    0    1    0    0    0    0
##   [8715,]    0    0    0    0    0    0    0    0    0    1
##   [8716,]    0    0    0    0    0    0    1    0    0    0
##   [8717,]    0    0    0    1    0    0    0    0    0    0
##   [8718,]    0    0    0    0    0    0    0    1    0    0
##   [8719,]    0    0    0    0    0    0    0    1    0    0
##   [8720,]    0    0    0    0    0    0    0    0    1    0
##   [8721,]    0    0    0    0    0    0    1    0    0    0
##   [8722,]    0    0    0    0    0    0    0    0    0    1
##   [8723,]    0    0    0    0    0    0    0    0    1    0
##   [8724,]    1    0    0    0    0    0    0    0    0    0
##   [8725,]    1    0    0    0    0    0    0    0    0    0
##   [8726,]    0    1    0    0    0    0    0    0    0    0
##   [8727,]    0    0    0    0    0    0    1    0    0    0
##   [8728,]    0    0    1    0    0    0    0    0    0    0
##   [8729,]    0    0    0    0    0    1    0    0    0    0
##   [8730,]    0    0    0    1    0    0    0    0    0    0
```

```
## [8731,]    0    0    0    0    0    0    0    0    1    0
## [8732,]    0    0    0    0    0    1    0    0    0    0
## [8733,]    0    0    0    0    0    0    0    0    1    0
## [8734,]    0    0    0    0    0    0    1    0    0    0
## [8735,]    0    0    0    0    0    1    0    0    0    0
## [8736,]    0    0    0    0    0    0    0    1    0    0
## [8737,]    0    0    0    0    0    0    0    0    0    1
## [8738,]    0    0    0    0    1    0    0    0    0    0
## [8739,]    0    1    0    0    0    0    0    0    0    0
## [8740,]    1    0    0    0    0    0    0    0    0    0
## [8741,]    0    0    1    0    0    0    0    0    0    0
## [8742,]    0    0    0    0    0    0    0    1    0    0
## [8743,]    0    0    1    0    0    0    0    0    0    0
## [8744,]    0    0    1    0    0    0    0    0    0    0
## [8745,]    0    0    0    0    0    1    0    0    0    0
## [8746,]    0    0    0    0    0    0    0    0    0    1
## [8747,]    0    0    0    0    0    0    0    0    1    0
## [8748,]    0    0    0    0    1    0    0    0    0    0
## [8749,]    0    0    0    0    0    1    0    0    0    0
## [8750,]    0    0    1    0    0    0    0    0    0    0
## [8751,]    0    0    0    0    0    0    0    0    0    1
## [8752,]    0    0    0    0    0    0    0    0    0    1
## [8753,]    0    0    1    0    0    0    0    0    0    0
## [8754,]    0    0    0    0    0    0    0    0    1    0
## [8755,]    1    0    0    0    0    0    0    0    0    0
## [8756,]    0    0    0    0    1    0    0    0    0    0
## [8757,]    0    0    0    1    0    0    0    0    0    0
## [8758,]    0    0    0    0    0    1    0    0    0    0
## [8759,]    0    0    0    0    0    0    0    1    0    0
## [8760,]    0    0    0    0    0    0    0    0    1    0
## [8761,]    0    1    0    0    0    0    0    0    0    0
## [8762,]    0    0    0    0    0    0    0    0    1    0
## [8763,]    0    0    0    1    0    0    0    0    0    0
## [8764,]    1    0    0    0    0    0    0    0    0    0
## [8765,]    0    0    0    0    0    0    0    0    1    0
## [8766,]    0    0    0    1    0    0    0    0    0    0
## [8767,]    0    0    0    0    0    1    0    0    0    0
## [8768,]    0    0    0    0    0    1    0    0    0    0
## [8769,]    0    0    0    0    1    0    0    0    0    0
## [8770,]    0    0    0    0    1    0    0    0    0    0
## [8771,]    0    0    0    0    0    0    1    0    0    0
## [8772,]    0    0    0    1    0    0    0    0    0    0
## [8773,]    0    1    0    0    0    0    0    0    0    1
## [8774,]    0    0    0    1    0    0    0    0    0    0
## [8775,]    0    0    0    0    0    0    1    0    0    0
## [8776,]    0    0    0    0    1    0    0    0    0    0
## [8777,]    0    0    0    0    0    0    0    0    0    1
## [8778,]    0    0    0    0    0    0    1    0    0    0
## [8779,]    0    1    0    0    0    0    0    0    0    0
## [8780,]    0    0    0    0    0    1    0    0    0    0
## [8781,]    0    0    0    0    0    0    0    0    1    0
## [8782,]    0    1    0    0    0    0    0    0    0    0
## [8783,]    0    0    0    0    0    0    0    0    1    0
## [8784,]    0    0    0    0    0    0    0    1    0    0
```

