INSTITUTO DE CIENCIAS ECONÓMICO ADMINISTRATIVAS

DOCTORADO EN CIENCIAS ECONÓMICO ADMINISTRATIVAS

PRÁCTICA DE LABORATORIO Rstudio

Lab-24

GRADO: 3ER. SEMESTRE

MATERIA: COMPLEJIDAD ECONÓMICA

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LAB ONE (MD)

JESSICA PAOLA AGUILAR SERVIN

2023-02-22

Es la estructura de red que AMAZON ocupa para hacer recomendaciones en base a tus compras actuales

```
M = as.matrix(read.csv("https://raw.githubusercontent.com/PABalland/ON/master/amz.csv",
                       sep = ",",
                       header = T,
                       row.names = 1))
M
```

```
##        Tie Book Surfboard Short Water
## Pierre   0    0         1     1     1
## Ron      1    1         0     0     1
## Andrea   1    1         0     0     1
## David    0    0         1     1     1
## Cesar    1    1         0     0     1
## Paula    1    1         1     1     1
```

```
dim(M)
```

```
## [1] 6 5
```

Ver sólo el vector de clientes que compran el producto “corbata” (producto de la columna 1)

```
M[1:6, 1]
```

```
## Pierre    Ron Andrea  David  Cesar  Paula
##      0      1      1      0      1      1
```

Ver sólo un fragmento de la base original, en relación a los dos productos que me interesan

```
M[1:6, 1:2]
```

```
##        Tie Book
## Pierre   0    0
## Ron      1    1
## Andrea   1    1
## David    0    0
## Cesar    1    1
## Paula    1    1
```

Computar grado de centralidad

```
rowSums (M)
```

```
## Pierre    Ron Andrea  David  Cesar  Paula
##      3      3      3      3      3      5
```

función útil para enfocarnos en productos y no sólo en clienteS

```
t(M)
```

```
##           Pierre Ron Andrea David Cesar Paula
## Tie            0   1      1     0     1     1
## Book           0   1      1     0     1     1
## Surfboard      1   0      0     1     0     1
## Short          1   0      0     1     0     1
## Water          1   1      1     1     1     1
```

Suma de matrices

```
M + M
```

```
##        Tie Book Surfboard Short Water
## Pierre   0    0         2     2     2
## Ron      2    2         0     0     2
## Andrea   2    2         0     0     2
## David    0    0         2     2     2
## Cesar    2    2         0     0     2
## Paula    2    2         2     2     2
```

Crear nuevo un objeto llamado x

```
X= M + M
```

Multiplicación de matrices checar tamaños

```
M * M
```

```
##        Tie Book Surfboard Short Water
## Pierre   0    0         1     1     1
## Ron      1    1         0     0     1
## Andrea   1    1         0     0     1
## David    0    0         1     1     1
## Cesar    1    1         0     0     1
## Paula    1    1         1     1     1
```

Algoritmo para identificar para tener el número de veces que 2 productos han sido comprados por el mismo cliente…identificar productos que van frecuentemente juntos (co ocurrencias par)

```
M %*% t(M)
```

```
##        Pierre Ron Andrea David Cesar Paula
## Pierre      3   1      1     3     1     3
## Ron         1   3      3     1     3     3
## Andrea      1   3      3     1     3     3
## David       3   1      1     3     1     3
## Cesar       1   3      3     1     3     3
## Paula       3   3      3     3     3     5
```

```
t(M) %*% M
```

```
##           Tie Book Surfboard Short Water
## Tie         4    4         1     1     4
## Book        4    4         1     1     4
## Surfboard   1    1         3     3     3
## Short       1    1         3     3     3
## Water       4    4         3     3     6
```

Similaridad de productos (de gustos) matriz de co ocurrencia de productos

```
P= t(M) %*% M
```

No es una matriz identidad (como en la correlación)

```
diag(P)= 0
```

Similaridad de clientes - matriz de co ocurrencia de clientes

```
C = M %*% t(M)
```

Visualizar C

```
C
```

```
##        Pierre Ron Andrea David Cesar Paula
## Pierre      3   1      1     3     1     3
## Ron         1   3      3     1     3     3
## Andrea      1   3      3     1     3     3
## David       3   1      1     3     1     3
## Cesar       1   3      3     1     3     3
## Paula       3   3      3     3     3     5
```

No es una matriz identidad (como en la correlación

```
diag(C)=0
```

LAB5-MD-

JESSICA PAOLA AGUILAR SERVIN

2023-02-23

Laboratorio - PIVOTAR A LO LARGO

Instalar paquetes Cargar paquete tidyverse y readr

```
library(tidyverse)
```

```
## ── Attaching core tidyverse packages ──────────────────────── tidyverse 2.0.0 ──
## ✔ dplyr     1.1.0     ✔ readr     2.1.4
## ✔ forcats   1.0.0     ✔ stringr   1.5.0
## ✔ ggplot2   3.4.1     ✔ tibble    3.1.8
## ✔ lubridate 1.9.2     ✔ tidyr     1.3.0
## ✔ purrr     1.0.1
## ── Conflicts ────────────────────────────────────────── tidyverse_conflicts() ──
## ✖ dplyr::filter() masks stats::filter()
## ✖ dplyr::lag()    masks stats::lag()
## ℹ Use the ]8;;http://conflicted.r-lib.org/conflicted package]8;; to force all conflicts to become errors
```

```
library(readr)
```

CARGAR DATOS. Importar Dataset- Seccionar archivo ICE 2014

```
library(readr)
tabla1 <- read_csv("~/DOCTORADO 2022/SEMESTRE TRES ENE-JUL 23/correcionice-2014-lab5.csv")
```

```
## Rows: 83 Columns: 15
## ── Column specification ────────────────────────────────────────────────────────
## Delimiter: ","
## chr  (1): MUNICIPIO
## dbl (14): Km,0, Km,2, Km,4, Km,6, Km,8, km,10, km,12, km,14, km,16, km,18, k...
##
## ℹ Use `spec()` to retrieve the full column specification for this data.
## ℹ Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

VER LA TABLA

```
head(tabla1)
```

```
## # A tibble: 6 × 15
##   MUNICIPIO   `Km,0` `Km,2` `Km,4` `Km,6` `Km,8` `km,10` `km,12` `km,14` `km,16`
##   <chr>        <dbl>  <dbl>  <dbl>  <dbl>  <dbl>   <dbl>   <dbl>   <dbl>   <dbl>
## 1 Acatlan         22     21     20     19     19      19      18      18      18
## 2 Acaxochitl…     24     27     26     25     24      22      22      22      22
## 3 Actopan         11     17     22     21     21      20      20      20      20
## 4 ABI             71     46     50     49     49      49      50      50      50
## 5 Ajacuba         30     47     44     44     43      43      43      43      43
## 6 Alfajayucan     31     16     18     20     20      21      21      21      21
## # … with 5 more variables: `km,18` <dbl>, `km,20` <dbl>, `km,22` <dbl>,
## #   `km,24` <dbl>, `km,26` <dbl>
```

NOMBRAR TABLA PARA VER TODAS LAS COLUMNAS

```
names(tabla1)
```

```
##  [1] "MUNICIPIO" "Km,0"      "Km,2"      "Km,4"      "Km,6"      "Km,8"
##  [7] "km,10"     "km,12"     "km,14"     "km,16"     "km,18"     "km,20"
## [13] "km,22"     "km,24"     "km,26"
```

paso 1.- Pivotar tabla “A LO LARGO”

```
t1_PIVOTANTE = tabla1%>%
pivot_longer (cols=c("Km,0","Km,2","Km,4","Km,6","Km,8","km,10","km,12","km,14","km,16","km,18","km,20","km,22","
km,24","km,26"), names_to = "iteracion", values_to = "ranking")
```

Ver pivotante

```
View(t1_PIVOTANTE)
```

Exportar resultado: tabla ordenada

```
write.csv(t1_PIVOTANTE, file = "ice_CHARTICULATOR.csv")
```

Escribir y guardar resultados

```
getwd()
```

```
## [1] "C:/Users/gusta/OneDrive/Documents/GitHub/JPAS_LABS24/INPUT/CUADERNOS MD"
```

```
setwd("C:/Users/gusta/OneDrive/Documents/GitHub/JPAS_LABS24/INPUT/CUADERNOS MD")
```

LAB 8 (MD)

JESSICA PAOLA AGUILAR SERVIN

2023-02-23

LABORATORIO: Relacionamiento (r)
##

1.Cómo se mide la proximidad (relatedness) para crear el espacio producto Material: Balland, P.A. (2017) Economic Geography in R: Introduction to the EconGeo Package, Papers in Evolutionary Economic Geography, 17 (09): 1-75 Para instalar: https://www.paballand.com/install-r (https://www.paballand.com/install-r)

```
library (EconGeo)
```

```
##
## Please cite EconGeo in publications as:
```

```
##  Balland, P.A. (2017) Economic Geography in R: Introduction to the EconGeo Package, Papers in Evolutionary Eco
nomic Geography, 17 (09): 1-75
```

CREAMOS MATRIZ

```
M = as.matrix(
  read.csv("https://raw.githubusercontent.com/PABalland/ON/master/amz.csv" ,
           sep = ",",
           header = T,
           row.names = 1))
```

LLAMAMOS A LA MATRIZ

```
M
```

```
##        Tie Book Surfboard Short Water
## Pierre   0    0         1     1     1
## Ron      1    1         0     0     1
## Andrea   1    1         0     0     1
## David    0    0         1     1     1
## Cesar    1    1         0     0     1
## Paula    1    1         1     1     1
```

co-ocurrencia entre personas/paises/estados

```
 co.occurrence (M)
```

```
##        Pierre Ron Andrea David Cesar Paula
## Pierre      0   1      1     3     1     3
## Ron         1   0      3     1     3     3
## Andrea      1   3      0     1     3     3
## David       3   1      1     0     1     3
## Cesar       1   3      3     1     0     3
## Paula       3   3      3     3     3     0
```

co-ocurrencia entre productos t es transpuesta

```
c= co.occurrence(t(M))
```

VISUALIZAMOS MATRIZ

```
c
```

```
##           Tie Book Surfboard Short Water
## Tie         0    4         1     1     4
## Book        4    0         1     1     4
## Surfboard   1    1         0     3     3
## Short       1    1         3     0     3
## Water       4    4         3     3     0
```

Estima el relacionamiento o proximidad pero normalizado, para asegurar que el numero de co ocurrencias que observamos, es mayor al numero de co ocurrencias probables (probailidad condicional) tie and Surfboard puede que no esten tan relacionados, abajo de 1 no es relacionado mientras que mayor a 1 si es relacionado

```
r = relatedness (c)
```

LLAMAR MATRIZ

```
r
```

```
##                 Tie      Book Surfboard     Short    Water
## Tie       0.0000000 1.6000000 0.5121951 0.5121951 1.082707
## Book      1.6000000 0.0000000 0.5121951 0.5121951 1.082707
## Surfboard 0.5121951 0.5121951 0.0000000 1.9687500 1.038462
## Short     0.5121951 0.5121951 1.9687500 0.0000000 1.038462
## Water     1.0827068 1.0827068 1.0384615 1.0384615 0.000000
```

REGLA DE ALGORITMO Ejecutar la regla: si el relacionamiento es menor a 1 = 0 (no habra arista que ligue producto) y si es mayor a 1 = 1 (si habra arista que ligue producto)

```
r[r<1]= 0
r[r>1]= 1
```

CARGAR LIBRERIA PARA HACER EL GRÁFICO

```
library (igraph)
```

```
##
## Attaching package: 'igraph'
```

```
## The following object is masked from 'package:EconGeo':
##
##     diversity
```

```
## The following objects are masked from 'package:stats':
##
##     decompose, spectrum
```

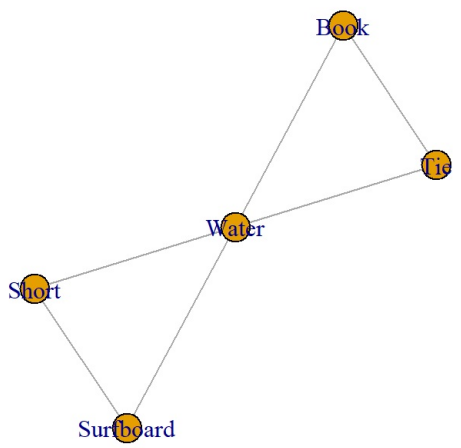
```
## The following object is masked from 'package:base':
##
##     union
```

INSTRUCCION PARA HACER EL GRÁFICO

```
g1 = graph_from_adjacency_matrix (r, mode = "undirected")
```

VER EL GRAFICO

```
plot(g1)
```



title: “LAB 9”

author: “JESSICA PAOLA AGUILAR SERVIN”

date: “2023-02-23”

output: html_document

T1_03_ESPACIO PRODUCTO(2) - RELACIONAMIENTO “CASO REAL”: EXPORTACIONES HIDALGUENSES Objetivo: Estimar el relacionamiento (relatedness, proximidad, métrica de distancia entre productos) En este ejercicio vamos a: 1. Cargar nuestra matriz de datos 2. Calcular co ocurrencias entre lugares y productos 3. Estimar el relacionamiento, teniendo como input las co ocurrencias 4. Graficar 5. Exportar los resultados para trabajarlos con cytoscape o gephi

practica 2: exportaciones hidalguenses ##

Abrir EconGeo

```
library (EconGeo)
```

```
##
## Please cite EconGeo in publications as:
```

```
##  Balland, P.A. (2017) Economic Geography in R: Introduction to the EconGeo Package, Papers in Evolutionary Eco
nomic Geography, 17 (09): 1-75
```

Seleccionar archivo desde la ruta de su ordenador

```
M = as.matrix(
  read.csv("~/GitHub/JPAS_LABS24/INPUT/CUADERNOS MD/INPUTLAB9_rca_2014.csv",
           sep = ",",
           header = T,
           row.names = 1))
```

Visualizar los primeros 10 datos de la matriz M

```
head (M[,1:10])
```

```
##                        X102 X210 X401 X403 X406 X510 X602 X603 X702 X703
## Acatlán                   0    0    0    0    0    0    0    0    1    0
## Acaxochitlán              0    0    0    0    0    0    0    0    1    0
## Actopan                   0    0    0    0    0    0    0    0    1    0
## Agua Blanca De Iturbide   0    0    0    0    0    0    0    0    1    0
## Ajacuba                   0    0    0    0    0    0    1    0    0    0
## Alfajayucan               0    0    0    0    0    0    0    0    0    0
```

```
dim (M)
```

```
## [1]  83 429
```

Co-ocurrencia entre personas/paises/estados (municipios-lugares)

```
co.occurrence(M)
```

```
##                                    Acatlán Acaxochitlán Actopan
## Acatlán                                  0            3       3
## Acaxochitlán                             3            0       4
## Actopan                                  3            4       0
## Agua Blanca De Iturbide                  1            1       2
## Ajacuba                                  3            2       6
## Alfajayucan                              2            2       4
## Almoloya                                 1            2       5
## Apan                                     1            3       6
## El Arenal                                2            1       4
## Atitalaquia                              0            0       1
## Atlapexco                                0            1       2
## Atotonilco El Grande                     3            3       8
## Atotonilco De Tula                       2            2       8
## Calnali                                  1            2       4
## Cardonal                                 1            0       2
## Cuautepec De Hinojosa                    3            9       7
## Chapantongo                              0            0       2
## Chapulhuacán                             0            1       2
## Chilcuautla                              4            3       6
```

```
## Eloxochitlán                                1            1       3
## Emiliano Zapata                             0            1       1
## Epazoyucan                                  0            0       0
## Francisco I. Madero                         3            3       8
## Huasca De Ocampo                            2            2       4
## Huautla                                     0            1       2
## Huazalingo                                  0            0       1
## Huehuetla                                   0            1       2
## Huejutla De Reyes                           1            3       5
## Huichapan                                   3            4       8
## Ixmiquilpan                                 2            2       6
## Jacala De Ledezma                           0            1       3
## Jaltocán                                    0            0       0
## Juárez Hidalgo                              1            1       3
## Lolotla                                     1            1       2
## Metepec                                     4            4       4
## San Agustín Metzquititlán                   2            3       5
## Metztitlán                                  1            2       4
## Mineral Del Chico                           0            0       0
## Mineral Del Monte                           0            1       1
## La Misión                                   0            0       1
## Mixquiahuala De Juárez                      3            4      10
## Molango De Escamilla                        1            2       4
## Nicolás Flores                              1            1       2
## Nopala De Villagrán                         0            0       2
## San Felipe Orizatlán                        0            2       4
## Pacula                                      0            0       1
## Pachuca De Soto                             3            4       8
## Pisaflores                                  0            1       2
## Progreso De Obregón                         2            3       8
## Mineral De La Reforma                       2            4       6
## San Agustín Tlaxiaca                        1            3       3
## San Bartolo Tutotepec                       0            0       0
## San Salvador                                4            4       7
## Santiago De Anaya                           2            2       5
## Santiago Tulantepec De Lugo Guerrero        3            3       3
## Singuilucan                                 0            0       1
## Tasquillo                                   1            1       4
## Tecozautla                                  4            5       8
## Tenango De Doria                            0            1       2
## Tepeapulco                                  1            0       0
## Tepehuacán De Guerrero                      1            1       2
## Tepeji Del Río De Ocampo                    1            2       4
## Tepetitlán                                  2            2       5
## Tetepango                                   2            2       5
## Villa De Tezontepec                         0            1       3
## Tezontepec De Aldama                        3            3       7
## Tianguistengo                               1            1       3
## Tizayuca                                    1            4       8
## Tlahuelilpan                                0            2       2
## Tlahuiltepa                                 1            1       3
## Tlanalapa                                   0            2       3
## Tlanchinol                                  1            2       4
## Tlaxcoapan                                  3            4       8
## Tolcayuca                                   1            2       5
## Tula De Allende                             3            3       8
## Tulancingo De Bravo                        10            5      10
## Xochiatipan                                 0            0       1
## Xochicoatlán                                1            1       3
## Yahualica                                   0            0       1
## Zacualtipán De Ángeles                      1            2       3
## Zapotlán De Juárez                          0            2       4
## Zempoala                                    2            3       6
## Zimapán                                     1            1       1
##                                       Agua Blanca De Iturbide Ajacuba
## Acatlán                                                     1       3
## Acaxochitlán                                                1       2
## Actopan                                                     2       6
## Agua Blanca De Iturbide                                     0       1
## Ajacuba                                                     1       0
## Alfajayucan                                                 0       4
## Almoloya                                                    2       4
## Apan                                                        1       2
## El Arenal                                                   1       3
## Atitalaquia                                                 0       0
## Atlapexco                                                   1       1
## Atotonilco El Grande                                        2       6
## Atotonilco De Tula                                          1       5
## Calnali                                                     1       3
```

```
## Cardonal                                                    0       3
## Cuautepec De Hinojosa                                       1       4
## Chapantongo                                                 0       1
## Chapulhuacán                                                1       1
## Chilcuautla                                                 1       6
## Eloxochitlán                                                0       4
## Emiliano Zapata                                             0       0
## Epazoyucan                                                  0       0
## Francisco I. Madero                                         2       5
## Huasca De Ocampo                                            1       3
## Huautla                                                     1       1
## Huazalingo                                                  1       1
## Huehuetla                                                   1       1
## Huejutla De Reyes                                           2       3
## Huichapan                                                   2       4
## Ixmiquilpan                                                 1       7
## Jacala De Ledezma                                           1       2
## Jaltocán                                                    1       0
## Juárez Hidalgo                                              0       3
## Lolotla                                                     1       2
## Metepec                                                     1       3
## San Agustín Metzquititlán                                   1       4
## Metztitlán                                                  1       3
## Mineral Del Chico                                           0       0
## Mineral Del Monte                                           0       0
## La Misión                                                   1       1
## Mixquiahuala De Juárez                                      1       7
## Molango De Escamilla                                        1       3
## Nicolás Flores                                              1       1
## Nopala De Villagrán                                         0       1
## San Felipe Orizatlán                                        2       2
## Pacula                                                      0       1
## Pachuca De Soto                                             2       1
## Pisaflores                                                  1       1
## Progreso De Obregón                                         1       6
## Mineral De La Reforma                                       2       2
## San Agustín Tlaxiaca                                        1       1
## San Bartolo Tutotepec                                       1       0
## San Salvador                                                2       6
## Santiago De Anaya                                           1       3
## Santiago Tulantepec De Lugo Guerrero                        0       2
## Singuilucan                                                 0       1
## Tasquillo                                                   0       3
## Tecozautla                                                  2       7
## Tenango De Doria                                            1       1
## Tepeapulco                                                  0       0
## Tepehuacán De Guerrero                                      1       2
## Tepeji Del Río De Ocampo                                    0       1
## Tepetitlán                                                  0       5
## Tetepango                                                   0       5
## Villa De Tezontepec                                         0       1
## Tezontepec De Aldama                                        1       7
## Tianguistengo                                               1       3
## Tizayuca                                                    1       1
## Tlahuelilpan                                                0       0
## Tlahuiltepa                                                 1       3
## Tlanalapa                                                   0       1
## Tlanchinol                                                  1       3
## Tlaxcoapan                                                  1       7
## Tolcayuca                                                   2       1
## Tula De Allende                                             1       6
## Tulancingo De Bravo                                         2       4
## Xochiatipan                                                 1       1
## Xochicoatlán                                                1       3
## Yahualica                                                   1       1
## Zacualtipán De Ángeles                                      1       2
## Zapotlán De Juárez                                          0       1
## Zempoala                                                    2       4
## Zimapán                                                     1       0
##                                       Alfajayucan Almoloya Apan El Arenal
## Acatlán                                         2        1    1         2
## Acaxochitlán                                    2        2    3         1
## Actopan                                         4        5    6         4
## Agua Blanca De Iturbide                         0        2    1         1
## Ajacuba                                         4        4    2         3
## Alfajayucan                                     0        3    2         3
## Almoloya                                        3        0    5         3
## Apan                                            2        5    0         2
## El Arenal                                       3        3    2         0
```

```
## Atitalaquia                                  1        0    3         0
## Atlapexco                                    2        2    2         1
## Atotonilco El Grande                         4        6    4         4
## Atotonilco De Tula                           6        5    2         3
## Calnali                                      3        3    2         2
## Cardonal                                     3        1    1         2
## Cuautepec De Hinojosa                        2        4    6         2
## Chapantongo                                  1        1    1         1
## Chapulhuacán                                 1        1    2         1
## Chilcuautla                                  4        4    4         4
## Eloxochitlán                                 2        3    2         2
## Emiliano Zapata                              1        2    4         0
## Epazoyucan                                   0        1    1         0
## Francisco I. Madero                          4        5    4         4
## Huasca De Ocampo                             2        3    2         3
## Huautla                                      2        2    2         1
## Huazalingo                                   1        1    1         1
## Huehuetla                                    2        2    2         1
## Huejutla De Reyes                            3        3    9         1
## Huichapan                                    4        5    5         3
## Ixmiquilpan                                  5        6    4         3
## Jacala De Ledezma                            2        3    2         1
## Jaltocán                                     0        0    1         0
## Juárez Hidalgo                               2        2    1         2
## Lolotla                                      1        1    0         1
## Metepec                                      3        2    2         2
## San Agustín Metzquititlán                    3        5    4         3
## Metztitlán                                   3        5    4         3
## Mineral Del Chico                            0        0    0         0
## Mineral Del Monte                            1        1    1         0
## La Misión                                    1        1    0         1
## Mixquiahuala De Juárez                       5        5   11         3
## Molango De Escamilla                         3        3    2         2
## Nicolás Flores                               1        2    2         2
## Nopala De Villagrán                          1        1    2         1
## San Felipe Orizatlán                         2        3    3         1
## Pacula                                       1        1    1         1
## Pachuca De Soto                              5        4   11         1
## Pisaflores                                   2        2    2         1
## Progreso De Obregón                          4        5    5         3
## Mineral De La Reforma                        3        3    5         1
## San Agustín Tlaxiaca                         1        3    5         1
## San Bartolo Tutotepec                        0        1    0         0
## San Salvador                                 5        5    3         4
## Santiago De Anaya                            4        4    3         4
## Santiago Tulantepec De Lugo Guerrero         3        2    1         1
## Singuilucan                                  0        2    6         0
## Tasquillo                                    4        3    2         3
## Tecozautla                                   5        7    5         4
## Tenango De Doria                             2        2    2         1
## Tepeapulco                                   1        0    0         0
## Tepehuacán De Guerrero                       1        1    0         1
## Tepeji Del Río De Ocampo                     1        0    2         0
## Tepetitlán                                   4        4    3         3
## Tetepango                                    4        4    3         3
## Villa De Tezontepec                          2        3    4         1
## Tezontepec De Aldama                         5        5    4         3
## Tianguistengo                                2        2    1         2
## Tizayuca                                     2        4    8         0
## Tlahuelilpan                                 2        1    2         0
## Tlahuiltepa                                  2        2    1         2
## Tlanalapa                                    2        3    4         1
## Tlanchinol                                   3        3    2         2
## Tlaxcoapan                                   5        5    5         3
## Tolcayuca                                    1        4    4         1
## Tula De Allende                              7        4    4         3
## Tulancingo De Bravo                          3        5   10         3
## Xochiatipan                                  1        1    1         1
## Xochicoatlán                                 2        2    1         2
## Yahualica                                    1        1    1         1
## Zacualtipán De Ángeles                       1        1    1         0
## Zapotlán De Juárez                           2        3    5         1
## Zempoala                                     2        5    5         2
## Zimapán                                      0        2    1         1
##                                       Atitalaquia Atlapexco Atotonilco El Grande
## Acatlán                                         0         0                     3
## Acaxochitlán                                    0         1                     3
## Actopan                                         1         2                     8
## Agua Blanca De Iturbide                         0         1                     2
```

```
## Ajacuba                                    0         1                    6
## Alfajayucan                                1         2                    4
## Almoloya                                   0         2                    6
## Apan                                       3         2                    4
## El Arenal                                  0         1                    4
## Atitalaquia                                0         0                    0
## Atlapexco                                  0         0                    2
## Atotonilco El Grande                       0         2                    0
## Atotonilco De Tula                         2         3                    6
## Calnali                                    0         4                    4
## Cardonal                                   0         2                    2
## Cuautepec De Hinojosa                      0         2                    5
## Chapantongo                                0         1                    2
## Chapulhuacán                               0         3                    2
## Chilcuautla                                0         1                    7
## Eloxochitlán                               0         2                    5
## Emiliano Zapata                            0         2                    1
## Epazoyucan                                 0         1                    0
## Francisco I. Madero                        0         3                    7
## Huasca De Ocampo                           0         1                    5
## Huautla                                    0         5                    2
## Huazalingo                                 0         3                    1
## Huehuetla                                  0         3                    2
## Huejutla De Reyes                          4         4                    3
## Huichapan                                  1         3                    6
## Ixmiquilpan                                1         2                    7
## Jacala De Ledezma                          0         4                    4
## Jaltocán                                   1         2                    0
## Juárez Hidalgo                             0         1                    3
## Lolotla                                    0         2                    2
## Metepec                                    0         1                    4
## San Agustín Metzquititlán                  0         3                    7
## Metztitlán                                 0         3                    6
## Mineral Del Chico                          0         0                    1
## Mineral Del Monte                          0         1                    1
## La Misión                                  0         2                    1
## Mixquiahuala De Juárez                     3         2                    8
## Molango De Escamilla                       0         4                    4
## Nicolás Flores                             0         2                    3
## Nopala De Villagrán                        0         1                    1
## San Felipe Orizatlán                       0         4                    3
## Pacula                                     0         1                    1
## Pachuca De Soto                           15         2                    3
## Pisaflores                                 0         4                    3
## Progreso De Obregón                        0         2                    7
## Mineral De La Reforma                     10         1                    4
## San Agustín Tlaxiaca                       0         2                    2
## San Bartolo Tutotepec                      0         1                    0
## San Salvador                               0         2                    7
## Santiago De Anaya                          0         2                    5
## Santiago Tulantepec De Lugo Guerrero       0         1                    3
## Singuilucan                                2         0                    1
## Tasquillo                                  0         2                    4
## Tecozautla                                 0         3                    9
## Tenango De Doria                           0         3                    2
## Tepeapulco                                 0         0                    0
## Tepehuacán De Guerrero                     0         2                    2
## Tepeji Del Río De Ocampo                   3         0                    1
## Tepetitlán                                 0         2                    6
## Tetepango                                  0         2                    6
## Villa De Tezontepec                        0         3                    2
## Tezontepec De Aldama                       1         3                    7
## Tianguistengo                              0         3                    3
## Tizayuca                                  14         1                    3
## Tlahuelilpan                               0         1                    1
## Tlahuiltepa                                0         2                    4
## Tlanalapa                                  0         3                    2
## Tlanchinol                                 0         4                    4
## Tlaxcoapan                                 1         2                    7
## Tolcayuca                                  1         1                    3
## Tula De Allende                            2         2                    6
## Tulancingo De Bravo                        3         2                    6
## Xochiatipan                                0         3                    1
## Xochicoatlán                               0         3                    3
## Yahualica                                  0         3                    1
## Zacualtipán De Ángeles                     0         3                    2
## Zapotlán De Juárez                         0         2                    2
## Zempoala                                   0         3                    5
## Zimapán                                    0         1                    2
```

```
##                                      Atotonilco De Tula Calnali Cardonal
## Acatlán                                               2       1        1
## Acaxochitlán                                          2       2        0
## Actopan                                               8       4        2
## Agua Blanca De Iturbide                               1       1        0
## Ajacuba                                               5       3        3
## Alfajayucan                                           6       3        3
## Almoloya                                              5       3        1
## Apan                                                  2       2        1
## El Arenal                                             3       2        2
## Atitalaquia                                           2       0        0
## Atlapexco                                             3       4        2
## Atotonilco El Grande                                  6       4        2
## Atotonilco De Tula                                    0       4        3
## Calnali                                               4       0        1
## Cardonal                                              3       1        0
## Cuautepec De Hinojosa                                 4       2        2
## Chapantongo                                           1       1        1
## Chapulhuacán                                          1       3        1
## Chilcuautla                                           4       3        2
## Eloxochitlán                                          3       4        1
## Emiliano Zapata                                       2       1        1
## Epazoyucan                                            1       0        1
## Francisco I. Madero                                   7       4        3
## Huasca De Ocampo                                      3       3        1
## Huautla                                               3       4        2
## Huazalingo                                            1       3        1
## Huehuetla                                             2       3        1
## Huejutla De Reyes                                     5       4        1
## Huichapan                                             5       3        2
## Ixmiquilpan                                           6       3        3
## Jacala De Ledezma                                     4       3        2
## Jaltocán                                              0       2        0
## Juárez Hidalgo                                        3       3        1
## Lolotla                                               2       4        0
## Metepec                                               3       2        1
## San Agustín Metzquititlán                             4       5        1
## Metztitlán                                            3       4        1
## Mineral Del Chico                                     0       0        0
## Mineral Del Monte                                     1       1        0
## La Misión                                             1       3        0
## Mixquiahuala De Juárez                                6       4        2
## Molango De Escamilla                                  4       6        1
## Nicolás Flores                                        2       1        2
## Nopala De Villagrán                                   1       1        1
## San Felipe Orizatlán                                  3       4        1
## Pacula                                                1       1        1
## Pachuca De Soto                                      13       1        2
## Pisaflores                                            2       4        1
## Progreso De Obregón                                   8       4        2
## Mineral De La Reforma                                 6       1        1
## San Agustín Tlaxiaca                                  2       1        2
## San Bartolo Tutotepec                                 0       1        0
## San Salvador                                          6       4        2
## Santiago De Anaya                                     4       3        2
## Santiago Tulantepec De Lugo Guerrero                  6       2        2
## Singuilucan                                           1       0        0
## Tasquillo                                             5       3        2
## Tecozautla                                            7       4        3
## Tenango De Doria                                      2       3        1
## Tepeapulco                                            7       0        1
## Tepehuacán De Guerrero                                2       4        0
## Tepeji Del Río De Ocampo                              4       0        1
## Tepetitlán                                            5       4        2
## Tetepango                                             6       4        2
## Villa De Tezontepec                                   3       2        2
## Tezontepec De Aldama                                  7       4        3
## Tianguistengo                                         3       5        1
## Tizayuca                                             15       1        0
## Tlahuelilpan                                          2       1        1
## Tlahuiltepa                                           3       4        1
## Tlanalapa                                             3       2        2
## Tlanchinol                                            4       6        1
## Tlaxcoapan                                            6       4        2
## Tolcayuca                                             4       1        0
## Tula De Allende                                      17       4        2
## Tulancingo De Bravo                                  12       3        2
## Xochiatipan                                           1       3        1
## Xochicoatlán                                          3       5        1
```

```
## Yahualica                                          1       3        1
## Zacualtipán De Ángeles                             2       4        0
## Zapotlán De Juárez                                 3       2        1
## Zempoala                                           6       3        3
## Zimapán                                            1       0        1
##                                      Cuautepec De Hinojosa Chapantongo
## Acatlán                                                 3           0
## Acaxochitlán                                            9           0
## Actopan                                                 7           2
## Agua Blanca De Iturbide                                 1           0
## Ajacuba                                                 4           1
## Alfajayucan                                             2           1
## Almoloya                                                4           1
## Apan                                                    6           1
## El Arenal                                               2           1
## Atitalaquia                                             0           0
## Atlapexco                                               2           1
## Atotonilco El Grande                                    5           2
## Atotonilco De Tula                                      4           1
## Calnali                                                 2           1
## Cardonal                                                2           1
## Cuautepec De Hinojosa                                   0           1
## Chapantongo                                             1           0
## Chapulhuacán                                            1           1
## Chilcuautla                                             5           1
## Eloxochitlán                                            2           1
## Emiliano Zapata                                         3           0
## Epazoyucan                                              2           0
## Francisco I. Madero                                     6           1
## Huasca De Ocampo                                        2           1
## Huautla                                                 2           1
## Huazalingo                                              0           1
## Huehuetla                                               1           1
## Huejutla De Reyes                                       2           1
## Huichapan                                               5           2
## Ixmiquilpan                                             4           1
## Jacala De Ledezma                                       2           1
## Jaltocán                                                0           0
## Juárez Hidalgo                                          1           1
## Lolotla                                                 1           0
## Metepec                                                 5           0
## San Agustín Metzquititlán                               4           1
## Metztitlán                                              3           1
## Mineral Del Chico                                       0           0
## Mineral Del Monte                                       1           0
## La Misión                                               0           0
## Mixquiahuala De Juárez                                  6           2
## Molango De Escamilla                                    2           1
## Nicolás Flores                                          2           1
## Nopala De Villagrán                                     1           1
## San Felipe Orizatlán                                    2           1
## Pacula                                                  0           1
## Pachuca De Soto                                         5           0
## Pisaflores                                              1           1
## Progreso De Obregón                                     6           1
## Mineral De La Reforma                                   5           1
## San Agustín Tlaxiaca                                    5           0
## San Bartolo Tutotepec                                   0           0
## San Salvador                                            4           1
## Santiago De Anaya                                       3           1
## Santiago Tulantepec De Lugo Guerrero                    5           0
## Singuilucan                                             3           0
## Tasquillo                                               2           1
## Tecozautla                                              8           2
## Tenango De Doria                                        1           1
## Tepeapulco                                              0           0
## Tepehuacán De Guerrero                                  1           0
## Tepeji Del Río De Ocampo                                4           2
## Tepetitlán                                              4           1
## Tetepango                                               4           1
## Villa De Tezontepec                                     4           1
## Tezontepec De Aldama                                    6           1
## Tianguistengo                                           1           1
## Tizayuca                                                6           2
## Tlahuelilpan                                            2           0
## Tlahuiltepa                                             1           1
## Tlanalapa                                               4           1
## Tlanchinol                                              2           1
## Tlaxcoapan                                              5           1
```

```
## Tolcayuca                                                3           0
## Tula De Allende                                          4           1
## Tulancingo De Bravo                                      8           0
## Xochiatipan                                              0           1
## Xochicoatlán                                             1           1
## Yahualica                                                1           2
## Zacualtipán De Ángeles                                   3           0
## Zapotlán De Juárez                                       4           1
## Zempoala                                                 5           1
## Zimapán                                                  2           0
##                                       Chapulhuacán Chilcuautla Eloxochitlán
## Acatlán                                          0           4            1
## Acaxochitlán                                     1           3            1
## Actopan                                          2           6            3
## Agua Blanca De Iturbide                          1           1            0
## Ajacuba                                          1           6            4
## Alfajayucan                                      1           4            2
## Almoloya                                         1           4            3
## Apan                                             2           4            2
## El Arenal                                        1           4            2
## Atitalaquia                                      0           0            0
## Atlapexco                                        3           1            2
## Atotonilco El Grande                             2           7            5
## Atotonilco De Tula                               1           4            3
## Calnali                                          3           3            4
## Cardonal                                         1           2            1
## Cuautepec De Hinojosa                            1           5            2
## Chapantongo                                      1           1            1
## Chapulhuacán                                     0           2            3
## Chilcuautla                                      2           0            5
## Eloxochitlán                                     3           5            0
## Emiliano Zapata                                  0           0            0
## Epazoyucan                                       0           0            0
## Francisco I. Madero                              1           6            3
## Huasca De Ocampo                                 2           5            4
## Huautla                                          3           1            2
## Huazalingo                                       3           1            2
## Huehuetla                                        2           1            1
## Huejutla De Reyes                                4           2            2
## Huichapan                                        2           5            2
## Ixmiquilpan                                      2           7            4
## Jacala De Ledezma                                3           2            3
## Jaltocán                                         2           0            1
## Juárez Hidalgo                                   1           3            3
## Lolotla                                          2           2            3
## Metepec                                          0           4            1
## San Agustín Metzquititlán                        3           6            6
## Metztitlán                                       3           5            5
## Mineral Del Chico                                1           1            1
## Mineral Del Monte                                0           0            0
## La Misión                                        2           1            2
## Mixquiahuala De Juárez                           2           7            4
## Molango De Escamilla                             3           3            4
## Nicolás Flores                                   2           3            2
## Nopala De Villagrán                              1           2            1
## San Felipe Orizatlán                             4           1            2
## Pacula                                           1           1            1
## Pachuca De Soto                                  1           1            0
## Pisaflores                                       4           2            3
## Progreso De Obregón                              2           6            4
## Mineral De La Reforma                            0           1            0
## San Agustín Tlaxiaca                             1           1            0
## San Bartolo Tutotepec                            1           0            0
## San Salvador                                     1           6            3
## Santiago De Anaya                                1           4            2
## Santiago Tulantepec De Lugo Guerrero             0           2            1
## Singuilucan                                      0           2            1
## Tasquillo                                        1           3            2
## Tecozautla                                       3           8            5
## Tenango De Doria                                 2           1            1
## Tepeapulco                                       0           0            0
## Tepehuacán De Guerrero                           2           2            3
## Tepeji Del Río De Ocampo                         0           0            0
## Tepetitlán                                       1           5            4
## Tetepango                                        1           5            4
## Villa De Tezontepec                              1           2            1
## Tezontepec De Aldama                             1           7            4
## Tianguistengo                                    3           3            4
## Tizayuca                                         1           0            0
```

```
## Tlahuelilpan                                    1           0            0
## Tlahuiltepa                                     3           4            4
## Tlanalapa                                       2           1            1
## Tlanchinol                                      3           3            4
## Tlaxcoapan                                      2           6            4
## Tolcayuca                                       0           1            0
## Tula De Allende                                 1           6            3
## Tulancingo De Bravo                             1           4            2
## Xochiatipan                                     3           1            2
## Xochicoatlán                                    3           3            4
## Yahualica                                       3           1            2
## Zacualtipán De Ángeles                          2           1            2
## Zapotlán De Juárez                              2           2            1
## Zempoala                                        1           3            2
## Zimapán                                         1           2            1
##                                       Emiliano Zapata Epazoyucan
## Acatlán                                                  0          0
## Acaxochitlán                                             1          0
## Actopan                                                  1          0
## Agua Blanca De Iturbide                                  0          0
## Ajacuba                                                  0          0
## Alfajayucan                                              1          0
## Almoloya                                                 2          1
## Apan                                                     4          1
## El Arenal                                                0          0
## Atitalaquia                                              0          0
## Atlapexco                                                2          1
## Atotonilco El Grande                                     1          0
## Atotonilco De Tula                                       2          1
## Calnali                                                  1          0
## Cardonal                                                 1          1
## Cuautepec De Hinojosa                                    3          2
## Chapantongo                                              0          0
## Chapulhuacán                                             0          0
## Chilcuautla                                              0          0
## Eloxochitlán                                             0          0
## Emiliano Zapata                                          0          2
## Epazoyucan                                               2          0
## Francisco I. Madero                                      2          1
## Huasca De Ocampo                                         0          0
## Huautla                                                  2          1
## Huazalingo                                               0          0
## Huehuetla                                                1          0
## Huejutla De Reyes                                        2          0
## Huichapan                                                2          1
## Ixmiquilpan                                              1          0
## Jacala De Ledezma                                        2          1
## Jaltocán                                                 0          0
## Juárez Hidalgo                                           0          0
## Lolotla                                                  0          0
## Metepec                                                  1          1
## San Agustín Metzquititlán                                1          0
## Metztitlán                                               1          0
## Mineral Del Chico                                        0          0
## Mineral Del Monte                                        1          0
## La Misión                                                0          0
## Mixquiahuala De Juárez                                   2          0
## Molango De Escamilla                                     1          0
## Nicolás Flores                                           1          1
## Nopala De Villagrán                                      0          0
## San Felipe Orizatlán                                     1          0
## Pacula                                                   0          0
## Pachuca De Soto                                          5          3
## Pisaflores                                               1          0
## Progreso De Obregón                                      1          0
## Mineral De La Reforma                                    1          0
## San Agustín Tlaxiaca                                     3          2
## San Bartolo Tutotepec                                    0          0
## San Salvador                                             1          0
## Santiago De Anaya                                        1          0
## Santiago Tulantepec De Lugo Guerrero                     1          0
## Singuilucan                                              1          1
## Tasquillo                                                1          0
## Tecozautla                                               2          2
## Tenango De Doria                                         1          0
## Tepeapulco                                               0          0
## Tepehuacán De Guerrero                                   0          0
## Tepeji Del Río De Ocampo                                 1          0
## Tepetitlán                                               1          0
```