```
## [8785,]    0    0    1    0    0    0    0    0    0    0
## [8786,]    0    0    0    0    0    0    0    0    1    0
## [8787,]    0    0    0    1    0    0    0    0    0    0
## [8788,]    0    0    0    0    1    0    0    0    0    0
## [8789,]    1    0    0    0    0    0    0    0    0    0
## [8790,]    0    0    0    0    0    1    0    0    0    0
## [8791,]    0    0    0    1    0    0    0    0    0    0
## [8792,]    0    0    0    0    0    0    0    1    0    0
## [8793,]    0    0    0    0    0    0    1    0    0    0
## [8794,]    0    0    1    0    0    0    0    0    0    0
## [8795,]    0    0    0    1    0    0    0    0    0    0
## [8796,]    0    0    0    1    0    0    0    0    0    0
## [8797,]    0    0    0    0    1    0    0    0    0    0
## [8798,]    0    0    0    0    0    0    1    0    0    0
## [8799,]    0    0    0    0    0    0    0    1    0    0
## [8800,]    0    0    0    0    0    0    1    0    0    0
## [8801,]    0    0    0    1    0    0    0    0    0    0
## [8802,]    0    0    0    0    0    0    0    1    0    0
## [8803,]    0    0    0    0    0    0    0    0    0    1
## [8804,]    0    0    0    0    0    0    0    1    0    0
## [8805,]    0    0    0    0    0    0    0    1    0    0
## [8806,]    0    0    0    0    0    0    0    1    0    0
## [8807,]    0    1    0    0    0    0    0    0    0    0
## [8808,]    0    0    0    0    0    0    1    0    0    0
## [8809,]    0    0    0    1    0    0    0    0    0    0
## [8810,]    1    0    0    0    0    0    0    0    0    0
## [8811,]    0    0    1    0    0    0    0    0    0    0
## [8812,]    0    1    0    0    0    0    0    0    0    0
## [8813,]    1    0    0    0    0    0    0    0    0    0
## [8814,]    1    0    0    0    0    0    0    0    0    0
## [8815,]    0    0    0    0    0    0    1    0    0    0
## [8816,]    0    1    0    0    0    0    0    0    0    0
## [8817,]    0    0    0    1    0    0    0    0    0    0
## [8818,]    0    0    0    0    0    0    1    0    0    0
## [8819,]    0    0    0    1    0    0    0    0    0    0
## [8820,]    0    0    0    0    0    1    0    0    0    0
## [8821,]    0    0    0    0    0    0    1    0    0    0
## [8822,]    0    0    0    1    0    0    0    0    0    0
## [8823,]    0    0    0    0    0    0    1    0    0    0
## [8824,]    0    1    0    0    0    0    0    0    0    0
## [8825,]    0    0    0    1    0    0    0    0    0    0
## [8826,]    0    0    0    0    1    0    0    0    0    0
## [8827,]    0    0    0    0    0    0    1    0    0    0
## [8828,]    0    0    0    0    0    0    0    1    0    0
## [8829,]    0    0    0    0    0    0    0    1    0    0
## [8830,]    0    0    0    0    0    0    1    0    0    0
## [8831,]    0    0    0    1    0    0    0    0    0    0
## [8832,]    0    0    1    0    0    0    0    0    0    0
## [8833,]    0    0    0    0    1    0    0    0    0    0
## [8834,]    0    0    1    0    0    0    0    0    0    0
## [8835,]    0    0    1    0    0    0    0    0    0    0
## [8836,]    0    0    0    0    0    1    0    0    0    0
## [8837,]    0    1    0    0    0    0    0    0    0    0
## [8838,]    0    0    0    0    0    0    0    0    0    1
```

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```
## [8839,]    1    0    0    0    0    0    0    0    0    0
## [8840,]    0    1    0    0    0    0    0    0    0    0
## [8841,]    0    0    0    0    1    0    0    0    0    0
## [8842,]    0    0    1    0    0    0    0    0    0    0
## [8843,]    0    0    0    0    1    0    0    0    0    0
## [8844,]    0    0    1    0    0    0    0    0    0    0
## [8845,]    0    0    1    0    0    0    0    0    0    0
## [8846,]    0    0    0    0    0    0    0    1    0    0
## [8847,]    0    0    0    0    0    0    1    0    0    0
## [8848,]    0    0    0    0    0    0    0    0    0    1
## [8849,]    0    0    0    0    0    0    1    0    0    0
## [8850,]    0    0    0    0    0    0    0    1    0    0
## [8851,]    0    0    0    0    0    0    1    0    0    0
## [8852,]    0    0    0    0    0    0    0    0    0    1
## [8853,]    0    0    1    0    0    0    0    0    0    0
## [8854,]    0    0    1    0    0    0    0    0    0    0
## [8855,]    0    0    0    0    1    0    0    0    0    0
## [8856,]    1    0    0    0    0    0    0    0    0    0
## [8857,]    0    0    0    0    0    1    0    0    0    0
## [8858,]    0    0    0    0    1    0    0    0    0    0
## [8859,]    0    0    1    0    0    0    0    0    0    0
## [8860,]    0    0    0    0    0    0    0    0    1    0
## [8861,]    0    0    0    0    0    0    1    0    0    0
## [8862,]    0    0    0    0    0    0    0    1    0    0
## [8863,]    0    0    0    0    0    0    1    0    0    0
## [8864,]    1    0    0    0    0    0    0    0    0    0
## [8865,]    0    0    1    0    0    0    0    0    0    0
## [8866,]    0    0    0    1    0    0    0    0    0    0
## [8867,]    0    0    0    0    0    0    0    1    0    0
## [8868,]    0    0    0    0    0    0    0    0    1    0
## [8869,]    0    0    0    0    0    0    1    0    0    0
## [8870,]    0    0    0    0    1    0    0    0    0    0
## [8871,]    0    0    0    0    0    0    1    0    0    0
## [8872,]    0    0    0    0    0    0    1    0    0    0
## [8873,]    0    0    0    0    1    0    0    0    0    0
## [8874,]    0    1    0    0    0    0    0    0    0    0
## [8875,]    0    0    0    0    1    0    0    0    0    0
## [8876,]    0    0    0    0    1    0    0    0    0    0
## [8877,]    0    0    0    0    0    1    0    0    0    0
## [8878,]    1    0    0    0    0    0    0    0    0    0
## [8879,]    0    0    1    0    0    0    0    0    0    0
## [8880,]    0    0    0    1    0    0    0    0    0    0
## [8881,]    0    0    0    1    0    0    0    0    0    0
## [8882,]    0    0    0    0    0    0    1    0    0    0
## [8883,]    0    0    0    1    0    0    0    0    0    0
## [8884,]    0    0    1    0    0    0    0    0    0    0
## [8885,]    0    0    0    1    0    0    0    0    0    0
## [8886,]    1    0    0    0    0    0    0    0    0    0
## [8887,]    0    0    1    0    0    0    0    0    0    0
## [8888,]    0    0    0    0    1    0    0    0    0    0
## [8889,]    0    0    0    1    0    0    0    0    0    0
## [8890,]    0    0    0    0    0    0    0    0    1    0
## [8891,]    0    0    0    0    1    0    0    0    0    0
## [8892,]    0    1    0    0    0    0    0    0    0    0
```

```
## [8893,]      0    0    0    0    0    0    0    0    1    0
## [8894,]      0    0    0    1    0    0    0    0    0    0
## [8895,]      1    0    0    0    0    0    0    0    0    0
## [8896,]      0    1    0    0    0    0    0    0    0    0
## [8897,]      1    0    0    0    0    0    0    0    0    0
## [8898,]      1    0    0    0    0    0    0    0    0    0
## [8899,]      0    0    0    0    0    0    1    0    0    0
## [8900,]      0    0    0    0    0    0    0    0    0    1
## [8901,]      0    0    0    0    0    1    0    0    0    0
## [8902,]      1    0    0    0    0    0    0    0    0    0
## [8903,]      0    0    0    0    0    0    0    0    0    1
## [8904,]      0    1    0    0    0    0    0    0    0    0
## [8905,]      0    1    0    0    0    0    0    0    0    0
## [8906,]      0    0    1    0    0    0    0    0    0    0
## [8907,]      0    0    0    0    1    0    0    0    0    0
## [8908,]      0    0    0    1    0    0    0    0    0    0
## [8909,]      0    0    0    0    0    0    1    0    0    0
## [8910,]      0    0    0    0    0    1    0    0    0    0
## [8911,]      0    0    0    0    0    0    0    1    0    0
## [8912,]      0    0    0    0    0    0    1    0    0    0
## [8913,]      1    0    0    0    0    0    0    0    0    0
## [8914,]      0    0    0    0    0    0    0    1    0    0
## [8915,]      0    0    0    0    1    0    0    0    0    0
## [8916,]      0    0    0    0    0    0    0    0    1    0
## [8917,]      0    1    0    0    0    0    0    0    0    0
## [8918,]      1    0    0    0    0    0    0    0    0    0
## [8919,]      0    0    0    0    0    0    0    0    1    0
## [8920,]      0    1    0    0    0    0    0    0    0    0
## [8921,]      0    0    0    0    0    0    0    0    1    0
## [8922,]      0    0    1    0    0    0    0    0    0    0
## [8923,]      0    0    1    0    0    0    0    0    0    0
## [8924,]      0    0    0    1    0    0    0    0    0    0
## [8925,]      0    0    1    0    0    0    0    0    0    0
## [8926,]      0    0    0    0    1    0    0    0    0    0
## [8927,]      1    0    0    0    0    0    0    0    0    0
## [8928,]      0    0    0    0    0    1    0    0    0    0
## [8929,]      0    0    0    0    0    0    0    0    1    0
## [8930,]      0    0    0    0    0    0    1    0    0    0
## [8931,]      0    0    0    0    1    0    0    0    0    0
## [8932,]      0    0    0    0    0    0    0    1    0    0
## [8933,]      1    0    0    0    0    0    0    0    0    0
## [8934,]      0    0    0    0    0    0    0    0    1    0
## [8935,]      0    1    0    0    0    0    0    0    0    0
## [8936,]      1    0    0    0    0    0    0    0    0    0
## [8937,]      0    0    0    1    0    0    0    0    0    0
## [8938,]      0    1    0    0    0    0    0    0    0    0
## [8939,]      0    0    0    0    0    1    0    0    0    0
## [8940,]      0    0    1    0    0    0    0    0    0    0
## [8941,]      0    0    0    0    0    0    1    0    0    0
## [8942,]      0    0    0    1    0    0    0    0    0    0
## [8943,]      0    0    0    0    0    0    1    0    0    0
## [8944,]      0    0    0    0    1    0    0    0    0    0
## [8945,]      0    0    0    0    1    0    0    0    0    0
## [8946,]      0    0    0    0    0    1    0    0    0    0
```

```
## [8947,]    0    0    0    1    0    0    0    0    0    0
## [8948,]    0    0    0    0    0    0    1    0    0    0
## [8949,]    0    0    0    1    0    0    0    0    0    0
## [8950,]    0    0    0    0    0    0    0    1    0    0
## [8951,]    0    0    0    0    1    0    0    0    0    0
## [8952,]    0    0    0    0    0    0    0    0    1    0
## [8953,]    0    0    1    0    0    0    0    0    0    0
## [8954,]    0    0    0    0    0    0    0    0    0    1
## [8955,]    0    0    0    0    0    0    0    1    0    0
## [8956,]    0    0    0    0    0    0    0    0    1    0
## [8957,]    0    0    0    0    1    0    0    0    0    0
## [8958,]    0    0    0    1    0    0    0    0    0    0
## [8959,]    0    0    0    1    0    0    0    0    0    0
## [8960,]    0    0    0    0    0    0    0    1    0    0
## [8961,]    0    0    1    0    0    0    0    0    0    0
## [8962,]    1    0    0    0    0    0    0    0    0    0
## [8963,]    0    0    0    0    1    0    0    0    0    0
## [8964,]    0    1    0    0    0    0    0    0    0    0
## [8965,]    0    0    0    0    1    0    0    0    0    0
## [8966,]    0    0    0    0    0    0    0    1    0    0
## [8967,]    0    0    1    0    0    0    0    0    0    0
## [8968,]    0    0    0    1    0    0    0    0    0    0
## [8969,]    0    0    0    0    0    0    0    0    0    1
## [8970,]    1    0    0    0    0    0    0    0    0    0
## [8971,]    0    1    0    0    0    0    0    0    0    0
## [8972,]    0    0    0    0    0    0    0    0    0    1
## [8973,]    0    0    1    0    0    0    0    0    0    0
## [8974,]    0    0    0    0    1    0    0    0    0    0
## [8975,]    0    0    0    0    0    0    1    0    0    0
## [8976,]    0    0    0    0    0    1    0    0    0    0
## [8977,]    0    0    0    1    0    0    0    0    0    0
## [8978,]    0    0    1    0    0    0    0    0    0    0
## [8979,]    0    0    1    0    0    0    0    0    0    0
## [8980,]    1    0    0    0    0    0    0    0    0    0
## [8981,]    0    0    0    0    0    0    0    1    0    0
## [8982,]    0    0    0    0    0    0    1    0    0    0
## [8983,]    1    0    0    0    0    0    0    0    0    0
## [8984,]    0    0    1    0    0    0    0    0    0    0
## [8985,]    0    1    0    0    0    0    0    0    0    0
## [8986,]    0    1    0    0    0    0    0    0    0    0
## [8987,]    0    0    0    0    0    1    0    0    0    0
## [8988,]    0    1    0    0    0    0    0    0    0    0
## [8989,]    0    0    0    0    0    1    0    0    0    0
## [8990,]    0    1    0    0    0    0    0    0    0    0
## [8991,]    0    0    0    0    0    0    0    1    0    0
## [8992,]    0    0    0    0    0    0    0    1    0    0
## [8993,]    0    1    0    0    0    0    0    0    0    0
## [8994,]    0    0    1    0    0    0    0    0    0    0
## [8995,]    0    0    0    0    0    0    1    0    0    0
## [8996,]    0    0    0    0    1    0    0    0    0    0
## [8997,]    0    0    0    0    1    0    0    0    0    0
## [8998,]    0    0    1    0    0    0    0    0    0    0
## [8999,]    0    0    0    0    0    0    0    0    0    1
## [9000,]    0    0    0    0    0    0    0    0    0    1
```

```
## [9001,]    0    0    0    0    0    0    1    0    0    0
## [9002,]    0    0    0    0    0    0    0    1    0    0
## [9003,]    0    0    0    0    0    0    0    0    0    1
## [9004,]    1    0    0    0    0    0    0    0    0    0
## [9005,]    0    0    0    1    0    0    0    0    0    0
## [9006,]    1    0    0    0    0    0    0    0    0    0
## [9007,]    0    0    0    1    0    0    0    0    0    0
## [9008,]    0    0    0    0    0    0    0    1    0    0
## [9009,]    0    0    0    0    0    0    0    0    1    0
## [9010,]    0    0    0    0    0    1    0    0    0    0
## [9011,]    0    0    0    0    0    0    1    0    0    0
## [9012,]    0    1    0    0    0    0    0    0    0    0
## [9013,]    0    1    0    0    0    0    0    0    0    0
## [9014,]    0    1    0    0    0    0    0    0    0    0
## [9015,]    0    0    0    0    0    0    0    0    1    0
## [9016,]    0    0    0    0    0    0    1    0    0    0
## [9017,]    0    0    0    0    0    0    1    0    0    0
## [9018,]    0    1    0    0    0    0    0    0    0    0
## [9019,]    1    0    0    0    0    0    0    0    0    0
## [9020,]    0    0    0    0    0    0    0    0    1    0
## [9021,]    0    0    0    0    0    0    0    0    1    0
## [9022,]    0    0    1    0    0    0    0    0    0    0
## [9023,]    0    0    0    0    0    0    0    1    0    0
## [9024,]    0    0    0    0    0    0    0    1    0    0
## [9025,]    0    0    0    0    0    0    1    0    0    0
## [9026,]    0    0    0    0    1    0    0    0    0    0
## [9027,]    0    0    0    0    1    0    0    0    0    0
## [9028,]    1    0    0    0    0    0    0    0    0    0
## [9029,]    0    0    0    0    0    1    0    0    0    0
## [9030,]    0    0    0    0    1    0    0    0    0    0
## [9031,]    0    0    0    0    1    0    0    0    0    0
## [9032,]    0    0    1    0    0    0    0    0    0    0
## [9033,]    1    0    0    0    0    0    0    0    0    0
## [9034,]    0    0    0    0    0    1    0    0    0    0
## [9035,]    1    0    0    0    0    0    0    0    0    0
## [9036,]    1    0    0    0    0    0    0    0    0    0
## [9037,]    0    0    1    0    0    0    0    0    0    0
## [9038,]    0    0    0    1    0    0    0    0    0    0
## [9039,]    1    0    0    0    0    0    0    0    0    0
## [9040,]    0    1    0    0    0    0    0    0    0    0
## [9041,]    0    0    0    0    1    0    0    0    0    0
## [9042,]    0    0    0    0    0    0    0    0    0    1
## [9043,]    0    0    0    0    0    0    1    0    0    0
## [9044,]    0    1    0    0    0    0    0    0    0    0
## [9045,]    0    0    0    0    0    1    0    0    0    0
## [9046,]    0    1    0    0    0    0    0    0    0    0
## [9047,]    0    0    0    0    1    0    0    0    0    0
## [9048,]    1    0    0    0    0    0    0    0    0    0
## [9049,]    1    0    0    0    0    0    0    0    0    0
## [9050,]    0    0    0    0    0    0    1    0    0    0
## [9051,]    0    0    0    0    0    0    0    0    1    0
## [9052,]    0    0    0    0    0    0    0    0    0    1
## [9053,]    0    0    0    0    0    0    0    1    0    0
## [9054,]    0    0    0    1    0    0    0    0    0    0
```

```
## [9055,]     0    0    1    0    0    0    0    0    0    0
## [9056,]     1    0    0    0    0    0    0    0    0    0
## [9057,]     1    0    0    0    0    0    0    0    0    0
## [9058,]     0    0    0    0    0    0    0    0    1    0
## [9059,]     0    0    0    0    0    0    1    0    0    0
## [9060,]     0    0    0    1    0    0    0    0    0    0
## [9061,]     0    0    0    0    0    0    0    1    0    0
## [9062,]     0    0    0    0    0    0    0    0    0    1
## [9063,]     0    0    0    0    0    1    0    0    0    0
## [9064,]     0    0    0    0    0    0    1    0    0    0
## [9065,]     0    0    0    0    0    1    0    0    0    0
## [9066,]     0    0    0    1    0    0    0    0    0    0
## [9067,]     0    0    0    0    0    0    0    0    0    1
## [9068,]     1    0    0    0    0    0    0    0    0    0
## [9069,]     0    0    0    0    0    0    1    0    0    0
## [9070,]     0    1    0    0    0    0    0    0    0    0
## [9071,]     0    0    0    0    0    0    0    0    0    1
## [9072,]     0    0    0    0    1    0    0    0    0    0
## [9073,]     0    1    0    0    0    0    0    0    0    0
## [9074,]     0    0    0    0    0    1    0    0    0    0
## [9075,]     0    0    0    1    0    0    0    0    0    0
## [9076,]     0    0    0    0    0    0    1    0    0    0
## [9077,]     0    0    0    0    0    0    0    0    1    0
## [9078,]     0    0    0    0    0    0    0    1    0    0
## [9079,]     0    0    0    1    0    0    0    0    0    0
## [9080,]     0    0    0    0    0    0    0    0    1    0
## [9081,]     0    0    0    1    0    0    0    0    0    0
## [9082,]     0    0    0    0    0    0    0    0    0    1
## [9083,]     0    0    0    0    0    0    0    1    0    0
## [9084,]     1    0    0    0    0    0    0    0    0    0
## [9085,]     0    0    0    0    0    1    0    0    0    0
## [9086,]     0    1    0    0    0    0    0    0    0    0
## [9087,]     0    0    0    0    0    0    0    1    0    0
## [9088,]     0    0    1    0    0    0    0    0    0    0
## [9089,]     0    0    0    0    0    0    0    0    1    0
## [9090,]     0    0    0    1    0    0    0    0    0    0
## [9091,]     0    0    0    0    0    0    1    0    0    0
## [9092,]     0    0    0    0    1    0    0    0    0    0
## [9093,]     0    0    1    0    0    0    0    0    0    0
## [9094,]     0    0    0    0    0    1    0    0    0    0
## [9095,]     0    0    0    0    0    0    1    0    0    0
## [9096,]     0    0    0    0    0    0    1    0    0    0
## [9097,]     0    0    0    0    0    1    0    0    0    0
## [9098,]     0    0    0    0    0    0    0    1    0    0
## [9099,]     0    0    1    0    0    0    0    0    0    0
## [9100,]     0    0    0    0    0    0    0    0    1    0
## [9101,]     0    0    0    0    1    0    0    0    0    0
## [9102,]     1    0    0    0    0    0    0    0    0    0
## [9103,]     0    0    0    0    0    0    0    1    0    0
## [9104,]     0    1    0    0    0    0    0    0    0    0
## [9105,]     0    0    1    0    0    0    0    0    0    0
## [9106,]     0    0    1    0    0    0    0    0    0    0
## [9107,]     0    1    0    0    0    0    0    0    0    0
## [9108,]     0    0    0    1    0    0    0    0    0    0
```

```
## [9109,]    0    0    0    0    1    0    0    0    0    0
## [9110,]    0    0    0    0    1    0    0    0    0    0
## [9111,]    0    1    0    0    0    0    0    0    0    0
## [9112,]    0    0    0    0    0    1    0    0    0    0
## [9113,]    0    0    0    0    0    0    0    0    1    0
## [9114,]    0    0    0    0    0    0    1    0    0    0
## [9115,]    0    0    0    0    0    0    0    0    0    1
## [9116,]    0    0    0    0    0    0    0    1    0    0
## [9117,]    0    0    0    0    1    0    0    0    0    0
## [9118,]    0    0    0    0    0    0    0    0    1    0
## [9119,]    0    0    0    0    0    0    0    0    0    1
## [9120,]    0    0    0    0    0    0    0    0    0    1
## [9121,]    0    0    0    0    0    0    1    0    0    0
## [9122,]    0    1    0    0    0    0    0    0    0    0
## [9123,]    0    0    0    0    0    0    0    0    0    1
## [9124,]    0    0    0    0    0    0    1    0    0    0
## [9125,]    0    0    0    0    0    1    0    0    0    0
## [9126,]    0    0    0    0    0    0    0    0    1    0
## [9127,]    0    0    0    0    0    0    1    0    0    0
## [9128,]    0    0    0    0    0    0    0    0    0    1
## [9129,]    0    0    0    0    0    0    0    0    0    1
## [9130,]    0    0    0    0    0    0    0    0    0    1
## [9131,]    0    1    0    0    0    0    0    0    0    0
## [9132,]    1    0    0    0    0    0    0    0    0    0
## [9133,]    0    0    0    0    0    0    0    0    0    1
## [9134,]    0    1    0    0    0    0    0    0    0    0
## [9135,]    0    0    0    0    0    0    0    0    1    0
## [9136,]    0    0    1    0    0    0    0    0    0    0
## [9137,]    0    1    0    0    0    0    0    0    0    0
## [9138,]    0    0    0    0    1    0    0    0    0    0
## [9139,]    0    0    0    0    0    1    0    0    0    0
## [9140,]    0    0    0    0    1    0    0    0    0    0
## [9141,]    0    0    0    1    0    0    0    0    0    0
## [9142,]    0    0    0    1    0    0    0    0    0    0
## [9143,]    1    0    0    0    0    0    0    0    0    0
## [9144,]    0    0    0    0    0    0    0    1    0    0
## [9145,]    0    0    0    0    0    0    1    0    0    0
## [9146,]    0    0    0    0    1    0    0    0    0    0
## [9147,]    0    0    0    1    0    0    0    0    0    0
## [9148,]    0    0    0    0    1    0    0    0    0    0
## [9149,]    0    0    0    0    1    0    0    0    0    0
## [9150,]    0    0    0    0    1    0    0    0    0    0
## [9151,]    0    0    0    0    0    0    0    0    0    1
## [9152,]    1    0    0    0    0    0    0    0    0    0
## [9153,]    0    0    0    0    0    0    0    0    1    0
## [9154,]    0    0    0    1    0    0    0    0    0    0
## [9155,]    0    0    0    0    0    0    0    0    1    0
## [9156,]    0    0    0    0    0    0    0    0    1    0
## [9157,]    0    0    0    0    0    0    1    0    0    0
## [9158,]    0    0    0    0    0    0    0    1    0    0
## [9159,]    1    0    0    0    0    0    0    0    0    0
## [9160,]    0    0    0    0    0    1    0    0    0    0
## [9161,]    0    0    0    0    0    1    0    0    0    0
## [9162,]    0    1    0    0    0    0    0    0    0    0
```

```
## [9163,]     0    0    0    0    0    0    0    1    0    0
## [9164,]     0    0    0    0    0    1    0    0    0    0
## [9165,]     0    0    0    0    0    0    0    0    1    0
## [9166,]     0    0    0    0    0    0    0    0    1    0
## [9167,]     1    0    0    0    0    0    0    0    0    0
## [9168,]     0    0    0    0    0    0    0    0    0    1
## [9169,]     0    0    0    1    0    0    0    0    0    0
## [9170,]     0    0    1    0    0    0    0    0    0    0
## [9171,]     0    0    0    0    0    1    0    0    0    0
## [9172,]     0    0    0    0    0    1    0    0    0    0
## [9173,]     0    0    0    0    1    0    0    0    0    0
## [9174,]     0    1    0    0    0    0    0    0    0    0
## [9175,]     0    0    0    0    0    0    1    0    0    0
## [9176,]     0    1    0    0    0    0    0    0    0    0
## [9177,]     0    0    0    0    0    0    0    0    0    1
## [9178,]     0    0    0    0    0    0    1    0    0    0
## [9179,]     0    0    0    0    0    0    0    0    1    0
## [9180,]     0    0    1    0    0    0    0    0    0    0
## [9181,]     0    0    0    1    0    0    0    0    0    0
## [9182,]     0    1    0    0    0    0    0    0    0    0
## [9183,]     0    0    0    1    0    0    0    0    0    0
## [9184,]     0    0    0    1    0    0    0    0    0    0
## [9185,]     0    0    0    1    0    0    0    0    0    0
## [9186,]     0    0    0    0    0    0    0    0    1    0
## [9187,]     0    0    1    0    0    0    0    0    0    0
## [9188,]     0    0    0    0    0    0    1    0    0    0
## [9189,]     0    0    0    0    0    0    0    1    0    0
## [9190,]     0    0    0    0    1    0    0    0    0    0
## [9191,]     0    0    0    0    1    0    0    0    0    0
## [9192,]     0    0    0    0    0    0    0    0    0    1
## [9193,]     0    0    0    1    0    0    0    0    0    0
## [9194,]     0    0    1    0    0    0    0    0    0    0
## [9195,]     1    0    0    0    0    0    0    0    0    0
## [9196,]     1    0    0    0    0    0    0    0    0    0
## [9197,]     1    0    0    0    0    0    0    0    0    0
## [9198,]     1    0    0    0    0    0    0    0    0    0
## [9199,]     0    0    0    0    0    0    0    1    0    0
## [9200,]     0    1    0    0    0    0    0    0    0    0
## [9201,]     0    0    0    0    0    0    0    1    0    0
## [9202,]     0    0    0    0    0    0    1    0    0    0
## [9203,]     0    0    0    0    0    0    1    0    0    0
## [9204,]     0    0    1    0    0    0    0    0    0    0
## [9205,]     1    0    0    0    0    0    0    0    0    0
## [9206,]     0    0    0    0    0    1    0    0    0    0
## [9207,]     0    0    0    0    0    0    1    0    0    0
## [9208,]     0    0    0    0    0    1    0    0    0    0
## [9209,]     0    0    0    0    0    0    0    0    1    0
## [9210,]     1    0    0    0    0    0    0    0    0    0
## [9211,]     0    0    0    0    0    0    1    0    0    0
## [9212,]     0    0    1    0    0    0    0    0    0    0
## [9213,]     0    0    1    0    0    0    0    0    0    0
## [9214,]     0    0    0    0    0    0    0    0    1    0
## [9215,]     0    0    0    0    0    0    0    1    0    0
## [9216,]     1    0    0    0    0    0    0    0    0    0
```

```
## [9217,]     0    0    0    0    1    0    0    0    0    0
## [9218,]     0    0    0    0    0    0    1    0    0    0
## [9219,]     0    0    1    0    0    0    0    0    0    0
## [9220,]     0    0    0    0    0    0    0    0    1    0
## [9221,]     0    0    0    0    0    0    0    0    1    0
## [9222,]     0    1    0    0    0    0    0    0    0    0
## [9223,]     1    0    0    0    0    0    0    0    0    0
## [9224,]     0    0    0    0    0    0    0    1    0    0
## [9225,]     0    0    0    0    0    0    0    1    0    0
## [9226,]     0    0    0    0    0    0    0    0    0    1
## [9227,]     0    0    0    1    0    0    0    0    0    0
## [9228,]     0    1    0    0    0    0    0    0    0    0
## [9229,]     0    0    0    0    0    1    0    0    0    0
## [9230,]     0    0    0    0    0    0    0    0    0    1
## [9231,]     0    0    0    1    0    0    0    0    0    0
## [9232,]     0    0    1    0    0    0    0    0    0    0
## [9233,]     0    0    0    0    0    1    0    0    0    0
## [9234,]     0    0    0    0    0    0    1    0    0    0
## [9235,]     0    0    0    0    0    0    0    0    1    0
## [9236,]     0    0    0    0    0    0    0    1    0    0
## [9237,]     0    0    0    0    0    1    0    0    0    0
## [9238,]     0    0    0    0    0    0    1    0    0    0
## [9239,]     0    0    0    0    0    0    0    0    0    1
## [9240,]     0    0    0    0    0    0    1    0    0    0
## [9241,]     0    1    0    0    0    0    0    0    0    0
## [9242,]     0    0    0    0    0    0    0    0    1    0
## [9243,]     0    0    1    0    0    0    0    0    0    0
## [9244,]     0    0    0    0    0    0    0    1    0    0
## [9245,]     0    0    0    0    0    0    1    0    0    0
## [9246,]     0    0    0    0    1    0    0    0    0    0
## [9247,]     0    0    1    0    0    0    0    0    0    0
## [9248,]     0    0    0    0    0    0    0    0    0    1
## [9249,]     0    0    1    0    0    0    0    0    0    0
## [9250,]     0    0    1    0    0    0    0    0    0    0
## [9251,]     0    0    0    0    0    0    0    0    1    0
## [9252,]     0    1    0    0    0    0    0    0    0    0
## [9253,]     0    0    1    0    0    0    0    0    0    0
## [9254,]     0    0    0    1    0    0    0    0    0    0
## [9255,]     0    0    0    0    0    0    1    0    0    0
## [9256,]     0    0    0    1    0    0    0    0    0    0
## [9257,]     0    1    0    0    0    0    0    0    0    0
## [9258,]     1    0    0    0    0    0    0    0    0    0
## [9259,]     0    0    1    0    0    0    0    0    0    0
## [9260,]     0    0    0    0    0    1    0    0    0    0
## [9261,]     0    1    0    0    0    0    0    0    0    0
## [9262,]     0    0    0    0    0    1    0    0    0    0
## [9263,]     0    0    0    0    0    0    1    0    0    0
## [9264,]     0    0    0    0    0    0    0    1    0    0
## [9265,]     0    1    0    0    0    0    0    0    0    0
## [9266,]     0    0    0    0    0    0    0    0    0    1
## [9267,]     0    0    1    0    0    0    0    0    0    0
## [9268,]     0    0    0    0    0    0    0    1    0    0
## [9269,]     0    0    0    1    0    0    0    0    0    0
## [9270,]     1    0    0    0    0    0    0    0    0    0
```

```
## [9271,]      0    0    0    0    0    0    0    1    0    0
## [9272,]      0    0    1    0    0    0    0    0    0    0
## [9273,]      0    0    0    1    0    0    0    0    0    0
## [9274,]      0    0    0    0    0    0    0    1    0    0
## [9275,]      0    0    0    0    0    0    0    1    0    0
## [9276,]      0    0    0    0    0    0    0    0    0    1
## [9277,]      0    0    0    0    0    0    0    1    0    0
## [9278,]      0    1    0    0    0    0    0    0    0    0
## [9279,]      0    0    0    1    0    0    0    0    0    0
## [9280,]      0    0    0    1    0    0    0    0    0    0
## [9281,]      0    0    0    0    0    0    1    0    0    0
## [9282,]      0    0    0    0    0    0    1    0    0    0
## [9283,]      0    0    0    0    1    0    0    0    0    0
## [9284,]      0    0    0    0    0    0    0    1    0    0
## [9285,]      0    0    1    0    0    0    0    0    0    0
## [9286,]      0    0    0    0    0    0    0    0    1    0
## [9287,]      0    0    0    0    0    0    0    1    0    0
## [9288,]      1    0    0    0    0    0    0    0    0    0
## [9289,]      0    1    0    0    0    0    0    0    0    0
## [9290,]      0    0    0    1    0    0    0    0    0    0
## [9291,]      0    0    0    0    0    0    0    0    0    1
## [9292,]      0    0    0    0    0    1    0    0    0    0
## [9293,]      0    1    0    0    0    0    0    0    0    0
## [9294,]      0    0    0    1    0    0    0    0    0    0
## [9295,]      0    0    0    1    0    0    0    0    0    0
## [9296,]      0    0    0    0    0    0    1    0    0    0
## [9297,]      1    0    0    0    0    0    0    0    0    0
## [9298,]      1    0    0    0    0    0    0    0    0    0
## [9299,]      0    1    0    0    0    0    0    0    0    0
## [9300,]      0    1    0    0    0    0    0    0    0    0
## [9301,]      0    0    0    1    0    0    0    0    0    0
## [9302,]      0    0    1    0    0    0    0    0    0    0
## [9303,]      0    0    0    1    0    0    0    0    0    0
## [9304,]      0    0    0    1    0    0    0    0    0    0
## [9305,]      0    0    0    0    0    0    0    0    0    1
## [9306,]      0    0    0    0    0    0    1    0    0    0
## [9307,]      0    0    0    0    0    0    0    0    0    1
## [9308,]      0    0    0    0    0    0    0    1    0    0
## [9309,]      0    0    0    0    0    0    0    0    0    1
## [9310,]      0    0    0    0    0    0    0    0    1    0
## [9311,]      1    0    0    0    0    0    0    0    0    0
## [9312,]      0    0    0    0    0    0    0    0    0    1
## [9313,]      0    1    0    0    0    0    0    0    0    0
## [9314,]      1    0    0    0    0    0    0    0    0    0
## [9315,]      0    0    0    0    0    0    0    0    1    0
## [9316,]      0    1    0    0    0    0    0    0    0    0
## [9317,]      0    0    0    0    0    0    1    0    0    0
## [9318,]      0    0    1    0    0    0    0    0    0    0
## [9319,]      0    0    1    0    0    0    0    0    0    0
## [9320,]      0    0    0    1    0    0    0    0    0    0
## [9321,]      0    0    0    0    0    1    0    0    0    0
## [9322,]      0    0    0    0    1    0    0    0    0    0
## [9323,]      1    0    0    0    0    0    0    0    0    0
## [9324,]      0    0    0    0    0    1    0    0    0    0
```

```
## [9325,]    0    0    0    1    0    0    0    0    0    0
## [9326,]    0    0    0    0    0    0    1    0    0    0
## [9327,]    0    0    0    0    0    1    0    0    0    0
## [9328,]    0    0    0    0    0    0    0    1    0    0
## [9329,]    0    0    0    0    0    1    0    0    0    0
## [9330,]    1    0    0    0    0    0    0    0    0    0
## [9331,]    0    0    0    0    0    1    0    0    0    0
## [9332,]    0    1    0    0    0    0    0    0    0    0
## [9333,]    0    1    0    0    0    0    0    0    0    0
## [9334,]    0    0    1    0    0    0    0    0    0    0
## [9335,]    0    0    0    0    0    0    0    0    1    0
## [9336,]    0    0    0    1    0    0    0    0    0    0
## [9337,]    0    0    0    0    0    1    0    0    0    0
## [9338,]    0    0    0    0    1    0    0    0    0    0
## [9339,]    0    0    0    0    0    0    1    0    0    0
## [9340,]    0    0    0    0    0    1    0    0    0    0
## [9341,]    0    0    0    0    0    1    0    0    0    0
## [9342,]    0    0    0    0    0    0    1    0    0    0
## [9343,]    1    0    0    0    0    0    0    0    0    0
## [9344,]    0    0    0    0    0    0    0    1    0    0
## [9345,]    0    0    0    0    0    1    0    0    0    0
## [9346,]    0    0    0    0    0    0    0    0    1    0
## [9347,]    0    0    0    0    0    0    0    0    0    1
## [9348,]    0    0    0    0    0    0    0    0    0    1
## [9349,]    0    0    0    0    1    0    0    0    0    0
## [9350,]    0    0    0    0    0    0    0    0    1    0
## [9351,]    0    1    0    0    0    0    0    0    0    0
## [9352,]    0    0    0    0    0    0    0    1    0    0
## [9353,]    0    0    0    0    0    1    0    0    0    0
## [9354,]    0    0    0    0    1    0    0    0    0    0
## [9355,]    0    1    0    0    0    0    0    0    0    0
## [9356,]    0    0    0    1    0    0    0    0    0    0
## [9357,]    0    0    0    0    0    0    0    1    0    0
## [9358,]    0    0    0    0    0    0    0    0    0    1
## [9359,]    0    0    0    0    0    0    0    0    1    0
## [9360,]    0    0    0    0    0    0    0    0    1    0
## [9361,]    0    0    1    0    0    0    0    0    0    0
## [9362,]    0    0    0    0    0    0    0    0    1    0
## [9363,]    0    0    0    0    1    0    0    0    0    0
## [9364,]    0    0    0    1    0    0    0    0    0    0
## [9365,]    0    0    0    0    0    0    0    0    1    0
## [9366,]    0    1    0    0    0    0    0    0    0    0
## [9367,]    0    0    0    0    0    1    0    0    0    0
## [9368,]    0    0    0    0    0    1    0    0    0    0
## [9369,]    0    0    0    0    0    1    0    0    0    0
## [9370,]    0    0    0    0    0    0    0    0    1    0
## [9371,]    0    0    0    0    1    0    0    0    0    0
## [9372,]    0    0    1    0    0    0    0    0    0    0
## [9373,]    0    0    0    0    0    0    0    0    0    1
## [9374,]    0    0    0    0    0    0    0    1    0    0
## [9375,]    0    0    1    0    0    0    0    0    0    0
## [9376,]    0    0    0    0    1    0    0    0    0    0
## [9377,]    0    0    0    0    0    1    0    0    0    0
## [9378,]    0    0    1    0    0    0    0    0    0    0
```

```
## [9379,]    0    1    0    0    0    0    0    0    0    0
## [9380,]    0    0    0    0    0    0    1    0    0    0
## [9381,]    0    0    0    1    0    0    0    0    0    0
## [9382,]    0    0    0    0    0    1    0    0    0    0
## [9383,]    0    0    0    0    0    0    0    1    0    0
## [9384,]    0    0    1    0    0    0    0    0    0    0
## [9385,]    0    0    0    0    0    1    0    0    0    0
## [9386,]    0    0    0    0    1    0    0    0    0    0
## [9387,]    0    0    0    1    0    0    0    0    0    0
## [9388,]    0    0    0    0    0    1    0    0    0    0
## [9389,]    0    0    0    0    1    0    0    0    0    0
## [9390,]    0    0    0    0    0    0    1    0    0    0
## [9391,]    0    0    0    0    0    0    0    0    0    1
## [9392,]    0    0    0    0    1    0    0    0    0    0
## [9393,]    0    0    0    0    1    0    0    0    0    0
## [9394,]    0    1    0    0    0    0    0    0    0    0
## [9395,]    0    0    0    0    0    0    0    0    0    1
## [9396,]    0    0    0    0    0    0    0    1    0    0
## [9397,]    0    0    1    0    0    0    0    0    0    0
## [9398,]    0    0    0    0    0    1    0    0    0    0
## [9399,]    0    0    1    0    0    0    0    0    0    0
## [9400,]    0    1    0    0    0    0    0    0    0    0
## [9401,]    0    0    0    1    0    0    0    0    0    0
## [9402,]    0    0    0    1    0    0    0    0    0    0
## [9403,]    1    0    0    0    0    0    0    0    0    0
## [9404,]    0    0    0    1    0    0    0    0    0    0
## [9405,]    0    1    0    0    0    0    0    0    0    0
## [9406,]    0    0    0    0    0    0    1    0    0    0
## [9407,]    1    0    0    0    0    0    0    0    0    0
## [9408,]    0    0    0    0    0    0    0    0    0    1
## [9409,]    0    0    0    0    0    0    0    0    1    0
## [9410,]    0    0    0    0    0    0    1    0    0    0
## [9411,]    0    0    0    0    1    0    0    0    0    0
## [9412,]    0    0    0    1    0    0    0    0    0    0
## [9413,]    0    0    0    1    0    0    0    0    0    0
## [9414,]    0    0    0    1    0    0    0    0    0    0
## [9415,]    0    0    0    0    0    1    0    0    0    0
## [9416,]    0    1    0    0    0    0    0    0    0    0
## [9417,]    0    0    0    0    0    0    0    1    0    0
## [9418,]    0    0    0    0    0    0    1    0    0    0
## [9419,]    0    0    0    1    0    0    0    0    0    0
## [9420,]    0    0    0    0    0    1    0    0    0    0
## [9421,]    0    0    0    1    0    0    0    0    0    0
## [9422,]    0    0    0    0    0    0    1    0    0    0
## [9423,]    1    0    0    0    0    0    0    0    0    0
## [9424,]    0    1    0    0    0    0    0    0    0    0
## [9425,]    0    0    0    1    0    0    0    0    0    0
## [9426,]    0    0    0    0    0    0    0    0    0    1
## [9427,]    0    0    0    0    0    0    0    1    0    0
## [9428,]    0    0    0    1    0    0    0    0    0    0
## [9429,]    0    0    0    0    0    0    0    0    0    1
## [9430,]    0    0    0    0    0    0    0    1    0    0
## [9431,]    0    1    0    0    0    0    0    0    0    0
## [9432,]    0    0    0    0    1    0    0    0    0    0
```

```
## [9433,]    0    0    0    0    0    0    0    1    0    0
## [9434,]    0    0    0    0    0    0    0    1    0    0
## [9435,]    0    0    0    0    0    0    0    1    0    0
## [9436,]    1    0    0    0    0    0    0    0    0    0
## [9437,]    0    0    0    0    1    0    0    0    0    0
## [9438,]    0    0    0    0    0    0    0    0    0    1
## [9439,]    0    0    0    0    0    0    1    0    0    0
## [9440,]    1    0    0    0    0    0    0    0    0    0
## [9441,]    1    0    0    0    0    0    0    0    0    0
## [9442,]    1    0    0    0    0    0    0    0    0    0
## [9443,]    0    0    0    0    1    0    0    0    0    0
## [9444,]    0    0    0    1    0    0    0    0    0    0
## [9445,]    0    0    0    0    0    0    0    1    0    0
## [9446,]    0    0    0    0    0    0    0    1    0    0
## [9447,]    0    0    0    0    0    0    1    0    0    0
## [9448,]    0    0    0    0    0    0    0    0    0    1
## [9449,]    0    0    0    0    0    0    0    0    0    1
## [9450,]    0    0    1    0    0    0    0    0    0    0
## [9451,]    0    0    0    0    0    1    0    0    0    0
## [9452,]    1    0    0    0    0    0    0    0    0    0
## [9453,]    1    0    0    0    0    0    0    0    0    0
## [9454,]    0    1    0    0    0    0    0    0    0    0
## [9455,]    0    0    0    0    0    0    0    1    0    0
## [9456,]    1    0    0    0    0    0    0    0    0    0
## [9457,]    1    0    0    0    0    0    0    0    0    0
## [9458,]    0    1    0    0    0    0    0    0    0    0
## [9459,]    1    0    0    0    0    0    0    0    0    0
## [9460,]    1    0    0    0    0    0    0    0    0    0
## [9461,]    0    0    0    0    0    0    1    0    0    0
## [9462,]    0    0    0    0    1    0    0    0    0    0
## [9463,]    0    0    0    0    0    1    0    0    0    0
## [9464,]    1    0    0    0    0    0    0    0    0    0
## [9465,]    0    0    0    0    0    1    0    0    0    0
## [9466,]    0    0    0    0    1    0    0    0    0    0
## [9467,]    0    0    0    1    0    0    0    0    0    0
## [9468,]    0    0    0    0    0    0    0    1    0    0
## [9469,]    0    0    0    0    0    0    1    0    0    0
## [9470,]    0    0    0    0    0    0    0    0    0    1
## [9471,]    0    0    0    0    0    0    0    1    0    0
## [9472,]    0    0    1    0    0    0    0    0    0    0
## [9473,]    0    0    1    0    0    0    0    0    0    0
## [9474,]    1    0    0    0    0    0    0    0    0    0
## [9475,]    0    1    0    0    0    0    0    0    0    0
## [9476,]    0    0    0    0    0    0    1    0    0    0
## [9477,]    1    0    0    0    0    0    0    0    0    0
## [9478,]    0    0    1    0    0    0    0    0    0    0
## [9479,]    1    0    0    0    0    0    0    0    0    0
## [9480,]    0    0    1    0    0    0    0    0    0    0
## [9481,]    0    1    0    0    0    0    0    0    0    0
## [9482,]    0    0    0    0    0    0    0    0    0    1
## [9483,]    0    0    0    1    0    0    0    0    0    0
## [9484,]    0    0    0    0    0    0    0    0    0    1
## [9485,]    0    0    1    0    0    0    0    0    0    0
## [9486,]    1    0    0    0    0    0    0    0    0    0
```

```
## [9487,]    0    0    0    0    0    0    1    0    0    0
## [9488,]    0    1    0    0    0    0    0    0    0    0
## [9489,]    0    0    1    0    0    0    0    0    0    0
## [9490,]    0    0    1    0    0    0    0    0    0    0
## [9491,]    0    0    0    0    0    0    0    0    1    0
## [9492,]    0    0    0    1    0    0    0    0    0    0
## [9493,]    0    1    0    0    0    0    0    0    0    0
## [9494,]    0    0    0    0    1    0    0    0    0    0
## [9495,]    0    0    0    0    0    0    0    1    0    0
## [9496,]    0    0    0    0    0    1    0    0    0    0
## [9497,]    0    0    0    0    1    0    0    0    0    0
## [9498,]    0    0    0    0    0    0    1    0    0    0
## [9499,]    0    0    0    0    0    0    0    1    0    0
## [9500,]    0    0    0    0    0    0    0    1    0    0
## [9501,]    0    0    0    0    0    0    1    0    0    0
## [9502,]    0    0    0    0    0    0    0    0    1    0
## [9503,]    0    0    0    0    0    0    0    1    0    0
## [9504,]    0    0    0    0    0    0    0    0    0    1
## [9505,]    0    0    0    0    0    0    0    0    0    1
## [9506,]    1    0    0    0    0    0    0    0    0    0
## [9507,]    1    0    0    0    0    0    0    0    0    0
## [9508,]    0    1    0    0    0    0    0    0    0    0
## [9509,]    0    0    1    0    0    0    0    0    0    0
## [9510,]    0    0    1    0    0    0    0    0    0    0
## [9511,]    0    0    0    0    0    0    0    1    0    0
## [9512,]    0    0    0    1    0    0    0    0    0    0
## [9513,]    0    0    0    0    0    0    1    0    0    0
## [9514,]    0    0    0    0    1    0    0    0    0    0
## [9515,]    0    0    0    0    0    1    0    0    0    0
## [9516,]    0    0    0    0    0    1    0    0    0    0
## [9517,]    0    0    0    1    0    0    0    0    0    0
## [9518,]    0    0    0    0    0    0    1    0    0    0
## [9519,]    0    0    1    0    0    0    0    0    0    0
## [9520,]    0    0    0    0    0    0    0    1    0    0
## [9521,]    0    0    0    1    0    0    0    0    0    0
## [9522,]    0    0    0    0    0    0    0    0    1    0
## [9523,]    0    0    0    0    0    0    0    1    0    0
## [9524,]    1    0    0    0    0    0    0    0    0    0
## [9525,]    1    0    0    0    0    0    0    0    0    0
## [9526,]    0    1    0    0    0    0    0    0    0    0
## [9527,]    0    0    0    0    0    0    1    0    0    0
## [9528,]    0    0    1    0    0    0    0    0    0    0
## [9529,]    0    0    0    0    0    0    0    0    1    0
## [9530,]    0    0    0    1    0    0    0    0    0    0
## [9531,]    1    0    0    0    0    0    0    0    0    0
## [9532,]    0    0    0    0    0    1    0    0    0    0
## [9533,]    0    0    0    0    0    0    0    0    0    1
## [9534,]    0    0    0    0    0    0    1    0    0    0
## [9535,]    0    0    0    0    0    0    1    0    0    0
## [9536,]    0    0    0    0    0    0    0    1    0    0
## [9537,]    0    0    0    0    1    0    0    0    0    0
## [9538,]    0    0    0    0    0    0    0    0    1    0
## [9539,]    0    0    0    0    0    0    0    1    0    0
## [9540,]    0    0    0    0    0    1    0    0    0    0
```

```
## [9541,]    0    1    0    0    0    0    0    0    0    0
## [9542,]    0    0    0    0    1    0    0    0    0    0
## [9543,]    0    0    1    0    0    0    0    0    0    0
## [9544,]    0    0    0    0    0    0    0    0    1    0
## [9545,]    1    0    0    0    0    0    0    0    0    0
## [9546,]    0    0    0    0    0    0    0    1    0    0
## [9547,]    0    0    1    0    0    0    0    0    0    0
## [9548,]    0    0    0    0    1    0    0    0    0    0
## [9549,]    0    0    0    0    0    0    0    1    0    0
## [9550,]    0    0    0    0    0    0    0    1    0    0
## [9551,]    0    1    0    0    0    0    0    0    0    0
## [9552,]    0    0    0    0    0    0    0    1    0    0
## [9553,]    1    0    0    0    0    0    0    0    0    0
## [9554,]    0    0    0    1    0    0    0    0    0    0
## [9555,]    0    0    0    0    0    0    0    0    1    0
## [9556,]    0    0    0    0    0    0    0    0    0    1
## [9557,]    0    0    0    0    0    0    1    0    0    0
## [9558,]    0    0    0    0    0    0    0    0    1    0
## [9559,]    0    0    0    0    1    0    0    0    0    0
## [9560,]    0    0    0    0    0    0    0    0    1    0
## [9561,]    0    0    0    0    0    0    0    1    0    0
## [9562,]    0    0    0    1    0    0    0    0    0    0
## [9563,]    0    1    0    0    0    0    0    0    0    0
## [9564,]    0    1    0    0    0    0    0    0    0    0
## [9565,]    0    0    0    0    0    0    0    0    1    0
## [9566,]    0    0    0    0    0    1    0    0    0    0
## [9567,]    0    0    0    0    1    0    0    0    0    0
## [9568,]    0    0    0    0    0    0    0    0    1    0
## [9569,]    0    0    0    0    0    1    0    0    0    0
## [9570,]    0    0    1    0    0    0    0    0    0    0
## [9571,]    0    1    0    0    0    0    0    0    0    0
## [9572,]    0    0    0    0    0    0    0    1    0    0
## [9573,]    0    0    1    0    0    0    0    0    0    0
## [9574,]    0    0    0    0    1    0    0    0    0    0
## [9575,]    0    0    0    0    0    0    1    0    0    0
## [9576,]    0    0    1    0    0    0    0    0    0    0
## [9577,]    0    0    0    0    0    0    1    0    0    0
## [9578,]    0    0    0    0    0    0    1    0    0    0
## [9579,]    0    0    0    0    0    1    0    0    0    0
## [9580,]    0    1    0    0    0    0    0    0    0    0
## [9581,]    0    0    0    0    0    0    1    0    0    0
## [9582,]    0    0    0    0    0    1    0    0    0    0
## [9583,]    0    0    0    0    0    0    0    1    0    0
## [9584,]    0    0    1    0    0    0    0    0    0    0
## [9585,]    0    1    0    0    0    0    0    0    0    0
## [9586,]    0    0    0    0    1    0    0    0    0    0
## [9587,]    0    0    0    0    1    0    0    0    0    0
## [9588,]    0    0    0    0    0    1    0    0    0    0
## [9589,]    0    0    0    0    0    0    0    1    0    0
## [9590,]    0    0    0    0    0    1    0    0    0    0
## [9591,]    0    1    0    0    0    0    0    0    0    0
## [9592,]    0    0    0    0    0    0    0    0    1    0
## [9593,]    0    0    0    1    0    0    0    0    0    0
## [9594,]    0    0    0    0    0    0    1    0    0    0
```

```
## [9595,]    0    0    0    0    0    0    0    0    1    0
## [9596,]    0    0    0    0    1    0    0    0    0    0
## [9597,]    0    0    0    0    0    0    1    0    0    0
## [9598,]    0    0    0    0    1    0    0    0    0    0
## [9599,]    0    0    0    0    0    0    0    1    0    0
## [9600,]    0    1    0    0    0    0    0    0    0    0
## [9601,]    0    0    1    0    0    0    0    0    0    0
## [9602,]    0    0    0    0    0    0    0    0    1    0
## [9603,]    0    0    0    1    0    0    0    0    0    0
## [9604,]    0    0    0    0    0    0    0    1    0    0
## [9605,]    0    0    1    0    0    0    0    0    0    0
## [9606,]    0    0    0    0    0    1    0    0    0    0
## [9607,]    0    0    0    0    0    0    0    1    0    0
## [9608,]    0    0    0    0    0    1    0    0    0    0
## [9609,]    0    0    0    0    0    0    0    0    1    0
## [9610,]    0    1    0    0    0    0    0    0    0    0
## [9611,]    0    0    0    1    0    0    0    0    0    0
## [9612,]    0    0    0    0    0    0    0    0    1    0
## [9613,]    0    0    0    1    0    0    0    0    0    0
## [9614,]    0    0    0    0    0    0    0    0    0    1
## [9615,]    0    0    0    0    0    0    0    0    0    1
## [9616,]    0    1    0    0    0    0    0    0    0    0
## [9617,]    0    1    0    0    0    0    0    0    0    0
## [9618,]    0    0    0    1    0    0    0    0    0    0
## [9619,]    0    1    0    0    0    0    0    0    0    0
## [9620,]    0    0    0    0    0    0    1    0    0    0
## [9621,]    0    0    0    1    0    0    0    0    0    0
## [9622,]    0    0    0    1    0    0    0    0    0    0
## [9623,]    0    1    0    0    0    0    0    0    0    0
## [9624,]    0    0    0    1    0    0    0    0    0    0
## [9625,]    0    0    0    1    0    0    0    0    0    0
## [9626,]    0    0    1    0    0    0    0    0    0    0
## [9627,]    0    0    0    0    1    0    0    0    0    0
## [9628,]    0    0    1    0    0    0    0    0    0    0
## [9629,]    0    1    0    0    0    0    0    0    0    0
## [9630,]    0    0    0    0    0    0    1    0    0    0
## [9631,]    0    0    0    0    0    0    0    0    0    1
## [9632,]    0    0    0    0    0    0    0    0    0    1
## [9633,]    0    0    0    0    1    0    0    0    0    0
## [9634,]    0    0    0    0    0    0    0    0    0    1
## [9635,]    0    0    0    0    1    0    0    0    0    0
## [9636,]    0    0    0    0    0    0    1    0    0    0
## [9637,]    0    0    0    1    0    0    0    0    0    0
## [9638,]    0    0    0    1    0    0    0    0    0    0
## [9639,]    0    0    0    1    0    0    0    0    0    0
## [9640,]    0    0    0    1    0    0    0    0    0    0
## [9641,]    0    0    0    0    0    0    0    0    1    0
## [9642,]    0    0    0    0    0    0    0    0    1    0
## [9643,]    0    0    0    0    0    0    0    0    0    1
## [9644,]    0    1    0    0    0    0    0    0    0    0
## [9645,]    0    0    0    0    0    0    0    1    0    0
## [9646,]    0    0    0    0    0    0    1    0    0    0
## [9647,]    0    0    0    0    0    1    0    0    0    0
## [9648,]    0    0    0    0    0    1    0    0    0    0
```

```
## [9649,]      0    0    0    1    0    0    0    0    0    0
## [9650,]      0    0    0    0    0    0    1    0    0    0
## [9651,]      0    0    0    0    0    0    0    0    1    0
## [9652,]      0    0    0    0    0    0    0    0    1    0
## [9653,]      0    0    0    0    0    1    0    0    0    0
## [9654,]      0    1    0    0    0    0    0    0    0    0
## [9655,]      0    0    0    0    0    0    0    0    0    1
## [9656,]      0    0    0    0    0    0    0    0    0    1
## [9657,]      0    0    0    0    0    0    0    1    0    0
## [9658,]      0    0    0    0    0    0    0    1    0    0
## [9659,]      0    0    1    0    0    0    0    0    0    0
## [9660,]      0    0    0    0    0    0    1    0    0    0
## [9661,]      0    0    0    0    0    0    0    1    0    0
## [9662,]      0    0    0    0    0    0    0    0    1    0
## [9663,]      0    0    0    0    0    0    1    0    0    0
## [9664,]      0    0    0    1    0    0    0    0    0    0
## [9665,]      0    0    0    1    0    0    0    0    0    0
## [9666,]      0    0    0    0    0    0    0    1    0    0
## [9667,]      1    0    0    0    0    0    0    0    0    0
## [9668,]      0    0    0    0    1    0    0    0    0    0
## [9669,]      0    0    1    0    0    0    0    0    0    0
## [9670,]      0    0    0    0    0    0    0    1    0    0
## [9671,]      0    0    0    1    0    0    0    0    0    0
## [9672,]      1    0    0    0    0    0    0    0    0    0
## [9673,]      0    0    1    0    0    0    0    0    0    0
## [9674,]      0    0    0    0    0    0    0    0    0    1
## [9675,]      0    1    0    0    0    0    0    0    0    0
## [9676,]      1    0    0    0    0    0    0    0    0    0
## [9677,]      0    0    0    0    0    0    0    1    0    0
## [9678,]      1    0    0    0    0    0    0    0    0    0
## [9679,]      0    1    0    0    0    0    0    0    0    0
## [9680,]      0    0    0    1    0    0    0    0    0    0
## [9681,]      0    0    0    1    0    0    0    0    0    0
## [9682,]      0    0    0    0    0    0    0    1    0    0
## [9683,]      0    0    1    0    0    0    0    0    0    0
## [9684,]      0    0    0    0    0    0    0    0    0    1
## [9685,]      0    0    0    0    0    1    0    0    0    0
## [9686,]      0    0    0    1    0    0    0    0    0    0
## [9687,]      0    0    0    0    0    0    0    0    1    0
## [9688,]      1    0    0    0    0    0    0    0    0    0
## [9689,]      1    0    0    0    0    0    0    0    0    0
## [9690,]      0    0    1    0    0    0    0    0    0    0
## [9691,]      0    0    0    0    0    1    0    0    0    0
## [9692,]      1    0    0    0    0    0    0    0    0    0
## [9693,]      0    0    0    0    0    0    1    0    0    0
## [9694,]      0    1    0    0    0    0    0    0    0    0
## [9695,]      0    0    0    0    0    0    0    0    1    0
## [9696,]      1    0    0    0    0    0    0    0    0    0
## [9697,]      0    0    0    1    0    0    0    0    0    0
## [9698,]      0    1    0    0    0    0    0    0    0    0
## [9699,]      1    0    0    0    0    0    0    0    0    0
## [9700,]      1    0    0    0    0    0    0    0    0    0
## [9701,]      0    0    0    0    0    0    1    0    0    0
## [9702,]      0    0    0    0    1    0    0    0    0    0
```