```
## Tetepango                                          1          0
## Villa De Tezontepec                                3          2
## Tezontepec De Aldama                               2          1
## Tianguistengo                                      0          0
## Tizayuca                                           4          1
## Tlahuelilpan                                       1          0
## Tlahuiltepa                                        0          0
## Tlanalapa                                          3          2
## Tlanchinol                                         1          0
## Tlaxcoapan                                         1          0
## Tolcayuca                                          2          1
## Tula De Allende                                    1          0
## Tulancingo De Bravo                                3          1
## Xochiatipan                                        0          0
## Xochicoatlán                                       0          0
## Yahualica                                          0          0
## Zacualtipán De Ángeles                             1          0
## Zapotlán De Juárez                                 2          1
## Zempoala                                           3          2
## Zimapán                                            1          1
##                                       Francisco I. Madero Huasca De Ocampo
## Acatlán                                                 3                2
## Acaxochitlán                                            3                2
## Actopan                                                 8                4
## Agua Blanca De Iturbide                                 2                1
## Ajacuba                                                 5                3
## Alfajayucan                                             4                2
## Almoloya                                                5                3
## Apan                                                    4                2
## El Arenal                                               4                3
## Atitalaquia                                             0                0
## Atlapexco                                               3                1
## Atotonilco El Grande                                    7                5
## Atotonilco De Tula                                      7                3
## Calnali                                                 4                3
## Cardonal                                                3                1
## Cuautepec De Hinojosa                                   6                2
## Chapantongo                                             1                1
## Chapulhuacán                                            1                2
## Chilcuautla                                             6                5
## Eloxochitlán                                            3                4
## Emiliano Zapata                                         2                0
## Epazoyucan                                              1                0
## Francisco I. Madero                                     0                4
## Huasca De Ocampo                                        4                0
## Huautla                                                 3                1
## Huazalingo                                              1                1
## Huehuetla                                               2                1
## Huejutla De Reyes                                       3                1
## Huichapan                                               7                3
## Ixmiquilpan                                             6                3
## Jacala De Ledezma                                       4                2
## Jaltocán                                                0                0
## Juárez Hidalgo                                          3                3
## Lolotla                                                 2                2
## Metepec                                                 4                2
## San Agustín Metzquititlán                               5                5
## Metztitlán                                              4                4
## Mineral Del Chico                                       0                1
## Mineral Del Monte                                       1                0
## La Misión                                               1                1
## Mixquiahuala De Juárez                                  7                3
## Molango De Escamilla                                    4                3
## Nicolás Flores                                          3                3
## Nopala De Villagrán                                     2                1
## San Felipe Orizatlán                                    3                1
## Pacula                                                  1                1
## Pachuca De Soto                                         4                1
## Pisaflores                                              2                2
## Progreso De Obregón                                     7                3
## Mineral De La Reforma                                   3                1
## San Agustín Tlaxiaca                                    3                1
## San Bartolo Tutotepec                                   0                0
## San Salvador                                            7                4
## Santiago De Anaya                                       5                3
## Santiago Tulantepec De Lugo Guerrero                    3                1
## Singuilucan                                             1                0
## Tasquillo                                               4                2
## Tecozautla                                              8                5
```

```
## Tenango De Doria                                    2                1
## Tepeapulco                                          0                0
## Tepehuacán De Guerrero                              2                2
## Tepeji Del Río De Ocampo                            0                0
## Tepetitlán                                          5                3
## Tetepango                                           5                3
## Villa De Tezontepec                                 4                1
## Tezontepec De Aldama                                8                3
## Tianguistengo                                       3                3
## Tizayuca                                            2                0
## Tlahuelilpan                                        1                0
## Tlahuiltepa                                         3                4
## Tlanalapa                                           3                1
## Tlanchinol                                          4                3
## Tlaxcoapan                                          6                3
## Tolcayuca                                           3                1
## Tula De Allende                                     7                3
## Tulancingo De Bravo                                 7                3
## Xochiatipan                                         1                1
## Xochicoatlán                                        3                3
## Yahualica                                           1                1
## Zacualtipán De Ángeles                              2                1
## Zapotlán De Juárez                                  3                1
## Zempoala                                            6                3
## Zimapán                                             2                2
##                                       Huautla Huazalingo Huehuetla
## Acatlán                                     0          0         0
## Acaxochitlán                                1          0         1
## Actopan                                     2          1         2
## Agua Blanca De Iturbide                     1          1         1
## Ajacuba                                     1          1         1
## Alfajayucan                                 2          1         2
## Almoloya                                    2          1         2
## Apan                                        2          1         2
## El Arenal                                   1          1         1
## Atitalaquia                                 0          0         0
## Atlapexco                                   5          3         3
## Atotonilco El Grande                        2          1         2
## Atotonilco De Tula                          3          1         2
## Calnali                                     4          3         3
## Cardonal                                    2          1         1
## Cuautepec De Hinojosa                       2          0         1
## Chapantongo                                 1          1         1
## Chapulhuacán                                3          3         2
## Chilcuautla                                 1          1         1
## Eloxochitlán                                2          2         1
## Emiliano Zapata                             2          0         1
## Epazoyucan                                  1          0         0
## Francisco I. Madero                         3          1         2
## Huasca De Ocampo                            1          1         1
## Huautla                                     0          3         3
## Huazalingo                                  3          0         2
## Huehuetla                                   3          2         0
## Huejutla De Reyes                           5          3         3
## Huichapan                                   3          1         2
## Ixmiquilpan                                 2          1         2
## Jacala De Ledezma                           5          2         2
## Jaltocán                                    2          2         1
## Juárez Hidalgo                              1          1         1
## Lolotla                                     2          2         1
## Metepec                                     1          0         1
## San Agustín Metzquititlán                   3          2         2
## Metztitlán                                  3          2         2
## Mineral Del Chico                           0          0         0
## Mineral Del Monte                           1          0         1
## La Misión                                   2          2         1
## Mixquiahuala De Juárez                      2          1         2
## Molango De Escamilla                        4          3         3
## Nicolás Flores                              2          1         1
## Nopala De Villagrán                         1          1         1
## San Felipe Orizatlán                        4          3         3
## Pacula                                      1          1         1
## Pachuca De Soto                             2          0         1
## Pisaflores                                  4          3         3
## Progreso De Obregón                         2          1         2
## Mineral De La Reforma                       1          0         1
## San Agustín Tlaxiaca                        2          0         1
## San Bartolo Tutotepec                       1          1         1
## San Salvador                                2          1         2
```

```
## Santiago De Anaya                          2          1         2
## Santiago Tulantepec De Lugo Guerrero       1          0         1
## Singuilucan                                0          0         0
## Tasquillo                                  2          1         2
## Tecozautla                                 3          1         2
## Tenango De Doria                           3          2         3
## Tepeapulco                                 0          0         0
## Tepehuacán De Guerrero                     2          2         1
## Tepeji Del Río De Ocampo                   0          0         0
## Tepetitlán                                 2          1         2
## Tetepango                                  2          1         2
## Villa De Tezontepec                        3          1         2
## Tezontepec De Aldama                       3          1         2
## Tianguistengo                              3          3         2
## Tizayuca                                   1          0         1
## Tlahuelilpan                               1          0         1
## Tlahuiltepa                                2          2         2
## Tlanalapa                                  3          1         2
## Tlanchinol                                 4          3         3
## Tlaxcoapan                                 2          1         2
## Tolcayuca                                  1          0         1
## Tula De Allende                            2          1         2
## Tulancingo De Bravo                        2          0         1
## Xochiatipan                                3          3         2
## Xochicoatlán                               3          3         2
## Yahualica                                  3          3         2
## Zacualtipán De Ángeles                     3          2         2
## Zapotlán De Juárez                         2          1         2
## Zempoala                                   3          1         2
## Zimapán                                    1          0         0
##                                      Huejutla De Reyes Huichapan Ixmiquilpan
## Acatlán                                              1         3           2
## Acaxochitlán                                         3         4           2
## Actopan                                              5         8           6
## Agua Blanca De Iturbide                              2         2           1
## Ajacuba                                              3         4           7
## Alfajayucan                                          3         4           5
## Almoloya                                             3         5           6
## Apan                                                 9         5           4
## El Arenal                                            1         3           3
## Atitalaquia                                          4         1           1
## Atlapexco                                            4         3           2
## Atotonilco El Grande                                 3         6           7
## Atotonilco De Tula                                   5         5           6
## Calnali                                              4         3           3
## Cardonal                                             1         2           3
## Cuautepec De Hinojosa                                2         5           4
## Chapantongo                                          1         2           1
## Chapulhuacán                                         4         2           2
## Chilcuautla                                          2         5           7
## Eloxochitlán                                         2         2           4
## Emiliano Zapata                                      2         2           1
## Epazoyucan                                           0         1           0
## Francisco I. Madero                                  3         7           6
## Huasca De Ocampo                                     1         3           3
## Huautla                                              5         3           2
## Huazalingo                                           3         1           1
## Huehuetla                                            3         2           2
## Huejutla De Reyes                                    0         9           5
## Huichapan                                            9         0           7
## Ixmiquilpan                                          5         7           0
## Jacala De Ledezma                                    5         4           4
## Jaltocán                                             3         0           0
## Juárez Hidalgo                                       1         2           2
## Lolotla                                              2         1           1
## Metepec                                              6         7           4
## San Agustín Metzquititlán                            3         4           5
## Metztitlán                                           3         4           5
## Mineral Del Chico                                    0         0           1
## Mineral Del Monte                                    1         1           1
## La Misión                                            2         1           1
## Mixquiahuala De Juárez                              11         8           8
## Molango De Escamilla                                 4         3           3
## Nicolás Flores                                       1         3           2
## Nopala De Villagrán                                  1         2           2
## San Felipe Orizatlán                                 6         4           3
## Pacula                                               1         1           1
## Pachuca De Soto                                     18        11           3
## Pisaflores                                           4         2           3
```

```
## Progreso De Obregón                                  5         6           7
## Mineral De La Reforma                                6         4           2
## San Agustín Tlaxiaca                                 2         4           2
## San Bartolo Tutotepec                                1         0           1
## San Salvador                                         4         6           6
## Santiago De Anaya                                    2         4           4
## Santiago Tulantepec De Lugo Guerrero                 6         5           3
## Singuilucan                                          2         1           2
## Tasquillo                                            2         3           4
## Tecozautla                                           5         8           9
## Tenango De Doria                                     3         2           2
## Tepeapulco                                           0         0           0
## Tepehuacán De Guerrero                               2         1           1
## Tepeji Del Río De Ocampo                             1         1           0
## Tepetitlán                                           2         3           5
## Tetepango                                            2         3           5
## Villa De Tezontepec                                  2         4           3
## Tezontepec De Aldama                                 4         7           8
## Tianguistengo                                        3         2           2
## Tizayuca                                            10         5           3
## Tlahuelilpan                                         2         2           1
## Tlahuiltepa                                          2         2           3
## Tlanalapa                                            3         4           2
## Tlanchinol                                           4         3           3
## Tlaxcoapan                                           6         6           7
## Tolcayuca                                            2         3           2
## Tula De Allende                                      9        11           8
## Tulancingo De Bravo                                  9         7           4
## Xochiatipan                                          3         1           1
## Xochicoatlán                                         3         2           2
## Yahualica                                            3         1           1
## Zacualtipán De Ángeles                               3         1           1
## Zapotlán De Juárez                                   3         4           3
## Zempoala                                             3         5           4
## Zimapán                                              0         2           2
##                                     Jacala De Ledezma Jaltocán Juárez Hidalgo
## Acatlán                                              0        0              1
## Acaxochitlán                                         1        0              1
## Actopan                                              3        0              3
## Agua Blanca De Iturbide                              1        1              0
## Ajacuba                                              2        0              3
## Alfajayucan                                          2        0              2
## Almoloya                                             3        0              2
## Apan                                                 2        1              1
## El Arenal                                            1        0              2
## Atitalaquia                                          0        1              0
## Atlapexco                                            4        2              1
## Atotonilco El Grande                                 4        0              3
## Atotonilco De Tula                                   4        0              3
## Calnali                                              3        2              3
## Cardonal                                             2        0              1
## Cuautepec De Hinojosa                                2        0              1
## Chapantongo                                          1        0              1
## Chapulhuacán                                         3        2              1
## Chilcuautla                                          2        0              3
## Eloxochitlán                                         3        1              3
## Emiliano Zapata                                      2        0              0
## Epazoyucan                                           1        0              0
## Francisco I. Madero                                  4        0              3
## Huasca De Ocampo                                     2        0              3
## Huautla                                              5        2              1
## Huazalingo                                           2        2              1
## Huehuetla                                            2        1              1
## Huejutla De Reyes                                    5        3              1
## Huichapan                                            4        0              2
## Ixmiquilpan                                          4        0              2
## Jacala De Ledezma                                    0        1              1
## Jaltocán                                             1        0              0
## Juárez Hidalgo                                       1        0              0
## Lolotla                                              1        2              2
## Metepec                                              1        0              1
## San Agustín Metzquititlán                            4        1              3
## Metztitlán                                           4        1              2
## Mineral Del Chico                                    1        0              0
## Mineral Del Monte                                    1        0              0
## La Misión                                            1        2              1
## Mixquiahuala De Juárez                               3        1              3
## Molango De Escamilla                                 3        2              3
## Nicolás Flores                                       3        0              1
```

```
## Nopala De Villagrán                                  1        0              1
## San Felipe Orizatlán                                 4        2              1
## Pacula                                               1        0              1
## Pachuca De Soto                                      3        1              0
## Pisaflores                                           4        2              1
## Progreso De Obregón                                  3        0              3
## Mineral De La Reforma                                2        0              0
## San Agustín Tlaxiaca                                 2        0              0
## San Bartolo Tutotepec                                0        1              0
## San Salvador                                         3        0              3
## Santiago De Anaya                                    2        0              2
## Santiago Tulantepec De Lugo Guerrero                 1        0              1
## Singuilucan                                          0        1              0
## Tasquillo                                            2        0              2
## Tecozautla                                           5        0              3
## Tenango De Doria                                     2        1              1
## Tepeapulco                                           0        0              0
## Tepehuacán De Guerrero                               1        2              2
## Tepeji Del Río De Ocampo                             0        0              0
## Tepetitlán                                           2        0              3
## Tetepango                                            2        0              3
## Villa De Tezontepec                                  3        0              1
## Tezontepec De Aldama                                 4        0              3
## Tianguistengo                                        2        2              3
## Tizayuca                                             2        1              0
## Tlahuelilpan                                         1        0              0
## Tlahuiltepa                                          2        1              3
## Tlanalapa                                            3        0              1
## Tlanchinol                                           3        2              3
## Tlaxcoapan                                           3        0              3
## Tolcayuca                                            2        0              0
## Tula De Allende                                      3        0              3
## Tulancingo De Bravo                                  3        1              2
## Xochiatipan                                          2        2              1
## Xochicoatlán                                         2        2              3
## Yahualica                                            2        2              1
## Zacualtipán De Ángeles                               2        2              1
## Zapotlán De Juárez                                   2        0              1
## Zempoala                                             4        0              2
## Zimapán                                              2        0              0
##                                       Lolotla Metepec San Agustín Metzquititlán
## Acatlán                                     1       4                         2
## Acaxochitlán                                1       4                         3
## Actopan                                     2       4                         5
## Agua Blanca De Iturbide                     1       1                         1
## Ajacuba                                     2       3                         4
## Alfajayucan                                 1       3                         3
## Almoloya                                    1       2                         5
## Apan                                        0       2                         4
## El Arenal                                   1       2                         3
## Atitalaquia                                 0       0                         0
## Atlapexco                                   2       1                         3
## Atotonilco El Grande                        2       4                         7
## Atotonilco De Tula                          2       3                         4
## Calnali                                     4       2                         5
## Cardonal                                    0       1                         1
## Cuautepec De Hinojosa                       1       5                         4
## Chapantongo                                 0       0                         1
## Chapulhuacán                                2       0                         3
## Chilcuautla                                 2       4                         6
## Eloxochitlán                                3       1                         6
## Emiliano Zapata                             0       1                         1
## Epazoyucan                                  0       1                         0
## Francisco I. Madero                         2       4                         5
## Huasca De Ocampo                            2       2                         5
## Huautla                                     2       1                         3
## Huazalingo                                  2       0                         2
## Huehuetla                                   1       1                         2
## Huejutla De Reyes                           2       6                         3
## Huichapan                                   1       7                         4
## Ixmiquilpan                                 1       4                         5
## Jacala De Ledezma                           1       1                         4
## Jaltocán                                    2       0                         1
## Juárez Hidalgo                              2       1                         3
## Lolotla                                     0       1                         3
## Metepec                                     1       0                         3
## San Agustín Metzquititlán                   3       3                         0
## Metztitlán                                  2       2                         7
## Mineral Del Chico                           0       0                         1
```

```
## Mineral Del Monte                          0       1                          1
## La Misión                                  3       0                          2
## Mixquiahuala De Juárez                     2       4                          5
## Molango De Escamilla                       4       2                          5
## Nicolás Flores                             0       1                          3
## Nopala De Villagrán                        0       0                          1
## San Felipe Orizatlán                       2       1                          3
## Pacula                                     0       0                          1
## Pachuca De Soto                            0       7                          3
## Pisaflores                                 2       1                          4
## Progreso De Obregón                        2       3                          5
## Mineral De La Reforma                      0       2                          3
## San Agustín Tlaxiaca                       0       2                          2
## San Bartolo Tutotepec                      1       0                          0
## San Salvador                               2       5                          5
## Santiago De Anaya                          1       3                          4
## Santiago Tulantepec De Lugo Guerrero       1       8                          2
## Singuilucan                                0       0                          1
## Tasquillo                                  1       2                          3
## Tecozautla                                 2       6                          7
## Tenango De Doria                           1       1                          2
## Tepeapulco                                 0       0                          0
## Tepehuacán De Guerrero                     4       1                          3
## Tepeji Del Río De Ocampo                   0       2                          0
## Tepetitlán                                 2       3                          5
## Tetepango                                  2       3                          5
## Villa De Tezontepec                        0       1                          2
## Tezontepec De Aldama                       2       4                          5
## Tianguistengo                              4       1                          4
## Tizayuca                                   0       3                          1
## Tlahuelilpan                               0       1                          1
## Tlahuiltepa                                3       1                          4
## Tlanalapa                                  0       1                          2
## Tlanchinol                                 4       2                          5
## Tlaxcoapan                                 2       4                          5
## Tolcayuca                                  0       2                          2
## Tula De Allende                            2       8                          4
## Tulancingo De Bravo                        2       6                          4
## Xochiatipan                                2       0                          2
## Xochicoatlán                               4       1                          4
## Yahualica                                  2       0                          2
## Zacualtipán De Ángeles                     3       2                          3
## Zapotlán De Juárez                         0       1                          2
## Zempoala                                   1       3                          4
## Zimapán                                    0       1                          2
##                                       Metztitlán Mineral Del Chico
## Acatlán                                       1                 0
## Acaxochitlán                                  2                 0
## Actopan                                       4                 0
## Agua Blanca De Iturbide                       1                 0
## Ajacuba                                       3                 0
## Alfajayucan                                   3                 0
## Almoloya                                      5                 0
## Apan                                          4                 0
## El Arenal                                     3                 0
## Atitalaquia                                   0                 0
## Atlapexco                                     3                 0
## Atotonilco El Grande                          6                 1
## Atotonilco De Tula                            3                 0
## Calnali                                       4                 0
## Cardonal                                      1                 0
## Cuautepec De Hinojosa                         3                 0
## Chapantongo                                   1                 0
## Chapulhuacán                                  3                 1
## Chilcuautla                                   5                 1
## Eloxochitlán                                  5                 1
## Emiliano Zapata                               1                 0
## Epazoyucan                                    0                 0
## Francisco I. Madero                           4                 0
## Huasca De Ocampo                              4                 1
## Huautla                                       3                 0
## Huazalingo                                    2                 0
## Huehuetla                                     2                 0
## Huejutla De Reyes                             3                 0
## Huichapan                                     4                 0
## Ixmiquilpan                                   5                 1
## Jacala De Ledezma                             4                 1
## Jaltocán                                      1                 0
## Juárez Hidalgo                                2                 0
```

```
## Lolotla                                      2                 0
## Metepec                                      2                 0
## San Agustín Metzquititlán                    7                 1
## Metztitlán                                   0                 1
## Mineral Del Chico                            1                 0
## Mineral Del Monte                            1                 0
## La Misión                                    2                 0
## Mixquiahuala De Juárez                       4                 0
## Molango De Escamilla                         4                 0
## Nicolás Flores                               3                 1
## Nopala De Villagrán                          1                 0
## San Felipe Orizatlán                         3                 0
## Pacula                                       1                 0
## Pachuca De Soto                              2                 0
## Pisaflores                                   4                 1
## Progreso De Obregón                          4                 0
## Mineral De La Reforma                        2                 0
## San Agustín Tlaxiaca                         2                 0
## San Bartolo Tutotepec                        0                 0
## San Salvador                                 4                 0
## Santiago De Anaya                            4                 0
## Santiago Tulantepec De Lugo Guerrero         1                 0
## Singuilucan                                  1                 0
## Tasquillo                                    3                 0
## Tecozautla                                   6                 1
## Tenango De Doria                             2                 0
## Tepeapulco                                   0                 0
## Tepehuacán De Guerrero                       2                 0
## Tepeji Del Río De Ocampo                     0                 0
## Tepetitlán                                   4                 0
## Tetepango                                    4                 0
## Villa De Tezontepec                          2                 0
## Tezontepec De Aldama                         4                 0
## Tianguistengo                                3                 0
## Tizayuca                                     1                 0
## Tlahuelilpan                                 1                 0
## Tlahuiltepa                                  3                 1
## Tlanalapa                                    2                 0
## Tlanchinol                                   4                 0
## Tlaxcoapan                                   4                 0
## Tolcayuca                                    2                 0
## Tula De Allende                              3                 0
## Tulancingo De Bravo                          3                 0
## Xochiatipan                                  2                 0
## Xochicoatlán                                 3                 0
## Yahualica                                    2                 0
## Zacualtipán De Ángeles                       2                 0
## Zapotlán De Juárez                           2                 0
## Zempoala                                     3                 0
## Zimapán                                      2                 1
##                                       Mineral Del Monte La Misión
## Acatlán                                               0         0
## Acaxochitlán                                          1         0
## Actopan                                               1         1
## Agua Blanca De Iturbide                               0         1
## Ajacuba                                               0         1
## Alfajayucan                                           1         1
## Almoloya                                              1         1
## Apan                                                  1         0
## El Arenal                                             0         1
## Atitalaquia                                           0         0
## Atlapexco                                             1         2
## Atotonilco El Grande                                  1         1
## Atotonilco De Tula                                    1         1
## Calnali                                               1         3
## Cardonal                                              0         0
## Cuautepec De Hinojosa                                 1         0
## Chapantongo                                           0         0
## Chapulhuacán                                          0         2
## Chilcuautla                                           0         1
## Eloxochitlán                                          0         2
## Emiliano Zapata                                       1         0
## Epazoyucan                                            0         0
## Francisco I. Madero                                   1         1
## Huasca De Ocampo                                      0         1
## Huautla                                               1         2
## Huazalingo                                            0         2
## Huehuetla                                             1         1
## Huejutla De Reyes                                     1         2
```

```
## Huichapan                                          1         1
## Ixmiquilpan                                        1         1
## Jacala De Ledezma                                  1         1
## Jaltocán                                           0         2
## Juárez Hidalgo                                     0         1
## Lolotla                                            0         3
## Metepec                                            1         0
## San Agustín Metzquititlán                          1         2
## Metztitlán                                         1         2
## Mineral Del Chico                                  0         0
## Mineral Del Monte                                  0         0
## La Misión                                          0         0
## Mixquiahuala De Juárez                             1         1
## Molango De Escamilla                               1         3
## Nicolás Flores                                     0         0
## Nopala De Villagrán                                0         0
## San Felipe Orizatlán                               1         2
## Pacula                                             0         0
## Pachuca De Soto                                    1         0
## Pisaflores                                         1         2
## Progreso De Obregón                                1         1
## Mineral De La Reforma                              1         0
## San Agustín Tlaxiaca                               1         0
## San Bartolo Tutotepec                              0         1
## San Salvador                                       1         1
## Santiago De Anaya                                  1         1
## Santiago Tulantepec De Lugo Guerrero               1         0
## Singuilucan                                        0         0
## Tasquillo                                          1         1
## Tecozautla                                         1         1
## Tenango De Doria                                   1         1
## Tepeapulco                                         0         0
## Tepehuacán De Guerrero                             0         3
## Tepeji Del Río De Ocampo                           0         0
## Tepetitlán                                         1         1
## Tetepango                                          1         1
## Villa De Tezontepec                                1         0
## Tezontepec De Aldama                               1         1
## Tianguistengo                                      0         3
## Tizayuca                                           1         0
## Tlahuelilpan                                       1         0
## Tlahuiltepa                                        0         2
## Tlanalapa                                          1         0
## Tlanchinol                                         1         3
## Tlaxcoapan                                         1         1
## Tolcayuca                                          1         0
## Tula De Allende                                    1         1
## Tulancingo De Bravo                                1         1
## Xochiatipan                                        0         2
## Xochicoatlán                                       0         3
## Yahualica                                          0         2
## Zacualtipán De Ángeles                             1         2
## Zapotlán De Juárez                                 1         0
## Zempoala                                           1         0
## Zimapán                                            0         0
##                                      Mixquiahuala De Juárez
## Acatlán                                                   3
## Acaxochitlán                                              4
## Actopan                                                  10
## Agua Blanca De Iturbide                                   1
## Ajacuba                                                   7
## Alfajayucan                                               5
## Almoloya                                                  5
## Apan                                                     11
## El Arenal                                                 3
## Atitalaquia                                               3
## Atlapexco                                                 2
## Atotonilco El Grande                                      8
## Atotonilco De Tula                                        6
## Calnali                                                   4
## Cardonal                                                  2
## Cuautepec De Hinojosa                                     6
## Chapantongo                                               2
## Chapulhuacán                                              2
## Chilcuautla                                               7
## Eloxochitlán                                              4
## Emiliano Zapata                                           2
## Epazoyucan                                                0
## Francisco I. Madero                                       7
```

```
## Huasca De Ocampo                                          3
## Huautla                                                   2
## Huazalingo                                                1
## Huehuetla                                                 2
## Huejutla De Reyes                                        11
## Huichapan                                                 8
## Ixmiquilpan                                               8
## Jacala De Ledezma                                         3
## Jaltocán                                                  1
## Juárez Hidalgo                                            3
## Lolotla                                                   2
## Metepec                                                   4
## San Agustín Metzquititlán                                 5
## Metztitlán                                                4
## Mineral Del Chico                                         0
## Mineral Del Monte                                         1
## La Misión                                                 1
## Mixquiahuala De Juárez                                    0
## Molango De Escamilla                                      4
## Nicolás Flores                                            1
## Nopala De Villagrán                                       2
## San Felipe Orizatlán                                      4
## Pacula                                                    1
## Pachuca De Soto                                           9
## Pisaflores                                                2
## Progreso De Obregón                                       9
## Mineral De La Reforma                                     5
## San Agustín Tlaxiaca                                      2
## San Bartolo Tutotepec                                     0
## San Salvador                                              7
## Santiago De Anaya                                         4
## Santiago Tulantepec De Lugo Guerrero                      3
## Singuilucan                                               4
## Tasquillo                                                 4
## Tecozautla                                                9
## Tenango De Doria                                          2
## Tepeapulco                                                0
## Tepehuacán De Guerrero                                    2
## Tepeji Del Río De Ocampo                                  2
## Tepetitlán                                                6
## Tetepango                                                 6
## Villa De Tezontepec                                       3
## Tezontepec De Aldama                                      9
## Tianguistengo                                             3
## Tizayuca                                                  8
## Tlahuelilpan                                              3
## Tlahuiltepa                                               3
## Tlanalapa                                                 3
## Tlanchinol                                                4
## Tlaxcoapan                                               10
## Tolcayuca                                                 2
## Tula De Allende                                           8
## Tulancingo De Bravo                                      12
## Xochiatipan                                               1
## Xochicoatlán                                              3
## Yahualica                                                 1
## Zacualtipán De Ángeles                                    2
## Zapotlán De Juárez                                        4
## Zempoala                                                  4
## Zimapán                                                   0
##                                       Molango De Escamilla Nicolás Flores
## Acatlán                                                  1              1
## Acaxochitlán                                             2              1
## Actopan                                                  4              2
## Agua Blanca De Iturbide                                  1              1
## Ajacuba                                                  3              1
## Alfajayucan                                              3              1
## Almoloya                                                 3              2
## Apan                                                     2              2
## El Arenal                                                2              2
## Atitalaquia                                              0              0
## Atlapexco                                                4              2
## Atotonilco El Grande                                     4              3
## Atotonilco De Tula                                       4              2
## Calnali                                                  6              1
## Cardonal                                                 1              2
## Cuautepec De Hinojosa                                    2              2
## Chapantongo                                              1              1
## Chapulhuacán                                             3              2
```

```
## Chilcuautla                                          3              3
## Eloxochitlán                                         4              2
## Emiliano Zapata                                      1              1
## Epazoyucan                                           0              1
## Francisco I. Madero                                  4              3
## Huasca De Ocampo                                     3              3
## Huautla                                              4              2
## Huazalingo                                           3              1
## Huehuetla                                            3              1
## Huejutla De Reyes                                    4              1
## Huichapan                                            3              3
## Ixmiquilpan                                          3              2
## Jacala De Ledezma                                    3              3
## Jaltocán                                             2              0
## Juárez Hidalgo                                       3              1
## Lolotla                                              4              0
## Metepec                                              2              1
## San Agustín Metzquititlán                            5              3
## Metztitlán                                           4              3
## Mineral Del Chico                                    0              1
## Mineral Del Monte                                    1              0
## La Misión                                            3              0
## Mixquiahuala De Juárez                               4              1
## Molango De Escamilla                                 0              1
## Nicolás Flores                                       1              0
## Nopala De Villagrán                                  1              1
## San Felipe Orizatlán                                 4              1
## Pacula                                               1              1
## Pachuca De Soto                                      1              2
## Pisaflores                                           4              2
## Progreso De Obregón                                  4              1
## Mineral De La Reforma                                1              1
## San Agustín Tlaxiaca                                 1              2
## San Bartolo Tutotepec                                1              0
## San Salvador                                         4              2
## Santiago De Anaya                                    3              2
## Santiago Tulantepec De Lugo Guerrero                 2              0
## Singuilucan                                          0              0
## Tasquillo                                            3              1
## Tecozautla                                           4              4
## Tenango De Doria                                     3              1
## Tepeapulco                                           0              0
## Tepehuacán De Guerrero                               4              0
## Tepeji Del Río De Ocampo                             0              0
## Tepetitlán                                           4              1
## Tetepango                                            4              1
## Villa De Tezontepec                                  2              2
## Tezontepec De Aldama                                 4              2
## Tianguistengo                                        5              1
## Tizayuca                                             1              0
## Tlahuelilpan                                         1              0
## Tlahuiltepa                                          4              2
## Tlanalapa                                            2              2
## Tlanchinol                                           6              1
## Tlaxcoapan                                           4              1
## Tolcayuca                                            1              1
## Tula De Allende                                      4              1
## Tulancingo De Bravo                                  3              2
## Xochiatipan                                          3              1
## Xochicoatlán                                         5              1
## Yahualica                                            3              1
## Zacualtipán De Ángeles                               4              0
## Zapotlán De Juárez                                   2              1
## Zempoala                                             3              3
## Zimapán                                              0              3
##                                       Nopala De Villagrán San Felipe Orizatlán
## Acatlán                                             0                    0
## Acaxochitlán                                        0                    2
## Actopan                                             2                    4
## Agua Blanca De Iturbide                             0                    2
## Ajacuba                                             1                    2
## Alfajayucan                                         1                    2
## Almoloya                                            1                    3
## Apan                                                2                    3
## El Arenal                                           1                    1
## Atitalaquia                                         0                    0
## Atlapexco                                           1                    4
## Atotonilco El Grande                                1                    3
## Atotonilco De Tula                                  1                    3
```

```
## Calnali                                                  1                    4
## Cardonal                                                 1                    1
## Cuautepec De Hinojosa                                    1                    2
## Chapantongo                                              1                    1
## Chapulhuacán                                             1                    4
## Chilcuautla                                              2                    1
## Eloxochitlán                                             1                    2
## Emiliano Zapata                                          0                    1
## Epazoyucan                                               0                    0
## Francisco I. Madero                                      2                    3
## Huasca De Ocampo                                         1                    1
## Huautla                                                  1                    4
## Huazalingo                                               1                    3
## Huehuetla                                                1                    3
## Huejutla De Reyes                                        1                    6
## Huichapan                                                2                    4
## Ixmiquilpan                                              2                    3
## Jacala De Ledezma                                        1                    4
## Jaltocán                                                 0                    2
## Juárez Hidalgo                                           1                    1
## Lolotla                                                  0                    2
## Metepec                                                  0                    1
## San Agustín Metzquititlán                                1                    3
## Metztitlán                                               1                    3
## Mineral Del Chico                                        0                    0
## Mineral Del Monte                                        0                    1
## La Misión                                                0                    2
## Mixquiahuala De Juárez                                   2                    4
## Molango De Escamilla                                     1                    4
## Nicolás Flores                                           1                    1
## Nopala De Villagrán                                      0                    1
## San Felipe Orizatlán                                     1                    0
## Pacula                                                   1                    1
## Pachuca De Soto                                          1                    3
## Pisaflores                                               1                    4
## Progreso De Obregón                                      2                    4
## Mineral De La Reforma                                    1                    2
## San Agustín Tlaxiaca                                     0                    2
## San Bartolo Tutotepec                                    0                    1
## San Salvador                                             1                    3
## Santiago De Anaya                                        1                    2
## Santiago Tulantepec De Lugo Guerrero                     0                    1
## Singuilucan                                              1                    0
## Tasquillo                                                1                    2
## Tecozautla                                               1                    4
## Tenango De Doria                                         1                    3
## Tepeapulco                                               0                    0
## Tepehuacán De Guerrero                                   0                    2
## Tepeji Del Río De Ocampo                                 0                    0
## Tepetitlán                                               1                    2
## Tetepango                                                1                    2
## Villa De Tezontepec                                      2                    2
## Tezontepec De Aldama                                     2                    3
## Tianguistengo                                            1                    3
## Tizayuca                                                 2                    3
## Tlahuelilpan                                             0                    2
## Tlahuiltepa                                              1                    2
## Tlanalapa                                                1                    3
## Tlanchinol                                               1                    4
## Tlaxcoapan                                               1                    4
## Tolcayuca                                                0                    2
## Tula De Allende                                          2                    3
## Tulancingo De Bravo                                      0                    3
## Xochiatipan                                              1                    3
## Xochicoatlán                                             1                    3
## Yahualica                                                1                    3
## Zacualtipán De Ángeles                                   0                    3
## Zapotlán De Juárez                                       2                    3
## Zempoala                                                 1                    3
## Zimapán                                                  0                    0
##                                      Pacula Pachuca De Soto Pisaflores
## Acatlán                                   0               3          0
## Acaxochitlán                              0               4          1
## Actopan                                   1               8          2
## Agua Blanca De Iturbide                   0               2          1
## Ajacuba                                   1               1          1
## Alfajayucan                               1               5          2
## Almoloya                                  1               4          2
## Apan                                      1              11          2
```

```
## El Arenal                                  1              1          1
## Atitalaquia                                0             15          0
## Atlapexco                                  1              2          4
## Atotonilco El Grande                       1              3          3
## Atotonilco De Tula                         1             13          2
## Calnali                                    1              1          4
## Cardonal                                   1              2          1
## Cuautepec De Hinojosa                      0              5          1
## Chapantongo                                1              0          1
## Chapulhuacán                               1              1          4
## Chilcuautla                                1              1          2
## Eloxochitlán                               1              0          3
## Emiliano Zapata                            0              5          1
## Epazoyucan                                 0              3          0
## Francisco I. Madero                        1              4          2
## Huasca De Ocampo                           1              1          2
## Huautla                                    1              2          4
## Huazalingo                                 1              0          3
## Huehuetla                                  1              1          3
## Huejutla De Reyes                          1             18          4
## Huichapan                                  1             11          2
## Ixmiquilpan                                1              3          3
## Jacala De Ledezma                          1              3          4
## Jaltocán                                   0              1          2
## Juárez Hidalgo                             1              0          1
## Lolotla                                    0              0          2
## Metepec                                    0              7          1
## San Agustín Metzquititlán                  1              3          4
## Metztitlán                                 1              2          4
## Mineral Del Chico                          0              0          1
## Mineral Del Monte                          0              1          1
## La Misión                                  0              0          2
## Mixquiahuala De Juárez                     1              9          2
## Molango De Escamilla                       1              1          4
## Nicolás Flores                             1              2          2
## Nopala De Villagrán                        1              1          1
## San Felipe Orizatlán                       1              3          4
## Pacula                                     0              0          1
## Pachuca De Soto                            0              0          1
## Pisaflores                                 1              1          0
## Progreso De Obregón                        1              5          2
## Mineral De La Reforma                      0             23          1
## San Agustín Tlaxiaca                       0              7          1
## San Bartolo Tutotepec                      0              0          1
## San Salvador                               1              3          2
## Santiago De Anaya                          1              2          2
## Santiago Tulantepec De Lugo Guerrero       0              8          1
## Singuilucan                                0              4          0
## Tasquillo                                  1              1          2
## Tecozautla                                 1              6          3
## Tenango De Doria                           1              1          3
## Tepeapulco                                 0              3          0
## Tepehuacán De Guerrero                     0              0          2
## Tepeji Del Río De Ocampo                   0             13          0
## Tepetitlán                                 1              1          2
## Tetepango                                  1              1          2
## Villa De Tezontepec                        1              5          2
## Tezontepec De Aldama                       1              3          2
## Tianguistengo                              1              0          3
## Tizayuca                                   0             37          1
## Tlahuelilpan                               0              5          1
## Tlahuiltepa                                1              0          3
## Tlanalapa                                  1              6          2
## Tlanchinol                                 1              1          4
## Tlaxcoapan                                 1              4          2
## Tolcayuca                                  0              7          1
## Tula De Allende                            1             16          2
## Tulancingo De Bravo                        0             20          1
## Xochiatipan                                1              0          3
## Xochicoatlán                               1              0          3
## Yahualica                                  1              0          3
## Zacualtipán De Ángeles                     0              1          3
## Zapotlán De Juárez                         1              3          2
## Zempoala                                   1              7          2
## Zimapán                                    0              2          1
##                                      Progreso De Obregón Mineral De La Reforma
## Acatlán                                                2                     2
## Acaxochitlán                                           3                     4
## Actopan                                                8                     6
```

```
## Agua Blanca De Iturbide                          1                    2
## Ajacuba                                          6                    2
## Alfajayucan                                      4                    3
## Almoloya                                         5                    3
## Apan                                             5                    5
## El Arenal                                        3                    1
## Atitalaquia                                      0                   10
## Atlapexco                                        2                    1
## Atotonilco El Grande                             7                    4
## Atotonilco De Tula                               8                    6
## Calnali                                          4                    1
## Cardonal                                         2                    1
## Cuautepec De Hinojosa                            6                    5
## Chapantongo                                      1                    1
## Chapulhuacán                                     2                    0
## Chilcuautla                                      6                    1
## Eloxochitlán                                     4                    0
## Emiliano Zapata                                  1                    1
## Epazoyucan                                       0                    0
## Francisco I. Madero                              7                    3
## Huasca De Ocampo                                 3                    1
## Huautla                                          2                    1
## Huazalingo                                       1                    0
## Huehuetla                                        2                    1
## Huejutla De Reyes                                5                    6
## Huichapan                                        6                    4
## Ixmiquilpan                                      7                    2
## Jacala De Ledezma                                3                    2
## Jaltocán                                         0                    0
## Juárez Hidalgo                                   3                    0
## Lolotla                                          2                    0
## Metepec                                          3                    2
## San Agustín Metzquititlán                        5                    3
## Metztitlán                                       4                    2
## Mineral Del Chico                                0                    0
## Mineral Del Monte                                1                    1
## La Misión                                        1                    0
## Mixquiahuala De Juárez                           9                    5
## Molango De Escamilla                             4                    1
## Nicolás Flores                                   1                    1
## Nopala De Villagrán                              2                    1
## San Felipe Orizatlán                             4                    2
## Pacula                                           1                    0
## Pachuca De Soto                                  5                   23
## Pisaflores                                       2                    1
## Progreso De Obregón                              0                    2
## Mineral De La Reforma                            2                    0
## San Agustín Tlaxiaca                             2                    2
## San Bartolo Tutotepec                            0                    0
## San Salvador                                     6                    4
## Santiago De Anaya                                4                    2
## Santiago Tulantepec De Lugo Guerrero             4                    4
## Singuilucan                                      2                    1
## Tasquillo                                        4                    2
## Tecozautla                                       8                    3
## Tenango De Doria                                 2                    1
## Tepeapulco                                       0                    1
## Tepehuacán De Guerrero                           2                    0
## Tepeji Del Río De Ocampo                         0                   15
## Tepetitlán                                       6                    1
## Tetepango                                        6                    2
## Villa De Tezontepec                              3                    1
## Tezontepec De Aldama                             8                    2
## Tianguistengo                                    3                    0
## Tizayuca                                         3                   21
## Tlahuelilpan                                     2                    2
## Tlahuiltepa                                      3                    0
## Tlanalapa                                        3                    1
## Tlanchinol                                       4                    1
## Tlaxcoapan                                       8                    2
## Tolcayuca                                        2                    5
## Tula De Allende                                  8                    8
## Tulancingo De Bravo                              6                   11
## Xochiatipan                                      1                    0
## Xochicoatlán                                     3                    0
## Yahualica                                        1                    0
## Zacualtipán De Ángeles                           2                    3
## Zapotlán De Juárez                               4                    1
## Zempoala                                         4                    3
```