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```
## [9703,]    0    0    0    0    0    0    1    0    0    0
## [9704,]    1    0    0    0    0    0    0    0    0    0
## [9705,]    0    0    0    0    1    0    0    0    0    0
## [9706,]    0    1    0    0    0    0    0    0    0    0
## [9707,]    0    0    0    1    0    0    0    0    0    0
## [9708,]    1    0    0    0    0    0    0    0    0    0
## [9709,]    0    0    0    0    0    0    0    0    0    1
## [9710,]    0    0    0    0    1    0    0    0    0    0
## [9711,]    1    0    0    0    0    0    0    0    0    0
## [9712,]    0    0    0    0    0    0    0    1    0    0
## [9713,]    0    0    1    0    0    0    0    0    0    0
## [9714,]    0    0    0    0    0    0    0    0    0    1
## [9715,]    0    0    0    0    1    0    0    0    0    0
## [9716,]    0    0    1    0    0    0    0    0    0    0
## [9717,]    0    0    0    0    0    0    0    1    0    0
## [9718,]    1    0    0    0    0    0    0    0    0    0
## [9719,]    0    0    0    0    1    0    0    0    0    0
## [9720,]    0    0    0    0    0    0    1    0    0    0
## [9721,]    1    0    0    0    0    0    0    0    0    0
## [9722,]    0    0    1    0    0    0    0    0    0    0
## [9723,]    0    0    1    0    0    0    0    0    0    0
## [9724,]    0    0    0    0    0    0    1    0    0    0
## [9725,]    0    0    0    0    0    0    0    1    0    0
## [9726,]    0    0    1    0    0    0    0    0    0    0
## [9727,]    0    0    0    0    0    0    0    0    1    0
## [9728,]    0    0    1    0    0    0    0    0    0    0
## [9729,]    0    0    0    0    0    0    0    0    0    1
## [9730,]    0    0    0    0    0    0    0    0    0    1
## [9731,]    0    0    0    1    0    0    0    0    0    0
## [9732,]    0    0    0    0    0    0    0    0    0    1
## [9733,]    0    0    0    0    0    0    0    0    1    0
## [9734,]    1    0    0    0    0    0    0    0    0    0
## [9735,]    0    1    0    0    0    0    0    0    0    0
## [9736,]    0    1    0    0    0    0    0    0    0    0
## [9737,]    0    0    1    0    0    0    0    0    0    0
## [9738,]    0    0    1    0    0    0    0    0    0    0
## [9739,]    0    0    0    0    0    1    0    0    0    0
## [9740,]    0    0    0    1    0    0    0    0    0    0
## [9741,]    0    0    0    0    0    0    0    1    0    0
## [9742,]    0    0    0    0    1    0    0    0    0    0
## [9743,]    1    0    0    0    0    0    0    0    0    0
## [9744,]    0    0    0    0    0    1    0    0    0    0
## [9745,]    1    0    0    0    0    0    0    0    0    0
## [9746,]    0    0    0    0    0    0    1    0    0    0
## [9747,]    0    0    0    0    1    0    0    0    0    0
## [9748,]    0    0    0    0    0    0    0    1    0    0
## [9749,]    0    0    1    0    0    0    0    0    0    0
## [9750,]    0    0    0    0    0    0    0    0    1    0
## [9751,]    1    0    0    0    0    0    0    0    0    0
## [9752,]    0    0    0    0    0    0    0    0    0    1
## [9753,]    0    0    0    0    0    0    0    0    0    1
## [9754,]    1    0    0    0    0    0    0    0    0    0
## [9755,]    0    0    0    0    0    0    0    0    0    1
## [9756,]    0    1    0    0    0    0    0    0    0    0
```