```
## Zimapán                                                  0                     1
##                                       San Agustín Tlaxiaca San Bartolo Tutotepec
## Acatlán                                                  1                     0
## Acaxochitlán                                             3                     0
## Actopan                                                  3                     0
## Agua Blanca De Iturbide                                  1                     1
## Ajacuba                                                  1                     0
## Alfajayucan                                              1                     0
## Almoloya                                                 3                     1
## Apan                                                     5                     0
## El Arenal                                                1                     0
## Atitalaquia                                              0                     0
## Atlapexco                                                2                     1
## Atotonilco El Grande                                     2                     0
## Atotonilco De Tula                                       2                     0
## Calnali                                                  1                     1
## Cardonal                                                 2                     0
## Cuautepec De Hinojosa                                    5                     0
## Chapantongo                                              0                     0
## Chapulhuacán                                             1                     1
## Chilcuautla                                              1                     0
## Eloxochitlán                                             0                     0
## Emiliano Zapata                                          3                     0
## Epazoyucan                                               2                     0
## Francisco I. Madero                                      3                     0
## Huasca De Ocampo                                         1                     0
## Huautla                                                  2                     1
## Huazalingo                                               0                     1
## Huehuetla                                                1                     1
## Huejutla De Reyes                                        2                     1
## Huichapan                                                4                     0
## Ixmiquilpan                                              2                     1
## Jacala De Ledezma                                        2                     0
## Jaltocán                                                 0                     1
## Juárez Hidalgo                                           0                     0
## Lolotla                                                  0                     1
## Metepec                                                  2                     0
## San Agustín Metzquititlán                                2                     0
## Metztitlán                                               2                     0
## Mineral Del Chico                                        0                     0
## Mineral Del Monte                                        1                     0
## La Misión                                                0                     1
## Mixquiahuala De Juárez                                   2                     0
## Molango De Escamilla                                     1                     1
## Nicolás Flores                                           2                     0
## Nopala De Villagrán                                      0                     0
## San Felipe Orizatlán                                     2                     1
## Pacula                                                   0                     0
## Pachuca De Soto                                          7                     0
## Pisaflores                                               1                     1
## Progreso De Obregón                                      2                     0
## Mineral De La Reforma                                    2                     0
## San Agustín Tlaxiaca                                     0                     0
## San Bartolo Tutotepec                                    0                     0
## San Salvador                                             2                     0
## Santiago De Anaya                                        2                     0
## Santiago Tulantepec De Lugo Guerrero                     1                     0
## Singuilucan                                              1                     0
## Tasquillo                                                1                     0
## Tecozautla                                               4                     1
## Tenango De Doria                                         1                     1
## Tepeapulco                                               0                     0
## Tepehuacán De Guerrero                                   0                     1
## Tepeji Del Río De Ocampo                                 0                     0
## Tepetitlán                                               1                     0
## Tetepango                                                1                     0
## Villa De Tezontepec                                      3                     0
## Tezontepec De Aldama                                     2                     0
## Tianguistengo                                            0                     1
## Tizayuca                                                 4                     0
## Tlahuelilpan                                             2                     0
## Tlahuiltepa                                              0                     1
## Tlanalapa                                                4                     0
## Tlanchinol                                               1                     1
## Tlaxcoapan                                               2                     0
## Tolcayuca                                                4                     0
## Tula De Allende                                          2                     0
## Tulancingo De Bravo                                      5                     0
## Xochiatipan                                              0                     1
```

```
## Xochicoatlán                                          0                    1
## Yahualica                                             0                    1
## Zacualtipán De Ángeles                                1                    1
## Zapotlán De Juárez                                    3                    0
## Zempoala                                              6                    0
## Zimapán                                               2                    1
##                                      San Salvador Santiago De Anaya
## Acatlán                                         4                 2
## Acaxochitlán                                    4                 2
## Actopan                                         7                 5
## Agua Blanca De Iturbide                         2                 1
## Ajacuba                                         6                 3
## Alfajayucan                                     5                 4
## Almoloya                                        5                 4
## Apan                                            3                 3
## El Arenal                                       4                 4
## Atitalaquia                                     0                 0
## Atlapexco                                       2                 2
## Atotonilco El Grande                            7                 5
## Atotonilco De Tula                              6                 4
## Calnali                                         4                 3
## Cardonal                                        2                 2
## Cuautepec De Hinojosa                           4                 3
## Chapantongo                                     1                 1
## Chapulhuacán                                    1                 1
## Chilcuautla                                     6                 4
## Eloxochitlán                                    3                 2
## Emiliano Zapata                                 1                 1
## Epazoyucan                                      0                 0
## Francisco I. Madero                             7                 5
## Huasca De Ocampo                                4                 3
## Huautla                                         2                 2
## Huazalingo                                      1                 1
## Huehuetla                                       2                 2
## Huejutla De Reyes                               4                 2
## Huichapan                                       6                 4
## Ixmiquilpan                                     6                 4
## Jacala De Ledezma                               3                 2
## Jaltocán                                        0                 0
## Juárez Hidalgo                                  3                 2
## Lolotla                                         2                 1
## Metepec                                         5                 3
## San Agustín Metzquititlán                       5                 4
## Metztitlán                                      4                 4
## Mineral Del Chico                               0                 0
## Mineral Del Monte                               1                 1
## La Misión                                       1                 1
## Mixquiahuala De Juárez                          7                 4
## Molango De Escamilla                            4                 3
## Nicolás Flores                                  2                 2
## Nopala De Villagrán                             1                 1
## San Felipe Orizatlán                            3                 2
## Pacula                                          1                 1
## Pachuca De Soto                                 3                 2
## Pisaflores                                      2                 2
## Progreso De Obregón                             6                 4
## Mineral De La Reforma                           4                 2
## San Agustín Tlaxiaca                            2                 2
## San Bartolo Tutotepec                           0                 0
## San Salvador                                    0                 5
## Santiago De Anaya                               5                 0
## Santiago Tulantepec De Lugo Guerrero            3                 2
## Singuilucan                                     0                 0
## Tasquillo                                       4                 4
## Tecozautla                                      8                 5
## Tenango De Doria                                2                 2
## Tepeapulco                                      1                 0
## Tepehuacán De Guerrero                          2                 1
## Tepeji Del Río De Ocampo                        1                 0
## Tepetitlán                                      5                 4
## Tetepango                                       5                 4
## Villa De Tezontepec                             2                 2
## Tezontepec De Aldama                            7                 4
## Tianguistengo                                   3                 2
## Tizayuca                                        2                 1
## Tlahuelilpan                                    1                 1
## Tlahuiltepa                                     3                 2
## Tlanalapa                                       2                 2
## Tlanchinol                                      4                 3
```

```
## Tlaxcoapan                                    7                 4
## Tolcayuca                                     3                 2
## Tula De Allende                               8                 4
## Tulancingo De Bravo                           6                 4
## Xochiatipan                                   1                 1
## Xochicoatlán                                  3                 2
## Yahualica                                     1                 1
## Zacualtipán De Ángeles                        2                 1
## Zapotlán De Juárez                            2                 2
## Zempoala                                      5                 3
## Zimapán                                       1                 1
##                                     Santiago Tulantepec De Lugo Guerrero
## Acatlán                                                                 3
## Acaxochitlán                                                            3
## Actopan                                                                 3
## Agua Blanca De Iturbide                                                 0
## Ajacuba                                                                 2
## Alfajayucan                                                             3
## Almoloya                                                                2
## Apan                                                                    1
## El Arenal                                                               1
## Atitalaquia                                                             0
## Atlapexco                                                               1
## Atotonilco El Grande                                                    3
## Atotonilco De Tula                                                      6
## Calnali                                                                 2
## Cardonal                                                                2
## Cuautepec De Hinojosa                                                   5
## Chapantongo                                                             0
## Chapulhuacán                                                            0
## Chilcuautla                                                             2
## Eloxochitlán                                                            1
## Emiliano Zapata                                                         1
## Epazoyucan                                                              0
## Francisco I. Madero                                                     3
## Huasca De Ocampo                                                        1
## Huautla                                                                 1
## Huazalingo                                                              0
## Huehuetla                                                               1
## Huejutla De Reyes                                                       6
## Huichapan                                                               5
## Ixmiquilpan                                                             3
## Jacala De Ledezma                                                       1
## Jaltocán                                                                0
## Juárez Hidalgo                                                          1
## Lolotla                                                                 1
## Metepec                                                                 8
## San Agustín Metzquititlán                                               2
## Metztitlán                                                              1
## Mineral Del Chico                                                       0
## Mineral Del Monte                                                       1
## La Misión                                                               0
## Mixquiahuala De Juárez                                                  3
## Molango De Escamilla                                                    2
## Nicolás Flores                                                          0
## Nopala De Villagrán                                                     0
## San Felipe Orizatlán                                                    1
## Pacula                                                                  0
## Pachuca De Soto                                                         8
## Pisaflores                                                              1
## Progreso De Obregón                                                     4
## Mineral De La Reforma                                                   4
## San Agustín Tlaxiaca                                                    1
## San Bartolo Tutotepec                                                   0
## San Salvador                                                            3
## Santiago De Anaya                                                       2
## Santiago Tulantepec De Lugo Guerrero                                    0
## Singuilucan                                                             0
## Tasquillo                                                               2
## Tecozautla                                                              3
## Tenango De Doria                                                        1
## Tepeapulco                                                              3
## Tepehuacán De Guerrero                                                  1
## Tepeji Del Río De Ocampo                                                3
## Tepetitlán                                                              3
## Tetepango                                                               3
## Villa De Tezontepec                                                     1
## Tezontepec De Aldama                                                    3
## Tianguistengo                                                           1
```

```
## Tizayuca                                                                  7
## Tlahuelilpan                                                              2
## Tlahuiltepa                                                               1
## Tlanalapa                                                                 1
## Tlanchinol                                                                2
## Tlaxcoapan                                                                3
## Tolcayuca                                                                 1
## Tula De Allende                                                           9
## Tulancingo De Bravo                                                       8
## Xochiatipan                                                               0
## Xochicoatlán                                                              1
## Yahualica                                                                 0
## Zacualtipán De Ángeles                                                    2
## Zapotlán De Juárez                                                        1
## Zempoala                                                                  2
## Zimapán                                                                   0
##                                      Singuilucan Tasquillo Tecozautla
## Acatlán                                        0         1          4
## Acaxochitlán                                   0         1          5
## Actopan                                        1         4          8
## Agua Blanca De Iturbide                        0         0          2
## Ajacuba                                        1         3          7
## Alfajayucan                                    0         4          5
## Almoloya                                       2         3          7
## Apan                                           6         2          5
## El Arenal                                      0         3          4
## Atitalaquia                                    2         0          0
## Atlapexco                                      0         2          3
## Atotonilco El Grande                           1         4          9
## Atotonilco De Tula                             1         5          7
## Calnali                                        0         3          4
## Cardonal                                       0         2          3
## Cuautepec De Hinojosa                          3         2          8
## Chapantongo                                    0         1          2
## Chapulhuacán                                   0         1          3
## Chilcuautla                                    2         3          8
## Eloxochitlán                                   1         2          5
## Emiliano Zapata                                1         1          2
## Epazoyucan                                     1         0          2
## Francisco I. Madero                            1         4          8
## Huasca De Ocampo                               0         2          5
## Huautla                                        0         2          3
## Huazalingo                                     0         1          1
## Huehuetla                                      0         2          2
## Huejutla De Reyes                              2         2          5
## Huichapan                                      1         3          8
## Ixmiquilpan                                    2         4          9
## Jacala De Ledezma                              0         2          5
## Jaltocán                                       1         0          0
## Juárez Hidalgo                                 0         2          3
## Lolotla                                        0         1          2
## Metepec                                        0         2          6
## San Agustín Metzquititlán                      1         3          7
## Metztitlán                                     1         3          6
## Mineral Del Chico                              0         0          1
## Mineral Del Monte                              0         1          1
## La Misión                                      0         1          1
## Mixquiahuala De Juárez                         4         4          9
## Molango De Escamilla                           0         3          4
## Nicolás Flores                                 0         1          4
## Nopala De Villagrán                            1         1          1
## San Felipe Orizatlán                           0         2          4
## Pacula                                         0         1          1
## Pachuca De Soto                                4         1          6
## Pisaflores                                     0         2          3
## Progreso De Obregón                            2         4          8
## Mineral De La Reforma                          1         2          3
## San Agustín Tlaxiaca                           1         1          4
## San Bartolo Tutotepec                          0         0          1
## San Salvador                                   0         4          8
## Santiago De Anaya                              0         4          5
## Santiago Tulantepec De Lugo Guerrero           0         2          3
## Singuilucan                                    0         0          1
## Tasquillo                                      0         0          4
## Tecozautla                                     1         4          0
## Tenango De Doria                               0         2          2
## Tepeapulco                                     0         0          0
## Tepehuacán De Guerrero                         0         1          2
## Tepeji Del Río De Ocampo                       1         0          1
```

```
## Tepetitlán                                    1         4          6
## Tetepango                                     1         5          6
## Villa De Tezontepec                           2         2          3
## Tezontepec De Aldama                          2         4          9
## Tianguistengo                                 0         2          3
## Tizayuca                                      2         1          4
## Tlahuelilpan                                  0         1          2
## Tlahuiltepa                                   0         2          4
## Tlanalapa                                     1         2          4
## Tlanchinol                                    0         3          4
## Tlaxcoapan                                    1         4          9
## Tolcayuca                                     1         1          3
## Tula De Allende                               1         4          7
## Tulancingo De Bravo                           4         4          8
## Xochiatipan                                   0         1          1
## Xochicoatlán                                  0         2          3
## Yahualica                                     0         1          2
## Zacualtipán De Ángeles                        0         1          2
## Zapotlán De Juárez                            2         2          3
## Zempoala                                      1         2          6
## Zimapán                                       0         0          4
##                                       Tenango De Doria Tepeapulco
## Acatlán                                               0          1
## Acaxochitlán                                          1          0
## Actopan                                               2          0
## Agua Blanca De Iturbide                               1          0
## Ajacuba                                               1          0
## Alfajayucan                                           2          1
## Almoloya                                              2          0
## Apan                                                  2          0
## El Arenal                                             1          0
## Atitalaquia                                           0          0
## Atlapexco                                             3          0
## Atotonilco El Grande                                  2          0
## Atotonilco De Tula                                    2          7
## Calnali                                               3          0
## Cardonal                                              1          1
## Cuautepec De Hinojosa                                 1          0
## Chapantongo                                           1          0
## Chapulhuacán                                          2          0
## Chilcuautla                                           1          0
## Eloxochitlán                                          1          0
## Emiliano Zapata                                       1          0
## Epazoyucan                                            0          0
## Francisco I. Madero                                   2          0
## Huasca De Ocampo                                      1          0
## Huautla                                               3          0
## Huazalingo                                            2          0
## Huehuetla                                             3          0
## Huejutla De Reyes                                     3          0
## Huichapan                                             2          0
## Ixmiquilpan                                           2          0
## Jacala De Ledezma                                     2          0
## Jaltocán                                              1          0
## Juárez Hidalgo                                        1          0
## Lolotla                                               1          0
## Metepec                                               1          0
## San Agustín Metzquititlán                             2          0
## Metztitlán                                            2          0
## Mineral Del Chico                                     0          0
## Mineral Del Monte                                     1          0
## La Misión                                             1          0
## Mixquiahuala De Juárez                                2          0
## Molango De Escamilla                                  3          0
## Nicolás Flores                                        1          0
## Nopala De Villagrán                                   1          0
## San Felipe Orizatlán                                  3          0
## Pacula                                                1          0
## Pachuca De Soto                                       1          3
## Pisaflores                                            3          0
## Progreso De Obregón                                   2          0
## Mineral De La Reforma                                 1          1
## San Agustín Tlaxiaca                                  1          0
## San Bartolo Tutotepec                                 1          0
## San Salvador                                          2          1
## Santiago De Anaya                                     2          0
## Santiago Tulantepec De Lugo Guerrero                  1          3
## Singuilucan                                           0          0
## Tasquillo                                             2          0
```

```
## Tecozautla                                          2          0
## Tenango De Doria                                    0          0
## Tepeapulco                                          0          0
## Tepehuacán De Guerrero                              1          0
## Tepeji Del Río De Ocampo                            0          2
## Tepetitlán                                          2          0
## Tetepango                                           2          0
## Villa De Tezontepec                                 2          0
## Tezontepec De Aldama                                2          0
## Tianguistengo                                       2          0
## Tizayuca                                            1          5
## Tlahuelilpan                                        1          2
## Tlahuiltepa                                         2          0
## Tlanalapa                                           2          0
## Tlanchinol                                          3          0
## Tlaxcoapan                                          2          0
## Tolcayuca                                           1          0
## Tula De Allende                                     2          4
## Tulancingo De Bravo                                 1          2
## Xochiatipan                                         2          0
## Xochicoatlán                                        2          0
## Yahualica                                           2          0
## Zacualtipán De Ángeles                              2          0
## Zapotlán De Juárez                                  2          0
## Zempoala                                            2          0
## Zimapán                                             0          0
##                                       Tepehuacán De Guerrero
## Acatlán                                                    1
## Acaxochitlán                                               1
## Actopan                                                    2
## Agua Blanca De Iturbide                                    1
## Ajacuba                                                    2
## Alfajayucan                                                1
## Almoloya                                                   1
## Apan                                                       0
## El Arenal                                                  1
## Atitalaquia                                                0
## Atlapexco                                                  2
## Atotonilco El Grande                                       2
## Atotonilco De Tula                                         2
## Calnali                                                    4
## Cardonal                                                   0
## Cuautepec De Hinojosa                                      1
## Chapantongo                                                0
## Chapulhuacán                                               2
## Chilcuautla                                                2
## Eloxochitlán                                               3
## Emiliano Zapata                                            0
## Epazoyucan                                                 0
## Francisco I. Madero                                        2
## Huasca De Ocampo                                           2
## Huautla                                                    2
## Huazalingo                                                 2
## Huehuetla                                                  1
## Huejutla De Reyes                                          2
## Huichapan                                                  1
## Ixmiquilpan                                                1
## Jacala De Ledezma                                          1
## Jaltocán                                                   2
## Juárez Hidalgo                                             2
## Lolotla                                                    4
## Metepec                                                    1
## San Agustín Metzquititlán                                  3
## Metztitlán                                                 2
## Mineral Del Chico                                          0
## Mineral Del Monte                                          0
## La Misión                                                  3
## Mixquiahuala De Juárez                                     2
## Molango De Escamilla                                       4
## Nicolás Flores                                             0
## Nopala De Villagrán                                        0
## San Felipe Orizatlán                                       2
## Pacula                                                     0
## Pachuca De Soto                                            0
## Pisaflores                                                 2
## Progreso De Obregón                                        2
## Mineral De La Reforma                                      0
## San Agustín Tlaxiaca                                       0
## San Bartolo Tutotepec                                      1
```

```
## San Salvador                                          2
## Santiago De Anaya                                     1
## Santiago Tulantepec De Lugo Guerrero                  1
## Singuilucan                                           0
## Tasquillo                                             1
## Tecozautla                                            2
## Tenango De Doria                                      1
## Tepeapulco                                            0
## Tepehuacán De Guerrero                                0
## Tepeji Del Río De Ocampo                              0
## Tepetitlán                                            2
## Tetepango                                             2
## Villa De Tezontepec                                   0
## Tezontepec De Aldama                                  2
## Tianguistengo                                         4
## Tizayuca                                              0
## Tlahuelilpan                                          0
## Tlahuiltepa                                           3
## Tlanalapa                                             0
## Tlanchinol                                            4
## Tlaxcoapan                                            2
## Tolcayuca                                             0
## Tula De Allende                                       2
## Tulancingo De Bravo                                   2
## Xochiatipan                                           2
## Xochicoatlán                                          5
## Yahualica                                             2
## Zacualtipán De Ángeles                                3
## Zapotlán De Juárez                                    0
## Zempoala                                              1
## Zimapán                                               0
##                                     Tepeji Del Río De Ocampo Tepetitlán
## Acatlán                                                    1          2
## Acaxochitlán                                               2          2
## Actopan                                                    4          5
## Agua Blanca De Iturbide                                    0          0
## Ajacuba                                                    1          5
## Alfajayucan                                                1          4
## Almoloya                                                   0          4
## Apan                                                       2          3
## El Arenal                                                  0          3
## Atitalaquia                                                3          0
## Atlapexco                                                  0          2
## Atotonilco El Grande                                       1          6
## Atotonilco De Tula                                         4          5
## Calnali                                                    0          4
## Cardonal                                                   1          2
## Cuautepec De Hinojosa                                      4          4
## Chapantongo                                                2          1
## Chapulhuacán                                               0          1
## Chilcuautla                                                0          5
## Eloxochitlán                                               0          4
## Emiliano Zapata                                            1          1
## Epazoyucan                                                 0          0
## Francisco I. Madero                                        0          5
## Huasca De Ocampo                                           0          3
## Huautla                                                    0          2
## Huazalingo                                                 0          1
## Huehuetla                                                  0          2
## Huejutla De Reyes                                          1          2
## Huichapan                                                  1          3
## Ixmiquilpan                                                0          5
## Jacala De Ledezma                                          0          2
## Jaltocán                                                   0          0
## Juárez Hidalgo                                             0          3
## Lolotla                                                    0          2
## Metepec                                                    2          3
## San Agustín Metzquititlán                                  0          5
## Metztitlán                                                 0          4
## Mineral Del Chico                                          0          0
## Mineral Del Monte                                          0          1
## La Misión                                                  0          1
## Mixquiahuala De Juárez                                     2          6
## Molango De Escamilla                                       0          4
## Nicolás Flores                                             0          1
## Nopala De Villagrán                                        0          1
## San Felipe Orizatlán                                       0          2
## Pacula                                                     0          1
## Pachuca De Soto                                           13          1
```

```
## Pisaflores                                                  0          2
## Progreso De Obregón                                         0          6
## Mineral De La Reforma                                      15          1
## San Agustín Tlaxiaca                                        0          1
## San Bartolo Tutotepec                                       0          0
## San Salvador                                                1          5
## Santiago De Anaya                                           0          4
## Santiago Tulantepec De Lugo Guerrero                        3          3
## Singuilucan                                                 1          1
## Tasquillo                                                   0          4
## Tecozautla                                                  1          6
## Tenango De Doria                                            0          2
## Tepeapulco                                                  2          0
## Tepehuacán De Guerrero                                      0          2
## Tepeji Del Río De Ocampo                                    0          0
## Tepetitlán                                                  0          0
## Tetepango                                                   0          6
## Villa De Tezontepec                                         0          2
## Tezontepec De Aldama                                        0          6
## Tianguistengo                                               0          3
## Tizayuca                                                   21          1
## Tlahuelilpan                                                1          1
## Tlahuiltepa                                                 0          3
## Tlanalapa                                                   1          2
## Tlanchinol                                                  0          4
## Tlaxcoapan                                                  0          6
## Tolcayuca                                                   2          1
## Tula De Allende                                             8          5
## Tulancingo De Bravo                                         6          4
## Xochiatipan                                                 0          1
## Xochicoatlán                                                0          3
## Yahualica                                                   1          1
## Zacualtipán De Ángeles                                      2          2
## Zapotlán De Juárez                                          1          2
## Zempoala                                                    0          3
## Zimapán                                                     0          0
##                                       Tetepango Villa De Tezontepec
## Acatlán                                       2                   0
## Acaxochitlán                                  2                   1
## Actopan                                       5                   3
## Agua Blanca De Iturbide                       0                   0
## Ajacuba                                       5                   1
## Alfajayucan                                   4                   2
## Almoloya                                      4                   3
## Apan                                          3                   4
## El Arenal                                     3                   1
## Atitalaquia                                   0                   0
## Atlapexco                                     2                   3
## Atotonilco El Grande                          6                   2
## Atotonilco De Tula                            6                   3
## Calnali                                       4                   2
## Cardonal                                      2                   2
## Cuautepec De Hinojosa                         4                   4
## Chapantongo                                   1                   1
## Chapulhuacán                                  1                   1
## Chilcuautla                                   5                   2
## Eloxochitlán                                  4                   1
## Emiliano Zapata                               1                   3
## Epazoyucan                                    0                   2
## Francisco I. Madero                           5                   4
## Huasca De Ocampo                              3                   1
## Huautla                                       2                   3
## Huazalingo                                    1                   1
## Huehuetla                                     2                   2
## Huejutla De Reyes                             2                   2
## Huichapan                                     3                   4
## Ixmiquilpan                                   5                   3
## Jacala De Ledezma                             2                   3
## Jaltocán                                      0                   0
## Juárez Hidalgo                                3                   1
## Lolotla                                       2                   0
## Metepec                                       3                   1
## San Agustín Metzquititlán                     5                   2
## Metztitlán                                    4                   2
## Mineral Del Chico                             0                   0
## Mineral Del Monte                             1                   1
## La Misión                                     1                   0
## Mixquiahuala De Juárez                        6                   3
## Molango De Escamilla                          4                   2
```

```
## Nicolás Flores                              1                  2
## Nopala De Villagrán                         1                  2
## San Felipe Orizatlán                        2                  2
## Pacula                                      1                  1
## Pachuca De Soto                             1                  5
## Pisaflores                                  2                  2
## Progreso De Obregón                         6                  3
## Mineral De La Reforma                       2                  1
## San Agustín Tlaxiaca                        1                  3
## San Bartolo Tutotepec                       0                  0
## San Salvador                                5                  2
## Santiago De Anaya                           4                  2
## Santiago Tulantepec De Lugo Guerrero        3                  1
## Singuilucan                                 1                  2
## Tasquillo                                   5                  2
## Tecozautla                                  6                  3
## Tenango De Doria                            2                  2
## Tepeapulco                                  0                  0
## Tepehuacán De Guerrero                      2                  0
## Tepeji Del Río De Ocampo                    0                  0
## Tepetitlán                                  6                  2
## Tetepango                                   0                  2
## Villa De Tezontepec                         2                  0
## Tezontepec De Aldama                        6                  4
## Tianguistengo                               3                  1
## Tizayuca                                    1                  3
## Tlahuelilpan                                1                  1
## Tlahuiltepa                                 3                  1
## Tlanalapa                                   2                  4
## Tlanchinol                                  4                  2
## Tlaxcoapan                                  6                  2
## Tolcayuca                                   1                  2
## Tula De Allende                             5                  3
## Tulancingo De Bravo                         5                  3
## Xochiatipan                                 1                  1
## Xochicoatlán                                3                  1
## Yahualica                                   1                  1
## Zacualtipán De Ángeles                      2                  1
## Zapotlán De Juárez                          2                  4
## Zempoala                                    3                  5
## Zimapán                                     0                  1
##                                       Tezontepec De Aldama Tianguistengo
## Acatlán                                                  3             1
## Acaxochitlán                                             3             1
## Actopan                                                  7             3
## Agua Blanca De Iturbide                                  1             1
## Ajacuba                                                  7             3
## Alfajayucan                                              5             2
## Almoloya                                                 5             2
## Apan                                                     4             1
## El Arenal                                                3             2
## Atitalaquia                                              1             0
## Atlapexco                                                3             3
## Atotonilco El Grande                                     7             3
## Atotonilco De Tula                                       7             3
## Calnali                                                  4             5
## Cardonal                                                 3             1
## Cuautepec De Hinojosa                                    6             1
## Chapantongo                                              1             1
## Chapulhuacán                                             1             3
## Chilcuautla                                              7             3
## Eloxochitlán                                             4             4
## Emiliano Zapata                                          2             0
## Epazoyucan                                               1             0
## Francisco I. Madero                                      8             3
## Huasca De Ocampo                                         3             3
## Huautla                                                  3             3
## Huazalingo                                               1             3
## Huehuetla                                                2             2
## Huejutla De Reyes                                        4             3
## Huichapan                                                7             2
## Ixmiquilpan                                              8             2
## Jacala De Ledezma                                        4             2
## Jaltocán                                                 0             2
## Juárez Hidalgo                                           3             3
## Lolotla                                                  2             4
## Metepec                                                  4             1
## San Agustín Metzquititlán                                5             4
## Metztitlán                                               4             3
```

```
## Mineral Del Chico                                        0             0
## Mineral Del Monte                                        1             0
## La Misión                                                1             3
## Mixquiahuala De Juárez                                   9             3
## Molango De Escamilla                                     4             5
## Nicolás Flores                                           2             1
## Nopala De Villagrán                                      2             1
## San Felipe Orizatlán                                     3             3
## Pacula                                                   1             1
## Pachuca De Soto                                          3             0
## Pisaflores                                               2             3
## Progreso De Obregón                                      8             3
## Mineral De La Reforma                                    2             0
## San Agustín Tlaxiaca                                     2             0
## San Bartolo Tutotepec                                    0             1
## San Salvador                                             7             3
## Santiago De Anaya                                        4             2
## Santiago Tulantepec De Lugo Guerrero                     3             1
## Singuilucan                                              2             0
## Tasquillo                                                4             2
## Tecozautla                                               9             3
## Tenango De Doria                                         2             2
## Tepeapulco                                               0             0
## Tepehuacán De Guerrero                                   2             4
## Tepeji Del Río De Ocampo                                 0             0
## Tepetitlán                                               6             3
## Tetepango                                                6             3
## Villa De Tezontepec                                      4             1
## Tezontepec De Aldama                                     0             3
## Tianguistengo                                            3             0
## Tizayuca                                                 2             0
## Tlahuelilpan                                             1             0
## Tlahuiltepa                                              3             4
## Tlanalapa                                                3             1
## Tlanchinol                                               4             5
## Tlaxcoapan                                               8             3
## Tolcayuca                                                2             0
## Tula De Allende                                          8             3
## Tulancingo De Bravo                                      6             2
## Xochiatipan                                              1             3
## Xochicoatlán                                             3             5
## Yahualica                                                1             3
## Zacualtipán De Ángeles                                   2             3
## Zapotlán De Juárez                                       3             1
## Zempoala                                                 5             2
## Zimapán                                                  1             0
##                                       Tizayuca Tlahuelilpan Tlahuiltepa
## Acatlán                                      1            0           1
## Acaxochitlán                                 4            2           1
## Actopan                                      8            2           3
## Agua Blanca De Iturbide                      1            0           1
## Ajacuba                                      1            0           3
## Alfajayucan                                  2            2           2
## Almoloya                                     4            1           2
## Apan                                         8            2           1
## El Arenal                                    0            0           2
## Atitalaquia                                 14            0           0
## Atlapexco                                    1            1           2
## Atotonilco El Grande                         3            1           4
## Atotonilco De Tula                          15            2           3
## Calnali                                      1            1           4
## Cardonal                                     0            1           1
## Cuautepec De Hinojosa                        6            2           1
## Chapantongo                                  2            0           1
## Chapulhuacán                                 1            1           3
## Chilcuautla                                  0            0           4
## Eloxochitlán                                 0            0           4
## Emiliano Zapata                              4            1           0
## Epazoyucan                                   1            0           0
## Francisco I. Madero                          2            1           3
## Huasca De Ocampo                             0            0           4
## Huautla                                      1            1           2
## Huazalingo                                   0            0           2
## Huehuetla                                    1            1           2
## Huejutla De Reyes                           10            2           2
## Huichapan                                    5            2           2
## Ixmiquilpan                                  3            1           3
## Jacala De Ledezma                            2            1           2
## Jaltocán                                     1            0           1
```

```
## Juárez Hidalgo                              0           0           3
## Lolotla                                     0           0           3
## Metepec                                     3           1           1
## San Agustín Metzquititlán                   1           1           4
## Metztitlán                                  1           1           3
## Mineral Del Chico                           0           0           1
## Mineral Del Monte                           1           1           0
## La Misión                                   0           0           2
## Mixquiahuala De Juárez                      8           3           3
## Molango De Escamilla                        1           1           4
## Nicolás Flores                              0           0           2
## Nopala De Villagrán                         2           0           1
## San Felipe Orizatlán                        3           2           2
## Pacula                                      0           0           1
## Pachuca De Soto                            37           5           0
## Pisaflores                                  1           1           3
## Progreso De Obregón                         3           2           3
## Mineral De La Reforma                      21           2           0
## San Agustín Tlaxiaca                        4           2           0
## San Bartolo Tutotepec                       0           0           1
## San Salvador                                2           1           3
## Santiago De Anaya                           1           1           2
## Santiago Tulantepec De Lugo Guerrero        7           2           1
## Singuilucan                                 2           0           0
## Tasquillo                                   1           1           2
## Tecozautla                                  4           2           4
## Tenango De Doria                            1           1           2
## Tepeapulco                                  5           2           0
## Tepehuacán De Guerrero                      0           0           3
## Tepeji Del Río De Ocampo                   21           1           0
## Tepetitlán                                  1           1           3
## Tetepango                                   1           1           3
## Villa De Tezontepec                         3           1           1
## Tezontepec De Aldama                        2           1           3
## Tianguistengo                               0           0           4
## Tizayuca                                    0           4           0
## Tlahuelilpan                                4           0           0
## Tlahuiltepa                                 0           0           0
## Tlanalapa                                   3           2           1
## Tlanchinol                                  1           1           4
## Tlaxcoapan                                  4           2           3
## Tolcayuca                                   6           1           0
## Tula De Allende                            16           2           3
## Tulancingo De Bravo                        13           2           2
## Xochiatipan                                 0           0           2
## Xochicoatlán                                0           0           4
## Yahualica                                   1           0           2
## Zacualtipán De Ángeles                      1           1           2
## Zapotlán De Juárez                          3           2           1
## Zempoala                                    4           1           2
## Zimapán                                     0           0           1
##                                     Tlanalapa Tlanchinol Tlaxcoapan Tolcayuca
## Acatlán                                     0          1          3         1
## Acaxochitlán                                2          2          4         2
## Actopan                                     3          4          8         5
## Agua Blanca De Iturbide                     0          1          1         2
## Ajacuba                                     1          3          7         1
## Alfajayucan                                 2          3          5         1
## Almoloya                                    3          3          5         4
## Apan                                        4          2          5         4
## El Arenal                                   1          2          3         1
## Atitalaquia                                 0          0          1         1
## Atlapexco                                   3          4          2         1
## Atotonilco El Grande                        2          4          7         3
## Atotonilco De Tula                          3          4          6         4
## Calnali                                     2          6          4         1
## Cardonal                                    2          1          2         0
## Cuautepec De Hinojosa                       4          2          5         3
## Chapantongo                                 1          1          1         0
## Chapulhuacán                                2          3          2         0
## Chilcuautla                                 1          3          6         1
## Eloxochitlán                                1          4          4         0
## Emiliano Zapata                             3          1          1         2
## Epazoyucan                                  2          0          0         1
## Francisco I. Madero                         3          4          6         3
## Huasca De Ocampo                            1          3          3         1
## Huautla                                     3          4          2         1
## Huazalingo                                  1          3          1         0
## Huehuetla                                   2          3          2         1
```

```
## Huejutla De Reyes                          3          4          6         2
## Huichapan                                  4          3          6         3
## Ixmiquilpan                                2          3          7         2
## Jacala De Ledezma                          3          3          3         2
## Jaltocán                                   0          2          0         0
## Juárez Hidalgo                             1          3          3         0
## Lolotla                                    0          4          2         0
## Metepec                                    1          2          4         2
## San Agustín Metzquititlán                  2          5          5         2
## Metztitlán                                 2          4          4         2
## Mineral Del Chico                          0          0          0         0
## Mineral Del Monte                          1          1          1         1
## La Misión                                  0          3          1         0
## Mixquiahuala De Juárez                     3          4         10         2
## Molango De Escamilla                       2          6          4         1
## Nicolás Flores                             2          1          1         1
## Nopala De Villagrán                        1          1          1         0
## San Felipe Orizatlán                       3          4          4         2
## Pacula                                     1          1          1         0
## Pachuca De Soto                            6          1          4         7
## Pisaflores                                 2          4          2         1
## Progreso De Obregón                        3          4          8         2
## Mineral De La Reforma                      1          1          2         5
## San Agustín Tlaxiaca                       4          1          2         4
## San Bartolo Tutotepec                      0          1          0         0
## San Salvador                               2          4          7         3
## Santiago De Anaya                          2          3          4         2
## Santiago Tulantepec De Lugo Guerrero       1          2          3         1
## Singuilucan                                1          0          1         1
## Tasquillo                                  2          3          4         1
## Tecozautla                                 4          4          9         3
## Tenango De Doria                           2          3          2         1
## Tepeapulco                                 0          0          0         0
## Tepehuacán De Guerrero                     0          4          2         0
## Tepeji Del Río De Ocampo                   1          0          0         2
## Tepetitlán                                 2          4          6         1
## Tetepango                                  2          4          6         1
## Villa De Tezontepec                        4          2          2         2
## Tezontepec De Aldama                       3          4          8         2
## Tianguistengo                              1          5          3         0
## Tizayuca                                   3          1          4         6
## Tlahuelilpan                               2          1          2         1
## Tlahuiltepa                                1          4          3         0
## Tlanalapa                                  0          2          3         2
## Tlanchinol                                 2          0          4         1
## Tlaxcoapan                                 3          4          0         2
## Tolcayuca                                  2          1          2         0
## Tula De Allende                            2          4          7         4
## Tulancingo De Bravo                        4          3          7         5
## Xochiatipan                                1          3          1         0
## Xochicoatlán                               1          5          3         0
## Yahualica                                  1          3          1         0
## Zacualtipán De Ángeles                     1          4          2         1
## Zapotlán De Juárez                         4          2          3         2
## Zempoala                                   4          3          4         6
## Zimapán                                    1          0          0         1
##                                     Tula De Allende Tulancingo De Bravo
## Acatlán                                           3                  10
## Acaxochitlán                                      3                   5
## Actopan                                           8                  10
## Agua Blanca De Iturbide                           1                   2
## Ajacuba                                           6                   4
## Alfajayucan                                       7                   3
## Almoloya                                          4                   5
## Apan                                              4                  10
## El Arenal                                         3                   3
## Atitalaquia                                       2                   3
## Atlapexco                                         2                   2
## Atotonilco El Grande                              6                   6
## Atotonilco De Tula                               17                  12
## Calnali                                           4                   3
## Cardonal                                          2                   2
## Cuautepec De Hinojosa                             4                   8
## Chapantongo                                       1                   0
## Chapulhuacán                                      1                   1
## Chilcuautla                                       6                   4
## Eloxochitlán                                      3                   2
## Emiliano Zapata                                   1                   3
## Epazoyucan                                        0                   1
```

```
## Francisco I. Madero                                  7                   7
## Huasca De Ocampo                                     3                   3
## Huautla                                              2                   2
## Huazalingo                                           1                   0
## Huehuetla                                            2                   1
## Huejutla De Reyes                                    9                   9
## Huichapan                                           11                   7
## Ixmiquilpan                                          8                   4
## Jacala De Ledezma                                    3                   3
## Jaltocán                                             0                   1
## Juárez Hidalgo                                       3                   2
## Lolotla                                              2                   2
## Metepec                                              8                   6
## San Agustín Metzquititlán                            4                   4
## Metztitlán                                           3                   3
## Mineral Del Chico                                    0                   0
## Mineral Del Monte                                    1                   1
## La Misión                                            1                   1
## Mixquiahuala De Juárez                               8                  12
## Molango De Escamilla                                 4                   3
## Nicolás Flores                                       1                   2
## Nopala De Villagrán                                  2                   0
## San Felipe Orizatlán                                 3                   3
## Pacula                                               1                   0
## Pachuca De Soto                                     16                  20
## Pisaflores                                           2                   1
## Progreso De Obregón                                  8                   6
## Mineral De La Reforma                                8                  11
## San Agustín Tlaxiaca                                 2                   5
## San Bartolo Tutotepec                                0                   0
## San Salvador                                         8                   6
## Santiago De Anaya                                    4                   4
## Santiago Tulantepec De Lugo Guerrero                 9                   8
## Singuilucan                                          1                   4
## Tasquillo                                            4                   4
## Tecozautla                                           7                   8
## Tenango De Doria                                     2                   1
## Tepeapulco                                           4                   2
## Tepehuacán De Guerrero                               2                   2
## Tepeji Del Río De Ocampo                             8                   6
## Tepetitlán                                           5                   4
## Tetepango                                            5                   5
## Villa De Tezontepec                                  3                   3
## Tezontepec De Aldama                                 8                   6
## Tianguistengo                                        3                   2
## Tizayuca                                            16                  13
## Tlahuelilpan                                         2                   2
## Tlahuiltepa                                          3                   2
## Tlanalapa                                            2                   4
## Tlanchinol                                           4                   3
## Tlaxcoapan                                           7                   7
## Tolcayuca                                            4                   5
## Tula De Allende                                      0                   7
## Tulancingo De Bravo                                  7                   0
## Xochiatipan                                          1                   0
## Xochicoatlán                                         3                   2
## Yahualica                                            1                   0
## Zacualtipán De Ángeles                               2                   2
## Zapotlán De Juárez                                   3                   2
## Zempoala                                             5                   7
## Zimapán                                              0                   2
##                                       Xochiatipan Xochicoatlán Yahualica
## Acatlán                                         0            1         0
## Acaxochitlán                                    0            1         0
## Actopan                                         1            3         1
## Agua Blanca De Iturbide                         1            1         1
## Ajacuba                                         1            3         1
## Alfajayucan                                     1            2         1
## Almoloya                                        1            2         1
## Apan                                            1            1         1
## El Arenal                                       1            2         1
## Atitalaquia                                     0            0         0
## Atlapexco                                       3            3         3
## Atotonilco El Grande                            1            3         1
## Atotonilco De Tula                              1            3         1
## Calnali                                         3            5         3
## Cardonal                                        1            1         1
## Cuautepec De Hinojosa                           0            1         1
## Chapantongo                                     1            1         2
```

```
## Chapulhuacán                                  3            3         3
## Chilcuautla                                   1            3         1
## Eloxochitlán                                  2            4         2
## Emiliano Zapata                               0            0         0
## Epazoyucan                                    0            0         0
## Francisco I. Madero                           1            3         1
## Huasca De Ocampo                              1            3         1
## Huautla                                       3            3         3
## Huazalingo                                    3            3         3
## Huehuetla                                     2            2         2
## Huejutla De Reyes                             3            3         3
## Huichapan                                     1            2         1
## Ixmiquilpan                                   1            2         1
## Jacala De Ledezma                             2            2         2
## Jaltocán                                      2            2         2
## Juárez Hidalgo                                1            3         1
## Lolotla                                       2            4         2
## Metepec                                       0            1         0
## San Agustín Metzquititlán                     2            4         2
## Metztitlán                                    2            3         2
## Mineral Del Chico                             0            0         0
## Mineral Del Monte                             0            0         0
## La Misión                                     2            3         2
## Mixquiahuala De Juárez                        1            3         1
## Molango De Escamilla                          3            5         3
## Nicolás Flores                                1            1         1
## Nopala De Villagrán                           1            1         1
## San Felipe Orizatlán                          3            3         3
## Pacula                                        1            1         1
## Pachuca De Soto                               0            0         0
## Pisaflores                                    3            3         3
## Progreso De Obregón                           1            3         1
## Mineral De La Reforma                         0            0         0
## San Agustín Tlaxiaca                          0            0         0
## San Bartolo Tutotepec                         1            1         1
## San Salvador                                  1            3         1
## Santiago De Anaya                             1            2         1
## Santiago Tulantepec De Lugo Guerrero          0            1         0
## Singuilucan                                   0            0         0
## Tasquillo                                     1            2         1
## Tecozautla                                    1            3         2
## Tenango De Doria                              2            2         2
## Tepeapulco                                    0            0         0
## Tepehuacán De Guerrero                        2            5         2
## Tepeji Del Río De Ocampo                      0            0         1
## Tepetitlán                                    1            3         1
## Tetepango                                     1            3         1
## Villa De Tezontepec                           1            1         1
## Tezontepec De Aldama                          1            3         1
## Tianguistengo                                 3            5         3
## Tizayuca                                      0            0         1
## Tlahuelilpan                                  0            0         0
## Tlahuiltepa                                   2            4         2
## Tlanalapa                                     1            1         1
## Tlanchinol                                    3            5         3
## Tlaxcoapan                                    1            3         1
## Tolcayuca                                     0            0         0
## Tula De Allende                               1            3         1
## Tulancingo De Bravo                           0            2         0
## Xochiatipan                                   0            3         3
## Xochicoatlán                                  3            0         3
## Yahualica                                     3            3         0
## Zacualtipán De Ángeles                        2            3         2
## Zapotlán De Juárez                            1            1         1
## Zempoala                                      1            2         1
## Zimapán                                       0            0         0
##                                     Zacualtipán De Ángeles Zapotlán De Juárez
## Acatlán                                                  1                  0
## Acaxochitlán                                             2                  2
## Actopan                                                  3                  4
## Agua Blanca De Iturbide                                  1                  0
## Ajacuba                                                  2                  1
## Alfajayucan                                              1                  2
## Almoloya                                                 1                  3
## Apan                                                     1                  5
## El Arenal                                                0                  1
## Atitalaquia                                              0                  0
## Atlapexco                                                3                  2
## Atotonilco El Grande                                     2                  2
```