```
## [9757,]    0    0    1    0    0    0    0    0    0    0
## [9758,]    0    0    1    0    0    0    0    0    0    0
## [9759,]    0    0    0    0    0    0    0    0    0    1
## [9760,]    0    0    0    1    0    0    0    0    0    0
## [9761,]    0    0    0    0    0    0    1    0    0    0
## [9762,]    0    0    0    0    1    0    0    0    0    0
## [9763,]    0    0    0    0    0    0    0    0    1    0
## [9764,]    0    0    0    0    0    1    0    0    0    0
## [9765,]    0    0    0    0    0    0    0    0    1    0
## [9766,]    0    0    0    0    0    0    1    0    0    0
## [9767,]    0    0    0    1    0    0    0    0    0    0
## [9768,]    0    0    0    0    0    0    0    1    0    0
## [9769,]    0    0    0    0    0    0    0    1    0    0
## [9770,]    0    0    0    0    0    0    0    0    1    0
## [9771,]    0    0    0    0    0    1    0    0    0    0
## [9772,]    0    0    0    0    0    0    0    0    0    1
## [9773,]    0    0    1    0    0    0    0    0    0    0
## [9774,]    1    0    0    0    0    0    0    0    0    0
## [9775,]    0    0    0    0    0    0    0    1    0    0
## [9776,]    0    1    0    0    0    0    0    0    0    0
## [9777,]    0    0    1    0    0    0    0    0    0    0
## [9778,]    0    0    1    0    0    0    0    0    0    0
## [9779,]    0    0    0    1    0    0    0    0    0    0
## [9780,]    0    0    0    1    0    0    0    0    0    0
## [9781,]    0    0    1    0    0    0    0    0    0    0
## [9782,]    0    0    0    0    1    0    0    0    0    0
## [9783,]    0    0    0    0    0    0    0    0    1    0
## [9784,]    0    0    0    0    0    1    0    0    0    0
## [9785,]    0    0    0    0    0    0    0    0    0    1
## [9786,]    0    0    0    0    0    0    1    0    0    0
## [9787,]    0    0    0    1    0    0    0    0    0    0
## [9788,]    0    0    0    0    0    0    0    1    0    0
## [9789,]    0    0    0    0    0    0    0    1    0    0
## [9790,]    0    0    0    0    0    0    0    0    1    0
## [9791,]    1    0    0    0    0    0    0    0    0    0
## [9792,]    0    0    0    0    0    0    0    0    0    1
## [9793,]    0    0    0    0    0    0    0    0    1    0
## [9794,]    0    0    0    0    0    0    0    1    0    0
## [9795,]    0    0    0    0    0    0    0    0    1    0
## [9796,]    0    0    0    0    1    0    0    0    0    0
## [9797,]    0    1    0    0    0    0    0    0    0    0
## [9798,]    0    0    0    1    0    0    0    0    0    0
## [9799,]    0    0    0    0    0    0    1    0    0    0
## [9800,]    0    0    0    0    0    0    0    0    1    0
## [9801,]    0    0    0    0    0    1    0    0    0    0
## [9802,]    0    0    0    0    0    1    0    0    0    0
## [9803,]    0    0    0    0    0    0    1    0    0    0
## [9804,]    0    1    0    0    0    0    0    0    0    0
## [9805,]    0    1    0    0    0    0    0    0    0    0
## [9806,]    0    0    0    0    0    0    0    0    1    0
## [9807,]    1    0    0    0    0    0    0    0    0    0
## [9808,]    0    0    0    0    0    1    0    0    0    0
## [9809,]    0    0    0    0    0    0    1    0    0    0
## [9810,]    0    0    1    0    0    0    0    0    0    0
```