```
## Atotonilco De Tula                                        2                   3
## Calnali                                                   4                   2
## Cardonal                                                  0                   1
## Cuautepec De Hinojosa                                     3                   4
## Chapantongo                                               0                   1
## Chapulhuacán                                              2                   2
## Chilcuautla                                               1                   2
## Eloxochitlán                                              2                   1
## Emiliano Zapata                                           1                   2
## Epazoyucan                                                0                   1
## Francisco I. Madero                                       2                   3
## Huasca De Ocampo                                          1                   1
## Huautla                                                   3                   2
## Huazalingo                                                2                   1
## Huehuetla                                                 2                   2
## Huejutla De Reyes                                         3                   3
## Huichapan                                                 1                   4
## Ixmiquilpan                                               1                   3
## Jacala De Ledezma                                         2                   2
## Jaltocán                                                  2                   0
## Juárez Hidalgo                                            1                   1
## Lolotla                                                   3                   0
## Metepec                                                   2                   1
## San Agustín Metzquititlán                                 3                   2
## Metztitlán                                                2                   2
## Mineral Del Chico                                         0                   0
## Mineral Del Monte                                         1                   1
## La Misión                                                 2                   0
## Mixquiahuala De Juárez                                    2                   4
## Molango De Escamilla                                      4                   2
## Nicolás Flores                                            0                   1
## Nopala De Villagrán                                       0                   2
## San Felipe Orizatlán                                      3                   3
## Pacula                                                    0                   1
## Pachuca De Soto                                           1                   3
## Pisaflores                                                3                   2
## Progreso De Obregón                                       2                   4
## Mineral De La Reforma                                     3                   1
## San Agustín Tlaxiaca                                      1                   3
## San Bartolo Tutotepec                                     1                   0
## San Salvador                                              2                   2
## Santiago De Anaya                                         1                   2
## Santiago Tulantepec De Lugo Guerrero                      2                   1
## Singuilucan                                               0                   2
## Tasquillo                                                 1                   2
## Tecozautla                                                2                   3
## Tenango De Doria                                          2                   2
## Tepeapulco                                                0                   0
## Tepehuacán De Guerrero                                    3                   0
## Tepeji Del Río De Ocampo                                  2                   1
## Tepetitlán                                                2                   2
## Tetepango                                                 2                   2
## Villa De Tezontepec                                       1                   4
## Tezontepec De Aldama                                      2                   3
## Tianguistengo                                             3                   1
## Tizayuca                                                  1                   3
## Tlahuelilpan                                              1                   2
## Tlahuiltepa                                               2                   1
## Tlanalapa                                                 1                   4
## Tlanchinol                                                4                   2
## Tlaxcoapan                                                2                   3
## Tolcayuca                                                 1                   2
## Tula De Allende                                           2                   3
## Tulancingo De Bravo                                       2                   2
## Xochiatipan                                               2                   1
## Xochicoatlán                                              3                   1
## Yahualica                                                 2                   1
## Zacualtipán De Ángeles                                    0                   1
## Zapotlán De Juárez                                        1                   0
## Zempoala                                                  2                   3
## Zimapán                                                   0                   0
##                                      Zempoala Zimapán
## Acatlán                                     2       1
## Acaxochitlán                                3       1
## Actopan                                     6       1
## Agua Blanca De Iturbide                     2       1
## Ajacuba                                     4       0
## Alfajayucan                                 2       0
## Almoloya                                    5       2
```

```
## Apan                                        5       1
## El Arenal                                   2       1
## Atitalaquia                                 0       0
## Atlapexco                                   3       1
## Atotonilco El Grande                        5       2
## Atotonilco De Tula                          6       1
## Calnali                                     3       0
## Cardonal                                    3       1
## Cuautepec De Hinojosa                       5       2
## Chapantongo                                 1       0
## Chapulhuacán                                1       1
## Chilcuautla                                 3       2
## Eloxochitlán                                2       1
## Emiliano Zapata                             3       1
## Epazoyucan                                  2       1
## Francisco I. Madero                         6       2
## Huasca De Ocampo                            3       2
## Huautla                                     3       1
## Huazalingo                                  1       0
## Huehuetla                                   2       0
## Huejutla De Reyes                           3       0
## Huichapan                                   5       2
## Ixmiquilpan                                 4       2
## Jacala De Ledezma                           4       2
## Jaltocán                                    0       0
## Juárez Hidalgo                              2       0
## Lolotla                                     1       0
## Metepec                                     3       1
## San Agustín Metzquititlán                   4       2
## Metztitlán                                  3       2
## Mineral Del Chico                           0       1
## Mineral Del Monte                           1       0
## La Misión                                   0       0
## Mixquiahuala De Juárez                      4       0
## Molango De Escamilla                        3       0
## Nicolás Flores                              3       3
## Nopala De Villagrán                         1       0
## San Felipe Orizatlán                        3       0
## Pacula                                      1       0
## Pachuca De Soto                             7       2
## Pisaflores                                  2       1
## Progreso De Obregón                         4       0
## Mineral De La Reforma                       3       1
## San Agustín Tlaxiaca                        6       2
## San Bartolo Tutotepec                       0       1
## San Salvador                                5       1
## Santiago De Anaya                           3       1
## Santiago Tulantepec De Lugo Guerrero        2       0
## Singuilucan                                 1       0
## Tasquillo                                   2       0
## Tecozautla                                  6       4
## Tenango De Doria                            2       0
## Tepeapulco                                  0       0
## Tepehuacán De Guerrero                      1       0
## Tepeji Del Río De Ocampo                    0       0
## Tepetitlán                                  3       0
## Tetepango                                   3       0
## Villa De Tezontepec                         5       1
## Tezontepec De Aldama                        5       1
## Tianguistengo                               2       0
## Tizayuca                                    4       0
## Tlahuelilpan                                1       0
## Tlahuiltepa                                 2       1
## Tlanalapa                                   4       1
## Tlanchinol                                  3       0
## Tlaxcoapan                                  4       0
## Tolcayuca                                   6       1
## Tula De Allende                             5       0
## Tulancingo De Bravo                         7       2
## Xochiatipan                                 1       0
## Xochicoatlán                                2       0
## Yahualica                                   1       0
## Zacualtipán De Ángeles                      2       0
## Zapotlán De Juárez                          3       0
## Zempoala                                    0       2
## Zimapán                                     2       0
```

Co-ocurrencias entre los productos, deve ser transpuesta y crear un objeto c

```
c= co.occurrence(t(M))
```

Visualizar objeto c

```
c
```

```
##       X102 X210 X401 X403 X406 X510 X602 X603 X702 X703 X709 X712 X713 X804
## X102     0    0    1    1    0    0    0    0    1    0    0    0    0    0
## X210     0    0    0    2    1    0    0    0    1    0    0    0    0    0
## X401     1    0    0    1    0    0    0    0    1    0    0    0    0    0
## X403     1    2    1    0    1    0    0    0    2    0    0    0    1    0
## X406     0    1    0    1    0    0    0    0    2    0    0    0    0    0
## X510     0    0    0    0    0    0    0    0    0    0    0    0    1    0
## X602     0    0    0    0    0    0    0    0    2    1    2    0    4    1
## X603     0    0    0    0    0    0    0    0    0    0    0    0    0    1
## X702     1    1    1    2    2    0    2    0    0    3   14    0   16    8
## X703     0    0    0    0    0    0    1    0    3    0    3    0    3    3
## X709     0    0    0    0    0    0    2    0   14    3    0    0   33    9
## X712     0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X713     0    0    0    1    0    1    4    0   16    3   33    0    0   13
## X804     0    0    0    0    0    0    1    1    8    3    9    0   13    0
## X805     0    0    0    1    0    0    0    0    2    0   11    0   18    6
## X808     0    0    0    0    0    0    1    0    0    1    1    0    1    1
## X809     1    0    1    1    0    0    0    0    1    0    0    0    0    0
## X813     0    0    0    0    0    0    0    0    1    0    1    0    0    0
## X901     0    0    0    1    0    0    0    0    1    1    9    0   17    3
## X904     0    1    0    1    0    0    0    0    0    0    0    0    0    0
## X1001    0    0    0    0    0    1    1    0    6    1    9    0   13    2
## X1003    1    0    2    1    1    1    2    0    7    1    1    0    6    0
## X1005    0    0    0    0    0    0    2    0    8    3   15    0   16    7
## X1102    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X1108    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X1202    0    0    0    1    0    0    0    0    0    0    0    0    3    1
## X1208    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X1213    0    0    0    1    0    0    2    0    7    2   11    0   12    3
## X1214    0    0    0    0    0    0    3    0   12    2   21    0   21    4
## X1302    0    0    0    0    0    0    2    0   14    1   28    0   26    7
## X1507    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X1514    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X1517    1    0    2    1    0    0    0    0    1    0    0    0    0    0
## X1601    0    2    0    2    1    0    0    0    1    0    0    0    0    0
## X1602    1    2    1    3    1    0    0    0    2    0    0    0    0    0
## X1704    1    1    1    3    0    0    0    0    3    0    2    0    3    0
## X1806    1    1    2    3    0    0    0    0    3    0    2    0    3    0
## X1901    1    1    2    3    1    0    0    0    4    0    2    0    3    0
## X1902    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X1905    1    0    2    2    0    0    0    0    3    0    2    0    3    0
## X2001    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X2002    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X2003    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X2004    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X2005    1    1    1    3    1    0    0    0    4    0    2    0    3    0
## X2006    1    0    1    1    0    0    0    0    1    0    0    0    1    0
## X2007    1    1    1    2    1    0    0    0    2    0    0    0    0    0
## X2008    1    1    2    3    0    0    0    0    4    0    4    0    5    0
## X2101    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X2102    1    1    1    2    0    0    0    0    1    0    0    0    0    0
## X2103    0    2    0    2    1    0    0    0    1    0    0    0    0    0
## X2104    0    1    0    1    0    0    0    0    0    0    0    0    0    0
## X2106    0    2    1    2    1    0    0    0    1    0    0    0    0    0
## X2202    0    1    1    1    1    0    0    0    2    0    0    0    0    0
## X2206    0    0    0    0    0    0    0    0    1    0    1    0    0    0
## X2208    1    0    1    1    0    0    0    0    1    0    0    0    0    0
## X2209    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X2302    0    1    0    1    0    0    0    0    0    0    0    0    0    0
## X2309    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X2402    1    0    1    1    0    0    0    0    1    0    0    0    0    0
## X2403    1    0    1    1    0    0    0    0    1    0    0    0    0    0
## X2507    0    0    0    0    0    0    0    0    2    0    1    0    0    0
## X2508    1    0    2    1    0    0    0    0    1    0    0    0    0    0
## X2512    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X2517    1    0    1    1    0    0    3    0   10    2    6    0   13    4
## X2519    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X2520    0    0    0    0    0    0    0    0    0    0    0    0    1    1
## X2522    0    0    0    0    0    0    0    0    0    0    2    0    2    0
## X2525    0    0    0    0    0    0    0    0    1    0    1    0    1    0
## X2530    1    0    1    1    0    0    0    0    3    1    1    0    1    1
```

```
## X2602    0    0    0    0    0    0    0    0    0    0    2    0    1    0
## X2606    1    0    1    1    0    0    0    0    1    0    0    0    0    0
## X2607    0    0    0    0    0    0    0    0    1    1    0    0    0    1
## X2608    0    0    0    0    0    0    0    0    1    1    0    0    0    1
## X2710    0    1    0    1    0    0    0    0    0    0    0    0    0    0
## X2713    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X2714    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X2716    1    0    1    2    0    0    1    0    3    1    3    0    4    1
## X2804    1    1    2    2    0    0    0    0    1    0    0    0    0    0
## X2811    1    1    2    2    0    0    0    0    1    0    0    0    0    0
## X2825    0    0    0    0    0    0    0    0    0    0    0    1    0    0
## X2826    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X2832    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X2833    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X2835    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X2836    0    0    0    0    0    0    0    0    1    0    1    0    1    0
## X2901    1    1    2    2    0    0    0    0    1    0    0    0    0    0
## X2903    0    0    0    0    0    0    0    0    0    0    1    0    1    0
## X2907    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X2915    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X2933    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3105    0    0    0    0    0    0    0    0    0    0    1    0    1    0
## X3202    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3204    1    0    2    1    0    0    0    0    1    0    0    0    0    0
## X3205    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3206    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3207    0    0    0    0    0    0    0    0    1    0    1    0    1    0
## X3208    0    0    0    0    0    0    0    0    1    0    1    1    1    0
## X3209    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3210    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3211    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3212    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3214    0    0    0    0    0    0    0    0    0    0    1    0    1    0
## X3215    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3302    0    1    1    1    1    0    0    0    1    0    0    0    0    0
## X3303    1    0    1    1    0    0    0    0    1    0    0    0    0    0
## X3304    1    0    1    1    0    0    0    0    1    0    0    0    0    0
## X3305    1    0    1    2    0    0    0    0    1    0    0    0    1    0
## X3307    1    0    1    1    0    0    0    0    1    0    0    0    0    0
## X3402    1    1    2    3    1    0    0    0    2    0    0    0    1    0
## X3403    1    0    2    1    0    0    0    0    2    0    1    0    1    0
## X3506    1    2    1    3    1    0    0    0    2    0    0    0    0    0
## X3507    0    1    1    1    1    0    0    0    1    0    0    0    0    0
## X3605    0    1    0    1    0    0    0    0    0    0    0    0    0    0
## X3701    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3707    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3802    0    0    0    0    0    0    0    0    0    0    1    0    1    0
## X3808    1    0    1    1    0    0    0    0    1    0    0    0    0    0
## X3809    1    0    2    2    0    0    0    0    1    0    1    0    2    0
## X3810    0    0    0    0    0    0    0    0    0    0    0    1    0    0
## X3811    0    0    0    0    0    0    0    0    1    0    1    0    1    0
## X3814    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3815    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3816    1    0    1    1    0    0    0    0    1    0    0    0    0    0
## X3819    0    0    0    0    0    0    0    0    1    0    1    0    1    0
## X3820    0    0    0    0    0    0    0    0    1    0    1    0    1    0
## X3823    0    1    0    1    0    0    0    0    0    0    0    0    0    0
## X3902    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3908    1    1    1    2    1    0    0    0    2    0    0    0    0    0
## X3909    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3910    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3911    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3915    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3916    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3917    1    0    2    1    0    0    0    0    2    0    2    0    1    0
## X3919    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3920    0    1    1    1    0    0    0    0    0    0    0    0    0    0
## X3921    0    0    1    0    0    0    0    0    1    0    1    0    1    0
## X3923    0    1    0    1    1    0    0    0    3    0    1    0    1    0
## X3924    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3925    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3926    1    0    2    1    1    0    2    0    5    0    1    0    3    0
## X4001    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X4005    0    1    0    1    0    0    0    0    0    0    0    0    0    0
## X4006    0    1    0    1    0    0    0    0    0    0    0    0    0    0
## X4008    1    0    1    1    0    0    0    0    1    0    0    0    0    0
## X4009    0    1    0    1    0    0    0    0    0    0    0    0    0    0
## X4010    0    1    0    1    1    0    0    0    2    0    4    0    3    0
## X4012    0    1    0    1    0    0    0    0    0    0    0    0    0    0
```

```
## X4013    0    1    0    1    0    0    0    0    0    0    0    0    0    0
## X4015    0    0    0    0    1    0    0    0    1    0    0    0    0    0
## X4016    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X4202    0    0    1    0    0    0    0    0    2    1    1    0    3    1
## X4203    0    0    0    0    1    0    0    0    1    0    0    0    0    0
## X4409    0    1    1    1    1    0    0    0    2    0    1    0    0    0
## X4415    0    2    1    2    1    0    0    0    1    0    0    0    0    0
## X4416    0    0    1    0    0    0    0    0    2    1    3    0    2    0
## X4418    0    0    0    0    0    0    0    0    1    0    1    0    1    0
## X4420    0    0    0    0    0    0    0    0    1    0    1    0    0    0
## X4421    1    0    1    1    0    0    0    0    2    0    1    0    0    0
## X4602    0    0    0    0    0    0    1    0    0    1    1    0    1    1
## X4804    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X4808    0    0    1    0    0    0    0    0    0    0    1    0    1    0
## X4818    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X4819    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X4821    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X4822    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X4823    0    0    1    0    0    0    0    0    0    0    1    0    1    0
## X4901    1    0    1    1    0    0    0    0    1    0    0    0    0    0
## X4902    1    0    1    1    0    0    0    0    1    0    0    0    0    0
## X4907    1    0    1    1    0    0    0    0    1    0    0    0    0    0
## X4911    1    1    1    2    1    0    0    0    2    0    0    0    0    0
## X5111    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X5112    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5205    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5206    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5208    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5209    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X5210    0    0    0    0    0    0    0    0    2    0    0    0    0    0
## X5211    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5402    0    0    0    0    0    0    0    0    0    0    1    0    1    0
## X5407    1    0    2    1    0    0    0    0    1    0    0    0    0    0
## X5408    0    0    0    0    0    0    0    0    1    0    0    0    0    0
## X5505    0    0    0    0    0    0    0    0    2    0    1    0    0    0
## X5508    1    1    1    2    1    0    0    0    2    0    1    0    1    0
## X5509    0    0    0    0    0    0    0    0    2    0    1    0    0    0
## X5511    0    0    0    0    0    0    0    0    1    0    1    0    0    0
## X5512    0    1    0    1    1    0    0    0    3    0    1    0    0    0
## X5513    0    0    0    0    0    0    0    0    2    0    0    0    0    0
## X5514    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5515    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X5516    0    0    0    0    0    0    0    0    2    0    0    0    0    0
## X5601    1    0    1    1    0    0    0    0    1    0    0    0    0    0
## X5603    0    1    1    1    1    0    0    0    3    0    0    0    0    0
## X5609    0    0    0    0    0    0    0    0    1    0    1    0    0    0
## X5806    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X5807    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X5903    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X5907    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X5911    0    0    0    0    0    0    0    0    3    0    1    0    0    0
## X6002    1    1    2    2    1    0    0    0    3    0    0    0    0    0
## X6101    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X6103    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6104    1    0    1    1    0    0    0    0    1    0    0    0    0    0
## X6105    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X6106    1    0    1    1    0    0    0    0    1    0    0    0    0    0
## X6107    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6109    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6110    0    1    0    1    1    0    0    0    2    0    1    0    0    0
## X6111    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6112    0    0    0    0    0    1    0    0    0    0    1    0    2    0
## X6114    0    0    0    0    0    0    0    0    3    0    1    0    0    0
## X6115    1    0    1    1    0    0    0    0    1    0    0    0    0    0
## X6117    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X6201    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6202    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6203    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X6204    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6205    1    1    1    2    1    0    0    0    2    0    0    0    0    0
## X6206    1    0    1    1    0    0    0    0    2    0    1    0    1    0
## X6210    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6211    0    1    0    1    1    0    1    0    3    0    2    0    2    0
## X6212    0    1    1    1    1    0    0    0    4    0    4    0    5    1
## X6217    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6302    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6303    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6304    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6305    0    0    1    0    0    0    0    0    0    0    0    0    0    0
```

```
## X6306    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X6307    0    0    0    0    1    0    0    0    1    0    0    0    0    0
## X6401    1    0    1    1    0    0    0    0    1    0    0    0    0    0
## X6403    1    0    1    1    0    0    0    0    2    0    1    0    1    0
## X6404    0    0    1    0    0    0    0    0    0    0    0    0    0    0
##       X805 X808 X809 X813 X901 X904 X1001 X1003 X1005 X1102 X1108 X1202 X1208
## X102     0    0    1    0    0    0     0     1     0     0     0     0     0
## X210     0    0    0    0    0    1     0     0     0     0     0     0     0
## X401     0    0    1    0    0    0     0     2     0     1     1     0     1
## X403     1    0    1    0    1    1     0     1     0     0     0     1     0
## X406     0    0    0    0    0    0     0     1     0     0     0     0     0
## X510     0    0    0    0    0    0     1     1     0     0     0     0     0
## X602     0    1    0    0    0    0     1     2     2     0     0     0     0
## X603     0    0    0    0    0    0     0     0     0     0     0     0     0
## X702     2    0    1    1    1    0     6     7     8     0     0     0     0
## X703     0    1    0    0    1    0     1     1     3     0     0     0     0
## X709    11    1    0    1    9    0     9     1    15     0     0     0     0
## X712     0    0    0    0    0    0     0     0     0     0     0     0     0
## X713    18    1    0    0   17    0    13     6    16     0     0     3     0
## X804     6    1    0    0    3    0     2     0     7     0     0     1     0
## X805     0    0    0    0   19    0     0     0     3     0     0     3     0
## X808     0    0    0    0    0    0     1     0     1     0     0     0     0
## X809     0    0    0    0    0    0     0     1     0     0     0     0     0
## X813     0    0    0    0    0    0     0     0     0     0     0     0     0
## X901    19    0    0    0    0    0     0     0     0     0     0     2     0
## X904     0    0    0    0    0    0     0     0     0     0     0     0     0
## X1001    0    1    0    0    0    0     0     5     8     0     0     0     0
## X1003    0    0    1    0    0    0     5     0     4     1     1     0     1
## X1005    3    1    0    0    0    0     8     4     0     0     0     0     0
## X1102    0    0    0    0    0    0     0     1     0     0     1     0     1
## X1108    0    0    0    0    0    0     0     1     0     1     0     0     1
## X1202    3    0    0    0    2    0     0     0     0     0     0     0     0
## X1208    0    0    0    0    0    0     0     1     0     1     1     0     0
## X1213    1    1    0    0    1    0     6     0     7     0     0     1     0
## X1214    0    1    0    1    0    0     9     1    12     0     0     0     0
## X1302   10    0    0    1    9    0     8     2    13     0     0     0     0
## X1507    0    0    0    0    0    0     0     0     0     0     0     0     0
## X1514    0    0    0    0    0    0     0     0     0     0     0     0     0
## X1517    0    0    1    0    0    0     0     2     0     1     1     0     1
## X1601    0    0    0    0    0    1     0     0     0     0     0     0     0
## X1602    0    0    1    0    0    1     0     1     0     0     0     0     0
## X1704    1    0    1    1    1    1     3     3     3     0     0     1     0
## X1806    2    0    1    1    2    1     3     4     3     1     1     1     1
## X1901    1    0    1    1    1    0     2     3     2     1     1     1     1
## X1902    0    0    0    0    0    0     0     0     0     0     0     0     0
## X1905    1    0    1    1    1    0     2     4     2     1     1     1     1
## X2001    0    0    0    0    0    0     0     0     0     0     0     0     0
## X2002    0    0    0    0    0    0     0     0     0     0     0     0     0
## X2003    0    0    0    0    0    0     0     0     0     0     0     0     0
## X2004    0    0    0    0    0    0     0     0     0     0     0     0     0
## X2005    1    0    1    1    1    0     2     2     2     0     0     1     0
## X2006    0    0    1    0    0    0     0     2     0     0     0     0     0
## X2007    0    0    1    0    0    0     0     1     0     0     0     0     0
## X2008    1    0    1    1    1    1     3     3     3     1     1     1     1
## X2101    0    0    0    0    0    0     0     0     0     0     0     0     0
## X2102    0    0    1    0    0    1     0     1     0     0     0     0     0
## X2103    0    0    0    0    0    1     0     0     0     0     0     0     0
## X2104    0    0    0    0    0    1     0     0     0     0     0     0     0
## X2106    0    0    0    0    0    1     0     1     0     1     1     0     1
## X2202    0    0    0    0    0    0     1     2     1     1     1     0     1
## X2206    0    0    0    1    0    0     0     0     0     0     0     0     0
## X2208    0    0    1    0    0    0     0     1     0     0     0     0     0
## X2209    0    0    0    0    0    0     0     0     0     0     0     0     0
## X2302    0    0    0    0    0    1     0     0     0     0     0     0     0
## X2309    0    0    0    0    0    0     0     1     0     1     1     0     1
## X2402    0    0    1    0    0    0     0     1     0     0     0     0     0
## X2403    0    0    1    0    0    0     0     1     0     0     0     0     0
## X2507    0    0    0    1    0    0     0     0     0     0     0     0     0
## X2508    0    0    1    0    0    0     0     2     0     1     1     0     1
## X2512    0    0    0    0    0    0     0     0     0     0     0     0     0
## X2517    3    0    1    1    2    0     5     8     3     0     0     2     0
## X2519    0    0    0    0    0    0     0     1     0     1     1     0     1
## X2520    1    0    0    0    0    0     0     0     0     0     0     1     0
## X2522    0    0    0    0    0    0     1     0     1     0     0     0     0
## X2525    0    0    0    0    0    0     1     0     0     0     0     0     0
## X2530    0    0    1    0    0    0     0     2     1     0     0     0     0
## X2602    2    0    0    0    2    0     0     0     0     0     0     0     0
## X2606    0    0    1    0    0    0     0     1     0     0     0     0     0
## X2607    0    0    0    0    0    0     0     0     0     0     0     0     0
```

```
## X2608    0    0    0    0    0    0    0    0    0    0    0    0    0
## X2710    0    0    0    0    0    1    0    0    0    0    0    0    0
## X2713    0    0    0    0    0    0    0    0    0    0    0    0    0
## X2714    0    0    0    0    0    0    0    0    0    0    0    0    0
## X2716    1    1    1    0    1    0    3    1    1    0    0    1    0
## X2804    0    0    1    0    0    1    0    2    0    1    1    0    1
## X2811    0    0    1    0    0    1    0    2    0    1    1    0    1
## X2825    0    0    0    0    0    0    0    0    0    0    0    0    0
## X2826    0    0    0    0    0    0    0    1    0    1    1    0    1
## X2832    0    0    0    0    0    0    0    1    0    1    1    0    1
## X2833    0    0    0    0    0    0    0    1    0    1    1    0    1
## X2835    0    0    0    0    0    0    0    1    0    1    1    0    1
## X2836    0    0    0    0    0    0    1    0    0    0    0    0    0
## X2901    0    0    1    0    0    1    0    2    0    1    1    0    1
## X2903    0    0    0    0    0    0    1    0    0    0    0    0    0
## X2907    0    0    0    0    0    0    0    1    0    1    1    0    1
## X2915    0    0    0    0    0    0    0    1    0    1    1    0    1
## X2933    0    0    0    0    0    0    0    1    0    1    1    0    1
## X3105    0    0    0    0    0    0    1    0    1    0    0    0    0
## X3202    0    0    0    0    0    0    0    1    0    1    1    0    1
## X3204    0    0    1    0    0    0    0    3    0    1    1    0    1
## X3205    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3206    0    0    0    0    0    0    0    1    0    1    1    0    1
## X3207    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3208    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3209    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3210    0    0    0    0    0    0    0    1    0    1    1    0    1
## X3211    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3212    0    0    0    0    0    0    0    1    0    0    0    0    0
## X3214    0    0    0    0    0    0    1    0    0    0    0    0    0
## X3215    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3302    0    0    0    0    0    0    0    1    0    1    1    0    1
## X3303    0    0    1    0    0    0    0    1    0    0    0    0    0
## X3304    0    0    1    0    0    0    0    1    0    0    0    0    0
## X3305    1    0    1    0    1    0    0    1    0    0    0    1    0
## X3307    0    0    1    0    0    0    0    1    0    0    0    0    0
## X3402    1    0    1    0    1    0    0    2    0    1    1    1    1
## X3403    0    0    1    0    0    0    1    2    0    1    1    0    1
## X3506    0    0    1    0    0    1    0    1    0    0    0    0    0
## X3507    0    0    0    0    0    0    0    1    0    1    1    0    1
## X3605    0    0    0    0    0    1    0    0    0    0    0    0    0
## X3701    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3707    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3802    0    0    0    0    0    0    1    0    0    0    0    0    0
## X3808    0    0    1    0    0    0    0    1    0    0    0    0    0
## X3809    1    0    1    0    1    0    0    2    0    1    1    1    1
## X3810    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3811    0    0    0    0    0    0    1    0    0    0    0    0    0
## X3814    0    0    0    0    0    0    0    1    0    1    1    0    1
## X3815    0    0    0    0    0    0    0    1    0    1    1    0    1
## X3816    0    0    1    0    0    0    0    1    0    0    0    0    0
## X3819    0    0    0    0    0    0    1    0    0    0    0    0    0
## X3820    0    0    0    0    0    0    1    0    0    0    0    0    0
## X3823    0    0    0    0    0    1    0    0    0    0    0    0    0
## X3902    0    0    0    0    0    0    0    1    0    1    1    0    1
## X3908    0    0    1    0    0    0    0    1    0    0    0    0    0
## X3909    0    0    0    0    0    0    0    1    0    1    1    0    1
## X3910    0    0    0    0    0    0    0    1    0    1    1    0    1
## X3911    0    0    0    0    0    0    0    1    0    1    1    0    1
## X3915    0    0    0    0    0    0    0    1    0    1    1    0    1
## X3916    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3917    0    0    1    1    0    0    0    2    0    1    1    0    1
## X3919    0    0    0    0    0    0    0    1    0    1    1    0    1
## X3920    0    0    0    0    0    1    0    1    0    1    1    0    1
## X3921    0    0    0    0    0    0    1    1    0    1    1    0    1
## X3923    0    0    0    1    0    0    2    2    2    0    0    0    0
## X3924    0    0    0    0    0    0    1    1    1    0    0    0    0
## X3925    0    0    0    0    0    0    0    1    0    1    1    0    1
## X3926    0    0    1    0    0    0    2    6    1    1    1    0    1
## X4001    0    0    0    0    0    0    0    0    0    0    0    0    0
## X4005    0    0    0    0    0    1    0    0    0    0    0    0    0
## X4006    0    0    0    0    0    1    0    0    0    0    0    0    0
## X4008    0    0    1    0    0    0    0    1    0    0    0    0    0
## X4009    0    0    0    0    0    1    0    0    0    0    0    0    0
## X4010    0    0    0    1    0    0    0    0    1    0    0    0    0
## X4012    0    0    0    0    0    1    0    0    0    0    0    0    0
## X4013    0    0    0    0    0    1    0    0    0    0    0    0    0
## X4015    0    0    0    0    0    0    0    1    0    0    0    0    0
## X4016    0    0    0    0    0    1    0    1    0    0    0    0    0
```

```
## X4202    1    0    0    0    1    0    1    2    2    1    1    0    1
## X4203    0    0    0    0    0    0    0    1    0    0    0    0    0
## X4409    0    0    0    1    0    0    0    1    0    1    1    0    1
## X4415    0    0    0    0    0    1    0    1    0    1    1    0    1
## X4416    0    0    0    1    0    0    0    2    1    1    1    0    1
## X4418    0    0    0    0    0    0    1    0    0    0    0    0    0
## X4420    0    0    0    1    0    0    0    0    0    0    0    0    0
## X4421    0    0    1    1    0    0    0    1    0    0    0    0    0
## X4602    0    1    0    0    0    0    1    0    1    0    0    0    0
## X4804    0    0    0    0    0    0    0    1    0    1    1    0    1
## X4808    0    0    0    0    0    0    1    1    0    1    1    0    1
## X4818    0    0    0    0    0    0    0    0    0    0    0    0    0
## X4819    0    0    0    0    0    0    0    0    0    0    0    0    0
## X4821    0    0    0    0    0    0    0    0    0    0    0    0    0
## X4822    0    0    0    0    0    0    0    1    0    1    1    0    1
## X4823    0    0    0    0    0    0    1    1    0    1    1    0    1
## X4901    0    0    1    0    0    0    0    1    0    0    0    0    0
## X4902    0    0    1    0    0    0    0    1    0    0    0    0    0
## X4907    0    0    1    0    0    0    0    1    0    0    0    0    0
## X4911    0    0    1    0    0    0    0    1    0    0    0    0    0
## X5111    0    0    0    0    0    0    0    1    0    1    1    0    1
## X5112    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5205    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5206    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5208    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5209    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5210    0    0    0    0    0    0    1    1    1    0    0    0    0
## X5211    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5402    0    0    0    0    0    0    1    0    0    0    0    0    0
## X5407    0    0    1    0    0    0    0    2    0    1    1    0    1
## X5408    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5505    0    0    0    1    0    0    0    0    0    0    0    0    0
## X5508    0    0    1    0    0    0    1    1    0    0    0    0    0
## X5509    0    0    0    1    0    0    0    0    0    0    0    0    0
## X5511    0    0    0    1    0    0    0    0    0    0    0    0    0
## X5512    0    0    0    1    0    0    0    0    0    0    0    0    0
## X5513    0    0    0    0    0    0    1    1    1    0    0    0    0
## X5514    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5515    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5516    0    0    0    0    0    0    1    1    1    0    0    0    0
## X5601    0    0    1    0    0    0    0    1    0    0    0    0    0
## X5603    0    0    0    0    0    0    1    2    1    1    1    0    1
## X5609    0    0    0    1    0    0    0    0    0    0    0    0    0
## X5806    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5807    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5903    0    0    0    0    0    0    0    1    0    1    1    0    1
## X5907    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5911    0    0    0    1    0    0    1    1    1    0    0    0    0
## X6002    0    0    1    0    0    0    0    2    0    1    1    0    1
## X6101    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6103    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6104    0    0    1    0    0    0    0    1    0    0    0    0    0
## X6105    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6106    0    0    1    0    0    0    0    1    0    0    0    0    0
## X6107    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6109    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6110    0    0    0    1    0    0    0    0    0    0    0    0    0
## X6111    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6112    0    0    0    0    0    0    1    1    0    0    0    0    0
## X6114    0    0    0    1    0    0    1    1    1    0    0    0    0
## X6115    0    0    1    0    0    0    1    2    1    0    0    0    0
## X6117    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6201    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6202    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6203    1    0    0    0    1    0    0    0    0    0    0    0    0
## X6204    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6205    0    0    1    0    0    0    0    1    0    0    0    0    0
## X6206    0    0    1    1    0    0    0    2    0    0    0    0    0
## X6210    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6211    1    0    0    0    1    0    2    1    2    0    0    0    0
## X6212    0    0    0    0    0    0    3    1    2    1    1    0    1
## X6217    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6302    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6303    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6304    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6305    0    0    0    0    0    0    0    1    0    1    1    0    1
## X6306    0    0    0    0    0    0    0    1    0    1    1    0    1
## X6307    0    0    0    0    0    0    0    1    0    0    0    0    0
## X6401    0    0    1    0    0    0    0    1    0    0    0    0    0
```

```
## X6403    0    0    1    0    0    0     1     1     0     0     0     0     0
## X6404    0    0    0    0    0    0     0     1     0     1     1     0     1
##       X1213 X1214 X1302 X1507 X1514 X1517 X1601 X1602 X1704 X1806 X1901 X1902
## X102      0     0     0     0     0     1     0     1     1     1     1     0
## X210      0     0     0     1     1     0     2     2     1     1     1     1
## X401      0     0     0     0     0     2     0     1     1     2     2     0
## X403      1     0     0     1     1     1     2     3     3     3     3     1
## X406      0     0     0     1     1     0     1     1     0     0     1     1
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      2     3     2     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      7    12    14     1     1     1     1     2     3     3     4     1
## X703      2     2     1     0     0     0     0     0     0     0     0     0
## X709     11    21    28     0     0     0     0     0     2     2     2     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713     12    21    26     0     0     0     0     0     3     3     3     0
## X804      3     4     7     0     0     0     0     0     0     0     0     0
## X805      1     0    10     0     0     0     0     0     1     2     1     0
## X808      1     1     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     0     0     1     0     1     1     1     1     0
## X813      0     1     1     0     0     0     0     0     1     1     1     0
## X901      1     0     9     0     0     0     0     0     1     2     1     0
## X904      0     0     0     0     0     0     1     1     1     1     0     0
## X1001     6     9     8     0     0     0     0     0     3     3     2     0
## X1003     0     1     2     0     0     2     0     1     3     4     3     0
## X1005     7    12    13     0     0     0     0     0     3     3     2     0
## X1102     0     0     0     0     0     1     0     0     0     1     1     0
## X1108     0     0     0     0     0     1     0     0     0     1     1     0
## X1202     1     0     0     0     0     0     0     0     1     1     1     0
## X1208     0     0     0     0     0     1     0     0     0     1     1     0
## X1213     0    12    11     0     0     0     0     0     2     2     2     0
## X1214    12     0    20     0     0     0     0     0     2     2     2     0
## X1302    11    20     0     0     0     0     0     0     2     2     2     0
## X1507     0     0     0     0     1     0     1     1     0     0     1     1
## X1514     0     0     0     1     0     0     1     1     0     0     1     1
## X1517     0     0     0     0     0     0     0     1     1     2     2     0
## X1601     0     0     0     1     1     0     0     2     1     1     1     1
## X1602     0     0     0     1     1     1     2     0     2     2     2     1
## X1704     2     2     2     0     0     1     1     2     0     7     5     0
## X1806     2     2     2     0     0     2     1     2     7     0     6     0
## X1901     2     2     2     1     1     2     1     2     5     6     0     1
## X1902     0     0     0     1     1     0     1     1     0     0     1     0
## X1905     2     2     2     0     0     2     0     1     5     6     6     0
## X2001     0     0     0     1     1     0     1     1     0     0     1     1
## X2002     0     0     0     1     1     0     1     1     0     0     1     1
## X2003     0     0     0     1     1     0     1     1     0     0     1     1
## X2004     0     0     0     1     1     0     1     1     0     0     1     1
## X2005     2     2     2     1     1     1     1     2     5     5     6     1
## X2006     0     0     0     0     0     1     0     1     1     1     1     0
## X2007     0     0     0     1     1     1     1     2     1     1     2     1
## X2008     3     4     4     0     0     2     1     2     6     7     6     0
## X2101     0     0     0     1     1     0     1     1     0     0     1     1
## X2102     0     0     0     0     0     1     1     2     2     2     1     0
## X2103     0     0     0     1     1     0     2     2     1     1     1     1
## X2104     0     0     0     0     0     0     1     1     1     1     0     0
## X2106     0     0     0     1     1     1     2     2     1     2     2     1
## X2202     0     1     1     1     1     1     1     1     0     1     2     1
## X2206     0     1     1     0     0     0     0     0     1     1     1     0
## X2208     0     1     1     0     0     1     0     1     1     1     1     0
## X2209     0     0     0     1     1     0     1     1     0     0     1     1
## X2302     0     0     0     0     0     0     1     1     1     1     0     0
## X2309     0     0     0     0     0     1     0     0     0     1     1     0
## X2402     0     0     0     0     0     1     0     1     1     1     1     0
## X2403     0     0     0     0     0     1     0     1     1     1     1     0
## X2507     1     2     2     0     0     0     0     0     1     1     1     0
## X2508     0     0     0     0     0     2     0     1     1     2     2     0
## X2512     0     1     1     0     0     0     0     0     0     0     0     0
## X2517     3     7     7     0     0     1     0     1     2     2     2     0
## X2519     0     0     0     0     0     1     0     0     0     1     1     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     2     2     0     0     0     0     0     0     0     0     0
## X2525     1     0     0     0     0     0     0     0     0     0     0     0
## X2530     2     2     2     0     0     1     0     1     1     1     1     0
## X2602     0     0     2     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     0     0     1     0     1     1     1     1     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     1     1     1     1     0     0
## X2713     0     0     0     0     0     0     0     0     0     0     0     0
```