```
## [9811,]    0    0    0    0    0    0    0    0    0    1
## [9812,]    0    0    0    0    0    0    0    0    1    0
## [9813,]    0    0    0    1    0    0    0    0    0    0
## [9814,]    0    0    0    0    0    0    1    0    0    0
## [9815,]    0    0    0    0    0    1    0    0    0    0
## [9816,]    0    1    0    0    0    0    0    0    0    0
## [9817,]    0    0    0    0    0    0    1    0    0    0
## [9818,]    0    0    0    0    0    0    0    0    0    1
## [9819,]    0    0    0    0    0    0    1    0    0    0
## [9820,]    0    0    1    0    0    0    0    0    0    0
## [9821,]    1    0    0    0    0    0    0    0    0    0
## [9822,]    0    0    0    0    1    0    0    0    0    0
## [9823,]    1    0    0    0    0    0    0    0    0    0
## [9824,]    1    0    0    0    0    0    0    0    0    0
## [9825,]    0    0    0    0    0    1    0    0    0    0
## [9826,]    0    0    0    0    0    0    0    0    0    1
## [9827,]    0    0    1    0    0    0    0    0    0    0
## [9828,]    0    0    0    0    0    0    0    0    0    1
## [9829,]    0    0    0    0    0    0    1    0    0    0
## [9830,]    0    0    0    1    0    0    0    0    0    0
## [9831,]    0    0    1    0    0    0    0    0    0    0
## [9832,]    0    0    0    0    0    0    0    1    0    0
## [9833,]    0    0    0    0    0    0    0    0    1    0
## [9834,]    0    0    0    0    0    0    0    1    0    0
## [9835,]    1    0    0    0    0    0    0    0    0    0
## [9836,]    0    0    0    0    0    0    0    0    0    1
## [9837,]    0    0    1    0    0    0    0    0    0    0
## [9838,]    0    1    0    0    0    0    0    0    0    0
## [9839,]    0    0    0    0    0    0    0    0    0    1
## [9840,]    0    0    0    0    0    0    0    0    1    0
## [9841,]    1    0    0    0    0    0    0    0    0    0
## [9842,]    0    0    1    0    0    0    0    0    0    0
## [9843,]    0    1    0    0    0    0    0    0    0    0
## [9844,]    0    0    0    0    0    0    0    1    0    0
## [9845,]    0    0    0    0    0    0    0    0    1    0
## [9846,]    0    0    0    0    0    1    0    0    0    0
## [9847,]    0    0    0    0    0    0    0    0    0    1
## [9848,]    0    0    0    0    0    0    0    0    1    0
## [9849,]    0    0    0    1    0    0    0    0    0    0
## [9850,]    0    0    0    0    0    1    0    0    0    0
## [9851,]    0    0    1    0    0    0    0    0    0    0
## [9852,]    0    0    0    1    0    0    0    0    0    0
## [9853,]    0    0    0    0    0    0    0    0    1    0
## [9854,]    0    0    1    0    0    0    0    0    0    0
## [9855,]    0    0    0    0    0    0    0    1    0    0
## [9856,]    0    0    1    0    0    0    0    0    0    0
## [9857,]    0    1    0    0    0    0    0    0    0    0
## [9858,]    1    0    0    0    0    0    0    0    0    0
## [9859,]    0    0    0    0    0    1    0    0    0    0
## [9860,]    0    0    0    0    0    1    0    0    0    0
## [9861,]    0    0    0    0    0    0    1    0    0    0
## [9862,]    0    0    0    0    0    0    0    0    1    0
## [9863,]    0    0    1    0    0    0    0    0    0    0
## [9864,]    0    0    0    0    0    0    1    0    0    0
```