```
## X2714     0     0     0     0     0     0     0     0     0     0     0     0
## X2716     5     4     3     0     0     1     0     1     2     2     2     0
## X2804     0     0     0     0     0     2     1     2     2     3     2     0
## X2811     0     0     0     0     0     2     1     2     2     3     2     0
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     0     0     0     0     0     1     0     0     0     1     1     0
## X2832     0     0     0     0     0     1     0     0     0     1     1     0
## X2833     0     0     0     0     0     1     0     0     0     1     1     0
## X2835     0     0     0     0     0     1     0     0     0     1     1     0
## X2836     0     1     1     0     0     0     0     0     0     0     0     0
## X2901     0     0     0     0     0     2     1     2     2     3     2     0
## X2903     1     1     1     0     0     0     0     0     0     0     0     0
## X2907     0     0     0     0     0     1     0     0     0     1     1     0
## X2915     0     0     0     0     0     1     0     0     0     1     1     0
## X2933     0     0     0     0     0     1     0     0     0     1     1     0
## X3105     1     1     1     0     0     0     0     0     1     1     1     0
## X3202     0     0     0     0     0     1     0     0     0     1     1     0
## X3204     0     0     0     0     0     2     0     1     1     2     2     0
## X3205     0     0     0     0     0     0     0     0     0     0     0     0
## X3206     0     0     0     0     0     1     0     0     0     1     1     0
## X3207     1     1     1     0     0     0     0     0     0     0     0     0
## X3208     1     1     1     0     0     0     0     0     0     0     0     0
## X3209     0     0     0     0     0     0     0     0     0     0     0     0
## X3210     0     0     0     0     0     1     0     0     0     1     1     0
## X3211     0     0     0     0     0     0     0     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     1     1     1     0     0     0     0     0     0     0     0     0
## X3215     0     0     0     0     0     0     0     0     0     0     0     0
## X3302     0     0     0     1     1     1     1     1     0     1     2     1
## X3303     0     0     0     0     0     1     0     1     1     1     1     0
## X3304     0     0     0     0     0     1     0     1     1     1     1     0
## X3305     1     0     0     0     0     1     0     1     2     2     2     0
## X3307     0     0     0     0     0     1     0     1     1     1     1     0
## X3402     1     0     0     1     1     2     1     2     2     3     4     1
## X3403     0     1     1     0     0     2     0     1     1     2     2     0
## X3506     0     0     0     1     1     1     2     3     2     2     2     1
## X3507     0     0     0     1     1     1     1     1     0     1     2     1
## X3605     0     0     0     0     0     0     1     1     1     1     0     0
## X3701     0     0     0     0     0     0     0     0     0     0     0     0
## X3707     0     0     0     0     0     0     0     0     0     0     0     0
## X3802     1     1     1     0     0     0     0     0     0     0     0     0
## X3808     0     0     0     0     0     1     0     1     1     1     1     0
## X3809     1     1     1     0     0     2     0     1     2     3     3     0
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     1     1     0     0     0     0     0     0     0     0     0
## X3814     0     0     0     0     0     1     0     0     0     1     1     0
## X3815     0     0     0     0     0     1     0     0     0     1     1     0
## X3816     0     0     0     0     0     1     0     1     1     1     1     0
## X3819     0     1     1     0     0     0     0     0     0     0     0     0
## X3820     0     1     1     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     1     1     1     1     0     0
## X3902     0     0     0     0     0     1     0     0     0     1     1     0
## X3908     0     0     0     1     1     1     1     2     1     1     2     1
## X3909     0     0     0     0     0     1     0     0     0     1     1     0
## X3910     0     0     0     0     0     1     0     0     0     1     1     0
## X3911     0     0     0     0     0     1     0     0     0     1     1     0
## X3915     0     0     0     0     0     1     0     0     0     1     1     0
## X3916     0     0     0     0     0     0     0     0     0     0     0     0
## X3917     0     2     2     0     0     2     0     1     2     3     3     0
## X3919     0     0     0     0     0     1     0     0     0     1     1     0
## X3920     0     0     0     0     0     1     1     1     1     2     1     0
## X3921     0     1     1     0     0     1     0     0     0     1     1     0
## X3923     0     1     1     1     1     0     1     1     3     3     3     1
## X3924     0     0     0     0     0     0     0     0     1     1     0     0
## X3925     0     0     0     0     0     1     0     0     0     1     1     0
## X3926     1     1     2     0     0     2     0     1     2     3     3     0
## X4001     0     0     0     0     0     0     0     0     0     0     0     0
## X4005     0     0     0     0     0     0     1     1     1     1     0     0
## X4006     0     0     0     0     0     0     1     1     1     1     0     0
## X4008     0     0     0     0     0     1     0     1     1     1     1     0
## X4009     0     0     0     0     0     0     1     1     1     1     0     0
## X4010     0     4     3     1     1     0     1     1     1     1     2     1
## X4012     0     0     0     0     0     0     1     1     1     1     0     0
## X4013     0     0     0     0     0     0     1     1     1     1     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     1     1     1     1     0     0
## X4202     1     2     2     0     0     1     0     0     0     1     1     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     1     1     1     1     1     1     1     1     2     3     1
```

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## X4415     0     0     0     1     1     1     2     2     1     2     2     1
## X4416     0     3     3     0     0     1     0     0     1     2     2     0
## X4418     1     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     1     1     0     0     0     0     0     1     1     1     0
## X4421     0     1     1     0     0     1     0     1     2     2     2     0
## X4602     1     1     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     0     0     1     0     0     0     1     1     0
## X4808     1     1     1     0     0     1     0     0     0     1     1     0
## X4818     0     0     0     0     0     0     0     0     0     0     0     0
## X4819     0     0     0     1     1     0     1     1     0     0     1     1
## X4821     0     0     0     1     1     0     1     1     0     0     1     1
## X4822     0     0     0     0     0     1     0     0     0     1     1     0
## X4823     1     1     1     0     0     1     0     0     0     1     1     0
## X4901     0     0     0     0     0     1     0     1     1     1     1     0
## X4902     0     0     0     0     0     1     0     1     1     1     1     0
## X4907     0     0     0     0     0     1     0     1     1     1     1     0
## X4911     0     0     0     1     1     1     1     2     1     1     2     1
## X5111     0     1     1     0     0     1     0     0     0     1     1     0
## X5112     0     1     1     0     0     0     0     0     0     0     0     0
## X5205     0     0     0     0     0     0     0     0     0     0     0     0
## X5206     0     0     0     0     0     0     0     0     0     0     0     0
## X5208     0     0     0     0     0     0     0     0     0     0     0     0
## X5209     0     0     0     1     1     0     1     1     0     0     1     1
## X5210     1     1     2     0     0     0     0     0     0     0     0     0
## X5211     0     0     0     0     0     0     0     0     0     0     0     0
## X5402     1     1     1     0     0     0     0     0     0     0     0     0
## X5407     0     0     0     0     0     2     0     1     1     2     2     0
## X5408     1     1     1     0     0     0     0     0     0     0     0     0
## X5505     1     2     2     0     0     0     0     0     1     1     1     0
## X5508     1     1     1     1     1     1     1     2     1     1     2     1
## X5509     1     2     2     0     0     0     0     0     1     1     1     0
## X5511     0     1     1     0     0     0     0     0     1     1     1     0
## X5512     1     2     2     1     1     0     1     1     1     1     2     1
## X5513     1     1     2     0     0     0     0     0     0     0     0     0
## X5514     0     0     0     0     0     0     0     0     0     0     0     0
## X5515     0     1     1     1     1     0     1     1     0     0     1     1
## X5516     1     1     2     0     0     0     0     0     0     0     0     0
## X5601     0     0     0     0     0     1     0     1     1     1     1     0
## X5603     1     1     2     1     1     1     1     1     0     1     2     1
## X5609     0     1     1     0     0     0     0     0     1     1     1     0
## X5806     0     0     0     1     1     0     1     1     0     0     1     1
## X5807     0     0     0     1     1     0     1     1     0     0     1     1
## X5903     0     0     0     0     0     1     0     0     0     1     1     0
## X5907     0     0     0     1     1     0     1     1     0     0     1     1
## X5911     1     3     4     0     0     0     0     0     1     1     1     0
## X6002     1     0     1     1     1     2     1     2     1     2     3     1
## X6101     0     0     0     1     1     0     1     1     0     0     1     1
## X6103     0     0     0     0     0     0     0     0     0     0     0     0
## X6104     0     0     0     0     0     1     0     1     1     1     1     0
## X6105     0     0     0     1     1     0     1     1     0     0     1     1
## X6106     0     0     0     0     0     1     0     1     1     1     1     0
## X6107     0     0     0     0     0     0     0     0     0     0     0     0
## X6109     0     0     0     0     0     0     0     0     0     0     0     0
## X6110     0     1     1     1     1     0     1     1     1     1     2     1
## X6111     0     0     0     0     0     0     0     0     0     0     0     0
## X6112     0     1     1     0     0     0     0     0     0     0     0     0
## X6114     1     4     4     0     0     0     0     0     1     1     1     0
## X6115     0     0     0     0     0     1     0     1     2     2     1     0
## X6117     0     0     0     1     1     0     1     1     0     0     1     1
## X6201     0     0     0     0     0     0     0     0     0     0     0     0
## X6202     0     0     0     0     0     0     0     0     0     0     0     0
## X6203     0     0     1     1     1     0     1     1     0     0     1     1
## X6204     0     0     0     0     0     0     0     0     0     0     0     0
## X6205     0     0     0     1     1     1     1     2     1     1     2     1
## X6206     0     1     1     0     0     1     0     1     2     2     2     0
## X6210     0     0     0     0     0     0     0     0     0     0     0     0
## X6211     1     3     4     1     1     0     1     1     0     0     1     1
## X6212     2     3     3     1     1     1     1     1     1     2     3     1
## X6217     0     0     0     0     0     0     0     0     0     0     0     0
## X6302     0     0     0     0     0     0     0     0     0     0     0     0
## X6303     0     0     0     0     0     0     0     0     0     0     0     0
## X6304     0     0     0     0     0     0     0     0     0     0     0     0
## X6305     0     0     0     0     0     1     0     0     0     1     1     0
## X6306     0     0     0     0     0     1     0     0     0     1     1     0
## X6307     0     0     0     0     0     0     0     0     0     0     0     0
## X6401     0     0     0     0     0     1     0     1     1     1     1     0
## X6403     0     1     1     0     0     1     0     1     1     1     1     0
## X6404     0     0     0     0     0     1     0     0     0     1     1     0
##       X1905 X2001 X2002 X2003 X2004 X2005 X2006 X2007 X2008 X2101 X2102 X2103
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## X102      1     0     0     0     0     1     1     1     1     0     1     0
## X210      0     1     1     1     1     1     0     1     1     1     1     2
## X401      2     0     0     0     0     1     1     1     2     0     1     0
## X403      2     1     1     1     1     3     1     2     3     1     2     2
## X406      0     1     1     1     1     1     0     1     0     1     0     1
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      3     1     1     1     1     4     1     2     4     1     1     1
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      2     0     0     0     0     2     0     0     4     0     0     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      3     0     0     0     0     3     1     0     5     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      1     0     0     0     0     1     0     0     1     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      1     0     0     0     0     1     1     1     1     0     1     0
## X813      1     0     0     0     0     1     0     0     1     0     0     0
## X901      1     0     0     0     0     1     0     0     1     0     0     0
## X904      0     0     0     0     0     0     0     0     1     0     1     1
## X1001     2     0     0     0     0     2     0     0     3     0     0     0
## X1003     4     0     0     0     0     2     2     1     3     0     1     0
## X1005     2     0     0     0     0     2     0     0     3     0     0     0
## X1102     1     0     0     0     0     0     0     0     1     0     0     0
## X1108     1     0     0     0     0     0     0     0     1     0     0     0
## X1202     1     0     0     0     0     1     0     0     1     0     0     0
## X1208     1     0     0     0     0     0     0     0     1     0     0     0
## X1213     2     0     0     0     0     2     0     0     3     0     0     0
## X1214     2     0     0     0     0     2     0     0     4     0     0     0
## X1302     2     0     0     0     0     2     0     0     4     0     0     0
## X1507     0     1     1     1     1     1     0     1     0     1     0     1
## X1514     0     1     1     1     1     1     0     1     0     1     0     1
## X1517     2     0     0     0     0     1     1     1     2     0     1     0
## X1601     0     1     1     1     1     1     0     1     1     1     1     2
## X1602     1     1     1     1     1     2     1     2     2     1     2     2
## X1704     5     0     0     0     0     5     1     1     6     0     2     1
## X1806     6     0     0     0     0     5     1     1     7     0     2     1
## X1901     6     1     1     1     1     6     1     2     6     1     1     1
## X1902     0     1     1     1     1     1     0     1     0     1     0     1
## X1905     0     0     0     0     0     5     1     1     6     0     1     0
## X2001     0     0     1     1     1     1     0     1     0     1     0     1
## X2002     0     1     0     1     1     1     0     1     0     1     0     1
## X2003     0     1     1     0     1     1     0     1     0     1     0     1
## X2004     0     1     1     1     0     1     0     1     0     1     0     1
## X2005     5     1     1     1     1     0     1     2     5     1     1     1
## X2006     1     0     0     0     0     1     0     1     1     0     1     0
## X2007     1     1     1     1     1     2     1     0     1     1     1     1
## X2008     6     0     0     0     0     5     1     1     0     0     2     1
## X2101     0     1     1     1     1     1     0     1     0     0     0     1
## X2102     1     0     0     0     0     1     1     1     2     0     0     1
## X2103     0     1     1     1     1     1     0     1     1     1     1     0
## X2104     0     0     0     0     0     0     0     0     1     0     1     1
## X2106     1     1     1     1     1     1     0     1     2     1     1     2
## X2202     1     1     1     1     1     1     0     1     1     1     0     1
## X2206     1     0     0     0     0     1     0     0     1     0     0     0
## X2208     1     0     0     0     0     1     1     1     1     0     1     0
## X2209     0     1     1     1     1     1     0     1     0     1     0     1
## X2302     0     0     0     0     0     0     0     0     1     0     1     1
## X2309     1     0     0     0     0     0     0     0     1     0     0     0
## X2402     1     0     0     0     0     1     1     1     1     0     1     0
## X2403     1     0     0     0     0     1     1     1     1     0     1     0
## X2507     1     0     0     0     0     1     0     0     1     0     0     0
## X2508     2     0     0     0     0     1     1     1     2     0     1     0
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     3     0     0     0     0     2     2     1     2     0     1     0
## X2519     1     0     0     0     0     0     0     0     1     0     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     1     0     0     0     0     1     1     1     1     0     1     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     1     0     0     0     0     1     1     1     1     0     1     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     1     0     1     1
## X2713     1     0     0     0     0     0     0     0     0     0     0     0
## X2714     1     0     0     0     0     0     0     0     0     0     0     0
## X2716     2     0     0     0     0     2     1     1     2     0     1     0
## X2804     2     0     0     0     0     1     1     1     3     0     2     1
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## X2811     2     0     0     0     0     1     1     1     3     0     2     1
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     1     0     0     0     0     0     0     0     1     0     0     0
## X2832     1     0     0     0     0     0     0     0     1     0     0     0
## X2833     1     0     0     0     0     0     0     0     1     0     0     0
## X2835     1     0     0     0     0     0     0     0     1     0     0     0
## X2836     0     0     0     0     0     0     0     0     1     0     0     0
## X2901     2     0     0     0     0     1     1     1     3     0     2     1
## X2903     1     0     0     0     0     0     0     0     0     0     0     0
## X2907     1     0     0     0     0     0     0     0     1     0     0     0
## X2915     1     0     0     0     0     0     0     0     1     0     0     0
## X2933     1     0     0     0     0     0     0     0     1     0     0     0
## X3105     1     0     0     0     0     1     0     0     1     0     0     0
## X3202     1     0     0     0     0     0     0     0     1     0     0     0
## X3204     3     0     0     0     0     1     1     1     2     0     1     0
## X3205     1     0     0     0     0     0     0     0     0     0     0     0
## X3206     2     0     0     0     0     0     0     0     1     0     0     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     1     0     0     0     0     0     0     0     0     0     0     0
## X3209     1     0     0     0     0     0     0     0     0     0     0     0
## X3210     1     0     0     0     0     0     0     0     1     0     0     0
## X3211     1     0     0     0     0     0     0     0     0     0     0     0
## X3212     1     0     0     0     0     0     0     0     0     0     0     0
## X3214     1     0     0     0     0     0     0     0     0     0     0     0
## X3215     1     0     0     0     0     0     0     0     0     0     0     0
## X3302     1     1     1     1     1     1     0     1     1     1     0     1
## X3303     1     0     0     0     0     1     1     1     1     0     1     0
## X3304     1     0     0     0     0     1     1     1     1     0     1     0
## X3305     2     0     0     0     0     2     1     1     2     0     1     0
## X3307     1     0     0     0     0     1     1     1     1     0     1     0
## X3402     3     1     1     1     1     3     1     2     3     1     1     1
## X3403     2     0     0     0     0     1     1     1     3     0     1     0
## X3506     2     1     1     1     1     2     1     2     2     1     2     2
## X3507     1     1     1     1     1     1     0     1     1     1     0     1
## X3605     0     0     0     0     0     0     0     0     1     0     1     1
## X3701     1     0     0     0     0     0     0     0     0     0     0     0
## X3707     1     0     0     0     0     0     0     0     0     0     0     0
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     1     0     0     0     0     1     1     1     1     0     1     0
## X3809     3     0     0     0     0     2     1     1     3     0     1     0
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     1     0     0     0
## X3814     2     0     0     0     0     0     0     0     1     0     0     0
## X3815     1     0     0     0     0     0     0     0     1     0     0     0
## X3816     1     0     0     0     0     1     1     1     1     0     1     0
## X3819     0     0     0     0     0     0     0     0     1     0     0     0
## X3820     0     0     0     0     0     0     0     0     1     0     0     0
## X3823     0     0     0     0     0     0     0     0     1     0     1     1
## X3902     1     0     0     0     0     0     0     0     1     0     0     0
## X3908     1     1     1     1     1     2     1     2     1     1     1     1
## X3909     1     0     0     0     0     0     0     0     1     0     0     0
## X3910     1     0     0     0     0     0     0     0     1     0     0     0
## X3911     1     0     0     0     0     0     0     0     1     0     0     0
## X3915     1     0     0     0     0     0     0     0     1     0     0     0
## X3916     1     0     0     0     0     0     0     0     0     0     0     0
## X3917     3     0     0     0     0     2     1     1     3     0     1     0
## X3919     2     0     0     0     0     0     0     0     1     0     0     0
## X3920     2     0     0     0     0     0     0     0     2     0     1     1
## X3921     2     0     0     0     0     0     0     0     2     0     0     0
## X3923     2     1     1     1     1     3     0     1     2     1     0     1
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     1     0     0     0     0     0     0     0     1     0     0     0
## X3926     3     0     0     0     0     2     1     1     3     0     1     0
## X4001     1     0     0     0     0     0     0     0     0     0     0     0
## X4005     0     0     0     0     0     0     0     0     1     0     1     1
## X4006     0     0     0     0     0     0     0     0     1     0     1     1
## X4008     1     0     0     0     0     1     1     1     1     0     1     0
## X4009     0     0     0     0     0     0     0     0     1     0     1     1
## X4010     1     1     1     1     1     2     0     1     1     1     0     1
## X4012     0     0     0     0     0     0     0     0     1     0     1     1
## X4013     0     0     0     0     0     0     0     0     1     0     1     1
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     0     1     0     1     1
## X4202     2     0     0     0     0     0     0     0     1     0     0     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     2     1     1     1     1     2     0     1     2     1     0     1
## X4415     1     1     1     1     1     1     0     1     2     1     1     2
## X4416     2     0     0     0     0     1     0     0     2     0     0     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
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## X4420     1     0     0     0     0     1     0     0     1     0     0     0
## X4421     2     0     0     0     0     2     1     1     2     0     1     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     1     0     0     0     0     0     0     0     1     0     0     0
## X4808     2     0     0     0     0     0     0     0     1     0     0     0
## X4818     1     0     0     0     0     0     0     0     0     0     0     0
## X4819     0     1     1     1     1     1     0     1     0     1     0     1
## X4821     1     1     1     1     1     1     0     1     0     1     0     1
## X4822     1     0     0     0     0     0     0     0     1     0     0     0
## X4823     1     0     0     0     0     0     0     0     1     0     0     0
## X4901     1     0     0     0     0     1     1     1     1     0     1     0
## X4902     1     0     0     0     0     1     1     1     1     0     1     0
## X4907     1     0     0     0     0     1     1     1     1     0     1     0
## X4911     1     1     1     1     1     2     1     2     1     1     1     1
## X5111     1     0     0     0     0     0     0     0     1     0     0     0
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     1     0     0     0     0     0     0     0     0     0     0     0
## X5206     1     0     0     0     0     0     0     0     0     0     0     0
## X5208     1     0     0     0     0     0     0     0     0     0     0     0
## X5209     1     1     1     1     1     1     0     1     0     1     0     1
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     1     0     0     0     0     0     0     0     0     0     0     0
## X5402     1     0     0     0     0     0     0     0     0     0     0     0
## X5407     3     0     0     0     0     1     1     1     2     0     1     0
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     1     0     0     0     0     1     0     0     1     0     0     0
## X5508     1     1     1     1     1     2     1     2     1     1     1     1
## X5509     2     0     0     0     0     1     0     0     1     0     0     0
## X5511     1     0     0     0     0     1     0     0     1     0     0     0
## X5512     1     1     1     1     1     2     0     1     1     1     0     1
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     1     0     0     0     0     0     0     0     0     0     0     0
## X5515     0     1     1     1     1     1     0     1     0     1     0     1
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     1     0     0     0     0     1     1     1     1     0     1     0
## X5603     1     1     1     1     1     1     0     1     1     1     0     1
## X5609     1     0     0     0     0     1     0     0     1     0     0     0
## X5806     1     1     1     1     1     1     0     1     0     1     0     1
## X5807     1     1     1     1     1     1     0     1     0     1     0     1
## X5903     1     0     0     0     0     0     0     0     1     0     0     0
## X5907     0     1     1     1     1     1     0     1     0     1     0     1
## X5911     2     0     0     0     0     1     0     0     1     0     0     0
## X6002     3     1     1     1     1     2     1     2     2     1     1     1
## X6101     0     1     1     1     1     1     0     1     0     1     0     1
## X6103     1     0     0     0     0     0     0     0     0     0     0     0
## X6104     2     0     0     0     0     1     1     1     1     0     1     0
## X6105     0     1     1     1     1     1     0     1     0     1     0     1
## X6106     2     0     0     0     0     1     1     1     1     0     1     0
## X6107     1     0     0     0     0     0     0     0     0     0     0     0
## X6109     1     0     0     0     0     0     0     0     0     0     0     0
## X6110     1     1     1     1     1     2     0     1     1     1     0     1
## X6111     1     0     0     0     0     0     0     0     0     0     0     0
## X6112     1     0     0     0     0     0     0     0     0     0     0     0
## X6114     2     0     0     0     0     1     0     0     1     0     0     0
## X6115     2     0     0     0     0     1     1     1     1     0     1     0
## X6117     0     1     1     1     1     1     0     1     0     1     0     1
## X6201     1     0     0     0     0     0     0     0     0     0     0     0
## X6202     1     0     0     0     0     0     0     0     0     0     0     0
## X6203     1     1     1     1     1     1     0     1     0     1     0     1
## X6204     1     0     0     0     0     0     0     0     0     0     0     0
## X6205     1     1     1     1     1     2     1     2     1     1     1     1
## X6206     3     0     0     0     0     2     2     1     2     0     1     0
## X6210     1     0     0     0     0     0     0     0     0     0     0     0
## X6211     1     1     1     1     1     1     0     1     1     1     0     1
## X6212     3     1     1     1     1     2     0     1     3     1     0     1
## X6217     1     0     0     0     0     0     0     0     0     0     0     0
## X6302     1     0     0     0     0     0     0     0     0     0     0     0
## X6303     1     0     0     0     0     0     0     0     0     0     0     0
## X6304     1     0     0     0     0     0     0     0     0     0     0     0
## X6305     2     0     0     0     0     0     0     0     1     0     0     0
## X6306     1     0     0     0     0     0     0     0     1     0     0     0
## X6307     1     0     0     0     0     0     0     0     0     0     0     0
## X6401     1     0     0     0     0     1     1     1     1     0     1     0
## X6403     1     0     0     0     0     1     1     1     2     0     1     0
## X6404     1     0     0     0     0     0     0     0     1     0     0     0
##       X2104 X2106 X2202 X2206 X2208 X2209 X2302 X2309 X2402 X2403 X2507 X2508
## X102      0     0     0     0     1     0     0     0     1     1     0     1
## X210      1     2     1     0     0     1     1     0     0     0     0     0
## X401      0     1     1     0     1     0     0     1     1     1     0     2
```

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## X403      1     2     1     0     1     1     1     0     1     1     0     1
## X406      0     1     1     0     0     1     0     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     1     2     1     1     1     0     0     1     1     2     1
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     0     0     1     0     0     0     0     0     0     1     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0     0     0     0     0     0     0     0     0     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     0     1     0     0     0     1     1     0     1
## X813      0     0     0     1     0     0     0     0     0     0     1     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      1     1     0     0     0     0     1     0     0     0     0     0
## X1001     0     0     1     0     0     0     0     0     0     0     0     0
## X1003     0     1     2     0     1     0     0     1     1     1     0     2
## X1005     0     0     1     0     0     0     0     0     0     0     0     0
## X1102     0     1     1     0     0     0     0     1     0     0     0     1
## X1108     0     1     1     0     0     0     0     1     0     0     0     1
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     1     1     0     0     0     0     1     0     0     0     1
## X1213     0     0     0     0     0     0     0     0     0     0     1     0
## X1214     0     0     1     1     1     0     0     0     0     0     2     0
## X1302     0     0     1     1     1     0     0     0     0     0     2     0
## X1507     0     1     1     0     0     1     0     0     0     0     0     0
## X1514     0     1     1     0     0     1     0     0     0     0     0     0
## X1517     0     1     1     0     1     0     0     1     1     1     0     2
## X1601     1     2     1     0     0     1     1     0     0     0     0     0
## X1602     1     2     1     0     1     1     1     0     1     1     0     1
## X1704     1     1     0     1     1     0     1     0     1     1     1     1
## X1806     1     2     1     1     1     0     1     1     1     1     1     2
## X1901     0     2     2     1     1     1     0     1     1     1     1     2
## X1902     0     1     1     0     0     1     0     0     0     0     0     0
## X1905     0     1     1     1     1     0     0     1     1     1     1     2
## X2001     0     1     1     0     0     1     0     0     0     0     0     0
## X2002     0     1     1     0     0     1     0     0     0     0     0     0
## X2003     0     1     1     0     0     1     0     0     0     0     0     0
## X2004     0     1     1     0     0     1     0     0     0     0     0     0
## X2005     0     1     1     1     1     1     0     0     1     1     1     1
## X2006     0     0     0     0     1     0     0     0     1     1     0     1
## X2007     0     1     1     0     1     1     0     0     1     1     0     1
## X2008     1     2     1     1     1     0     1     1     1     1     1     2
## X2101     0     1     1     0     0     1     0     0     0     0     0     0
## X2102     1     1     0     0     1     0     1     0     1     1     0     1
## X2103     1     2     1     0     0     1     1     0     0     0     0     0
## X2104     0     1     0     0     0     0     1     0     0     0     0     0
## X2106     1     0     2     0     0     1     1     1     0     0     0     1
## X2202     0     2     0     0     0     1     0     1     0     0     0     1
## X2206     0     0     0     0     0     0     0     0     0     0     1     0
## X2208     0     0     0     0     0     0     0     0     1     1     0     1
## X2209     0     1     1     0     0     0     0     0     0     0     0     0
## X2302     1     1     0     0     0     0     0     0     0     0     0     0
## X2309     0     1     1     0     0     0     0     0     0     0     0     1
## X2402     0     0     0     0     1     0     0     0     0     1     0     1
## X2403     0     0     0     0     1     0     0     0     1     0     0     1
## X2507     0     0     0     1     0     0     0     0     0     0     0     0
## X2508     0     1     1     0     1     0     0     1     1     1     0     0
## X2512     0     0     0     0     1     0     0     0     0     0     0     0
## X2517     0     0     1     1     1     0     0     0     1     1     1     1
## X2519     0     1     1     0     0     0     0     1     0     0     0     1
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     0     0     0     1     0     0     0     1     1     1     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     0     1     0     0     0     1     1     0     1
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     1     1     0     0     0     0     1     0     0     0     0     0
## X2713     0     0     0     0     0     0     0     0     0     0     0     0
## X2714     0     0     0     0     0     0     0     0     0     0     0     0
## X2716     0     0     0     0     2     0     0     0     1     1     1     1
## X2804     1     2     1     0     1     0     1     1     1     1     0     2
## X2811     1     2     1     0     1     0     1     1     1     1     0     2
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     0     1     1     0     0     0     0     1     0     0     0     1
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## X2832     0     1     1     0     0     0     0     1     0     0     0     1
## X2833     0     1     1     0     0     0     0     1     0     0     0     1
## X2835     0     1     1     0     0     0     0     1     0     0     0     1
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     1     2     1     0     1     0     1     1     1     1     0     2
## X2903     0     0     0     0     0     0     0     0     0     0     0     0
## X2907     0     1     1     0     0     0     0     1     0     0     0     1
## X2915     0     1     1     0     0     0     0     1     0     0     0     1
## X2933     0     1     1     0     0     0     0     1     0     0     0     1
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     1     1     0     0     0     0     1     0     0     0     1
## X3204     0     1     1     0     1     0     0     1     1     1     0     2
## X3205     0     0     0     0     0     0     0     0     0     0     0     0
## X3206     0     1     1     0     0     0     0     1     0     0     0     1
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     0     0     0     0     0     0     0     0     0     0     0
## X3209     0     0     0     0     0     0     0     0     0     0     0     0
## X3210     0     1     1     0     0     0     0     1     0     0     0     1
## X3211     0     0     0     0     0     0     0     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     0     0     0     0     0     0     0     0     0     0
## X3215     0     0     0     0     0     0     0     0     0     0     0     0
## X3302     0     2     2     0     0     1     0     1     0     0     0     1
## X3303     0     0     0     0     1     0     0     0     1     1     0     1
## X3304     0     0     0     0     1     0     0     0     1     1     0     1
## X3305     0     0     0     0     1     0     0     0     1     1     0     1
## X3307     0     0     0     0     1     0     0     0     1     1     0     1
## X3402     0     2     2     0     1     1     0     1     1     1     0     2
## X3403     0     1     1     0     1     0     0     1     1     1     0     2
## X3506     1     2     1     0     1     1     1     0     1     1     0     1
## X3507     0     2     2     0     0     1     0     1     0     0     0     1
## X3605     1     1     0     0     0     0     1     0     0     0     0     0
## X3701     0     0     0     0     0     0     0     0     0     0     0     0
## X3707     0     0     0     0     0     0     0     0     0     0     0     0
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     0     0     0     0     1     0     0     0     1     1     0     1
## X3809     0     1     1     0     1     0     0     1     1     1     0     2
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     1     1     0     0     0     0     1     0     0     0     1
## X3815     0     1     1     0     0     0     0     1     0     0     0     1
## X3816     0     0     0     0     1     0     0     0     1     1     0     1
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     1     1     0     0     0     0     1     0     0     0     0     0
## X3902     0     1     1     0     0     0     0     1     0     0     0     1
## X3908     0     1     1     0     1     1     0     0     1     1     0     1
## X3909     0     1     1     0     0     0     0     1     0     0     0     1
## X3910     0     1     1     0     0     0     0     1     0     0     0     1
## X3911     0     1     1     0     0     0     0     1     0     0     0     1
## X3915     0     1     1     0     0     0     0     1     0     0     0     1
## X3916     0     0     0     0     0     0     0     0     0     0     0     0
## X3917     0     1     1     1     1     0     0     1     1     1     1     2
## X3919     0     1     1     0     0     0     0     1     0     0     0     1
## X3920     1     2     1     0     0     0     1     1     0     0     0     1
## X3921     0     1     1     0     0     0     0     1     0     0     0     1
## X3923     0     1     1     1     0     1     0     0     0     0     1     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     1     1     0     0     0     0     1     0     0     0     1
## X3926     0     1     1     0     1     0     0     1     1     1     0     2
## X4001     0     0     0     0     0     0     0     0     0     0     0     0
## X4005     1     1     0     0     0     0     1     0     0     0     0     0
## X4006     1     1     0     0     0     0     1     0     0     0     0     0
## X4008     0     0     0     0     1     0     0     0     1     1     0     1
## X4009     1     1     0     0     0     0     1     0     0     0     0     0
## X4010     0     1     1     1     0     1     0     0     0     0     1     0
## X4012     1     1     0     0     0     0     1     0     0     0     0     0
## X4013     1     1     0     0     0     0     1     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     1     1     0     0     0     0     1     0     0     0     0     0
## X4202     0     1     2     0     0     0     0     1     0     0     0     1
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     2     2     1     0     1     0     1     0     0     1     1
## X4415     1     3     2     0     0     1     1     1     0     0     0     1
## X4416     0     1     1     1     1     0     0     1     0     0     1     1
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     1     0     0     0     0     0     0     1     0
## X4421     0     0     0     1     1     0     0     0     1     1     1     1
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
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## X4804     0     1     1     0     0     0     0     1     0     0     0     1
## X4808     0     1     1     0     0     0     0     1     0     0     0     1
## X4818     0     0     0     0     0     0     0     0     0     0     0     0
## X4819     0     1     1     0     0     1     0     0     0     0     0     0
## X4821     0     1     1     0     0     1     0     0     0     0     0     0
## X4822     0     1     1     0     0     0     0     1     0     0     0     1
## X4823     0     1     1     0     0     0     0     1     0     0     0     1
## X4901     0     0     0     0     1     0     0     0     1     1     0     1
## X4902     0     0     0     0     1     0     0     0     1     1     0     1
## X4907     0     0     0     0     1     0     0     0     1     1     0     1
## X4911     0     1     1     0     1     1     0     0     1     1     0     1
## X5111     0     1     1     0     1     0     0     1     0     0     0     1
## X5112     0     0     0     0     1     0     0     0     0     0     0     0
## X5205     0     0     0     0     0     0     0     0     0     0     0     0
## X5206     0     0     0     0     0     0     0     0     0     0     0     0
## X5208     0     0     0     0     0     0     0     0     0     0     0     0
## X5209     0     1     1     0     0     1     0     0     0     0     0     0
## X5210     0     0     1     0     0     0     0     0     0     0     0     0
## X5211     0     0     0     0     0     0     0     0     0     0     0     0
## X5402     0     0     0     0     0     0     0     0     0     0     0     0
## X5407     0     1     1     0     1     0     0     1     1     1     0     2
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     1     0     0     0     0     0     0     1     0
## X5508     0     1     1     0     1     1     0     0     1     1     0     1
## X5509     0     0     0     1     0     0     0     0     0     0     1     0
## X5511     0     0     0     1     0     0     0     0     0     0     1     0
## X5512     0     1     1     1     0     1     0     0     0     0     1     0
## X5513     0     0     1     0     0     0     0     0     0     0     0     0
## X5514     0     0     0     0     0     0     0     0     0     0     0     0
## X5515     0     1     1     0     1     1     0     0     0     0     0     0
## X5516     0     0     1     0     0     0     0     0     0     0     0     0
## X5601     0     0     0     0     1     0     0     0     1     1     0     1
## X5603     0     2     3     0     0     1     0     1     0     0     0     1
## X5609     0     0     0     1     0     0     0     0     0     0     1     0
## X5806     0     1     1     0     0     1     0     0     0     0     0     0
## X5807     0     1     1     0     0     1     0     0     0     0     0     0
## X5903     0     1     1     0     0     0     0     1     0     0     0     1
## X5907     0     1     1     0     0     1     0     0     0     0     0     0
## X5911     0     0     1     1     1     0     0     0     0     0     1     0
## X6002     0     2     2     0     1     1     0     1     1     1     0     2
## X6101     0     1     1     0     0     1     0     0     0     0     0     0
## X6103     0     0     0     0     0     0     0     0     0     0     0     0
## X6104     0     0     0     0     1     0     0     0     1     1     0     1
## X6105     0     1     1     0     0     1     0     0     0     0     0     0
## X6106     0     0     0     0     1     0     0     0     1     1     0     1
## X6107     0     0     0     0     0     0     0     0     0     0     0     0
## X6109     0     0     0     0     0     0     0     0     0     0     0     0
## X6110     0     1     1     1     0     1     0     0     0     0     1     0
## X6111     0     0     0     0     0     0     0     0     0     0     0     0
## X6112     0     0     0     0     0     0     0     0     0     0     0     0
## X6114     0     0     1     1     1     0     0     0     0     0     2     0
## X6115     0     0     0     0     1     0     0     0     1     1     0     1
## X6117     0     1     1     0     0     1     0     0     0     0     0     0
## X6201     0     0     0     0     0     0     0     0     0     0     0     0
## X6202     0     0     0     0     0     0     0     0     0     0     0     0
## X6203     0     1     1     0     0     1     0     0     0     0     0     0
## X6204     0     0     0     0     0     0     0     0     0     0     0     0
## X6205     0     1     1     0     1     1     0     0     1     1     0     1
## X6206     0     0     0     1     1     0     0     0     1     1     1     1
## X6210     0     0     0     0     0     0     0     0     0     0     0     0
## X6211     0     1     2     0     0     1     0     0     0     0     0     0
## X6212     0     2     2     0     0     1     0     1     0     0     0     1
## X6217     0     0     0     0     0     0     0     0     0     0     0     0
## X6302     0     0     0     0     0     0     0     0     0     0     0     0
## X6303     0     0     0     0     0     0     0     0     0     0     0     0
## X6304     0     0     0     0     0     0     0     0     0     0     0     0
## X6305     0     1     1     0     0     0     0     1     0     0     0     1
## X6306     0     1     1     0     0     0     0     1     0     0     0     1
## X6307     0     0     0     0     0     0     0     0     0     0     0     0
## X6401     0     0     0     0     1     0     0     0     1     1     0     1
## X6403     0     0     0     0     1     0     0     0     1     1     0     1
## X6404     0     1     1     0     0     0     0     1     0     0     0     1
##       X2512 X2517 X2519 X2520 X2522 X2525 X2530 X2602 X2606 X2607 X2608 X2710
## X102      0     1     0     0     0     0     1     0     1     0     0     0
## X210      0     0     0     0     0     0     0     0     0     0     0     1
## X401      0     1     1     0     0     0     1     0     1     0     0     0
## X403      0     1     0     0     0     0     1     0     1     0     0     1
## X406      0     0     0     0     0     0     0     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
```

```
## X602      0     3     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0    10     0     0     0     1     3     0     1     1     1     0
## X703      0     2     0     0     0     0     1     0     0     1     1     0
## X709      0     6     0     0     2     1     1     2     0     0     0     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0    13     0     1     2     1     1     1     0     0     0     0
## X804      0     4     0     1     0     0     1     0     0     1     1     0
## X805      0     3     0     1     0     0     0     2     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     1     0     0     0     0     1     0     1     0     0     0
## X813      0     1     0     0     0     0     0     0     0     0     0     0
## X901      0     2     0     0     0     0     0     2     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     0     0     1
## X1001     0     5     0     0     1     1     0     0     0     0     0     0
## X1003     0     8     1     0     0     0     2     0     1     0     0     0
## X1005     0     3     0     0     1     0     1     0     0     0     0     0
## X1102     0     0     1     0     0     0     0     0     0     0     0     0
## X1108     0     0     1     0     0     0     0     0     0     0     0     0
## X1202     0     2     0     1     0     0     0     0     0     0     0     0
## X1208     0     0     1     0     0     0     0     0     0     0     0     0
## X1213     0     3     0     0     0     1     2     0     0     0     0     0
## X1214     1     7     0     0     2     0     2     0     0     0     0     0
## X1302     1     7     0     0     2     0     2     2     0     0     0     0
## X1507     0     0     0     0     0     0     0     0     0     0     0     0
## X1514     0     0     0     0     0     0     0     0     0     0     0     0
## X1517     0     1     1     0     0     0     1     0     1     0     0     0
## X1601     0     0     0     0     0     0     0     0     0     0     0     1
## X1602     0     1     0     0     0     0     1     0     1     0     0     1
## X1704     0     2     0     0     0     0     1     0     1     0     0     1
## X1806     0     2     1     0     0     0     1     0     1     0     0     1
## X1901     0     2     1     0     0     0     1     0     1     0     0     0
## X1902     0     0     0     0     0     0     0     0     0     0     0     0
## X1905     0     3     1     0     0     0     1     0     1     0     0     0
## X2001     0     0     0     0     0     0     0     0     0     0     0     0
## X2002     0     0     0     0     0     0     0     0     0     0     0     0
## X2003     0     0     0     0     0     0     0     0     0     0     0     0
## X2004     0     0     0     0     0     0     0     0     0     0     0     0
## X2005     0     2     0     0     0     0     1     0     1     0     0     0
## X2006     0     2     0     0     0     0     1     0     1     0     0     0
## X2007     0     1     0     0     0     0     1     0     1     0     0     0
## X2008     0     2     1     0     0     0     1     0     1     0     0     1
## X2101     0     0     0     0     0     0     0     0     0     0     0     0
## X2102     0     1     0     0     0     0     1     0     1     0     0     1
## X2103     0     0     0     0     0     0     0     0     0     0     0     1
## X2104     0     0     0     0     0     0     0     0     0     0     0     1
## X2106     0     0     1     0     0     0     0     0     0     0     0     1
## X2202     0     1     1     0     0     0     0     0     0     0     0     0
## X2206     0     1     0     0     0     0     0     0     0     0     0     0
## X2208     1     1     0     0     0     0     1     0     1     0     0     0
## X2209     0     0     0     0     0     0     0     0     0     0     0     0
## X2302     0     0     0     0     0     0     0     0     0     0     0     1
## X2309     0     0     1     0     0     0     0     0     0     0     0     0
## X2402     0     1     0     0     0     0     1     0     1     0     0     0
## X2403     0     1     0     0     0     0     1     0     1     0     0     0
## X2507     0     1     0     0     0     0     1     0     0     0     0     0
## X2508     0     1     1     0     0     0     1     0     1     0     0     0
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     0     0     0     1     1     1     3     0     1     1     1     0
## X2519     0     0     0     0     0     0     0     0     0     0     0     0
## X2520     0     1     0     0     0     0     0     0     0     0     0     0
## X2522     0     1     0     0     0     0     0     0     0     0     0     0
## X2525     0     1     0     0     0     0     0     0     0     0     0     0
## X2530     0     3     0     0     0     0     0     0     1     0     0     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     1     0     0     0     0     1     0     0     0     0     0
## X2607     0     1     0     0     0     0     0     0     0     0     1     0
## X2608     0     1     0     0     0     0     0     0     0     1     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     0     0
## X2713     0     0     0     0     0     0     0     0     0     0     0     0
## X2714     0     0     0     0     0     0     0     0     0     0     0     0
## X2716     1     2     0     0     0     1     2     0     1     0     0     0
## X2804     0     1     1     0     0     0     1     0     1     0     0     1
## X2811     0     1     1     0     0     0     1     0     1     0     0     1
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     0     0     1     0     0     0     0     0     0     0     0     0
## X2832     0     0     1     0     0     0     0     0     0     0     0     0
## X2833     0     0     1     0     0     0     0     0     0     0     0     0
## X2835     0     0     1     0     0     0     0     0     0     0     0     0
```

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## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     1     1     0     0     0     1     0     1     0     0     1
## X2903     0     0     0     0     0     0     0     0     0     0     0     0
## X2907     0     0     1     0     0     0     0     0     0     0     0     0
## X2915     0     0     1     0     0     0     0     0     0     0     0     0
## X2933     0     0     1     0     0     0     0     0     0     0     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     1     0     0     0     0     0     0     0     0     0
## X3204     0     2     1     0     0     0     1     0     1     0     0     0
## X3205     0     0     0     0     0     0     0     0     0     0     0     0
## X3206     0     0     1     0     0     0     0     0     0     0     0     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     0     0     0     0     0     0     0     0     0     0     0
## X3209     0     0     0     0     0     0     0     0     0     0     0     0
## X3210     0     0     1     0     0     0     0     0     0     0     0     0
## X3211     0     0     0     0     0     0     0     0     0     0     0     0
## X3212     0     1     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     0     0     0     0     0     0     0     0     0     0
## X3215     0     0     0     0     0     0     0     0     0     0     0     0
## X3302     0     0     1     0     0     0     0     0     0     0     0     0
## X3303     0     1     0     0     0     0     1     0     1     0     0     0
## X3304     0     1     0     0     0     0     1     0     1     0     0     0
## X3305     0     1     0     0     0     0     1     0     1     0     0     0
## X3307     0     1     0     0     0     0     1     0     1     0     0     0
## X3402     0     1     1     0     0     0     1     0     1     0     0     0
## X3403     0     1     1     0     0     0     1     0     1     0     0     0
## X3506     0     1     0     0     0     0     1     0     1     0     0     1
## X3507     0     0     1     0     0     0     0     0     0     0     0     0
## X3605     0     0     0     0     0     0     0     0     0     0     0     1
## X3701     0     0     0     0     0     0     0     0     0     0     0     0
## X3707     0     0     0     0     0     0     0     0     0     0     0     0
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     0     1     0     0     0     0     1     0     1     0     0     0
## X3809     0     2     1     0     1     0     1     0     1     0     0     0
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     0     1     0     0     0     0     0     0     0     0     0
## X3815     0     0     1     0     0     0     0     0     0     0     0     0
## X3816     0     1     0     0     0     0     1     0     1     0     0     0
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     0     1
## X3902     0     0     1     0     0     0     0     0     0     0     0     0
## X3908     0     1     0     0     0     0     1     0     1     0     0     0
## X3909     0     0     1     0     0     0     0     0     0     0     0     0
## X3910     0     0     1     0     0     0     0     0     0     0     0     0
## X3911     0     0     1     0     0     0     0     0     0     0     0     0
## X3915     0     0     1     0     0     0     0     0     0     0     0     0
## X3916     0     0     0     0     0     0     0     0     0     0     0     0
## X3917     0     3     1     0     1     0     1     0     1     0     0     0
## X3919     0     0     1     0     0     0     0     0     0     0     0     0
## X3920     0     0     1     0     0     0     0     0     0     0     0     1
## X3921     0     0     1     0     0     0     0     0     0     0     0     0
## X3923     0     1     0     0     0     0     0     0     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     1     0     0     0     0     0     0     0     0     0
## X3926     0     3     1     0     0     0     1     0     1     0     0     0
## X4001     0     0     0     0     0     0     0     0     0     0     0     0
## X4005     0     0     0     0     0     0     0     0     0     0     0     1
## X4006     0     0     0     0     0     0     0     0     0     0     0     1
## X4008     0     1     0     0     0     0     1     0     1     0     0     0
## X4009     0     0     0     0     0     0     0     0     0     0     0     1
## X4010     0     2     0     0     1     0     0     0     0     0     0     0
## X4012     0     0     0     0     0     0     0     0     0     0     0     1
## X4013     0     0     0     0     0     0     0     0     0     0     0     1
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     0     0     0     0     1
## X4202     0     2     1     0     0     0     1     0     0     0     0     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     1     1     0     0     0     0     0     0     0     0     0
## X4415     0     0     1     0     0     0     0     0     0     0     0     1
## X4416     1     2     1     0     1     0     0     0     0     0     0     0
## X4418     0     1     0     0     0     1     0     0     0     0     0     0
## X4420     0     1     0     0     0     0     0     0     0     0     0     0
## X4421     0     2     0     0     0     0     1     0     1     0     0     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     1     0     0     0     0     0     0     0     0     0
## X4808     0     0     1     0     0     0     0     0     0     0     0     0
## X4818     0     0     0     0     0     0     0     0     0     0     0     0
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## X4819     0     0     0     0     0     0     0     0     0     0     0     0
## X4821     0     0     0     0     0     0     0     0     0     0     0     0
## X4822     0     0     1     0     0     0     0     0     0     0     0     0
## X4823     0     0     1     0     0     0     0     0     0     0     0     0
## X4901     0     1     0     0     0     0     1     0     1     0     0     0
## X4902     0     1     0     0     0     0     1     0     1     0     0     0
## X4907     0     1     0     0     0     0     1     0     1     0     0     0
## X4911     0     1     0     0     0     0     1     0     1     0     0     0
## X5111     1     0     1     0     0     0     0     0     0     0     0     0
## X5112     1     0     0     0     0     0     0     0     0     0     0     0
## X5205     0     0     0     0     0     0     0     0     0     0     0     0
## X5206     0     0     0     0     0     0     0     0     0     0     0     0
## X5208     0     0     0     0     0     0     0     0     0     0     0     0
## X5209     0     0     0     0     0     0     0     0     0     0     0     0
## X5210     0     1     0     0     0     0     0     0     0     0     0     0
## X5211     0     0     0     0     0     0     0     0     0     0     0     0
## X5402     0     0     0     0     0     0     0     0     0     0     0     0
## X5407     0     1     1     0     0     0     1     0     1     0     0     0
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     1     0     0     0     0     0     0     0     0     0     0
## X5508     0     1     0     0     0     0     1     0     1     0     0     0
## X5509     0     1     0     0     0     0     0     0     0     0     0     0
## X5511     0     1     0     0     0     0     0     0     0     0     0     0
## X5512     0     1     0     0     0     0     0     0     0     0     0     0
## X5513     0     1     0     0     0     0     0     0     0     0     0     0
## X5514     0     0     0     0     0     0     0     0     0     0     0     0
## X5515     1     0     0     0     0     0     0     0     0     0     0     0
## X5516     0     1     0     0     0     0     0     0     0     0     0     0
## X5601     0     1     0     0     0     0     1     0     1     0     0     0
## X5603     0     1     1     0     0     0     0     0     0     0     0     0
## X5609     0     1     0     0     0     0     0     0     0     0     0     0
## X5806     0     0     0     0     0     0     0     0     0     0     0     0
## X5807     0     0     0     0     0     0     0     0     0     0     0     0
## X5903     0     0     1     0     0     0     0     0     0     0     0     0
## X5907     0     0     0     0     0     0     0     0     0     0     0     0
## X5911     1     2     0     0     0     0     0     0     0     0     0     0
## X6002     0     1     1     0     0     0     1     0     1     0     0     0
## X6101     0     0     0     0     0     0     0     0     0     0     0     0
## X6103     0     0     0     0     0     0     0     0     0     0     0     0
## X6104     0     1     0     0     0     0     1     0     1     0     0     0
## X6105     0     0     0     0     0     0     0     0     0     0     0     0
## X6106     0     1     0     0     0     0     1     0     1     0     0     0
## X6107     0     0     0     0     0     0     0     0     0     0     0     0
## X6109     0     0     0     0     0     0     0     0     0     0     0     0
## X6110     0     1     0     0     0     0     0     0     0     0     0     0
## X6111     0     0     0     0     0     0     0     0     0     0     0     0
## X6112     0     1     0     0     1     0     0     0     0     0     0     0
## X6114     1     2     0     0     0     0     1     0     0     0     0     0
## X6115     0     1     0     0     0     0     1     0     1     0     0     0
## X6117     0     0     0     0     0     0     0     0     0     0     0     0
## X6201     0     0     0     0     0     0     0     0     0     0     0     0
## X6202     0     0     0     0     0     0     0     0     0     0     0     0
## X6203     0     0     0     0     0     0     0     0     0     0     0     0
## X6204     0     0     0     0     0     0     0     0     0     0     0     0
## X6205     0     1     0     0     0     0     1     0     1     0     0     0
## X6206     0     3     0     0     0     0     1     0     1     0     0     0
## X6210     0     0     0     0     0     0     0     0     0     0     0     0
## X6211     0     1     0     0     0     0     0     0     0     0     0     0
## X6212     0     1     1     0     0     1     0     0     0     0     0     0
## X6217     0     0     0     0     0     0     0     0     0     0     0     0
## X6302     0     0     0     0     0     0     0     0     0     0     0     0
## X6303     0     0     0     0     0     0     0     0     0     0     0     0
## X6304     0     0     0     0     0     0     0     0     0     0     0     0
## X6305     0     0     1     0     0     0     0     0     0     0     0     0
## X6306     0     0     1     0     0     0     0     0     0     0     0     0
## X6307     0     0     0     0     0     0     0     0     0     0     0     0
## X6401     0     1     0     0     0     0     1     0     1     0     0     0
## X6403     0     1     0     0     0     0     1     0     1     0     0     0
## X6404     0     0     1     0     0     0     0     0     0     0     0     0
##       X2713 X2714 X2716 X2804 X2811 X2825 X2826 X2832 X2833 X2835 X2836 X2901
## X102      0     0     1     1     1     0     0     0     0     0     0     1
## X210      0     0     0     1     1     0     0     0     0     0     0     1
## X401      0     0     1     2     2     0     1     1     1     1     0     2
## X403      0     0     2     2     2     0     0     0     0     0     0     2
## X406      0     0     0     0     0     0     0     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     1     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     3     1     1     0     0     0     0     0     1     1
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## X703      0     0     1     0     0     0     0     0     0     0     0     0
## X709      0     0     3     0     0     0     0     0     0     0     1     0
## X712      0     0     0     0     0     1     0     0     0     0     0     0
## X713      0     0     4     0     0     0     0     0     0     0     1     0
## X804      0     0     1     0     0     0     0     0     0     0     0     0
## X805      0     0     1     0     0     0     0     0     0     0     0     0
## X808      0     0     1     0     0     0     0     0     0     0     0     0
## X809      0     0     1     1     1     0     0     0     0     0     0     1
## X813      0     0     0     0     0     0     0     0     0     0     0     0
## X901      0     0     1     0     0     0     0     0     0     0     0     0
## X904      0     0     0     1     1     0     0     0     0     0     0     1
## X1001     0     0     3     0     0     0     0     0     0     0     1     0
## X1003     0     0     1     2     2     0     1     1     1     1     0     2
## X1005     0     0     1     0     0     0     0     0     0     0     0     0
## X1102     0     0     0     1     1     0     1     1     1     1     0     1
## X1108     0     0     0     1     1     0     1     1     1     1     0     1
## X1202     0     0     1     0     0     0     0     0     0     0     0     0
## X1208     0     0     0     1     1     0     1     1     1     1     0     1
## X1213     0     0     5     0     0     0     0     0     0     0     0     0
## X1214     0     0     4     0     0     0     0     0     0     0     1     0
## X1302     0     0     3     0     0     0     0     0     0     0     1     0
## X1507     0     0     0     0     0     0     0     0     0     0     0     0
## X1514     0     0     0     0     0     0     0     0     0     0     0     0
## X1517     0     0     1     2     2     0     1     1     1     1     0     2
## X1601     0     0     0     1     1     0     0     0     0     0     0     1
## X1602     0     0     1     2     2     0     0     0     0     0     0     2
## X1704     0     0     2     2     2     0     0     0     0     0     0     2
## X1806     0     0     2     3     3     0     1     1     1     1     0     3
## X1901     0     0     2     2     2     0     1     1     1     1     0     2
## X1902     0     0     0     0     0     0     0     0     0     0     0     0
## X1905     1     1     2     2     2     0     1     1     1     1     0     2
## X2001     0     0     0     0     0     0     0     0     0     0     0     0
## X2002     0     0     0     0     0     0     0     0     0     0     0     0
## X2003     0     0     0     0     0     0     0     0     0     0     0     0
## X2004     0     0     0     0     0     0     0     0     0     0     0     0
## X2005     0     0     2     1     1     0     0     0     0     0     0     1
## X2006     0     0     1     1     1     0     0     0     0     0     0     1
## X2007     0     0     1     1     1     0     0     0     0     0     0     1
## X2008     0     0     2     3     3     0     1     1     1     1     1     3
## X2101     0     0     0     0     0     0     0     0     0     0     0     0
## X2102     0     0     1     2     2     0     0     0     0     0     0     2
## X2103     0     0     0     1     1     0     0     0     0     0     0     1
## X2104     0     0     0     1     1     0     0     0     0     0     0     1
## X2106     0     0     0     2     2     0     1     1     1     1     0     2
## X2202     0     0     0     1     1     0     1     1     1     1     0     1
## X2206     0     0     0     0     0     0     0     0     0     0     0     0
## X2208     0     0     2     1     1     0     0     0     0     0     0     1
## X2209     0     0     0     0     0     0     0     0     0     0     0     0
## X2302     0     0     0     1     1     0     0     0     0     0     0     1
## X2309     0     0     0     1     1     0     1     1     1     1     0     1
## X2402     0     0     1     1     1     0     0     0     0     0     0     1
## X2403     0     0     1     1     1     0     0     0     0     0     0     1
## X2507     0     0     1     0     0     0     0     0     0     0     0     0
## X2508     0     0     1     2     2     0     1     1     1     1     0     2
## X2512     0     0     1     0     0     0     0     0     0     0     0     0
## X2517     0     0     2     1     1     0     0     0     0     0     0     1
## X2519     0     0     0     1     1     0     1     1     1     1     0     1
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     1     0     0     0     0     0     0     0     0     0
## X2530     0     0     2     1     1     0     0     0     0     0     0     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     1     1     1     0     0     0     0     0     0     1
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     1     1     0     0     0     0     0     0     1
## X2713     0     1     0     0     0     0     0     0     0     0     0     0
## X2714     1     0     0     0     0     0     0     0     0     0     0     0
## X2716     0     0     0     1     1     0     0     0     0     0     0     1
## X2804     0     0     1     0     3     0     1     1     1     1     0     3
## X2811     0     0     1     3     0     0     1     1     1     1     0     3
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     0     0     0     1     1     0     0     1     1     1     0     1
## X2832     0     0     0     1     1     0     1     0     1     1     0     1
## X2833     0     0     0     1     1     0     1     1     0     1     0     1
## X2835     0     0     0     1     1     0     1     1     1     0     0     1
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     0     1     3     3     0     1     1     1     1     0     0
## X2903     1     1     1     0     0     0     0     0     0     0     0     0
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## X2907     0     0     0     1     1     0     1     1     1     1     0     1
## X2915     0     0     0     1     1     0     1     1     1     1     0     1
## X2933     0     0     0     1     1     0     1     1     1     1     0     1
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     0     1     1     0     1     1     1     1     0     1
## X3204     0     0     1     2     2     0     1     1     1     1     0     2
## X3205     1     1     0     0     0     0     0     0     0     0     0     0
## X3206     1     1     0     1     1     0     1     1     1     1     0     1
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     1     1     0     0     0     1     0     0     0     0     0     0
## X3209     1     1     0     0     0     0     0     0     0     0     0     0
## X3210     0     0     0     1     1     0     1     1     1     1     0     1
## X3211     1     1     0     0     0     0     0     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     1     1     1     0     0     0     0     0     0     0     0     0
## X3215     1     1     0     0     0     0     0     0     0     0     0     0
## X3302     0     0     0     1     1     0     1     1     1     1     0     1
## X3303     0     0     1     1     1     0     0     0     0     0     0     1
## X3304     0     0     1     1     1     0     0     0     0     0     0     1
## X3305     0     0     2     1     1     0     0     0     0     0     0     1
## X3307     0     0     1     1     1     0     0     0     0     0     0     1
## X3402     0     0     2     2     2     0     1     1     1     1     0     2
## X3403     0     0     1     2     2     0     1     1     1     1     1     2
## X3506     1     1     1     2     2     0     0     0     0     0     0     2
## X3507     0     0     0     1     1     0     1     1     1     1     0     1
## X3605     0     0     0     1     1     0     0     0     0     0     0     1
## X3701     1     1     0     0     0     0     0     0     0     0     0     0
## X3707     1     1     0     0     0     0     0     0     0     0     0     0
## X3802     0     0     1     0     0     0     0     0     0     0     0     0
## X3808     0     0     1     1     1     0     0     0     0     0     0     1
## X3809     0     0     2     2     2     0     1     1     1     1     0     2
## X3810     0     0     0     0     0     1     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     1     0
## X3814     1     1     0     1     1     0     1     1     1     1     0     1
## X3815     0     0     0     1     1     0     1     1     1     1     0     1
## X3816     0     0     1     1     1     0     0     0     0     0     0     1
## X3819     0     0     0     0     0     0     0     0     0     0     1     0
## X3820     0     0     0     0     0     0     0     0     0     0     1     0
## X3823     0     0     0     1     1     0     0     0     0     0     0     1
## X3902     0     0     0     1     1     0     1     1     1     1     0     1
## X3908     0     0     1     1     1     0     0     0     0     0     0     1
## X3909     0     0     0     1     1     0     1     1     1     1     0     1
## X3910     0     0     0     1     1     0     1     1     1     1     0     1
## X3911     0     0     0     1     1     0     1     1     1     1     0     1
## X3915     0     0     0     1     1     0     1     1     1     1     0     1
## X3916     1     1     0     0     0     0     0     0     0     0     0     0
## X3917     0     0     1     2     2     0     1     1     1     1     0     2
## X3919     1     1     0     1     1     0     1     1     1     1     0     1
## X3920     1     1     0     2     2     0     1     1     1     1     0     2
## X3921     1     1     0     1     1     0     1     1     1     1     1     1
## X3923     0     0     0     0     0     0     0     0     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     0     1     1     0     1     1     1     1     0     1
## X3926     0     0     2     2     2     0     1     1     1     1     0     2
## X4001     1     1     0     0     0     0     0     0     0     0     0     0
## X4005     0     0     0     1     1     0     0     0     0     0     0     1
## X4006     0     0     0     1     1     0     0     0     0     0     0     1
## X4008     0     0     1     1     1     0     0     0     0     0     0     1
## X4009     0     0     0     1     1     0     0     0     0     0     0     1
## X4010     0     0     0     0     0     0     0     0     0     0     0     0
## X4012     0     0     0     1     1     0     0     0     0     0     0     1
## X4013     0     0     0     1     1     0     0     0     0     0     0     1
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     1     1     0     0     0     0     0     0     1
## X4202     1     1     0     1     1     0     1     1     1     1     0     1
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     0     0     1     1     0     1     1     1     1     0     1
## X4415     0     0     0     2     2     0     1     1     1     1     0     2
## X4416     0     0     1     1     1     0     1     1     1     1     0     1
## X4418     0     0     1     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     0
## X4421     0     0     1     1     1     0     0     0     0     0     0     1
## X4602     0     0     1     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     1     1     0     1     1     1     1     0     1
## X4808     1     1     1     1     1     0     1     1     1     1     0     1
## X4818     1     1     0     0     0     0     0     0     0     0     0     0
## X4819     0     0     0     0     0     0     0     0     0     0     0     0
## X4821     1     1     0     0     0     0     0     0     0     0     0     0
## X4822     0     0     0     1     1     0     1     1     1     1     0     1
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## X4823     0     0     1     1     1     0     1     1     1     1     0     1
## X4901     0     0     1     1     1     0     0     0     0     0     0     1
## X4902     0     0     1     1     1     0     0     0     0     0     0     1
## X4907     0     0     1     1     1     0     0     0     0     0     0     1
## X4911     0     0     1     1     1     0     0     0     0     0     0     1
## X5111     0     0     1     1     1     0     1     1     1     1     0     1
## X5112     0     0     1     0     0     0     0     0     0     0     0     0
## X5205     1     1     0     0     0     0     0     0     0     0     0     0
## X5206     1     1     0     0     0     0     0     0     0     0     0     0
## X5208     1     1     0     0     0     0     0     0     0     0     0     0
## X5209     1     1     0     0     0     0     0     0     0     0     0     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     1     1     0     0     0     0     0     0     0     0     0     0
## X5402     1     1     1     0     0     0     0     0     0     0     0     0
## X5407     1     1     1     2     2     0     1     1     1     1     0     2
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     0
## X5508     0     0     2     1     1     0     0     0     0     0     0     1
## X5509     1     1     0     0     0     0     0     0     0     0     0     0
## X5511     0     0     0     0     0     0     0     0     0     0     0     0
## X5512     0     0     0     0     0     0     0     0     0     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     1     1     0     0     0     0     0     0     0     0     0     0
## X5515     0     0     1     0     0     0     0     0     0     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     0     1     1     1     0     0     0     0     0     0     1
## X5603     0     0     0     1     1     0     1     1     1     1     0     1
## X5609     0     0     0     0     0     0     0     0     0     0     0     0
## X5806     1     1     0     0     0     0     0     0     0     0     0     0
## X5807     1     1     0     0     0     0     0     0     0     0     0     0
## X5903     0     0     0     1     1     0     1     1     1     1     0     1
## X5907     0     0     0     0     0     0     0     0     0     0     0     0
## X5911     1     1     1     0     0     0     0     0     0     0     0     0
## X6002     1     1     1     2     2     0     1     1     1     1     0     2
## X6101     0     0     0     0     0     0     0     0     0     0     0     0
## X6103     1     1     0     0     0     0     0     0     0     0     0     0
## X6104     1     1     1     1     1     0     0     0     0     0     0     1
## X6105     0     0     0     0     0     0     0     0     0     0     0     0
## X6106     1     1     1     1     1     0     0     0     0     0     0     1
## X6107     1     1     0     0     0     0     0     0     0     0     0     0
## X6109     1     1     0     0     0     0     0     0     0     0     0     0
## X6110     0     0     0     0     0     0     0     0     0     0     0     0
## X6111     1     1     0     0     0     0     0     0     0     0     0     0
## X6112     1     1     0     0     0     0     0     0     0     0     0     0
## X6114     1     1     2     0     0     0     0     0     0     0     0     0
## X6115     1     1     1     1     1     0     0     0     0     0     0     1
## X6117     0     0     0     0     0     0     0     0     0     0     0     0
## X6201     1     1     0     0     0     0     0     0     0     0     0     0
## X6202     1     1     0     0     0     0     0     0     0     0     0     0
## X6203     1     1     0     0     0     0     0     0     0     0     0     0
## X6204     1     1     0     0     0     0     0     0     0     0     0     0
## X6205     0     0     1     1     1     0     0     0     0     0     0     1
## X6206     1     1     1     1     1     0     0     0     0     0     0     1
## X6210     1     1     0     0     0     0     0     0     0     0     0     0
## X6211     1     1     0     0     0     0     0     0     0     0     1     0
## X6212     1     1     1     1     1     0     1     1     1     1     1     1
## X6217     1     1     0     0     0     0     0     0     0     0     0     0
## X6302     1     1     0     0     0     0     0     0     0     0     0     0
## X6303     1     1     0     0     0     0     0     0     0     0     0     0
## X6304     1     1     0     0     0     0     0     0     0     0     0     0
## X6305     1     1     0     1     1     0     1     1     1     1     0     1
## X6306     0     0     0     1     1     0     1     1     1     1     0     1
## X6307     1     1     0     0     0     0     0     0     0     0     0     0
## X6401     0     0     1     1     1     0     0     0     0     0     0     1
## X6403     0     0     1     1     1     0     0     0     0     0     1     1
## X6404     0     0     0     1     1     0     1     1     1     1     0     1
##       X2903 X2907 X2915 X2933 X3105 X3202 X3204 X3205 X3206 X3207 X3208 X3209
## X102      0     0     0     0     0     0     1     0     0     0     0     0
## X210      0     0     0     0     0     0     0     0     0     0     0     0
## X401      0     1     1     1     0     1     2     0     1     0     0     0
## X403      0     0     0     0     0     0     1     0     0     0     0     0
## X406      0     0     0     0     0     0     0     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     0     0     0     0     1     0     0     1     1     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      1     0     0     0     1     0     0     0     0     1     1     0
## X712      0     0     0     0     0     0     0     0     0     0     1     0
```

```
## X713      1     0     0     0     1     0     0     0     0     1     1     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     0     0     0     1     0     0     0     0     0
## X813      0     0     0     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     0     0     0
## X1001     1     0     0     0     1     0     0     0     0     0     0     0
## X1003     0     1     1     1     0     1     3     0     1     0     0     0
## X1005     0     0     0     0     1     0     0     0     0     0     0     0
## X1102     0     1     1     1     0     1     1     0     1     0     0     0
## X1108     0     1     1     1     0     1     1     0     1     0     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     1     1     1     0     1     1     0     1     0     0     0
## X1213     1     0     0     0     1     0     0     0     0     1     1     0
## X1214     1     0     0     0     1     0     0     0     0     1     1     0
## X1302     1     0     0     0     1     0     0     0     0     1     1     0
## X1507     0     0     0     0     0     0     0     0     0     0     0     0
## X1514     0     0     0     0     0     0     0     0     0     0     0     0
## X1517     0     1     1     1     0     1     2     0     1     0     0     0
## X1601     0     0     0     0     0     0     0     0     0     0     0     0
## X1602     0     0     0     0     0     0     1     0     0     0     0     0
## X1704     0     0     0     0     1     0     1     0     0     0     0     0
## X1806     0     1     1     1     1     1     2     0     1     0     0     0
## X1901     0     1     1     1     1     1     2     0     1     0     0     0
## X1902     0     0     0     0     0     0     0     0     0     0     0     0
## X1905     1     1     1     1     1     1     3     1     2     0     1     1
## X2001     0     0     0     0     0     0     0     0     0     0     0     0
## X2002     0     0     0     0     0     0     0     0     0     0     0     0
## X2003     0     0     0     0     0     0     0     0     0     0     0     0
## X2004     0     0     0     0     0     0     0     0     0     0     0     0
## X2005     0     0     0     0     1     0     1     0     0     0     0     0
## X2006     0     0     0     0     0     0     1     0     0     0     0     0
## X2007     0     0     0     0     0     0     1     0     0     0     0     0
## X2008     0     1     1     1     1     1     2     0     1     0     0     0
## X2101     0     0     0     0     0     0     0     0     0     0     0     0
## X2102     0     0     0     0     0     0     1     0     0     0     0     0
## X2103     0     0     0     0     0     0     0     0     0     0     0     0
## X2104     0     0     0     0     0     0     0     0     0     0     0     0
## X2106     0     1     1     1     0     1     1     0     1     0     0     0
## X2202     0     1     1     1     0     1     1     0     1     0     0     0
## X2206     0     0     0     0     0     0     0     0     0     0     0     0
## X2208     0     0     0     0     0     0     1     0     0     0     0     0
## X2209     0     0     0     0     0     0     0     0     0     0     0     0
## X2302     0     0     0     0     0     0     0     0     0     0     0     0
## X2309     0     1     1     1     0     1     1     0     1     0     0     0
## X2402     0     0     0     0     0     0     1     0     0     0     0     0
## X2403     0     0     0     0     0     0     1     0     0     0     0     0
## X2507     0     0     0     0     0     0     0     0     0     0     0     0
## X2508     0     1     1     1     0     1     2     0     1     0     0     0
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     0     0     0     0     0     0     2     0     0     0     0     0
## X2519     0     1     1     1     0     1     1     0     1     0     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     0     0     0     0     0     1     0     0     0     0     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     0     0     0     1     0     0     0     0     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     0     0
## X2713     1     0     0     0     0     0     0     1     1     0     1     1
## X2714     1     0     0     0     0     0     0     1     1     0     1     1
## X2716     1     0     0     0     0     0     1     0     0     0     0     0
## X2804     0     1     1     1     0     1     2     0     1     0     0     0
## X2811     0     1     1     1     0     1     2     0     1     0     0     0
## X2825     0     0     0     0     0     0     0     0     0     0     1     0
## X2826     0     1     1     1     0     1     1     0     1     0     0     0
## X2832     0     1     1     1     0     1     1     0     1     0     0     0
## X2833     0     1     1     1     0     1     1     0     1     0     0     0
## X2835     0     1     1     1     0     1     1     0     1     0     0     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     1     1     1     0     1     2     0     1     0     0     0
## X2903     0     0     0     0     0     0     0     1     1     0     1     1
## X2907     0     0     1     1     0     1     1     0     1     0     0     0
## X2915     0     1     0     1     0     1     1     0     1     0     0     0
## X2933     0     1     1     0     0     1     1     0     1     0     0     0
```

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## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     1     1     1     0     0     1     0     1     0     0     0
## X3204     0     1     1     1     0     1     0     0     1     0     0     0
## X3205     1     0     0     0     0     0     0     0     1     0     1     1
## X3206     1     1     1     1     0     1     1     1     0     0     1     1
## X3207     0     0     0     0     0     0     0     0     0     0     1     0
## X3208     1     0     0     0     0     0     0     1     1     1     0     1
## X3209     1     0     0     0     0     0     0     1     1     0     1     0
## X3210     0     1     1     1     0     1     1     0     1     0     0     0
## X3211     1     0     0     0     0     0     0     1     1     0     1     1
## X3212     0     0     0     0     0     0     1     0     0     0     0     0
## X3214     2     0     0     0     0     0     0     1     1     0     1     1
## X3215     1     0     0     0     0     0     0     1     1     0     1     1
## X3302     0     1     1     1     0     1     1     0     1     0     0     0
## X3303     0     0     0     0     0     0     1     0     0     0     0     0
## X3304     0     0     0     0     0     0     1     0     0     0     0     0
## X3305     0     0     0     0     0     0     1     0     0     0     0     0
## X3307     0     0     0     0     0     0     1     0     0     0     0     0
## X3402     0     1     1     1     0     1     2     0     1     0     0     0
## X3403     0     1     1     1     0     1     2     0     1     0     0     0
## X3506     1     0     0     0     0     0     1     1     1     0     1     1
## X3507     0     1     1     1     0     1     1     0     1     0     0     0
## X3605     0     0     0     0     0     0     0     0     0     0     0     0
## X3701     1     0     0     0     0     0     0     1     1     0     1     1
## X3707     1     0     0     0     0     0     0     1     1     0     1     1
## X3802     1     0     0     0     0     0     0     0     0     0     0     0
## X3808     0     0     0     0     0     0     1     0     0     0     0     0
## X3809     0     1     1     1     0     1     2     0     1     0     0     0
## X3810     0     0     0     0     0     0     0     0     0     0     1     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     1     1     1     1     0     1     1     1     2     0     1     1
## X3815     0     1     1     1     0     1     1     0     1     0     0     0
## X3816     0     0     0     0     0     0     1     0     0     0     0     0
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     0     0
## X3902     0     1     1     1     0     1     1     0     1     0     0     0
## X3908     0     0     0     0     0     0     1     0     0     0     0     0
## X3909     0     1     1     1     0     1     1     0     1     0     0     0
## X3910     0     1     1     1     0     1     1     0     1     0     0     0
## X3911     0     1     1     1     0     1     1     0     1     0     0     0
## X3915     0     1     1     1     0     1     1     0     1     0     0     0
## X3916     1     0     0     0     0     0     0     1     1     0     1     1
## X3917     0     1     1     1     0     1     2     0     1     0     0     0
## X3919     1     1     1     1     0     1     1     1     2     0     1     1
## X3920     1     1     1     1     0     1     1     1     2     0     1     1
## X3921     1     1     1     1     0     1     1     1     2     0     1     1
## X3923     0     0     0     0     0     0     0     0     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     1     1     1     0     1     1     0     1     0     0     0
## X3926     1     1     1     1     0     1     2     0     1     0     0     0
## X4001     1     0     0     0     0     0     0     1     1     0     1     1
## X4005     0     0     0     0     0     0     0     0     0     0     0     0
## X4006     0     0     0     0     0     0     0     0     0     0     0     0
## X4008     0     0     0     0     0     0     1     0     0     0     0     0
## X4009     0     0     0     0     0     0     0     0     0     0     0     0
## X4010     0     0     0     0     0     0     0     0     0     0     0     0
## X4012     0     0     0     0     0     0     0     0     0     0     0     0
## X4013     0     0     0     0     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     0     0     0     0     0
## X4202     1     1     1     1     0     1     1     1     2     0     1     1
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     1     1     1     0     1     1     0     1     0     0     0
## X4415     0     1     1     1     0     1     1     0     1     0     0     0
## X4416     0     1     1     1     0     1     1     0     1     0     0     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     0
## X4421     0     0     0     0     0     0     1     0     0     0     0     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     1     1     1     0     1     1     0     1     0     0     0
## X4808     2     1     1     1     0     1     1     1     2     0     1     1
## X4818     1     0     0     0     0     0     0     1     1     0     1     1
## X4819     0     0     0     0     0     0     0     0     0     0     0     0
## X4821     1     0     0     0     0     0     0     1     1     0     1     1
## X4822     0     1     1     1     0     1     1     0     1     0     0     0
## X4823     1     1     1     1     0     1     1     0     1     0     0     0
## X4901     0     0     0     0     0     0     1     0     0     0     0     0
## X4902     0     0     0     0     0     0     1     0     0     0     0     0
```