```
## [9865,]     0    0    0    1    0    0    0    0    0    0
## [9866,]     1    0    0    0    0    0    0    0    0    0
## [9867,]     0    0    0    0    0    0    0    0    1    0
## [9868,]     0    0    0    0    1    0    0    0    0    0
## [9869,]     0    0    0    1    0    0    0    0    0    0
## [9870,]     1    0    0    0    0    0    0    0    0    0
## [9871,]     0    0    0    0    0    0    0    0    0    1
## [9872,]     0    0    0    1    0    0    0    0    0    0
## [9873,]     0    0    0    0    0    0    1    0    0    0
## [9874,]     0    0    0    0    0    0    0    0    1    0
## [9875,]     1    0    0    0    0    0    0    0    0    0
## [9876,]     0    1    0    0    0    0    0    0    0    0
## [9877,]     0    0    0    0    0    0    0    0    0    1
## [9878,]     1    0    0    0    0    0    0    0    0    0
## [9879,]     0    0    0    0    0    0    0    1    0    0
## [9880,]     0    0    0    1    0    0    0    0    0    0
## [9881,]     0    0    0    0    1    0    0    0    0    0
## [9882,]     1    0    0    0    0    0    0    0    0    0
## [9883,]     0    0    0    0    0    0    0    1    0    0
## [9884,]     0    0    0    0    1    0    0    0    0    0
## [9885,]     0    1    0    0    0    0    0    0    0    0
## [9886,]     0    0    0    0    0    0    0    1    0    0
## [9887,]     0    0    0    0    0    0    0    1    0    0
## [9888,]     0    0    0    0    1    0    0    0    0    0
## [9889,]     0    0    0    0    0    0    0    1    0    0
## [9890,]     0    0    0    0    0    0    0    0    0    1
## [9891,]     1    0    0    0    0    0    0    0    0    0
## [9892,]     0    0    1    0    0    0    0    0    0    0
## [9893,]     0    0    0    0    0    0    1    0    0    0
## [9894,]     0    0    0    0    0    0    0    0    0    1
## [9895,]     0    0    1    0    0    0    0    0    0    0
## [9896,]     0    1    0    0    0    0    0    0    0    0
## [9897,]     0    0    0    0    0    0    0    0    0    1
## [9898,]     0    0    1    0    0    0    0    0    0    0
## [9899,]     0    0    0    0    0    1    0    0    0    0
## [9900,]     0    0    0    0    0    1    0    0    0    0
## [9901,]     0    0    0    0    0    0    0    0    1    0
## [9902,]     0    0    0    0    0    0    0    1    0    0
## [9903,]     0    1    0    0    0    0    0    0    0    0
## [9904,]     0    1    0    0    0    0    0    0    0    0
## [9905,]     0    0    0    1    0    0    0    0    0    0
## [9906,]     0    0    0    0    0    0    0    1    0    0
## [9907,]     0    1    0    0    0    0    0    0    0    0
## [9908,]     0    1    0    0    0    0    0    0    0    0
## [9909,]     0    0    0    0    0    0    0    1    0    0
## [9910,]     0    0    0    0    0    0    1    0    0    0
## [9911,]     0    1    0    0    0    0    0    0    0    0
## [9912,]     0    0    0    0    0    0    0    1    0    0
## [9913,]     0    0    1    0    0    0    0    0    0    0
## [9914,]     0    0    0    1    0    0    0    0    0    0
## [9915,]     1    0    0    0    0    0    0    0    0    0
## [9916,]     0    0    0    1    0    0    0    0    0    0
## [9917,]     0    0    0    1    0    0    0    0    0    0
## [9918,]     0    0    0    0    0    0    1    0    0    0
```

```
##  [9919,]     0     0     0     0     0     0     0     0     1     0
##  [9920,]     0     0     0     0     0     1     0     0     0     0
##  [9921,]     0     0     0     0     1     0     0     0     0     0
##  [9922,]     0     0     0     0     0     0     1     0     0     0
##  [9923,]     1     0     0     0     0     0     0     0     0     0
##  [9924,]     0     0     1     0     0     0     0     0     0     0
##  [9925,]     0     0     0     0     0     0     0     0     1     0
##  [9926,]     0     0     0     0     0     0     0     0     1     0
##  [9927,]     0     0     0     0     0     0     1     0     0     0
##  [9928,]     0     0     0     0     0     0     0     1     0     0
##  [9929,]     0     0     0     0     0     0     1     0     0     0
##  [9930,]     0     0     0     0     0     0     1     0     0     0
##  [9931,]     0     1     0     0     0     0     0     0     0     0
##  [9932,]     0     0     0     0     1     0     0     0     0     0
##  [9933,]     0     0     0     1     0     0     0     0     0     0
##  [9934,]     0     0     0     0     0     0     0     0     0     1
##  [9935,]     1     0     0     0     0     0     0     0     0     0
##  [9936,]     0     0     0     0     0     0     0     0     1     0
##  [9937,]     0     0     0     0     0     0     0     0     1     0
##  [9938,]     0     0     0     0     0     0     0     0     1     0
##  [9939,]     0     0     0     0     0     0     0     0     0     1
##  [9940,]     0     0     1     0     0     0     0     0     0     0
##  [9941,]     0     0     0     0     1     0     0     0     0     0
##  [9942,]     0     0     0     0     0     0     0     0     0     1
##  [9943,]     0     1     0     0     0     0     0     0     0     0
##  [9944,]     0     0     0     0     0     0     1     0     0     0
##  [9945,]     0     0     0     0     0     0     0     0     1     0
##  [9946,]     0     0     0     0     0     1     0     0     0     0
##  [9947,]     0     0     0     0     0     0     1     0     0     0
##  [9948,]     0     0     0     0     0     1     0     0     0     0
##  [9949,]     0     0     0     0     0     0     0     0     1     0
##  [9950,]     0     0     0     0     0     0     0     0     0     1
##  [9951,]     0     0     0     0     0     0     0     0     0     1
##  [9952,]     0     0     0     0     0     1     0     0     0     0
##  [9953,]     0     0     0     0     0     0     0     0     1     0
##  [9954,]     0     0     0     1     0     0     0     0     0     0
##  [9955,]     0     0     0     0     0     0     0     1     0     0
##  [9956,]     0     0     0     0     0     0     0     1     0     0
##  [9957,]     0     0     0     0     0     0     0     0     1     0
##  [9958,]     0     0     0     0     1     0     0     0     0     0
##  [9959,]     0     0     0     0     0     1     0     0     0     0
##  [9960,]     0     0     0     1     0     0     0     0     0     0
##  [9961,]     0     1     0     0     0     0     0     0     0     0
##  [9962,]     0     0     0     0     0     0     1     0     0     0
##  [9963,]     0     0     1     0     0     0     0     0     0     0
##  [9964,]     1     0     0     0     0     0     0     0     0     0
##  [9965,]     0     0     1     0     0     0     0     0     0     0
##  [9966,]     1     0     0     0     0     0     0     0     0     0
##  [9967,]     1     0     0     0     0     0     0     0     0     0
##  [9968,]     0     0     0     0     0     0     1     0     0     0
##  [9969,]     0     0     0     0     0     0     0     0     0     1
##  [9970,]     0     0     0     0     0     0     0     0     0     1
##  [9971,]     0     0     0     0     0     0     0     0     1     0
##  [9972,]     1     0     0     0     0     0     0     0     0     0
```

```
## [9973,]    0    0    1    0    0    0    0    0    0    0
## [9974,]    0    1    0    0    0    0    0    0    0    0
## [9975,]    0    0    0    1    0    0    0    0    0    0
## [9976,]    0    1    0    0    0    0    0    0    0    0
## [9977,]    0    0    0    0    1    0    0    0    0    0
## [9978,]    0    0    0    1    0    0    0    0    0    0
## [9979,]    1    0    0    0    0    0    0    0    0    0
## [9980,]    0    0    1    0    0    0    0    0    0    0
## [9981,]    0    0    0    0    1    0    0    0    0    0
## [9982,]    0    1    0    0    0    0    0    0    0    0
## [9983,]    0    0    0    0    0    0    0    0    1    0
## [9984,]    1    0    0    0    0    0    0    0    0    0
## [9985,]    0    0    0    0    1    0    0    0    0    0
## [9986,]    1    0    0    0    0    0    0    0    0    0
## [9987,]    1    0    0    0    0    0    0    0    0    0
## [9988,]    0    1    0    0    0    0    0    0    0    0
## [9989,]    0    0    0    0    0    0    0    1    0    0
## [9990,]    0    0    1    0    0    0    0    0    0    0
## [9991,]    0    0    0    0    0    0    0    1    0    0
## [9992,]    0    0    0    1    0    0    0    0    0    0
## [9993,]    0    0    0    0    0    0    0    1    0    0
## [9994,]    0    0    0    0    1    0    0    0    0    0
## [9995,]    1    0    0    0    0    0    0    0    0    0
## [9996,]    0    0    0    0    0    1    0    0    0    0
## [9997,]    0    0    0    0    0    0    0    0    1    0
## [9998,]    0    0    0    0    0    0    1    0    0    0
## [9999,]    0    0    0    0    0    0    0    0    0    1
## [ reached getOption("max.print") -- omitted 50001 rows ]
```