```
## X4907     0     0     0     0     0     0     1     0     0     0     0     0
## X4911     0     0     0     0     0     0     1     0     0     0     0     0
## X5111     0     1     1     1     0     1     1     0     1     0     0     0
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     1     0     0     0     0     0     0     1     1     0     1     1
## X5206     1     0     0     0     0     0     0     1     1     0     1     1
## X5208     1     0     0     0     0     0     0     1     1     0     1     1
## X5209     1     0     0     0     0     0     0     1     1     0     1     1
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     1     0     0     0     0     0     0     1     1     0     1     1
## X5402     2     0     0     0     0     0     0     1     1     0     1     1
## X5407     1     1     1     1     0     1     2     1     2     0     1     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     0
## X5508     1     0     0     0     0     0     1     0     0     0     0     0
## X5509     1     0     0     0     0     0     0     1     1     0     1     1
## X5511     0     0     0     0     0     0     0     0     0     0     0     0
## X5512     0     0     0     0     0     0     0     0     0     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     1     0     0     0     0     0     0     1     1     0     1     1
## X5515     0     0     0     0     0     0     0     0     0     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     0     0     0     0     0     1     0     0     0     0     0
## X5603     0     1     1     1     0     1     1     0     1     0     0     0
## X5609     0     0     0     0     0     0     0     0     0     0     0     0
## X5806     1     0     0     0     0     0     0     1     1     0     1     1
## X5807     1     0     0     0     0     0     0     1     1     0     1     1
## X5903     0     1     1     1     0     1     1     0     1     0     0     0
## X5907     0     0     0     0     0     0     0     0     0     0     0     0
## X5911     1     0     0     0     0     0     0     1     1     0     1     1
## X6002     1     1     1     1     0     1     2     1     2     0     1     1
## X6101     0     0     0     0     0     0     0     0     0     0     0     0
## X6103     1     0     0     0     0     0     0     1     1     0     1     1
## X6104     1     0     0     0     0     0     1     1     1     0     1     1
## X6105     0     0     0     0     0     0     0     0     0     0     0     0
## X6106     1     0     0     0     0     0     1     1     1     0     1     1
## X6107     1     0     0     0     0     0     0     1     1     0     1     1
## X6109     1     0     0     0     0     0     0     1     1     0     1     1
## X6110     0     0     0     0     0     0     0     0     0     0     0     0
## X6111     1     0     0     0     0     0     0     1     1     0     1     1
## X6112     1     0     0     0     0     0     0     1     1     0     1     1
## X6114     1     0     0     0     0     0     0     1     1     0     1     1
## X6115     1     0     0     0     0     0     1     1     1     0     1     1
## X6117     0     0     0     0     0     0     0     0     0     0     0     0
## X6201     1     0     0     0     0     0     0     1     1     0     1     1
## X6202     1     0     0     0     0     0     0     1     1     0     1     1
## X6203     1     0     0     0     0     0     0     1     1     0     1     1
## X6204     1     0     0     0     0     0     0     1     1     0     1     1
## X6205     0     0     0     0     0     0     1     0     0     0     0     0
## X6206     1     0     0     0     0     0     1     1     1     0     1     1
## X6210     1     0     0     0     0     0     0     1     1     0     1     1
## X6211     1     0     0     0     0     0     0     1     1     0     1     1
## X6212     1     1     1     1     1     1     1     1     2     0     1     1
## X6217     1     0     0     0     0     0     0     1     1     0     1     1
## X6302     1     0     0     0     0     0     0     1     1     0     1     1
## X6303     1     0     0     0     0     0     0     1     1     0     1     1
## X6304     1     0     0     0     0     0     0     1     1     0     1     1
## X6305     1     1     1     1     0     1     1     1     2     0     1     1
## X6306     0     1     1     1     0     1     1     0     1     0     0     0
## X6307     1     0     0     0     0     0     0     1     1     0     1     1
## X6401     0     0     0     0     0     0     1     0     0     0     0     0
## X6403     0     0     0     0     0     0     1     0     0     0     0     0
## X6404     0     1     1     1     0     1     1     0     1     0     0     0
##       X3210 X3211 X3212 X3214 X3215 X3302 X3303 X3304 X3305 X3307 X3402 X3403
## X102      0     0     0     0     0     0     1     1     1     1     1     1
## X210      0     0     0     0     0     1     0     0     0     0     1     0
## X401      1     0     0     0     0     1     1     1     1     1     2     2
## X403      0     0     0     0     0     1     1     1     2     1     3     1
## X406      0     0     0     0     0     1     0     0     0     0     1     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     0     0     0     1     1     1     1     1     2     2
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     0     0     1     0     0     0     0     0     0     0     1
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0     0     0     1     0     0     0     0     1     0     1     1
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     1     0     1     0
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## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     0     0     0     1     1     1     1     1     1
## X813      0     0     0     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     1     0     1     0
## X904      0     0     0     0     0     0     0     0     0     0     0     0
## X1001     0     0     0     1     0     0     0     0     0     0     0     1
## X1003     1     0     1     0     0     1     1     1     1     1     2     2
## X1005     0     0     0     0     0     0     0     0     0     0     0     0
## X1102     1     0     0     0     0     1     0     0     0     0     1     1
## X1108     1     0     0     0     0     1     0     0     0     0     1     1
## X1202     0     0     0     0     0     0     0     0     1     0     1     0
## X1208     1     0     0     0     0     1     0     0     0     0     1     1
## X1213     0     0     0     1     0     0     0     0     1     0     1     0
## X1214     0     0     0     1     0     0     0     0     0     0     0     1
## X1302     0     0     0     1     0     0     0     0     0     0     0     1
## X1507     0     0     0     0     0     1     0     0     0     0     1     0
## X1514     0     0     0     0     0     1     0     0     0     0     1     0
## X1517     1     0     0     0     0     1     1     1     1     1     2     2
## X1601     0     0     0     0     0     1     0     0     0     0     1     0
## X1602     0     0     0     0     0     1     1     1     1     1     2     1
## X1704     0     0     0     0     0     0     1     1     2     1     2     1
## X1806     1     0     0     0     0     1     1     1     2     1     3     2
## X1901     1     0     0     0     0     2     1     1     2     1     4     2
## X1902     0     0     0     0     0     1     0     0     0     0     1     0
## X1905     1     1     1     1     1     1     1     1     2     1     3     2
## X2001     0     0     0     0     0     1     0     0     0     0     1     0
## X2002     0     0     0     0     0     1     0     0     0     0     1     0
## X2003     0     0     0     0     0     1     0     0     0     0     1     0
## X2004     0     0     0     0     0     1     0     0     0     0     1     0
## X2005     0     0     0     0     0     1     1     1     2     1     3     1
## X2006     0     0     0     0     0     0     1     1     1     1     1     1
## X2007     0     0     0     0     0     1     1     1     1     1     2     1
## X2008     1     0     0     0     0     1     1     1     2     1     3     3
## X2101     0     0     0     0     0     1     0     0     0     0     1     0
## X2102     0     0     0     0     0     0     1     1     1     1     1     1
## X2103     0     0     0     0     0     1     0     0     0     0     1     0
## X2104     0     0     0     0     0     0     0     0     0     0     0     0
## X2106     1     0     0     0     0     2     0     0     0     0     2     1
## X2202     1     0     0     0     0     2     0     0     0     0     2     1
## X2206     0     0     0     0     0     0     0     0     0     0     0     0
## X2208     0     0     0     0     0     0     1     1     1     1     1     1
## X2209     0     0     0     0     0     1     0     0     0     0     1     0
## X2302     0     0     0     0     0     0     0     0     0     0     0     0
## X2309     1     0     0     0     0     1     0     0     0     0     1     1
## X2402     0     0     0     0     0     0     1     1     1     1     1     1
## X2403     0     0     0     0     0     0     1     1     1     1     1     1
## X2507     0     0     0     0     0     0     0     0     0     0     0     0
## X2508     1     0     0     0     0     1     1     1     1     1     2     2
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     0     0     1     0     0     0     1     1     1     1     1     1
## X2519     1     0     0     0     0     1     0     0     0     0     1     1
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     0     0     0     0     0     1     1     1     1     1     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     0     0     0     1     1     1     1     1     1
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     0     0
## X2713     0     1     0     1     1     0     0     0     0     0     0     0
## X2714     0     1     0     1     1     0     0     0     0     0     0     0
## X2716     0     0     0     1     0     0     1     1     2     1     2     1
## X2804     1     0     0     0     0     1     1     1     1     1     2     2
## X2811     1     0     0     0     0     1     1     1     1     1     2     2
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     1     0     0     0     0     1     0     0     0     0     1     1
## X2832     1     0     0     0     0     1     0     0     0     0     1     1
## X2833     1     0     0     0     0     1     0     0     0     0     1     1
## X2835     1     0     0     0     0     1     0     0     0     0     1     1
## X2836     0     0     0     0     0     0     0     0     0     0     0     1
## X2901     1     0     0     0     0     1     1     1     1     1     2     2
## X2903     0     1     0     2     1     0     0     0     0     0     0     0
## X2907     1     0     0     0     0     1     0     0     0     0     1     1
## X2915     1     0     0     0     0     1     0     0     0     0     1     1
## X2933     1     0     0     0     0     1     0     0     0     0     1     1
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     1     0     0     0     0     1     0     0     0     0     1     1
## X3204     1     0     1     0     0     1     1     1     1     1     2     2
```

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## X3205     0     1     0     1     1     0     0     0     0     0     0     0
## X3206     1     1     0     1     1     1     0     0     0     0     1     1
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     1     0     1     1     0     0     0     0     0     0     0
## X3209     0     1     0     1     1     0     0     0     0     0     0     0
## X3210     0     0     0     0     0     1     0     0     0     0     1     1
## X3211     0     0     0     1     1     0     0     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     1     0     0     1     0     0     0     0     0     0     0
## X3215     0     1     0     1     0     0     0     0     0     0     0     0
## X3302     1     0     0     0     0     0     0     0     0     0     2     1
## X3303     0     0     0     0     0     0     0     1     1     1     1     1
## X3304     0     0     0     0     0     0     1     0     1     1     1     1
## X3305     0     0     0     0     0     0     1     1     0     1     2     1
## X3307     0     0     0     0     0     0     1     1     1     0     1     1
## X3402     1     0     0     0     0     2     1     1     2     1     0     2
## X3403     1     0     0     0     0     1     1     1     1     1     2     0
## X3506     0     1     0     1     1     1     1     1     1     1     2     1
## X3507     1     0     0     0     0     2     0     0     0     0     2     1
## X3605     0     0     0     0     0     0     0     0     0     0     0     0
## X3701     0     1     0     1     1     0     0     0     0     0     0     0
## X3707     0     1     0     1     1     0     0     0     0     0     0     0
## X3802     0     0     0     1     0     0     0     0     0     0     0     0
## X3808     0     0     0     0     0     0     1     1     1     1     1     1
## X3809     1     0     0     0     0     1     1     1     2     1     3     2
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     1
## X3814     1     1     0     1     1     1     0     0     0     0     1     1
## X3815     1     0     0     0     0     1     0     0     0     0     1     1
## X3816     0     0     0     0     0     0     1     1     1     1     1     1
## X3819     0     0     0     0     0     0     0     0     0     0     0     1
## X3820     0     0     0     0     0     0     0     0     0     0     0     1
## X3823     0     0     0     0     0     0     0     0     0     0     0     0
## X3902     1     0     0     0     0     1     0     0     0     0     1     1
## X3908     0     0     0     0     0     1     1     1     1     1     2     1
## X3909     1     0     0     0     0     1     0     0     0     0     1     1
## X3910     1     0     0     0     0     1     0     0     0     0     1     1
## X3911     1     0     0     0     0     1     0     0     0     0     1     1
## X3915     1     0     0     0     0     1     0     0     0     0     1     1
## X3916     0     1     0     1     1     0     0     0     0     0     0     0
## X3917     1     0     0     0     0     1     1     1     1     1     2     2
## X3919     1     1     0     1     1     1     0     0     0     0     1     1
## X3920     1     1     0     1     1     1     0     0     0     0     1     1
## X3921     1     1     0     1     1     1     0     0     0     0     1     2
## X3923     0     0     0     0     0     1     0     0     0     0     1     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     1     0     0     0     0     1     0     0     0     0     1     1
## X3926     1     0     0     1     0     1     1     1     1     1     2     2
## X4001     0     1     0     1     1     0     0     0     0     0     0     0
## X4005     0     0     0     0     0     0     0     0     0     0     0     0
## X4006     0     0     0     0     0     0     0     0     0     0     0     0
## X4008     0     0     0     0     0     0     1     1     1     1     1     1
## X4009     0     0     0     0     0     0     0     0     0     0     0     0
## X4010     0     0     0     0     0     1     0     0     0     0     1     0
## X4012     0     0     0     0     0     0     0     0     0     0     0     0
## X4013     0     0     0     0     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     0     0     0     0     0
## X4202     1     1     0     1     1     1     0     0     0     0     1     1
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     1     0     0     0     0     2     0     0     0     0     2     1
## X4415     1     0     0     0     0     2     0     0     0     0     2     1
## X4416     1     0     0     0     0     1     0     0     0     0     1     1
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     0
## X4421     0     0     0     0     0     0     1     1     1     1     1     1
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     1     0     0     0     0     1     0     0     0     0     1     1
## X4808     1     1     0     2     1     1     0     0     0     0     1     1
## X4818     0     1     0     1     1     0     0     0     0     0     0     0
## X4819     0     0     0     0     0     1     0     0     0     0     1     0
## X4821     0     1     0     1     1     1     0     0     0     0     1     0
## X4822     1     0     0     0     0     1     0     0     0     0     1     1
## X4823     1     0     0     1     0     1     0     0     0     0     1     1
## X4901     0     0     0     0     0     0     1     1     1     1     1     1
## X4902     0     0     0     0     0     0     1     1     1     1     1     1
## X4907     0     0     0     0     0     0     1     1     1     1     1     1
## X4911     0     0     0     0     0     1     1     1     1     1     2     1
## X5111     1     0     0     0     0     1     0     0     0     0     1     1
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## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     0     1     0     1     1     0     0     0     0     0     0     0
## X5206     0     1     0     1     1     0     0     0     0     0     0     0
## X5208     0     1     0     1     1     0     0     0     0     0     0     0
## X5209     0     1     0     1     1     1     0     0     0     0     1     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     1     0     1     1     0     0     0     0     0     0     0
## X5402     0     1     0     2     1     0     0     0     0     0     0     0
## X5407     1     1     0     1     1     1     1     1     1     1     2     2
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     0
## X5508     0     0     0     1     0     1     1     1     1     1     2     1
## X5509     0     1     0     1     1     0     0     0     0     0     0     0
## X5511     0     0     0     0     0     0     0     0     0     0     0     0
## X5512     0     0     0     0     0     1     0     0     0     0     1     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     1     0     1     1     0     0     0     0     0     0     0
## X5515     0     0     0     0     0     1     0     0     0     0     1     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     0     0     0     0     0     1     1     1     1     1     1
## X5603     1     0     0     0     0     2     0     0     0     0     2     1
## X5609     0     0     0     0     0     0     0     0     0     0     0     0
## X5806     0     1     0     1     1     1     0     0     0     0     1     0
## X5807     0     1     0     1     1     1     0     0     0     0     1     0
## X5903     1     0     0     0     0     1     0     0     0     0     1     1
## X5907     0     0     0     0     0     1     0     0     0     0     1     0
## X5911     0     1     0     1     1     0     0     0     0     0     0     0
## X6002     1     1     0     1     1     2     1     1     1     1     3     2
## X6101     0     0     0     0     0     1     0     0     0     0     1     0
## X6103     0     1     0     1     1     0     0     0     0     0     0     0
## X6104     0     1     0     1     1     0     1     1     1     1     1     1
## X6105     0     0     0     0     0     1     0     0     0     0     1     0
## X6106     0     1     0     1     1     0     1     1     1     1     1     1
## X6107     0     1     0     1     1     0     0     0     0     0     0     0
## X6109     0     1     0     1     1     0     0     0     0     0     0     0
## X6110     0     0     0     0     0     1     0     0     0     0     1     0
## X6111     0     1     0     1     1     0     0     0     0     0     0     0
## X6112     0     1     0     1     1     0     0     0     0     0     0     0
## X6114     0     1     0     1     1     0     0     0     0     0     0     0
## X6115     0     1     0     1     1     0     1     1     1     1     1     1
## X6117     0     0     0     0     0     1     0     0     0     0     1     0
## X6201     0     1     0     1     1     0     0     0     0     0     0     0
## X6202     0     1     0     1     1     0     0     0     0     0     0     0
## X6203     0     1     0     1     1     1     0     0     0     0     1     0
## X6204     0     1     0     1     1     0     0     0     0     0     0     0
## X6205     0     0     0     0     0     1     1     1     1     1     2     1
## X6206     0     1     0     1     1     0     1     1     1     1     1     1
## X6210     0     1     0     1     1     0     0     0     0     0     0     0
## X6211     0     1     0     1     1     1     0     0     0     0     1     1
## X6212     1     1     0     1     1     2     0     0     0     0     2     2
## X6217     0     1     0     1     1     0     0     0     0     0     0     0
## X6302     0     1     0     1     1     0     0     0     0     0     0     0
## X6303     0     1     0     1     1     0     0     0     0     0     0     0
## X6304     0     1     0     1     1     0     0     0     0     0     0     0
## X6305     1     1     0     1     1     1     0     0     0     0     1     1
## X6306     1     0     0     0     0     1     0     0     0     0     1     1
## X6307     0     1     0     1     1     0     0     0     0     0     0     0
## X6401     0     0     0     0     0     0     1     1     1     1     1     1
## X6403     0     0     0     0     0     0     1     1     1     1     1     2
## X6404     1     0     0     0     0     1     0     0     0     0     1     1
##       X3506 X3507 X3605 X3701 X3707 X3802 X3808 X3809 X3810 X3811 X3814 X3815
## X102      1     0     0     0     0     0     1     1     0     0     0     0
## X210      2     1     1     0     0     0     0     0     0     0     0     0
## X401      1     1     0     0     0     0     1     2     0     0     1     1
## X403      3     1     1     0     0     0     1     2     0     0     0     0
## X406      1     1     0     0     0     0     0     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      2     1     0     0     0     0     1     1     0     1     0     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     0     0     0     0     1     0     1     0     1     0     0
## X712      0     0     0     0     0     0     0     0     1     0     0     0
## X713      0     0     0     0     0     1     0     2     0     1     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     1     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      1     0     0     0     0     0     1     1     0     0     0     0
## X813      0     0     0     0     0     0     0     0     0     0     0     0
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## X901      0     0     0     0     0     0     0     1     0     0     0     0
## X904      1     0     1     0     0     0     0     0     0     0     0     0
## X1001     0     0     0     0     0     1     0     0     0     1     0     0
## X1003     1     1     0     0     0     0     1     2     0     0     1     1
## X1005     0     0     0     0     0     0     0     0     0     0     0     0
## X1102     0     1     0     0     0     0     0     1     0     0     1     1
## X1108     0     1     0     0     0     0     0     1     0     0     1     1
## X1202     0     0     0     0     0     0     0     1     0     0     0     0
## X1208     0     1     0     0     0     0     0     1     0     0     1     1
## X1213     0     0     0     0     0     1     0     1     0     0     0     0
## X1214     0     0     0     0     0     1     0     1     0     1     0     0
## X1302     0     0     0     0     0     1     0     1     0     1     0     0
## X1507     1     1     0     0     0     0     0     0     0     0     0     0
## X1514     1     1     0     0     0     0     0     0     0     0     0     0
## X1517     1     1     0     0     0     0     1     2     0     0     1     1
## X1601     2     1     1     0     0     0     0     0     0     0     0     0
## X1602     3     1     1     0     0     0     1     1     0     0     0     0
## X1704     2     0     1     0     0     0     1     2     0     0     0     0
## X1806     2     1     1     0     0     0     1     3     0     0     1     1
## X1901     2     2     0     0     0     0     1     3     0     0     1     1
## X1902     1     1     0     0     0     0     0     0     0     0     0     0
## X1905     2     1     0     1     1     0     1     3     0     0     2     1
## X2001     1     1     0     0     0     0     0     0     0     0     0     0
## X2002     1     1     0     0     0     0     0     0     0     0     0     0
## X2003     1     1     0     0     0     0     0     0     0     0     0     0
## X2004     1     1     0     0     0     0     0     0     0     0     0     0
## X2005     2     1     0     0     0     0     1     2     0     0     0     0
## X2006     1     0     0     0     0     0     1     1     0     0     0     0
## X2007     2     1     0     0     0     0     1     1     0     0     0     0
## X2008     2     1     1     0     0     0     1     3     0     1     1     1
## X2101     1     1     0     0     0     0     0     0     0     0     0     0
## X2102     2     0     1     0     0     0     1     1     0     0     0     0
## X2103     2     1     1     0     0     0     0     0     0     0     0     0
## X2104     1     0     1     0     0     0     0     0     0     0     0     0
## X2106     2     2     1     0     0     0     0     1     0     0     1     1
## X2202     1     2     0     0     0     0     0     1     0     0     1     1
## X2206     0     0     0     0     0     0     0     0     0     0     0     0
## X2208     1     0     0     0     0     0     1     1     0     0     0     0
## X2209     1     1     0     0     0     0     0     0     0     0     0     0
## X2302     1     0     1     0     0     0     0     0     0     0     0     0
## X2309     0     1     0     0     0     0     0     1     0     0     1     1
## X2402     1     0     0     0     0     0     1     1     0     0     0     0
## X2403     1     0     0     0     0     0     1     1     0     0     0     0
## X2507     0     0     0     0     0     0     0     0     0     0     0     0
## X2508     1     1     0     0     0     0     1     2     0     0     1     1
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     1     0     0     0     0     0     1     2     0     0     0     0
## X2519     0     1     0     0     0     0     0     1     0     0     1     1
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     1     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     1     0     0     0     0     0     1     1     0     0     0     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     1     0     0     0     0     0     1     1     0     0     0     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     1     0     1     0     0     0     0     0     0     0     0     0
## X2713     1     0     0     1     1     0     0     0     0     0     1     0
## X2714     1     0     0     1     1     0     0     0     0     0     1     0
## X2716     1     0     0     0     0     1     1     2     0     0     0     0
## X2804     2     1     1     0     0     0     1     2     0     0     1     1
## X2811     2     1     1     0     0     0     1     2     0     0     1     1
## X2825     0     0     0     0     0     0     0     0     1     0     0     0
## X2826     0     1     0     0     0     0     0     1     0     0     1     1
## X2832     0     1     0     0     0     0     0     1     0     0     1     1
## X2833     0     1     0     0     0     0     0     1     0     0     1     1
## X2835     0     1     0     0     0     0     0     1     0     0     1     1
## X2836     0     0     0     0     0     0     0     0     0     1     0     0
## X2901     2     1     1     0     0     0     1     2     0     0     1     1
## X2903     1     0     0     1     1     1     0     0     0     0     1     0
## X2907     0     1     0     0     0     0     0     1     0     0     1     1
## X2915     0     1     0     0     0     0     0     1     0     0     1     1
## X2933     0     1     0     0     0     0     0     1     0     0     1     1
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     1     0     0     0     0     0     1     0     0     1     1
## X3204     1     1     0     0     0     0     1     2     0     0     1     1
## X3205     1     0     0     1     1     0     0     0     0     0     1     0
## X3206     1     1     0     1     1     0     0     1     0     0     2     1
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
```

```
## X3208     1     0     0     1     1     0     0     0     1     0     1     0
## X3209     1     0     0     1     1     0     0     0     0     0     1     0
## X3210     0     1     0     0     0     0     0     1     0     0     1     1
## X3211     1     0     0     1     1     0     0     0     0     0     1     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     1     0     0     1     1     1     0     0     0     0     1     0
## X3215     1     0     0     1     1     0     0     0     0     0     1     0
## X3302     1     2     0     0     0     0     0     1     0     0     1     1
## X3303     1     0     0     0     0     0     1     1     0     0     0     0
## X3304     1     0     0     0     0     0     1     1     0     0     0     0
## X3305     1     0     0     0     0     0     1     2     0     0     0     0
## X3307     1     0     0     0     0     0     1     1     0     0     0     0
## X3402     2     2     0     0     0     0     1     3     0     0     1     1
## X3403     1     1     0     0     0     0     1     2     0     1     1     1
## X3506     0     1     1     1     1     0     1     1     0     0     1     0
## X3507     1     0     0     0     0     0     0     1     0     0     1     1
## X3605     1     0     0     0     0     0     0     0     0     0     0     0
## X3701     1     0     0     0     1     0     0     0     0     0     1     0
## X3707     1     0     0     1     0     0     0     0     0     0     1     0
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     1     0     0     0     0     0     0     1     0     0     0     0
## X3809     1     1     0     0     0     0     1     0     0     0     1     1
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     1     1     0     1     1     0     0     1     0     0     0     1
## X3815     0     1     0     0     0     0     0     1     0     0     1     0
## X3816     1     0     0     0     0     0     1     1     0     0     0     0
## X3819     0     0     0     0     0     0     0     0     0     1     0     0
## X3820     0     0     0     0     0     0     0     0     0     1     0     0
## X3823     1     0     1     0     0     0     0     0     0     0     0     0
## X3902     0     1     0     0     0     0     0     1     0     0     1     1
## X3908     2     1     0     0     0     0     1     1     0     0     0     0
## X3909     0     1     0     0     0     0     0     1     0     0     1     1
## X3910     0     1     0     0     0     0     0     1     0     0     1     1
## X3911     0     1     0     0     0     0     0     1     0     0     1     1
## X3915     0     1     0     0     0     0     0     1     0     0     1     1
## X3916     1     0     0     1     1     0     0     0     0     0     1     0
## X3917     1     1     0     0     0     0     1     3     0     0     1     1
## X3919     1     1     0     1     1     0     0     1     0     0     2     1
## X3920     2     1     1     1     1     0     0     1     0     0     2     1
## X3921     1     1     0     1     1     0     0     1     0     1     2     1
## X3923     1     1     0     0     0     0     0     0     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     1     0     0     0     0     0     1     0     0     1     1
## X3926     1     1     0     0     0     1     1     2     0     0     1     1
## X4001     1     0     0     1     1     0     0     0     0     0     1     0
## X4005     1     0     1     0     0     0     0     0     0     0     0     0
## X4006     1     0     1     0     0     0     0     0     0     0     0     0
## X4008     1     0     0     0     0     0     1     1     0     0     0     0
## X4009     1     0     1     0     0     0     0     0     0     0     0     0
## X4010     1     1     0     0     0     0     0     1     0     0     0     0
## X4012     1     0     1     0     0     0     0     0     0     0     0     0
## X4013     1     0     1     0     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     1     0     1     0     0     0     0     0     0     0     0     0
## X4202     1     1     0     1     1     0     0     1     0     0     2     1
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     1     2     0     0     0     0     0     1     0     0     1     1
## X4415     2     2     1     0     0     0     0     1     0     0     1     1
## X4416     0     1     0     0     0     0     0     2     0     0     1     1
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     0
## X4421     1     0     0     0     0     0     1     1     0     0     0     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     1     0     0     0     0     0     1     0     0     1     1
## X4808     1     1     0     1     1     1     0     1     0     0     2     1
## X4818     1     0     0     1     1     0     0     0     0     0     1     0
## X4819     1     1     0     0     0     0     0     0     0     0     0     0
## X4821     2     1     0     1     1     0     0     0     0     0     1     0
## X4822     0     1     0     0     0     0     0     1     0     0     1     1
## X4823     0     1     0     0     0     1     0     1     0     0     1     1
## X4901     1     0     0     0     0     0     1     1     0     0     0     0
## X4902     1     0     0     0     0     0     1     1     0     0     0     0
## X4907     1     0     0     0     0     0     1     1     0     0     0     0
## X4911     2     1     0     0     0     0     1     1     0     0     0     0
## X5111     0     1     0     0     0     0     0     1     0     0     1     1
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     1     0     0     1     1     0     0     0     0     0     1     0
## X5206     1     0     0     1     1     0     0     0     0     0     1     0
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```
## X5208     1     0     0     1     1     0     0     0     0     0     1     0
## X5209     2     1     0     1     1     0     0     0     0     0     1     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     1     0     0     1     1     0     0     0     0     0     1     0
## X5402     1     0     0     1     1     1     0     0     0     0     1     0
## X5407     2     1     0     1     1     0     1     2     0     0     2     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     0
## X5508     2     1     0     0     0     1     1     1     0     0     0     0
## X5509     1     0     0     1     1     0     0     0     0     0     1     0
## X5511     0     0     0     0     0     0     0     0     0     0     0     0
## X5512     1     1     0     0     0     0     0     0     0     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     1     0     0     1     1     0     0     0     0     0     1     0
## X5515     1     1     0     0     0     0     0     0     0     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     1     0     0     0     0     0     1     1     0     0     0     0
## X5603     1     2     0     0     0     0     0     1     0     0     1     1
## X5609     0     0     0     0     0     0     0     0     0     0     0     0
## X5806     2     1     0     1     1     0     0     0     0     0     1     0
## X5807     2     1     0     1     1     0     0     0     0     0     1     0
## X5903     0     1     0     0     0     0     0     1     0     0     1     1
## X5907     1     1     0     0     0     0     0     0     0     0     0     0
## X5911     1     0     0     1     1     0     0     0     0     0     1     0
## X6002     3     2     0     1     1     0     1     2     0     0     2     1
## X6101     1     1     0     0     0     0     0     0     0     0     0     0
## X6103     1     0     0     1     1     0     0     0     0     0     1     0
## X6104     2     0     0     1     1     0     1     1     0     0     1     0
## X6105     1     1     0     0     0     0     0     0     0     0     0     0
## X6106     2     0     0     1     1     0     1     1     0     0     1     0
## X6107     1     0     0     1     1     0     0     0     0     0     1     0
## X6109     1     0     0     1     1     0     0     0     0     0     1     0
## X6110     1     1     0     0     0     0     0     0     0     0     0     0
## X6111     1     0     0     1     1     0     0     0     0     0     1     0
## X6112     1     0     0     1     1     0     0     1     0     0     1     0
## X6114     1     0     0     1     1     0     0     0     0     0     1     0
## X6115     2     0     0     1     1     0     1     1     0     0     1     0
## X6117     1     1     0     0     0     0     0     0     0     0     0     0
## X6201     1     0     0     1     1     0     0     0     0     0     1     0
## X6202     1     0     0     1     1     0     0     0     0     0     1     0
## X6203     2     1     0     1     1     0     0     0     0     0     1     0
## X6204     1     0     0     1     1     0     0     0     0     0     1     0
## X6205     2     1     0     0     0     0     1     1     0     0     0     0
## X6206     2     0     0     1     1     0     1     1     0     0     1     0
## X6210     1     0     0     1     1     0     0     0     0     0     1     0
## X6211     2     1     0     1     1     0     0     0     0     1     1     0
## X6212     2     2     0     1     1     0     0     1     0     1     2     1
## X6217     1     0     0     1     1     0     0     0     0     0     1     0
## X6302     1     0     0     1     1     0     0     0     0     0     1     0
## X6303     1     0     0     1     1     0     0     0     0     0     1     0
## X6304     1     0     0     1     1     0     0     0     0     0     1     0
## X6305     1     1     0     1     1     0     0     1     0     0     2     1
## X6306     0     1     0     0     0     0     0     1     0     0     1     1
## X6307     1     0     0     1     1     0     0     0     0     0     1     0
## X6401     1     0     0     0     0     0     1     1     0     0     0     0
## X6403     1     0     0     0     0     0     1     1     0     1     0     0
## X6404     0     1     0     0     0     0     0     1     0     0     1     1
##       X3816 X3819 X3820 X3823 X3902 X3908 X3909 X3910 X3911 X3915 X3916 X3917
## X102      1     0     0     0     0     1     0     0     0     0     0     1
## X210      0     0     0     1     0     1     0     0     0     0     0     0
## X401      1     0     0     0     1     1     1     1     1     1     0     2
## X403      1     0     0     1     0     2     0     0     0     0     0     1
## X406      0     0     0     0     0     1     0     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      1     1     1     0     0     2     0     0     0     0     0     2
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     1     1     0     0     0     0     0     0     0     0     2
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0     1     1     0     0     0     0     0     0     0     0     1
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      1     0     0     0     0     1     0     0     0     0     0     1
## X813      0     0     0     0     0     0     0     0     0     0     0     1
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     1     0     0     0     0     0     0     0     0
## X1001     0     1     1     0     0     0     0     0     0     0     0     0
```

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## X1003     1     0     0     0     1     1     1     1     1     1     0     2
## X1005     0     0     0     0     0     0     0     0     0     0     0     0
## X1102     0     0     0     0     1     0     1     1     1     1     0     1
## X1108     0     0     0     0     1     0     1     1     1     1     0     1
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     0     0     1     0     1     1     1     1     0     1
## X1213     0     0     0     0     0     0     0     0     0     0     0     0
## X1214     0     1     1     0     0     0     0     0     0     0     0     2
## X1302     0     1     1     0     0     0     0     0     0     0     0     2
## X1507     0     0     0     0     0     1     0     0     0     0     0     0
## X1514     0     0     0     0     0     1     0     0     0     0     0     0
## X1517     1     0     0     0     1     1     1     1     1     1     0     2
## X1601     0     0     0     1     0     1     0     0     0     0     0     0
## X1602     1     0     0     1     0     2     0     0     0     0     0     1
## X1704     1     0     0     1     0     1     0     0     0     0     0     2
## X1806     1     0     0     1     1     1     1     1     1     1     0     3
## X1901     1     0     0     0     1     2     1     1     1     1     0     3
## X1902     0     0     0     0     0     1     0     0     0     0     0     0
## X1905     1     0     0     0     1     1     1     1     1     1     1     3
## X2001     0     0     0     0     0     1     0     0     0     0     0     0
## X2002     0     0     0     0     0     1     0     0     0     0     0     0
## X2003     0     0     0     0     0     1     0     0     0     0     0     0
## X2004     0     0     0     0     0     1     0     0     0     0     0     0
## X2005     1     0     0     0     0     2     0     0     0     0     0     2
## X2006     1     0     0     0     0     1     0     0     0     0     0     1
## X2007     1     0     0     0     0     2     0     0     0     0     0     1
## X2008     1     1     1     1     1     1     1     1     1     1     0     3
## X2101     0     0     0     0     0     1     0     0     0     0     0     0
## X2102     1     0     0     1     0     1     0     0     0     0     0     1
## X2103     0     0     0     1     0     1     0     0     0     0     0     0
## X2104     0     0     0     1     0     0     0     0     0     0     0     0
## X2106     0     0     0     1     1     1     1     1     1     1     0     1
## X2202     0     0     0     0     1     1     1     1     1     1     0     1
## X2206     0     0     0     0     0     0     0     0     0     0     0     1
## X2208     1     0     0     0     0     1     0     0     0     0     0     1
## X2209     0     0     0     0     0     1     0     0     0     0     0     0
## X2302     0     0     0     1     0     0     0     0     0     0     0     0
## X2309     0     0     0     0     1     0     1     1     1     1     0     1
## X2402     1     0     0     0     0     1     0     0     0     0     0     1
## X2403     1     0     0     0     0     1     0     0     0     0     0     1
## X2507     0     0     0     0     0     0     0     0     0     0     0     1
## X2508     1     0     0     0     1     1     1     1     1     1     0     2
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     1     0     0     0     0     1     0     0     0     0     0     3
## X2519     0     0     0     0     1     0     1     1     1     1     0     1
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     1
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     1     0     0     0     0     1     0     0     0     0     0     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     1     0     0     0     0     1     0     0     0     0     0     1
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     1     0     0     0     0     0     0     0     0
## X2713     0     0     0     0     0     0     0     0     0     0     1     0
## X2714     0     0     0     0     0     0     0     0     0     0     1     0
## X2716     1     0     0     0     0     1     0     0     0     0     0     1
## X2804     1     0     0     1     1     1     1     1     1     1     0     2
## X2811     1     0     0     1     1     1     1     1     1     1     0     2
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     0     0     0     0     1     0     1     1     1     1     0     1
## X2832     0     0     0     0     1     0     1     1     1     1     0     1
## X2833     0     0     0     0     1     0     1     1     1     1     0     1
## X2835     0     0     0     0     1     0     1     1     1     1     0     1
## X2836     0     1     1     0     0     0     0     0     0     0     0     0
## X2901     1     0     0     1     1     1     1     1     1     1     0     2
## X2903     0     0     0     0     0     0     0     0     0     0     1     0
## X2907     0     0     0     0     1     0     1     1     1     1     0     1
## X2915     0     0     0     0     1     0     1     1     1     1     0     1
## X2933     0     0     0     0     1     0     1     1     1     1     0     1
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     0     0     1     0     1     1     1     1     0     1
## X3204     1     0     0     0     1     1     1     1     1     1     0     2
## X3205     0     0     0     0     0     0     0     0     0     0     1     0
## X3206     0     0     0     0     1     0     1     1     1     1     1     1
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     0     0     0     0     0     0     0     0     0     1     0
## X3209     0     0     0     0     0     0     0     0     0     0     1     0
## X3210     0     0     0     0     1     0     1     1     1     1     0     1
```

```
## X3211     0     0     0     0     0     0     0     0     0     0     1     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     0     0     0     0     0     0     0     0     1     0
## X3215     0     0     0     0     0     0     0     0     0     0     1     0
## X3302     0     0     0     0     1     1     1     1     1     1     0     1
## X3303     1     0     0     0     0     1     0     0     0     0     0     1
## X3304     1     0     0     0     0     1     0     0     0     0     0     1
## X3305     1     0     0     0     0     1     0     0     0     0     0     1
## X3307     1     0     0     0     0     1     0     0     0     0     0     1
## X3402     1     0     0     0     1     2     1     1     1     1     0     2
## X3403     1     1     1     0     1     1     1     1     1     1     0     2
## X3506     1     0     0     1     0     2     0     0     0     0     1     1
## X3507     0     0     0     0     1     1     1     1     1     1     0     1
## X3605     0     0     0     1     0     0     0     0     0     0     0     0
## X3701     0     0     0     0     0     0     0     0     0     0     1     0
## X3707     0     0     0     0     0     0     0     0     0     0     1     0
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     1     0     0     0     0     1     0     0     0     0     0     1
## X3809     1     0     0     0     1     1     1     1     1     1     0     3
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     1     1     0     0     0     0     0     0     0     0     0
## X3814     0     0     0     0     1     0     1     1     1     1     1     1
## X3815     0     0     0     0     1     0     1     1     1     1     0     1
## X3816     0     0     0     0     0     1     0     0     0     0     0     1
## X3819     0     0     1     0     0     0     0     0     0     0     0     0
## X3820     0     1     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     0     0
## X3902     0     0     0     0     0     0     1     1     1     1     0     1
## X3908     1     0     0     0     0     0     0     0     0     0     0     1
## X3909     0     0     0     0     1     0     0     1     1     1     0     1
## X3910     0     0     0     0     1     0     1     0     1     1     0     1
## X3911     0     0     0     0     1     0     1     1     0     1     0     1
## X3915     0     0     0     0     1     0     1     1     1     0     0     1
## X3916     0     0     0     0     0     0     0     0     0     0     0     0
## X3917     1     0     0     0     1     1     1     1     1     1     0     0
## X3919     0     0     0     0     1     0     1     1     1     1     1     1
## X3920     0     0     0     1     1     0     1     1     1     1     1     1
## X3921     0     1     1     0     1     0     1     1     1     1     1     1
## X3923     0     0     0     0     0     1     0     0     0     0     0     1
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     0     0     1     0     1     1     1     1     0     1
## X3926     1     0     0     0     1     1     1     1     1     1     0     2
## X4001     0     0     0     0     0     0     0     0     0     0     1     0
## X4005     0     0     0     1     0     0     0     0     0     0     0     0
## X4006     0     0     0     1     0     0     0     0     0     0     0     0
## X4008     1     0     0     0     0     1     0     0     0     0     0     1
## X4009     0     0     0     1     0     0     0     0     0     0     0     0
## X4010     0     0     0     0     0     1     0     0     0     0     0     2
## X4012     0     0     0     1     0     0     0     0     0     0     0     0
## X4013     0     0     0     1     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     1     0     0     0     0     0     0     0     0
## X4202     0     0     0     0     1     0     1     1     1     1     1     1
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     0     0     0     1     1     1     1     1     1     0     2
## X4415     0     0     0     1     1     1     1     1     1     1     0     1
## X4416     0     0     0     0     1     0     1     1     1     1     0     3
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     1
## X4421     1     0     0     0     0     1     0     0     0     0     0     2
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     0     1     0     1     1     1     1     0     1
## X4808     0     0     0     0     1     0     1     1     1     1     1     1
## X4818     0     0     0     0     0     0     0     0     0     0     1     0
## X4819     0     0     0     0     0     1     0     0     0     0     0     0
## X4821     0     0     0     0     0     1     0     0     0     0     1     0
## X4822     0     0     0     0     1     0     1     1     1     1     0     1
## X4823     0     0     0     0     1     0     1     1     1     1     0     1
## X4901     1     0     0     0     0     1     0     0     0     0     0     1
## X4902     1     0     0     0     0     1     0     0     0     0     0     1
## X4907     1     0     0     0     0     1     0     0     0     0     0     1
## X4911     1     0     0     0     0     2     0     0     0     0     0     1
## X5111     0     0     0     0     1     0     1     1     1     1     0     1
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     0     0     0     0     0     0     0     0     0     0     1     0
## X5206     0     0     0     0     0     0     0     0     0     0     1     0
## X5208     0     0     0     0     0     0     0     0     0     0     1     0
## X5209     0     0     0     0     0     1     0     0     0     0     1     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
```

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## X5211     0     0     0     0     0     0     0     0     0     0     1     0
## X5402     0     0     0     0     0     0     0     0     0     0     1     0
## X5407     1     0     0     0     1     1     1     1     1     1     1     2
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     1
## X5508     1     0     0     0     0     2     0     0     0     0     0     1
## X5509     0     0     0     0     0     0     0     0     0     0     1     1
## X5511     0     0     0     0     0     0     0     0     0     0     0     1
## X5512     0     0     0     0     0     1     0     0     0     0     0     1
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     0     0     0     0     0     0     0     0     0     1     0
## X5515     0     0     0     0     0     1     0     0     0     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     1     0     0     0     0     1     0     0     0     0     0     1
## X5603     0     0     0     0     1     1     1     1     1     1     0     1
## X5609     0     0     0     0     0     0     0     0     0     0     0     1
## X5806     0     0     0     0     0     1     0     0     0     0     1     0
## X5807     0     0     0     0     0     1     0     0     0     0     1     0
## X5903     0     0     0     0     1     0     1     1     1     1     0     1
## X5907     0     0     0     0     0     1     0     0     0     0     0     0
## X5911     0     0     0     0     0     0     0     0     0     0     1     1
## X6002     1     0     0     0     1     2     1     1     1     1     1     2
## X6101     0     0     0     0     0     1     0     0     0     0     0     0
## X6103     0     0     0     0     0     0     0     0     0     0     1     0
## X6104     1     0     0     0     0     1     0     0     0     0     1     1
## X6105     0     0     0     0     0     1     0     0     0     0     0     0
## X6106     1     0     0     0     0     1     0     0     0     0     1     1
## X6107     0     0     0     0     0     0     0     0     0     0     1     0
## X6109     0     0     0     0     0     0     0     0     0     0     1     0
## X6110     0     0     0     0     0     1     0     0     0     0     0     1
## X6111     0     0     0     0     0     0     0     0     0     0     1     0
## X6112     0     0     0     0     0     0     0     0     0     0     1     1
## X6114     0     0     0     0     0     0     0     0     0     0     1     1
## X6115     1     0     0     0     0     1     0     0     0     0     1     1
## X6117     0     0     0     0     0     1     0     0     0     0     0     0
## X6201     0     0     0     0     0     0     0     0     0     0     1     0
## X6202     0     0     0     0     0     0     0     0     0     0     1     0
## X6203     0     0     0     0     0     1     0     0     0     0     1     0
## X6204     0     0     0     0     0     0     0     0     0     0     1     0
## X6205     1     0     0     0     0     2     0     0     0     0     0     1
## X6206     1     0     0     0     0     1     0     0     0     0     1     2
## X6210     0     0     0     0     0     0     0     0     0     0     1     0
## X6211     0     1     1     0     0     1     0     0     0     0     1     0
## X6212     0     1     1     0     1     1     1     1     1     1     1     1
## X6217     0     0     0     0     0     0     0     0     0     0     1     0
## X6302     0     0     0     0     0     0     0     0     0     0     1     0
## X6303     0     0     0     0     0     0     0     0     0     0     1     0
## X6304     0     0     0     0     0     0     0     0     0     0     1     0
## X6305     0     0     0     0     1     0     1     1     1     1     1     1
## X6306     0     0     0     0     1     0     1     1     1     1     0     1
## X6307     0     0     0     0     0     0     0     0     0     0     1     0
## X6401     1     0     0     0     0     1     0     0     0     0     0     1
## X6403     1     1     1     0     0     1     0     0     0     0     0     1
## X6404     0     0     0     0     1     0     1     1     1     1     0     1
##       X3919 X3920 X3921 X3923 X3924 X3925 X3926 X4001 X4005 X4006 X4008 X4009
## X102      0     0     0     0     0     0     1     0     0     0     1     0
## X210      0     1     0     1     0     0     0     0     1     1     0     1
## X401      1     1     1     0     0     1     2     0     0     0     1     0
## X403      0     1     0     1     0     0     1     0     1     1     1     1
## X406      0     0     0     1     0     0     1     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     2     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     1     3     0     0     5     0     0     0     1     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     0     1     1     0     0     1     0     0     0     0     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0     0     1     1     0     0     3     0     0     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     0     0     0     1     0     0     0     1     0
## X813      0     0     0     1     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     1     0     0     0     0     0     0     1     1     0     1
## X1001     0     0     1     2     1     0     2     0     0     0     0     0
## X1003     1     1     1     2     1     1     6     0     0     0     1     0
## X1005     0     0     0     2     1     0     1     0     0     0     0     0
## X1102     1     1     1     0     0     1     1     0     0     0     0     0
```

```
## X1108     1     1     1     0     0     1     1     0     0     0     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     1     1     1     0     0     1     1     0     0     0     0     0
## X1213     0     0     0     0     0     0     1     0     0     0     0     0
## X1214     0     0     1     1     0     0     1     0     0     0     0     0
## X1302     0     0     1     1     0     0     2     0     0     0     0     0
## X1507     0     0     0     1     0     0     0     0     0     0     0     0
## X1514     0     0     0     1     0     0     0     0     0     0     0     0
## X1517     1     1     1     0     0     1     2     0     0     0     1     0
## X1601     0     1     0     1     0     0     0     0     1     1     0     1
## X1602     0     1     0     1     0     0     1     0     1     1     1     1
## X1704     0     1     0     3     1     0     2     0     1     1     1     1
## X1806     1     2     1     3     1     1     3     0     1     1     1     1
## X1901     1     1     1     3     0     1     3     0     0     0     1     0
## X1902     0     0     0     1     0     0     0     0     0     0     0     0
## X1905     2     2     2     2     0     1     3     1     0     0     1     0
## X2001     0     0     0     1     0     0     0     0     0     0     0     0
## X2002     0     0     0     1     0     0     0     0     0     0     0     0
## X2003     0     0     0     1     0     0     0     0     0     0     0     0
## X2004     0     0     0     1     0     0     0     0     0     0     0     0
## X2005     0     0     0     3     0     0     2     0     0     0     1     0
## X2006     0     0     0     0     0     0     1     0     0     0     1     0
## X2007     0     0     0     1     0     0     1     0     0     0     1     0
## X2008     1     2     2     2     0     1     3     0     1     1     1     1
## X2101     0     0     0     1     0     0     0     0     0     0     0     0
## X2102     0     1     0     0     0     0     1     0     1     1     1     1
## X2103     0     1     0     1     0     0     0     0     1     1     0     1
## X2104     0     1     0     0     0     0     0     0     1     1     0     1
## X2106     1     2     1     1     0     1     1     0     1     1     0     1
## X2202     1     1     1     1     0     1     1     0     0     0     0     0
## X2206     0     0     0     1     0     0     0     0     0     0     0     0
## X2208     0     0     0     0     0     0     1     0     0     0     1     0
## X2209     0     0     0     1     0     0     0     0     0     0     0     0
## X2302     0     1     0     0     0     0     0     0     1     1     0     1
## X2309     1     1     1     0     0     1     1     0     0     0     0     0
## X2402     0     0     0     0     0     0     1     0     0     0     1     0
## X2403     0     0     0     0     0     0     1     0     0     0     1     0
## X2507     0     0     0     1     0     0     0     0     0     0     0     0
## X2508     1     1     1     0     0     1     2     0     0     0     1     0
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     0     0     0     1     0     0     3     0     0     0     1     0
## X2519     1     1     1     0     0     1     1     0     0     0     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     0     0     0     0     0     1     0     0     0     1     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     0     0     0     1     0     0     0     1     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     1     0     0     0     0     0     0     1     1     0     1
## X2713     1     1     1     0     0     0     0     1     0     0     0     0
## X2714     1     1     1     0     0     0     0     1     0     0     0     0
## X2716     0     0     0     0     0     0     2     0     0     0     1     0
## X2804     1     2     1     0     0     1     2     0     1     1     1     1
## X2811     1     2     1     0     0     1     2     0     1     1     1     1
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     1     1     1     0     0     1     1     0     0     0     0     0
## X2832     1     1     1     0     0     1     1     0     0     0     0     0
## X2833     1     1     1     0     0     1     1     0     0     0     0     0
## X2835     1     1     1     0     0     1     1     0     0     0     0     0
## X2836     0     0     1     0     0     0     0     0     0     0     0     0
## X2901     1     2     1     0     0     1     2     0     1     1     1     1
## X2903     1     1     1     0     0     0     1     1     0     0     0     0
## X2907     1     1     1     0     0     1     1     0     0     0     0     0
## X2915     1     1     1     0     0     1     1     0     0     0     0     0
## X2933     1     1     1     0     0     1     1     0     0     0     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     1     1     1     0     0     1     1     0     0     0     0     0
## X3204     1     1     1     0     0     1     2     0     0     0     1     0
## X3205     1     1     1     0     0     0     0     1     0     0     0     0
## X3206     2     2     2     0     0     1     1     1     0     0     0     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     1     1     1     0     0     0     0     1     0     0     0     0
## X3209     1     1     1     0     0     0     0     1     0     0     0     0
## X3210     1     1     1     0     0     1     1     0     0     0     0     0
## X3211     1     1     1     0     0     0     0     1     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     1     1     1     0     0     0     1     1     0     0     0     0
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## X3215     1     1     1     0     0     0     0     1     0     0     0     0
## X3302     1     1     1     1     0     1     1     0     0     0     0     0
## X3303     0     0     0     0     0     0     1     0     0     0     1     0
## X3304     0     0     0     0     0     0     1     0     0     0     1     0
## X3305     0     0     0     0     0     0     1     0     0     0     1     0
## X3307     0     0     0     0     0     0     1     0     0     0     1     0
## X3402     1     1     1     1     0     1     2     0     0     0     1     0
## X3403     1     1     2     0     0     1     2     0     0     0     1     0
## X3506     1     2     1     1     0     0     1     1     1     1     1     1
## X3507     1     1     1     1     0     1     1     0     0     0     0     0
## X3605     0     1     0     0     0     0     0     0     1     1     0     1
## X3701     1     1     1     0     0     0     0     1     0     0     0     0
## X3707     1     1     1     0     0     0     0     1     0     0     0     0
## X3802     0     0     0     0     0     0     1     0     0     0     0     0
## X3808     0     0     0     0     0     0     1     0     0     0     1     0
## X3809     1     1     1     0     0     1     2     0     0     0     1     0
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     1     0     0     0     0     0     0     0     0     0
## X3814     2     2     2     0     0     1     1     1     0     0     0     0
## X3815     1     1     1     0     0     1     1     0     0     0     0     0
## X3816     0     0     0     0     0     0     1     0     0     0     1     0
## X3819     0     0     1     0     0     0     0     0     0     0     0     0
## X3820     0     0     1     0     0     0     0     0     0     0     0     0
## X3823     0     1     0     0     0     0     0     0     1     1     0     1
## X3902     1     1     1     0     0     1     1     0     0     0     0     0
## X3908     0     0     0     1     0     0     1     0     0     0     1     0
## X3909     1     1     1     0     0     1     1     0     0     0     0     0
## X3910     1     1     1     0     0     1     1     0     0     0     0     0
## X3911     1     1     1     0     0     1     1     0     0     0     0     0
## X3915     1     1     1     0     0     1     1     0     0     0     0     0
## X3916     1     1     1     0     0     0     0     1     0     0     0     0
## X3917     1     1     1     1     0     1     2     0     0     0     1     0
## X3919     0     2     2     0     0     1     1     1     0     0     0     0
## X3920     2     0     2     0     0     1     1     1     1     1     0     1
## X3921     2     2     0     0     0     1     1     1     0     0     0     0
## X3923     0     0     0     0     1     0     1     0     0     0     0     0
## X3924     0     0     0     1     0     0     0     0     0     0     0     0
## X3925     1     1     1     0     0     0     1     0     0     0     0     0
## X3926     1     1     1     1     0     1     0     0     0     0     1     0
## X4001     1     1     1     0     0     0     0     0     0     0     0     0
## X4005     0     1     0     0     0     0     0     0     0     1     0     1
## X4006     0     1     0     0     0     0     0     0     1     0     0     1
## X4008     0     0     0     0     0     0     1     0     0     0     0     0
## X4009     0     1     0     0     0     0     0     0     1     1     0     0
## X4010     0     0     0     2     0     0     0     0     0     0     0     0
## X4012     0     1     0     0     0     0     0     0     1     1     0     1
## X4013     0     1     0     0     0     0     0     0     1     1     0     1
## X4015     0     0     0     0     0     0     1     0     0     0     0     0
## X4016     0     1     0     0     0     0     1     0     1     1     0     1
## X4202     2     2     2     0     0     1     1     1     0     0     0     0
## X4203     0     0     0     0     0     0     1     0     0     0     0     0
## X4409     1     1     1     2     0     1     1     0     0     0     0     0
## X4415     1     2     1     1     0     1     1     0     1     1     0     1
## X4416     1     1     1     1     0     1     1     0     0     0     0     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     1     0     0     0     0     0     0     0     0
## X4421     0     0     0     1     0     0     1     0     0     0     1     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     1     1     1     0     0     1     1     0     0     0     0     0
## X4808     2     2     2     0     0     1     2     1     0     0     0     0
## X4818     1     1     1     0     0     0     0     1     0     0     0     0
## X4819     0     0     0     1     0     0     0     0     0     0     0     0
## X4821     1     1     1     1     0     0     0     1     0     0     0     0
## X4822     1     1     1     0     0     1     1     0     0     0     0     0
## X4823     1     1     1     0     0     1     2     0     0     0     0     0
## X4901     0     0     0     0     0     0     1     0     0     0     1     0
## X4902     0     0     0     0     0     0     1     0     0     0     1     0
## X4907     0     0     0     0     0     0     1     0     0     0     1     0
## X4911     0     0     0     1     0     0     1     0     0     0     1     0
## X5111     1     1     1     0     0     1     1     0     0     0     0     0
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     1     1     1     0     0     0     0     1     0     0     0     0
## X5206     1     1     1     0     0     0     0     1     0     0     0     0
## X5208     1     1     1     0     0     0     0     1     0     0     0     0
## X5209     1     1     1     1     0     0     0     1     0     0     0     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     1     1     1     0     0     0     0     1     0     0     0     0
## X5402     1     1     1     0     0     0     1     1     0     0     0     0
## X5407     2     2     2     0     0     1     2     1     0     0     1     0
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## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     1     0     0     0     0     0     0     0     0
## X5508     0     0     0     1     0     0     2     0     0     0     1     0
## X5509     1     1     1     1     0     0     0     1     0     0     0     0
## X5511     0     0     0     1     0     0     0     0     0     0     0     0
## X5512     0     0     0     2     0     0     0     0     0     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     1     1     1     0     0     0     0     1     0     0     0     0
## X5515     0     0     0     1     0     0     0     0     0     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     0     0     0     0     0     1     0     0     0     1     0
## X5603     1     1     1     1     0     1     1     0     0     0     0     0
## X5609     0     0     0     1     0     0     0     0     0     0     0     0
## X5806     1     1     1     1     0     0     0     1     0     0     0     0
## X5807     1     1     1     1     0     0     0     1     0     0     0     0
## X5903     1     1     1     0     0     1     1     0     0     0     0     0
## X5907     0     0     0     1     0     0     0     0     0     0     0     0
## X5911     1     1     1     1     0     0     0     1     0     0     0     0
## X6002     2     2     2     1     0     1     2     1     0     0     1     0
## X6101     0     0     0     1     0     0     0     0     0     0     0     0
## X6103     1     1     1     0     0     0     0     1     0     0     0     0
## X6104     1     1     1     0     0     0     1     1     0     0     1     0
## X6105     0     0     0     1     0     0     0     0     0     0     0     0
## X6106     1     1     1     0     0     0     1     1     0     0     1     0
## X6107     1     1     1     0     0     0     0     1     0     0     0     0
## X6109     1     1     1     0     0     0     0     1     0     0     0     0
## X6110     0     0     0     2     0     0     0     0     0     0     0     0
## X6111     1     1     1     0     0     0     0     1     0     0     0     0
## X6112     1     1     1     0     0     0     0     1     0     0     0     0
## X6114     1     1     1     1     0     0     0     1     0     0     0     0
## X6115     1     1     1     1     1     0     1     1     0     0     1     0
## X6117     0     0     0     1     0     0     0     0     0     0     0     0
## X6201     1     1     1     0     0     0     0     1     0     0     0     0
## X6202     1     1     1     0     0     0     0     1     0     0     0     0
## X6203     1     1     1     1     0     0     0     1     0     0     0     0
## X6204     1     1     1     0     0     0     0     1     0     0     0     0
## X6205     0     0     0     1     0     0     1     0     0     0     1     0
## X6206     1     1     1     1     0     0     1     1     0     0     1     0
## X6210     1     1     1     0     0     0     0     1     0     0     0     0
## X6211     1     1     2     1     0     0     0     1     0     0     0     0
## X6212     2     2     3     1     0     1     1     1     0     0     0     0
## X6217     1     1     1     0     0     0     0     1     0     0     0     0
## X6302     1     1     1     0     0     0     0     1     0     0     0     0
## X6303     1     1     1     0     0     0     0     1     0     0     0     0
## X6304     1     1     1     0     0     0     0     1     0     0     0     0
## X6305     2     2     2     0     0     1     1     1     0     0     0     0
## X6306     1     1     1     0     0     1     1     0     0     0     0     0
## X6307     1     1     1     0     0     0     1     1     0     0     0     0
## X6401     0     0     0     0     0     0     1     0     0     0     1     0
## X6403     0     0     1     0     0     0     1     0     0     0     1     0
## X6404     1     1     1     0     0     1     1     0     0     0     0     0
##       X4010 X4012 X4013 X4015 X4016 X4202 X4203 X4409 X4415 X4416 X4418 X4420
## X102      0     0     0     0     0     0     0     0     0     0     0     0
## X210      1     1     1     0     1     0     0     1     2     0     0     0
## X401      0     0     0     0     0     1     0     1     1     1     0     0
## X403      1     1     1     0     1     0     0     1     2     0     0     0
## X406      1     0     0     1     1     0     1     1     1     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      2     0     0     1     1     2     1     2     1     2     1     1
## X703      0     0     0     0     0     1     0     0     0     1     0     0
## X709      4     0     0     0     0     1     0     1     0     3     1     1
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      3     0     0     0     0     3     0     0     0     2     1     0
## X804      0     0     0     0     0     1     0     0     0     0     0     0
## X805      0     0     0     0     0     1     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     0     0     0     0     0     0     0     0     0
## X813      1     0     0     0     0     0     0     1     0     1     0     1
## X901      0     0     0     0     0     1     0     0     0     0     0     0
## X904      0     1     1     0     1     0     0     0     1     0     0     0
## X1001     0     0     0     0     0     1     0     0     0     0     1     0
## X1003     0     0     0     1     1     2     1     1     1     2     0     0
## X1005     1     0     0     0     0     2     0     0     0     1     0     0
## X1102     0     0     0     0     0     1     0     1     1     1     0     0
## X1108     0     0     0     0     0     1     0     1     1     1     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     0     0     0     1     0     1     1     1     0     0
```