```r
y_test <- to_categorical(y_test, 10)
```

Question 1

Tyring different network specifics

Part A:

We can calculate the model specified in this question:

```
## Define the model:
model_1a <- keras_model_sequential()
model_1a %>%
  layer_dense(units = 128, activation = 'relu', input_shape = c(784)) %>%   # Shrunken hidden layer
  layer_dropout(rate = 0.4) %>%
  layer_dense(units = 64, activation = 'relu')  %>%      # Shrunken hidden layer
  layer_dropout(rate = 0.3) %>%
  layer_dense(units = 10, activation = 'softmax')

# Inspect the defined model:
# summary(model_1a)

# Compile the model with an appropriate Loss Function and Optimizer:
model_1a %>% compile(
  loss = 'categorical_crossentropy',
  optimizer = optimizer_rmsprop(),
  metrics = c('accuracy')
)

## Training and Fitting the model:
history_1a <- model_1a %>% fit(
  x_train, y_train,
  epochs = 30, batch_size = 128,
  validation_split = 0.2,
  verbose = 0
)

augmented_result <- model_1a %>% evaluate(x_test, y_test)
```

For comparison's sake we can run the base model we want to compare against:

```
## Define the model:
model_base <- keras_model_sequential()
model_base %>%
  layer_dense(units = 256, activation = 'relu', input_shape = c(784)) %>%
  layer_dropout(rate = 0.4) %>%
  layer_dense(units = 128, activation = 'relu') %>%
  layer_dropout(rate = 0.3) %>%
  layer_dense(units = 10, activation = 'softmax')

# Inspect the defined model:
# summary(model_base)

# Compile the model with an appropriate Loss Function and Optimizer:
model_base %>% compile(
  loss = 'categorical_crossentropy',
  optimizer = optimizer_rmsprop(),
  metrics = c('accuracy')
```

```
)

## Training and Fitting the model:
history_base <- model_base %>% fit(
  x_train, y_train,
  epochs = 30, batch_size = 128,
  validation_split = 0.2,
  verbose = 0
)

base_result <- model_base %>% evaluate(x_test, y_test)
```

Comparin the results we find that:

```
# Base Plot:

plot_base <- plot(history_base) +
  ggtitle("Base History Plot:")


# Reduced hidden layer nodes plot:

plot_1a <- plot(history_1a) +
  ggtitle("Augmented History Plot:")


# Plot them together:

ggarrange(plot_base,
          plot_1a,
          ncol = 1, nrow = 2)
```
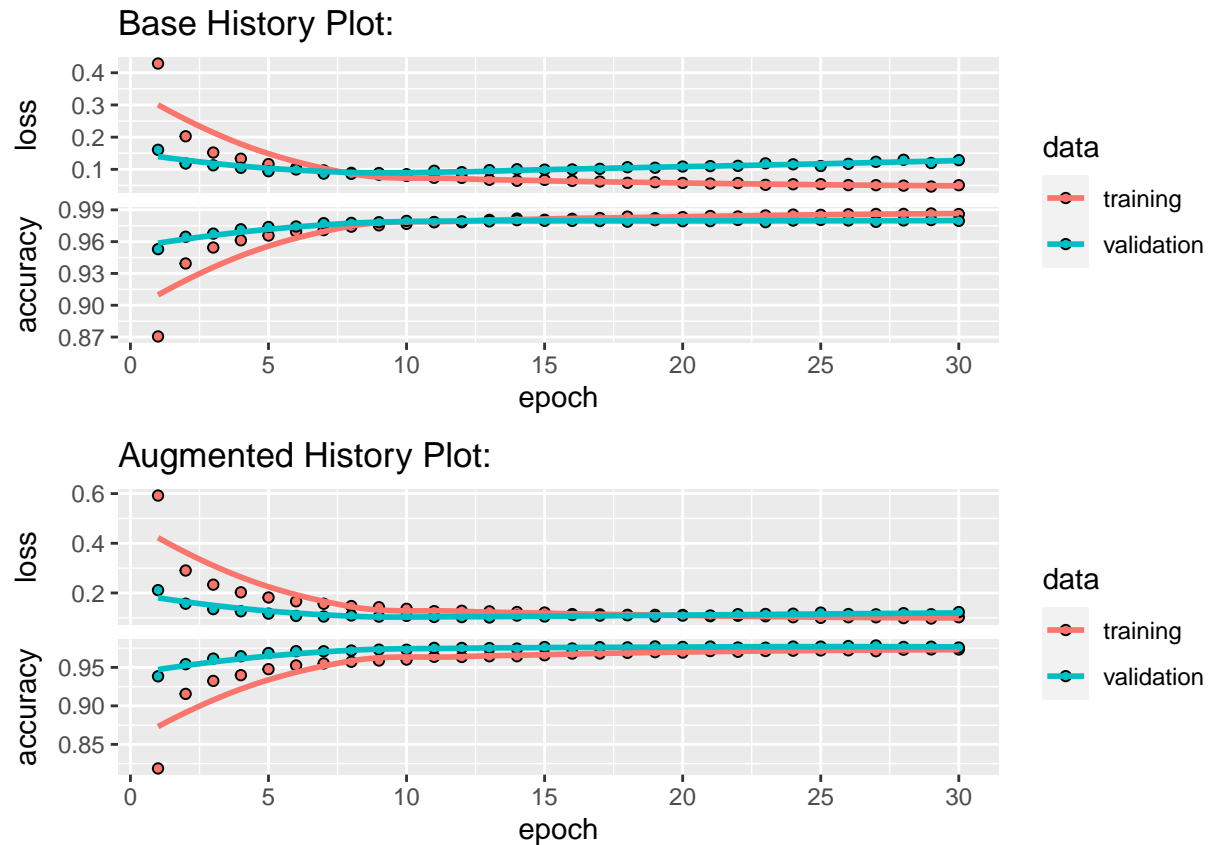
Base History Plot:

Augmented History Plot:

We note that:

```
## [1] "The base model has a validation loss value of:  0.107002124190331"
```

```
## [1] "and it also has an accuracy of: 0.981199979782104"
```

```
## [1] "The augmented model has a validation loss value of:  0.115651845932007"
```

```
## [1] "and it also has an accuracy of: 0.977699995040894"
```

We observe that the results are similar between the two, though the base model performs slightly better.

Part B:

We can run the model as such:

```r
## Define the model:
model_1b <- keras_model_sequential()
model_1b %>%
  layer_dense(units = 256, activation = 'relu', input_shape = c(784)) %>%
  layer_activity_regularization(l1 = 0.01) %>%      # L1 Regularisation
  layer_dense(units = 128, activation = 'relu') %>%
  layer_activity_regularization(l1 = 0.01) %>%      # L1 Regularisation
  layer_dense(units = 10, activation = 'softmax')

# Inspect the defined model:
# summary(model_1b)

# Compile the model with an appropriate Loss Function and Optimizer:
model_1b %>% compile(
```

```
    loss = 'categorical_crossentropy',
    optimizer = optimizer_rmsprop(),
    metrics = c('accuracy')
)

## Training and Fitting the model:
history_1b <- model_1b %>% fit(
  x_train, y_train,
  epochs = 30, batch_size = 128,
  validation_split = 0.2,
  verbose = 0
)

regularised_result <- model_1b %>% evaluate(x_test, y_test)
```

And we can plot the results:

```
# L1 Regularised plot:

plot_1b <- plot(history_1b) +
  ggtitle("L1 Regularised History Plot:")


# Plot them together:

ggarrange(plot_base,
          plot_1b,
          ncol = 1, nrow = 2)
```
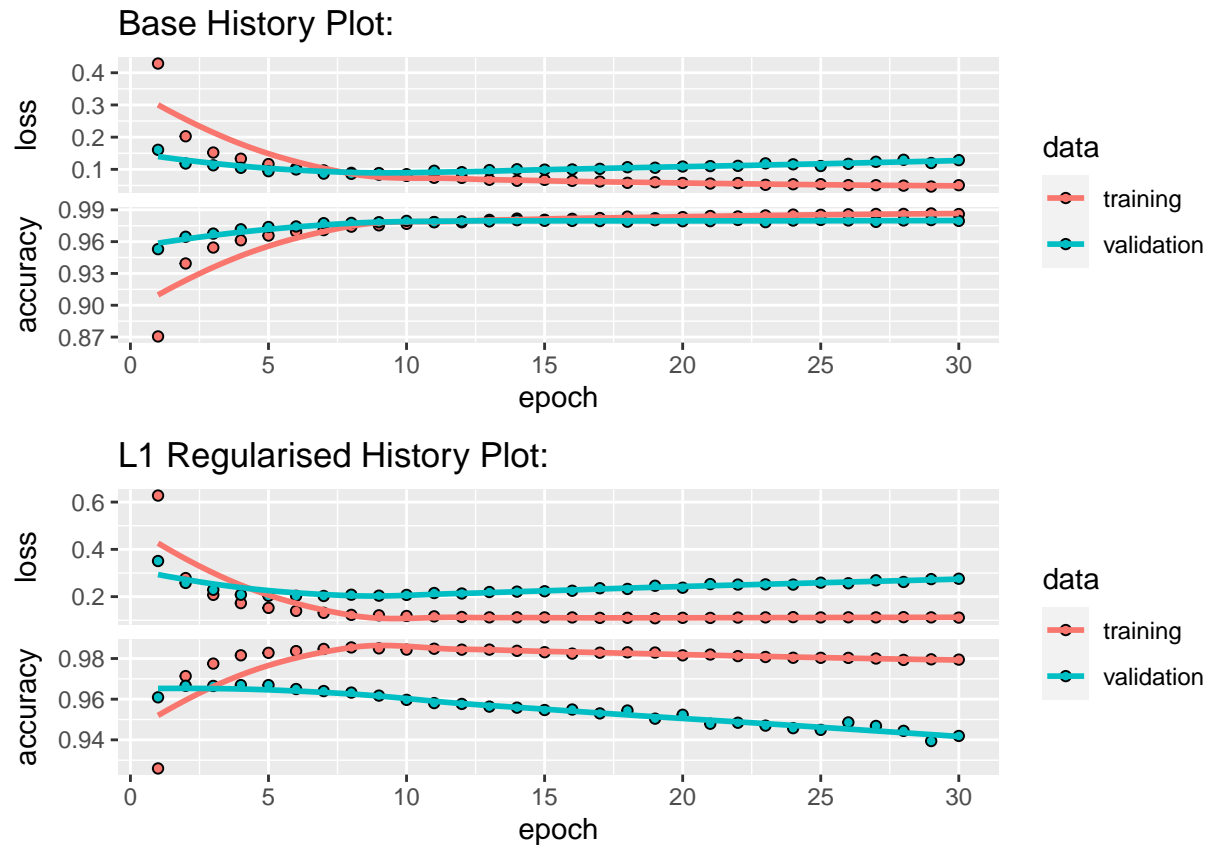
Base History Plot:

L1 Regularised History Plot:

We note that:

```
## [1] "The base model has a validation loss value of:  0.107002124190331"
```

```
## [1] "and it also has an accuracy of: 0.981199979782104"
```

```
## [1] "The L1 Regularised model has a validation loss value of:  0.279892027378082"
```

```
## [1] "and it also has an accuracy of: 0.944400012493134"
```

Evidently, the L1 regularised model with dropout layers removed performs less well than the base model, having a higher LOSS value and lower Accuracy.

Part C:

```r
## Define the model:
model_1c <- keras_model_sequential()
model_1c %>%
  layer_dense(units = 256, activation = 'relu', input_shape = c(784)) %>%
  layer_dense(units = 128, activation = 'relu') %>%
  layer_dense(units = 10, activation = 'softmax')

# Inspect the defined model:
# summary(model_1c)

# Compile the model with an appropriate Loss Function and Optimizer:
model_1c %>% compile(
  loss = 'categorical_crossentropy',
  optimizer = optimizer_rmsprop(),
```

```
    metrics = c('accuracy')
)

## Training and Fitting the model:
history_1c <- model_1c %>% fit(
  x_train, y_train,
  epochs = 30, batch_size = 128,
  validation_split = 0.2,
  # Early stopping clause:
  callbacks = list(callback_early_stopping(monitor = "val_loss"))
)

early_cutoff_result <- model_1c %>% evaluate(x_test, y_test)
```

And we can plot the results:

```
# Make a data frame for early stop plot:

df_1c_hist <- as.data.frame(history_1c$metrics)
pad <- history_1c$params$epochs - nrow(df_1c_hist)
pad_data <- list()
for (metric in history_1c$params$metrics)
  pad_data[[metric]] <- rep_len(NA, pad)
df_1c_hist <- rbind(df_1c_hist, pad_data)
df_1c_hist$index <- 1:nrow(df_1c_hist)


# Plot the regularised data

tl <- ggplot(aes(x = index, y = loss), data = df_1c_hist) +
  geom_point(color = "red") + geom_line(color = "red", linetype="dotted")
vl <- ggplot(aes(x = index, y = val_loss), data = df_1c_hist) +
  geom_point(color = "blue") + geom_line(color = "blue")
ta <- ggplot(aes(x = index, y = accuracy), data = df_1c_hist) +
  geom_point(color = "red") + geom_line(color = "red", linetype="dotted")
va <- ggplot(aes(x = index, y = val_accuracy), data = df_1c_hist) +
  geom_point(color = "blue") + geom_line(color = "blue")

plot_1c <- ggarrange(tl,
                     vl,
                     ta,
                     va,
                     ncol = 2, nrow = 2)

# Plot them together:

ggarrange(plot_base,
          plot_1c,
          ncol = 1, nrow = 2)
```
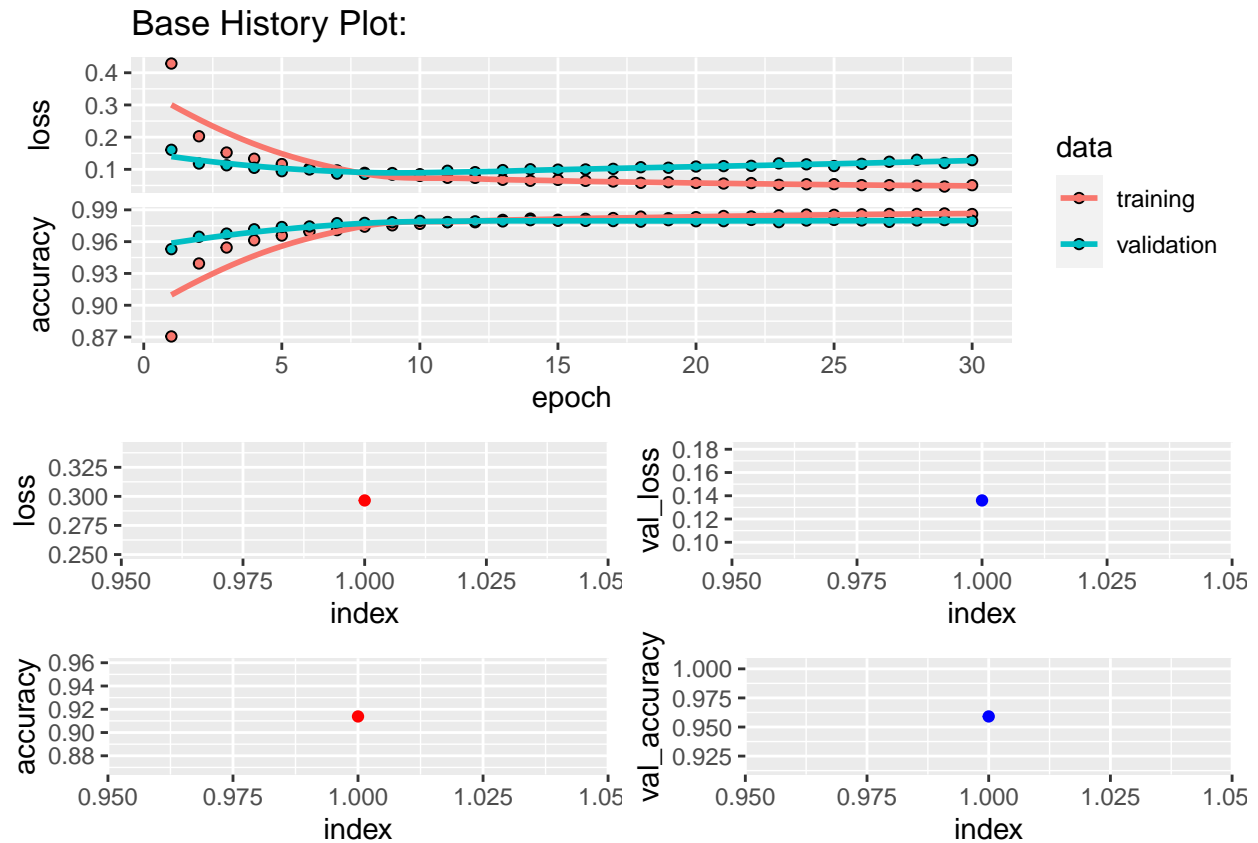
Base History Plot:

We note that:

```
## [1] "The base model has a validation loss value of:  0.107002124190331"

## [1] "and it also has an accuracy of: 0.981199979782104"

## [1] "The Early Cutoff model has a validation loss value of:  0.134215801954269"

## [1] "and it also has an accuracy of: 0.95880001783371"
```

This gives us a final result that has a slightly lower accuracy than the base model, but a noteably lower LOSS value as well. This is likely a result of reduced overfitting in the early stopping model, which results in comparable accuracy to the base model, with a lower LOSS value

Question 2

Trialling Different Network Parameters

Main Loop of models:

```r
# Define d:
d <- c(16,32,64,128)

# Define q:
q <- c(0,0.25,0.5,0.75)


# Create output data frame:
All_Tested_Models <- data.frame("d" = NA, "q" = NA, "Loss" = NA, "Accuracy" = NA)


# Outer Loop for q values for the dropout rate
for (i in 1:length(q)){

  # Inner Loop for values of d for the hidden layer size
  for (j in 1:length(d)){

    # Start Model:
    tested_model <- keras_model_sequential()

    # Define Model:
    tested_model %>%
      layer_dense(units = d[j], activation = 'relu', input_shape = c(784)) %>%
      layer_dropout(rate = q[i]) %>%
      layer_dense(units = 10, activation = 'softmax')

    # Compile Model
    tested_model %>% compile(
      loss = 'categorical_crossentropy',
      optimizer = optimizer_rmsprop(),
      metrics = c('accuracy')
    )

    # Analyse History of the Model:
    tested_history <- tested_model %>% fit(
      x_train, y_train,
      epochs = 30, batch_size = 128,
      validation_split = 0.2,
      verbose = 0
    )

    # Evaluate model:
    tested_result <- tested_model %>% evaluate(x_test, y_test)

    # Add models to the main list of models
    tested_model <- c(d[j], q[i], tested_result[[1]], tested_result[[2]])
    All_Tested_Models <- rbind(All_Tested_Models, tested_model)
  }
```

```r
}

# Remove top row of NAs
All_Tested_Models <- All_Tested_Models[-c(1),]
# Renumber:
row.names(All_Tested_Models) <- 1:nrow(All_Tested_Models)


# Transform the data appropriately
All_Tested_Models$q_value <- as.factor(All_Tested_Models[,'q'])
All_Tested_Models$d_value <- as.factor(All_Tested_Models[,'d'])
```

Heatmap of Models:

```r
Loss.Heatmap <- ggplot(data = All_Tested_Models,
                       mapping = aes(x = q_value,
                                     y = d_value,
                                     fill = Loss)) +
  geom_tile() +
  geom_text(aes(label =
                  paste("Loss: \n",
                        round(Loss, 4),
                        "\nAccuracy:\n",
                        round(All_Tested_Models$Accuracy, 4))),
            color = "white") +
  scale_fill_gradient(low = "palegreen3", high = "orange", trans = 'log' ) +
  ggtitle("Heatmap of Hyperparameter Combinations",
          subtitle = "Low Loss is Green, High Loss is Orange") +
  ylab(label = "Hidden Layer Size (d)") +
  xlab(label = "Dropout Rate (q)")

Loss.Heatmap
```

Heatmap of Hyperparameter Combinations

Low Loss is Green, High Loss is Orange

Comments:

From the heatmap, we may observe that the lowest LOSS (and highest Accuracy) occurs when a hidden layer size of $d = 128$ and a dropout rate of $q = 0.25$. Similar choices of d and q give similar values, but this combination is the lowest/best.

Overall, this grid of values allows us to sample a small but substantive group of simple networks. It is very likely a superior selection of values exists between the values we have tested or with a similar combination. However, this selection of values covers a wide enough selection of models to enable us to find a model that performs relatively well.

Question 3

Trialling different optimizers

Momentum Optimal Optimizer:

```r
## Define the model:
model_3M <- keras_model_sequential()
model_3M %>%
  layer_dense(units = 128, activation = 'relu', input_shape = c(784)) %>%
  layer_dropout(rate = 0.25) %>%
  layer_dense(units = 10, activation = 'softmax')

# Inspect the defined model:
# summary(model_3M)

# Compile the model with an appropriate Loss Function and Optimizer:
model_3M %>% compile(
  loss = 'categorical_crossentropy',
  optimizer = optimizer_sgd(momentum=0.9),
  metrics = c('accuracy')
)

## Training and Fitting the model:
history_3M <- model_3M %>% fit(
  x_train, y_train,
  epochs = 30, batch_size = 128,
  validation_split = 0.2,
  verbose = 0
)

momentum_result <- model_3M %>% evaluate(x_test, y_test)
```

ADAM Optimal Optimizer:

```r
## Define the model:
model_3Ad <- keras_model_sequential()
model_3Ad %>%
  layer_dense(units = 128, activation = 'relu', input_shape = c(784)) %>%
  layer_dropout(rate = 0.25) %>%
  layer_dense(units = 10, activation = 'softmax')

# Inspect the defined model:
# summary(model_3Ad)

# Compile the model with an appropriate Loss Function and Optimizer:
model_3Ad %>% compile(
  loss = 'categorical_crossentropy',
  optimizer = optimizer_adam(),
  metrics = c('accuracy')
)

## Training and Fitting the model:
```

```
history_3Ad <- model_3Ad %>% fit(
  x_train, y_train,
  epochs = 30, batch_size = 128,
  validation_split = 0.2,
  verbose = 0
)

ADAM_result <- model_3Ad %>% evaluate(x_test, y_test)
```

RMSProp Optimal Optimizer:

```
## Define the model:
model_3RMS <- keras_model_sequential()
model_3RMS %>%
  layer_dense(units = 128, activation = 'relu', input_shape = c(784)) %>%
  layer_dropout(rate = 0.25) %>%
  layer_dense(units = 10, activation = 'softmax')

# Inspect the defined model:
# summary(model_3RMS)

# Compile the model with an appropriate Loss Function and Optimizer:
model_3RMS %>% compile(
  loss = 'categorical_crossentropy',
  optimizer = optimizer_rmsprop(),
  metrics = c('accuracy')
)

## Training and Fitting the model:
history_3RMS <- model_3RMS %>% fit(
  x_train, y_train,
  epochs = 30, batch_size = 128,
  validation_split = 0.2,
  verbose = 0
)

RMS_result <- model_3RMS %>% evaluate(x_test, y_test)
```

Comparison of Results:

Plots:

```
# Momentum Plot:

plot_momentum <- plot(history_3M) +
  ggtitle("Momentum Optimizer History Plot:")


# ADAM Plot:

plot_ADAM <- plot(history_3Ad) +
  ggtitle("ADAM Optimizer History Plot:")
```
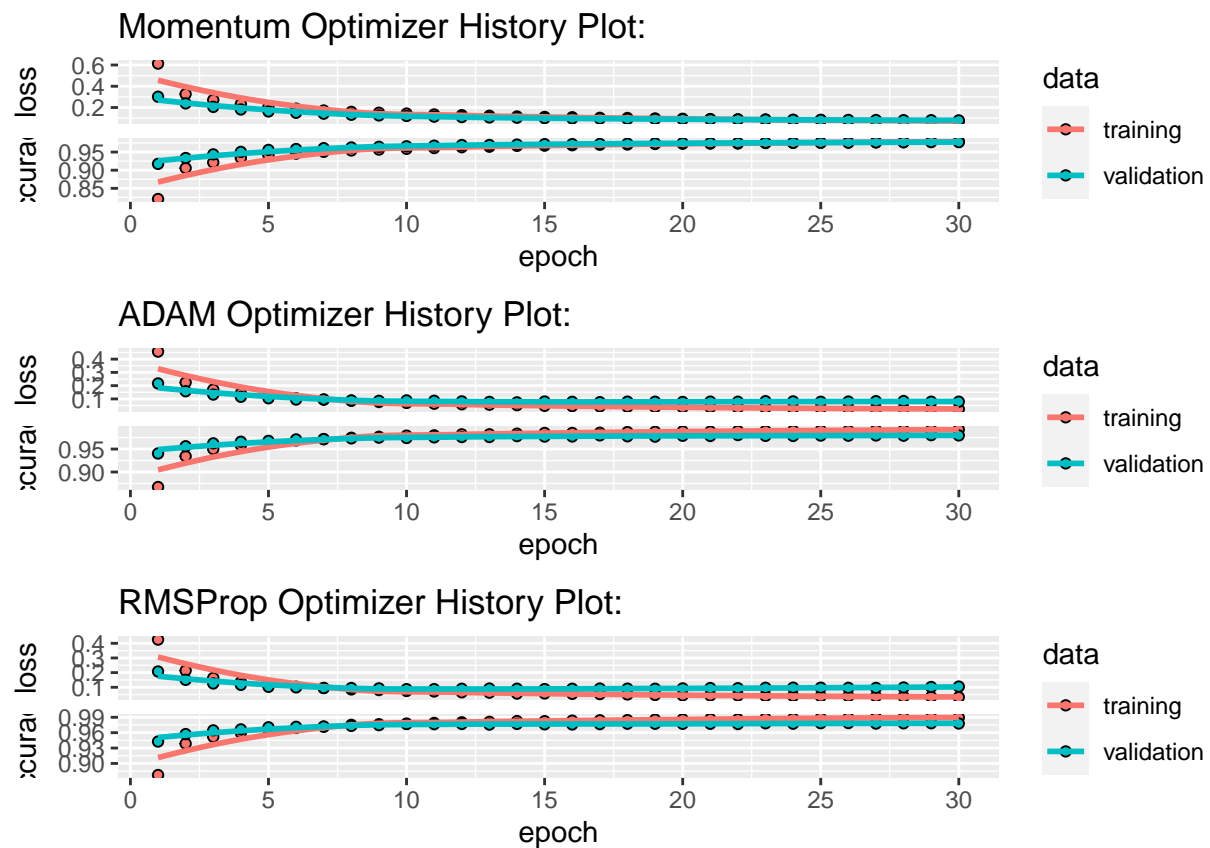
```r
# Momentum Plot:

plot_RMSProp <- plot(history_3RMS) +
  ggtitle("RMSProp Optimizer History Plot:")



# Plot them together:

ggarrange(plot_momentum,
          plot_ADAM,
          plot_RMSProp,
          ncol = 1, nrow = 3)
```

Momentum Optimizer History Plot:

ADAM Optimizer History Plot:

RMSProp Optimizer History Plot:

Straight Results:

```
## [1] "The Momentum model has a validation loss value of:  0.0745500847697258"

## [1] "and it also has an accuracy of: 0.97790002822876"

## [1] "The ADAM model has a validation loss value of:  0.0772101953625679"

## [1] "and it also has an accuracy of: 0.979700028896332"

## [1] "The RMSProp model has a validation loss value of:  0.0903267785906792"

## [1] "and it also has an accuracy of: 0.978799998760223"
```

Comments:

From the results of networks using these optimizers, we may observe that the most accurate model was the ADAM model, followed by the RMSProp and Momentum models. The lowest LOSS value however was the Momentum model, followed by the ADAM model.

If we observe the plots, it becomes evident that the ADAM and RMSProp models converge far more rapidly, with their validation accuracy plateauing after about 10 epochs. By contrast, the Momentum model takes longer to plateau, with obvious improvement still visible after 20 epochs. From this, we can say that the ADAM and RMSProp models converge the fastest. Combined with our knowledge of the final accuracy, the ADAM optimizer is the best choice in this situation.