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## X1213     0     0     0     0     0     1     0     0     0     0     1     0
## X1214     4     0     0     0     0     2     0     1     0     3     0     1
## X1302     3     0     0     0     0     2     0     1     0     3     0     1
## X1507     1     0     0     0     0     0     0     1     1     0     0     0
## X1514     1     0     0     0     0     0     0     1     1     0     0     0
## X1517     0     0     0     0     0     1     0     1     1     1     0     0
## X1601     1     1     1     0     1     0     0     1     2     0     0     0
## X1602     1     1     1     0     1     0     0     1     2     0     0     0
## X1704     1     1     1     0     1     0     0     1     1     1     0     1
## X1806     1     1     1     0     1     1     0     2     2     2     0     1
## X1901     2     0     0     0     0     1     0     3     2     2     0     1
## X1902     1     0     0     0     0     0     0     1     1     0     0     0
## X1905     1     0     0     0     0     2     0     2     1     2     0     1
## X2001     1     0     0     0     0     0     0     1     1     0     0     0
## X2002     1     0     0     0     0     0     0     1     1     0     0     0
## X2003     1     0     0     0     0     0     0     1     1     0     0     0
## X2004     1     0     0     0     0     0     0     1     1     0     0     0
## X2005     2     0     0     0     0     0     0     2     1     1     0     1
## X2006     0     0     0     0     0     0     0     0     0     0     0     0
## X2007     1     0     0     0     0     0     0     1     1     0     0     0
## X2008     1     1     1     0     1     1     0     2     2     2     0     1
## X2101     1     0     0     0     0     0     0     1     1     0     0     0
## X2102     0     1     1     0     1     0     0     0     1     0     0     0
## X2103     1     1     1     0     1     0     0     1     2     0     0     0
## X2104     0     1     1     0     1     0     0     0     1     0     0     0
## X2106     1     1     1     0     1     1     0     2     3     1     0     0
## X2202     1     0     0     0     0     2     0     2     2     1     0     0
## X2206     1     0     0     0     0     0     0     1     0     1     0     1
## X2208     0     0     0     0     0     0     0     0     0     1     0     0
## X2209     1     0     0     0     0     0     0     1     1     0     0     0
## X2302     0     1     1     0     1     0     0     0     1     0     0     0
## X2309     0     0     0     0     0     1     0     1     1     1     0     0
## X2402     0     0     0     0     0     0     0     0     0     0     0     0
## X2403     0     0     0     0     0     0     0     0     0     0     0     0
## X2507     1     0     0     0     0     0     0     1     0     1     0     1
## X2508     0     0     0     0     0     1     0     1     1     1     0     0
## X2512     0     0     0     0     0     0     0     0     0     1     0     0
## X2517     2     0     0     0     0     2     0     1     0     2     1     1
## X2519     0     0     0     0     0     1     0     1     1     1     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     1     0     0     0     0     0     0     0     0     1     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     1     0
## X2530     0     0     0     0     0     1     0     0     0     0     0     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     0     0     0     0     0     0     0     0     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     1     1     0     1     0     0     0     1     0     0     0
## X2713     0     0     0     0     0     1     0     0     0     0     0     0
## X2714     0     0     0     0     0     1     0     0     0     0     0     0
## X2716     0     0     0     0     0     0     0     0     0     1     1     0
## X2804     0     1     1     0     1     1     0     1     2     1     0     0
## X2811     0     1     1     0     1     1     0     1     2     1     0     0
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     0     0     0     0     0     1     0     1     1     1     0     0
## X2832     0     0     0     0     0     1     0     1     1     1     0     0
## X2833     0     0     0     0     0     1     0     1     1     1     0     0
## X2835     0     0     0     0     0     1     0     1     1     1     0     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     1     1     0     1     1     0     1     2     1     0     0
## X2903     0     0     0     0     0     1     0     0     0     0     0     0
## X2907     0     0     0     0     0     1     0     1     1     1     0     0
## X2915     0     0     0     0     0     1     0     1     1     1     0     0
## X2933     0     0     0     0     0     1     0     1     1     1     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     0     0     0     1     0     1     1     1     0     0
## X3204     0     0     0     0     0     1     0     1     1     1     0     0
## X3205     0     0     0     0     0     1     0     0     0     0     0     0
## X3206     0     0     0     0     0     2     0     1     1     1     0     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     0     0     0     0     1     0     0     0     0     0     0
## X3209     0     0     0     0     0     1     0     0     0     0     0     0
## X3210     0     0     0     0     0     1     0     1     1     1     0     0
## X3211     0     0     0     0     0     1     0     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     0     0     0     1     0     0     0     0     0     0
## X3215     0     0     0     0     0     1     0     0     0     0     0     0
## X3302     1     0     0     0     0     1     0     2     2     1     0     0
## X3303     0     0     0     0     0     0     0     0     0     0     0     0
```

```
## X3304     0     0     0     0     0     0     0     0     0     0     0     0
## X3305     0     0     0     0     0     0     0     0     0     0     0     0
## X3307     0     0     0     0     0     0     0     0     0     0     0     0
## X3402     1     0     0     0     0     1     0     2     2     1     0     0
## X3403     0     0     0     0     0     1     0     1     1     1     0     0
## X3506     1     1     1     0     1     1     0     1     2     0     0     0
## X3507     1     0     0     0     0     1     0     2     2     1     0     0
## X3605     0     1     1     0     1     0     0     0     1     0     0     0
## X3701     0     0     0     0     0     1     0     0     0     0     0     0
## X3707     0     0     0     0     0     1     0     0     0     0     0     0
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     0     0     0     0     0     0     0     0     0     0     0     0
## X3809     1     0     0     0     0     1     0     1     1     2     0     0
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     0     0     0     0     2     0     1     1     1     0     0
## X3815     0     0     0     0     0     1     0     1     1     1     0     0
## X3816     0     0     0     0     0     0     0     0     0     0     0     0
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     1     1     0     1     0     0     0     1     0     0     0
## X3902     0     0     0     0     0     1     0     1     1     1     0     0
## X3908     1     0     0     0     0     0     0     1     1     0     0     0
## X3909     0     0     0     0     0     1     0     1     1     1     0     0
## X3910     0     0     0     0     0     1     0     1     1     1     0     0
## X3911     0     0     0     0     0     1     0     1     1     1     0     0
## X3915     0     0     0     0     0     1     0     1     1     1     0     0
## X3916     0     0     0     0     0     1     0     0     0     0     0     0
## X3917     2     0     0     0     0     1     0     2     1     3     0     1
## X3919     0     0     0     0     0     2     0     1     1     1     0     0
## X3920     0     1     1     0     1     2     0     1     2     1     0     0
## X3921     0     0     0     0     0     2     0     1     1     1     0     0
## X3923     2     0     0     0     0     0     0     2     1     1     0     1
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     0     0     0     1     0     1     1     1     0     0
## X3926     0     0     0     1     1     1     1     1     1     1     0     0
## X4001     0     0     0     0     0     1     0     0     0     0     0     0
## X4005     0     1     1     0     1     0     0     0     1     0     0     0
## X4006     0     1     1     0     1     0     0     0     1     0     0     0
## X4008     0     0     0     0     0     0     0     0     0     0     0     0
## X4009     0     1     1     0     1     0     0     0     1     0     0     0
## X4010     0     0     0     0     0     0     0     2     1     2     0     1
## X4012     0     0     1     0     1     0     0     0     1     0     0     0
## X4013     0     1     0     0     1     0     0     0     1     0     0     0
## X4015     0     0     0     0     1     0     1     0     0     0     0     0
## X4016     0     1     1     1     0     0     1     0     1     0     0     0
## X4202     0     0     0     0     0     0     0     1     1     1     0     0
## X4203     0     0     0     1     1     0     0     0     0     0     0     0
## X4409     2     0     0     0     0     1     0     0     2     2     0     1
## X4415     1     1     1     0     1     1     0     2     0     1     0     0
## X4416     2     0     0     0     0     1     0     2     1     0     0     1
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     1     0     0     0     0     0     0     1     0     1     0     0
## X4421     1     0     0     0     0     0     0     1     0     1     0     1
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     0     0     1     0     1     1     1     0     0
## X4808     0     0     0     0     0     2     0     1     1     1     0     0
## X4818     0     0     0     0     0     1     0     0     0     0     0     0
## X4819     1     0     0     0     0     0     0     1     1     0     0     0
## X4821     1     0     0     0     0     1     0     1     1     0     0     0
## X4822     0     0     0     0     0     1     0     1     1     1     0     0
## X4823     0     0     0     0     0     1     0     1     1     1     0     0
## X4901     0     0     0     0     0     0     0     0     0     0     0     0
## X4902     0     0     0     0     0     0     0     0     0     0     0     0
## X4907     0     0     0     0     0     0     0     0     0     0     0     0
## X4911     1     0     0     0     0     0     0     1     1     0     0     0
## X5111     0     0     0     0     0     1     0     1     1     2     0     0
## X5112     0     0     0     0     0     0     0     0     0     1     0     0
## X5205     0     0     0     0     0     1     0     0     0     0     0     0
## X5206     0     0     0     0     0     1     0     0     0     0     0     0
## X5208     0     0     0     0     0     1     0     0     0     0     0     0
## X5209     1     0     0     0     0     1     0     1     1     0     0     0
## X5210     0     0     0     0     0     1     0     0     0     0     0     0
## X5211     0     0     0     0     0     1     0     0     0     0     0     0
## X5402     0     0     0     0     0     1     0     0     0     0     0     0
## X5407     0     0     0     0     0     2     0     1     1     1     0     0
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     1     0     0     0     0     0     0     1     0     1     0     1
## X5508     1     0     0     0     0     0     0     1     1     0     0     0
```

```
## X5509     1     0     0     0     0     1     0     1     0     1     0     1
## X5511     1     0     0     0     0     0     0     1     0     1     0     1
## X5512     2     0     0     0     0     0     0     2     1     1     0     1
## X5513     0     0     0     0     0     1     0     0     0     0     0     0
## X5514     0     0     0     0     0     1     0     0     0     0     0     0
## X5515     1     0     0     0     0     0     0     1     1     1     0     0
## X5516     0     0     0     0     0     1     0     0     0     0     0     0
## X5601     0     0     0     0     0     0     0     0     0     0     0     0
## X5603     1     0     0     0     0     2     0     2     2     1     0     0
## X5609     1     0     0     0     0     0     0     1     0     1     0     1
## X5806     1     0     0     0     0     1     0     1     1     0     0     0
## X5807     1     0     0     0     0     1     0     1     1     0     0     0
## X5903     0     0     0     0     0     1     0     1     1     1     0     0
## X5907     1     0     0     0     0     0     0     1     1     0     0     0
## X5911     1     0     0     0     0     2     0     1     0     2     0     1
## X6002     1     0     0     0     0     2     0     2     2     1     0     0
## X6101     1     0     0     0     0     0     0     1     1     0     0     0
## X6103     0     0     0     0     0     1     0     0     0     0     0     0
## X6104     0     0     0     0     0     1     0     0     0     0     0     0
## X6105     1     0     0     0     0     0     0     1     1     0     0     0
## X6106     0     0     0     0     0     1     0     0     0     0     0     0
## X6107     0     0     0     0     0     1     0     0     0     0     0     0
## X6109     0     0     0     0     0     1     0     0     0     0     0     0
## X6110     2     0     0     0     0     0     0     2     1     1     0     1
## X6111     0     0     0     0     0     1     0     0     0     0     0     0
## X6112     1     0     0     0     0     1     0     0     0     1     0     0
## X6114     1     0     0     0     0     2     0     1     0     2     0     1
## X6115     0     0     0     0     0     1     0     0     0     0     0     0
## X6117     1     0     0     0     0     0     0     1     1     0     0     0
## X6201     0     0     0     0     0     1     0     0     0     0     0     0
## X6202     0     0     0     0     0     1     0     0     0     0     0     0
## X6203     1     0     0     0     0     1     0     1     1     0     0     0
## X6204     0     0     0     0     0     1     0     0     0     0     0     0
## X6205     1     0     0     0     0     0     0     1     1     0     0     0
## X6206     1     0     0     0     0     1     0     1     0     1     0     1
## X6210     0     0     0     0     0     1     0     0     0     0     0     0
## X6211     1     0     0     0     0     2     0     1     1     0     0     0
## X6212     1     0     0     0     0     3     0     2     2     1     1     0
## X6217     0     0     0     0     0     1     0     0     0     0     0     0
## X6302     0     0     0     0     0     1     0     0     0     0     0     0
## X6303     0     0     0     0     0     1     0     0     0     0     0     0
## X6304     0     0     0     0     0     1     0     0     0     0     0     0
## X6305     0     0     0     0     0     2     0     1     1     1     0     0
## X6306     0     0     0     0     0     1     0     1     1     1     0     0
## X6307     0     0     0     1     1     1     1     0     0     0     0     0
## X6401     0     0     0     0     0     0     0     0     0     0     0     0
## X6403     0     0     0     0     0     0     0     0     0     0     0     0
## X6404     0     0     0     0     0     1     0     1     1     1     0     0
##       X4421 X4602 X4804 X4808 X4818 X4819 X4821 X4822 X4823 X4901 X4902 X4907
## X102      1     0     0     0     0     0     0     0     0     1     1     1
## X210      0     0     0     0     0     1     1     0     0     0     0     0
## X401      1     0     1     1     0     0     0     1     1     1     1     1
## X403      1     0     0     0     0     1     1     0     0     1     1     1
## X406      0     0     0     0     0     1     1     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     1     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      2     0     0     0     0     1     1     0     0     1     1     1
## X703      0     1     0     0     0     0     0     0     0     0     0     0
## X709      1     1     0     1     0     0     0     0     1     0     0     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0     1     0     1     0     0     0     0     1     0     0     0
## X804      0     1     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     1     0     0     0     0     0     0     0     0     0     0
## X809      1     0     0     0     0     0     0     0     0     1     1     1
## X813      1     0     0     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     0     0     0
## X1001     0     1     0     1     0     0     0     0     1     0     0     0
## X1003     1     0     1     1     0     0     0     1     1     1     1     1
## X1005     0     1     0     0     0     0     0     0     0     0     0     0
## X1102     0     0     1     1     0     0     0     1     1     0     0     0
## X1108     0     0     1     1     0     0     0     1     1     0     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     1     1     0     0     0     1     1     0     0     0
## X1213     0     1     0     1     0     0     0     0     1     0     0     0
## X1214     1     1     0     1     0     0     0     0     1     0     0     0
## X1302     1     0     0     1     0     0     0     0     1     0     0     0
```

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## X1507     0     0     0     0     0     1     1     0     0     0     0     0
## X1514     0     0     0     0     0     1     1     0     0     0     0     0
## X1517     1     0     1     1     0     0     0     1     1     1     1     1
## X1601     0     0     0     0     0     1     1     0     0     0     0     0
## X1602     1     0     0     0     0     1     1     0     0     1     1     1
## X1704     2     0     0     0     0     0     0     0     0     1     1     1
## X1806     2     0     1     1     0     0     0     1     1     1     1     1
## X1901     2     0     1     1     0     1     1     1     1     1     1     1
## X1902     0     0     0     0     0     1     1     0     0     0     0     0
## X1905     2     0     1     2     1     0     1     1     1     1     1     1
## X2001     0     0     0     0     0     1     1     0     0     0     0     0
## X2002     0     0     0     0     0     1     1     0     0     0     0     0
## X2003     0     0     0     0     0     1     1     0     0     0     0     0
## X2004     0     0     0     0     0     1     1     0     0     0     0     0
## X2005     2     0     0     0     0     1     1     0     0     1     1     1
## X2006     1     0     0     0     0     0     0     0     0     1     1     1
## X2007     1     0     0     0     0     1     1     0     0     1     1     1
## X2008     2     0     1     1     0     0     0     1     1     1     1     1
## X2101     0     0     0     0     0     1     1     0     0     0     0     0
## X2102     1     0     0     0     0     0     0     0     0     1     1     1
## X2103     0     0     0     0     0     1     1     0     0     0     0     0
## X2104     0     0     0     0     0     0     0     0     0     0     0     0
## X2106     0     0     1     1     0     1     1     1     1     0     0     0
## X2202     0     0     1     1     0     1     1     1     1     0     0     0
## X2206     1     0     0     0     0     0     0     0     0     0     0     0
## X2208     1     0     0     0     0     0     0     0     0     1     1     1
## X2209     0     0     0     0     0     1     1     0     0     0     0     0
## X2302     0     0     0     0     0     0     0     0     0     0     0     0
## X2309     0     0     1     1     0     0     0     1     1     0     0     0
## X2402     1     0     0     0     0     0     0     0     0     1     1     1
## X2403     1     0     0     0     0     0     0     0     0     1     1     1
## X2507     1     0     0     0     0     0     0     0     0     0     0     0
## X2508     1     0     1     1     0     0     0     1     1     1     1     1
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     2     0     0     0     0     0     0     0     0     1     1     1
## X2519     0     0     1     1     0     0     0     1     1     0     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     1     0     0     0     0     0     0     0     0     1     1     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     1     0     0     0     0     0     0     0     0     1     1     1
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     0     0
## X2713     0     0     0     1     1     0     1     0     0     0     0     0
## X2714     0     0     0     1     1     0     1     0     0     0     0     0
## X2716     1     1     0     1     0     0     0     0     1     1     1     1
## X2804     1     0     1     1     0     0     0     1     1     1     1     1
## X2811     1     0     1     1     0     0     0     1     1     1     1     1
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     0     0     1     1     0     0     0     1     1     0     0     0
## X2832     0     0     1     1     0     0     0     1     1     0     0     0
## X2833     0     0     1     1     0     0     0     1     1     0     0     0
## X2835     0     0     1     1     0     0     0     1     1     0     0     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     1     0     1     1     0     0     0     1     1     1     1     1
## X2903     0     0     0     2     1     0     1     0     1     0     0     0
## X2907     0     0     1     1     0     0     0     1     1     0     0     0
## X2915     0     0     1     1     0     0     0     1     1     0     0     0
## X2933     0     0     1     1     0     0     0     1     1     0     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     1     1     0     0     0     1     1     0     0     0
## X3204     1     0     1     1     0     0     0     1     1     1     1     1
## X3205     0     0     0     1     1     0     1     0     0     0     0     0
## X3206     0     0     1     2     1     0     1     1     1     0     0     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     0     0     1     1     0     1     0     0     0     0     0
## X3209     0     0     0     1     1     0     1     0     0     0     0     0
## X3210     0     0     1     1     0     0     0     1     1     0     0     0
## X3211     0     0     0     1     1     0     1     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     0     2     1     0     1     0     1     0     0     0
## X3215     0     0     0     1     1     0     1     0     0     0     0     0
## X3302     0     0     1     1     0     1     1     1     1     0     0     0
## X3303     1     0     0     0     0     0     0     0     0     1     1     1
## X3304     1     0     0     0     0     0     0     0     0     1     1     1
## X3305     1     0     0     0     0     0     0     0     0     1     1     1
## X3307     1     0     0     0     0     0     0     0     0     1     1     1
```

```
## X3402     1     0     1     1     0     1     1     1     1     1     1     1
## X3403     1     0     1     1     0     0     0     1     1     1     1     1
## X3506     1     0     0     1     1     1     2     0     0     1     1     1
## X3507     0     0     1     1     0     1     1     1     1     0     0     0
## X3605     0     0     0     0     0     0     0     0     0     0     0     0
## X3701     0     0     0     1     1     0     1     0     0     0     0     0
## X3707     0     0     0     1     1     0     1     0     0     0     0     0
## X3802     0     0     0     1     0     0     0     0     1     0     0     0
## X3808     1     0     0     0     0     0     0     0     0     1     1     1
## X3809     1     0     1     1     0     0     0     1     1     1     1     1
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     0     1     2     1     0     1     1     1     0     0     0
## X3815     0     0     1     1     0     0     0     1     1     0     0     0
## X3816     1     0     0     0     0     0     0     0     0     1     1     1
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     0     0
## X3902     0     0     1     1     0     0     0     1     1     0     0     0
## X3908     1     0     0     0     0     1     1     0     0     1     1     1
## X3909     0     0     1     1     0     0     0     1     1     0     0     0
## X3910     0     0     1     1     0     0     0     1     1     0     0     0
## X3911     0     0     1     1     0     0     0     1     1     0     0     0
## X3915     0     0     1     1     0     0     0     1     1     0     0     0
## X3916     0     0     0     1     1     0     1     0     0     0     0     0
## X3917     2     0     1     1     0     0     0     1     1     1     1     1
## X3919     0     0     1     2     1     0     1     1     1     0     0     0
## X3920     0     0     1     2     1     0     1     1     1     0     0     0
## X3921     0     0     1     2     1     0     1     1     1     0     0     0
## X3923     1     0     0     0     0     1     1     0     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     1     1     0     0     0     1     1     0     0     0
## X3926     1     0     1     2     0     0     0     1     2     1     1     1
## X4001     0     0     0     1     1     0     1     0     0     0     0     0
## X4005     0     0     0     0     0     0     0     0     0     0     0     0
## X4006     0     0     0     0     0     0     0     0     0     0     0     0
## X4008     1     0     0     0     0     0     0     0     0     1     1     1
## X4009     0     0     0     0     0     0     0     0     0     0     0     0
## X4010     1     0     0     0     0     1     1     0     0     0     0     0
## X4012     0     0     0     0     0     0     0     0     0     0     0     0
## X4013     0     0     0     0     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     0     0     0     0     0
## X4202     0     0     1     2     1     0     1     1     1     0     0     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     1     0     1     1     0     1     1     1     1     0     0     0
## X4415     0     0     1     1     0     1     1     1     1     0     0     0
## X4416     1     0     1     1     0     0     0     1     1     0     0     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     1     0     0     0     0     0     0     0     0     0     0     0
## X4421     0     0     0     0     0     0     0     0     0     1     1     1
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     1     0     0     0     1     1     0     0     0
## X4808     0     0     1     0     1     0     1     1     2     0     0     0
## X4818     0     0     0     1     0     0     1     0     0     0     0     0
## X4819     0     0     0     0     0     0     1     0     0     0     0     0
## X4821     0     0     0     1     1     1     0     0     0     0     0     0
## X4822     0     0     1     1     0     0     0     0     1     0     0     0
## X4823     0     0     1     2     0     0     0     1     0     0     0     0
## X4901     1     0     0     0     0     0     0     0     0     0     1     1
## X4902     1     0     0     0     0     0     0     0     0     1     0     1
## X4907     1     0     0     0     0     0     0     0     0     1     1     0
## X4911     1     0     0     0     0     1     1     0     0     1     1     1
## X5111     0     0     1     1     0     0     0     1     1     0     0     0
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     0     0     0     1     1     0     1     0     0     0     0     0
## X5206     0     0     0     1     1     0     1     0     0     0     0     0
## X5208     0     0     0     1     1     0     1     0     0     0     0     0
## X5209     0     0     0     1     1     1     2     0     0     0     0     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     0     0     1     1     0     1     0     0     0     0     0
## X5402     0     0     0     2     1     0     1     0     1     0     0     0
## X5407     1     0     1     2     1     0     1     1     1     1     1     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     1     0     0     0     0     0     0     0     0     0     0     0
## X5508     1     0     0     1     0     1     1     0     1     1     1     1
## X5509     1     0     0     1     1     0     1     0     0     0     0     0
## X5511     1     0     0     0     0     0     0     0     0     0     0     0
## X5512     1     0     0     0     0     1     1     0     0     0     0     0
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```
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     0     0     1     1     0     1     0     0     0     0     0
## X5515     0     0     0     0     0     1     1     0     0     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     1     0     0     0     0     0     0     0     0     1     1     1
## X5603     0     0     1     1     0     1     1     1     1     0     0     0
## X5609     1     0     0     0     0     0     0     0     0     0     0     0
## X5806     0     0     0     1     1     1     2     0     0     0     0     0
## X5807     0     0     0     1     1     1     2     0     0     0     0     0
## X5903     0     0     1     1     0     0     0     1     1     0     0     0
## X5907     0     0     0     0     0     1     1     0     0     0     0     0
## X5911     1     0     0     1     1     0     1     0     0     0     0     0
## X6002     1     0     1     2     1     1     2     1     1     1     1     1
## X6101     0     0     0     0     0     1     1     0     0     0     0     0
## X6103     0     0     0     1     1     0     1     0     0     0     0     0
## X6104     1     0     0     1     1     0     1     0     0     1     1     1
## X6105     0     0     0     0     0     1     1     0     0     0     0     0
## X6106     1     0     0     1     1     0     1     0     0     1     1     1
## X6107     0     0     0     1     1     0     1     0     0     0     0     0
## X6109     0     0     0     1     1     0     1     0     0     0     0     0
## X6110     1     0     0     0     0     1     1     0     0     0     0     0
## X6111     0     0     0     1     1     0     1     0     0     0     0     0
## X6112     0     0     0     1     1     0     1     0     0     0     0     0
## X6114     1     0     0     1     1     0     1     0     0     0     0     0
## X6115     1     0     0     1     1     0     1     0     0     1     1     1
## X6117     0     0     0     0     0     1     1     0     0     0     0     0
## X6201     0     0     0     1     1     0     1     0     0     0     0     0
## X6202     0     0     0     1     1     0     1     0     0     0     0     0
## X6203     0     0     0     1     1     1     2     0     0     0     0     0
## X6204     0     0     0     1     1     0     1     0     0     0     0     0
## X6205     1     0     0     0     0     1     1     0     0     1     1     1
## X6206     2     0     0     1     1     0     1     0     0     1     1     1
## X6210     0     0     0     1     1     0     1     0     0     0     0     0
## X6211     0     0     0     1     1     1     2     0     0     0     0     0
## X6212     0     0     1     2     1     1     2     1     1     0     0     0
## X6217     0     0     0     1     1     0     1     0     0     0     0     0
## X6302     0     0     0     1     1     0     1     0     0     0     0     0
## X6303     0     0     0     1     1     0     1     0     0     0     0     0
## X6304     0     0     0     1     1     0     1     0     0     0     0     0
## X6305     0     0     1     2     1     0     1     1     1     0     0     0
## X6306     0     0     1     1     0     0     0     1     1     0     0     0
## X6307     0     0     0     1     1     0     1     0     0     0     0     0
## X6401     1     0     0     0     0     0     0     0     0     1     1     1
## X6403     1     0     0     0     0     0     0     0     0     1     1     1
## X6404     0     0     1     1     0     0     0     1     1     0     0     0
##       X4911 X5111 X5112 X5205 X5206 X5208 X5209 X5210 X5211 X5402 X5407 X5408
## X102      1     0     0     0     0     0     0     0     0     0     1     0
## X210      1     0     0     0     0     0     1     0     0     0     0     0
## X401      1     1     0     0     0     0     0     0     0     0     2     0
## X403      2     0     0     0     0     0     1     0     0     0     1     0
## X406      1     0     0     0     0     0     1     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      2     0     0     0     0     0     1     2     0     0     1     1
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     0     0     0     0     0     0     0     0     1     0     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0     0     0     0     0     0     0     0     0     1     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      1     0     0     0     0     0     0     0     0     0     1     0
## X813      0     0     0     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     0     0     0
## X1001     0     0     0     0     0     0     0     1     0     1     0     0
## X1003     1     1     0     0     0     0     0     1     0     0     2     0
## X1005     0     0     0     0     0     0     0     1     0     0     0     0
## X1102     0     1     0     0     0     0     0     0     0     0     1     0
## X1108     0     1     0     0     0     0     0     0     0     0     1     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     1     0     0     0     0     0     0     0     0     1     0
## X1213     0     0     0     0     0     0     0     1     0     1     0     1
## X1214     0     1     1     0     0     0     0     1     0     1     0     1
## X1302     0     1     1     0     0     0     0     2     0     1     0     1
## X1507     1     0     0     0     0     0     1     0     0     0     0     0
## X1514     1     0     0     0     0     0     1     0     0     0     0     0
## X1517     1     1     0     0     0     0     0     0     0     0     2     0
```

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## X1601     1     0     0     0     0     0     1     0     0     0     0     0
## X1602     2     0     0     0     0     0     1     0     0     0     1     0
## X1704     1     0     0     0     0     0     0     0     0     0     1     0
## X1806     1     1     0     0     0     0     0     0     0     0     2     0
## X1901     2     1     0     0     0     0     1     0     0     0     2     0
## X1902     1     0     0     0     0     0     1     0     0     0     0     0
## X1905     1     1     0     1     1     1     1     0     1     1     3     0
## X2001     1     0     0     0     0     0     1     0     0     0     0     0
## X2002     1     0     0     0     0     0     1     0     0     0     0     0
## X2003     1     0     0     0     0     0     1     0     0     0     0     0
## X2004     1     0     0     0     0     0     1     0     0     0     0     0
## X2005     2     0     0     0     0     0     1     0     0     0     1     0
## X2006     1     0     0     0     0     0     0     0     0     0     1     0
## X2007     2     0     0     0     0     0     1     0     0     0     1     0
## X2008     1     1     0     0     0     0     0     0     0     0     2     0
## X2101     1     0     0     0     0     0     1     0     0     0     0     0
## X2102     1     0     0     0     0     0     0     0     0     0     1     0
## X2103     1     0     0     0     0     0     1     0     0     0     0     0
## X2104     0     0     0     0     0     0     0     0     0     0     0     0
## X2106     1     1     0     0     0     0     1     0     0     0     1     0
## X2202     1     1     0     0     0     0     1     1     0     0     1     0
## X2206     0     0     0     0     0     0     0     0     0     0     0     0
## X2208     1     1     1     0     0     0     0     0     0     0     1     0
## X2209     1     0     0     0     0     0     1     0     0     0     0     0
## X2302     0     0     0     0     0     0     0     0     0     0     0     0
## X2309     0     1     0     0     0     0     0     0     0     0     1     0
## X2402     1     0     0     0     0     0     0     0     0     0     1     0
## X2403     1     0     0     0     0     0     0     0     0     0     1     0
## X2507     0     0     0     0     0     0     0     0     0     0     0     0
## X2508     1     1     0     0     0     0     0     0     0     0     2     0
## X2512     0     1     1     0     0     0     0     0     0     0     0     0
## X2517     1     0     0     0     0     0     0     1     0     0     1     0
## X2519     0     1     0     0     0     0     0     0     0     0     1     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     1     0     0     0     0     0     0     0     0     0     1     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     1     0     0     0     0     0     0     0     0     0     1     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     0     0
## X2713     0     0     0     1     1     1     1     0     1     1     1     0
## X2714     0     0     0     1     1     1     1     0     1     1     1     0
## X2716     1     1     1     0     0     0     0     0     0     1     1     0
## X2804     1     1     0     0     0     0     0     0     0     0     2     0
## X2811     1     1     0     0     0     0     0     0     0     0     2     0
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     0     1     0     0     0     0     0     0     0     0     1     0
## X2832     0     1     0     0     0     0     0     0     0     0     1     0
## X2833     0     1     0     0     0     0     0     0     0     0     1     0
## X2835     0     1     0     0     0     0     0     0     0     0     1     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     1     1     0     0     0     0     0     0     0     0     2     0
## X2903     0     0     0     1     1     1     1     0     1     2     1     0
## X2907     0     1     0     0     0     0     0     0     0     0     1     0
## X2915     0     1     0     0     0     0     0     0     0     0     1     0
## X2933     0     1     0     0     0     0     0     0     0     0     1     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     1     0     0     0     0     0     0     0     0     1     0
## X3204     1     1     0     0     0     0     0     0     0     0     2     0
## X3205     0     0     0     1     1     1     1     0     1     1     1     0
## X3206     0     1     0     1     1     1     1     0     1     1     2     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     0     0     1     1     1     1     0     1     1     1     0
## X3209     0     0     0     1     1     1     1     0     1     1     1     0
## X3210     0     1     0     0     0     0     0     0     0     0     1     0
## X3211     0     0     0     1     1     1     1     0     1     1     1     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     0     1     1     1     1     0     1     2     1     0
## X3215     0     0     0     1     1     1     1     0     1     1     1     0
## X3302     1     1     0     0     0     0     1     0     0     0     1     0
## X3303     1     0     0     0     0     0     0     0     0     0     1     0
## X3304     1     0     0     0     0     0     0     0     0     0     1     0
## X3305     1     0     0     0     0     0     0     0     0     0     1     0
## X3307     1     0     0     0     0     0     0     0     0     0     1     0
## X3402     2     1     0     0     0     0     1     0     0     0     2     0
## X3403     1     1     0     0     0     0     0     0     0     0     2     0
## X3506     2     0     0     1     1     1     2     0     1     1     2     0
```

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## X3507     1     1     0     0     0     0     1     0     0     0     1     0
## X3605     0     0     0     0     0     0     0     0     0     0     0     0
## X3701     0     0     0     1     1     1     1     0     1     1     1     0
## X3707     0     0     0     1     1     1     1     0     1     1     1     0
## X3802     0     0     0     0     0     0     0     0     0     1     0     0
## X3808     1     0     0     0     0     0     0     0     0     0     1     0
## X3809     1     1     0     0     0     0     0     0     0     0     2     0
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     1     0     1     1     1     1     0     1     1     2     0
## X3815     0     1     0     0     0     0     0     0     0     0     1     0
## X3816     1     0     0     0     0     0     0     0     0     0     1     0
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     0     0
## X3902     0     1     0     0     0     0     0     0     0     0     1     0
## X3908     2     0     0     0     0     0     1     0     0     0     1     0
## X3909     0     1     0     0     0     0     0     0     0     0     1     0
## X3910     0     1     0     0     0     0     0     0     0     0     1     0
## X3911     0     1     0     0     0     0     0     0     0     0     1     0
## X3915     0     1     0     0     0     0     0     0     0     0     1     0
## X3916     0     0     0     1     1     1     1     0     1     1     1     0
## X3917     1     1     0     0     0     0     0     0     0     0     2     0
## X3919     0     1     0     1     1     1     1     0     1     1     2     0
## X3920     0     1     0     1     1     1     1     0     1     1     2     0
## X3921     0     1     0     1     1     1     1     0     1     1     2     0
## X3923     1     0     0     0     0     0     1     0     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     1     0     0     0     0     0     0     0     0     1     0
## X3926     1     1     0     0     0     0     0     0     0     1     2     0
## X4001     0     0     0     1     1     1     1     0     1     1     1     0
## X4005     0     0     0     0     0     0     0     0     0     0     0     0
## X4006     0     0     0     0     0     0     0     0     0     0     0     0
## X4008     1     0     0     0     0     0     0     0     0     0     1     0
## X4009     0     0     0     0     0     0     0     0     0     0     0     0
## X4010     1     0     0     0     0     0     1     0     0     0     0     0
## X4012     0     0     0     0     0     0     0     0     0     0     0     0
## X4013     0     0     0     0     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     0     0     0     0     0
## X4202     0     1     0     1     1     1     1     1     1     1     2     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     1     1     0     0     0     0     1     0     0     0     1     0
## X4415     1     1     0     0     0     0     1     0     0     0     1     0
## X4416     0     2     1     0     0     0     0     0     0     0     1     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     0
## X4421     1     0     0     0     0     0     0     0     0     0     1     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     1     0     0     0     0     0     0     0     0     1     0
## X4808     0     1     0     1     1     1     1     0     1     2     2     0
## X4818     0     0     0     1     1     1     1     0     1     1     1     0
## X4819     1     0     0     0     0     0     1     0     0     0     0     0
## X4821     1     0     0     1     1     1     2     0     1     1     1     0
## X4822     0     1     0     0     0     0     0     0     0     0     1     0
## X4823     0     1     0     0     0     0     0     0     0     1     1     0
## X4901     1     0     0     0     0     0     0     0     0     0     1     0
## X4902     1     0     0     0     0     0     0     0     0     0     1     0
## X4907     1     0     0     0     0     0     0     0     0     0     1     0
## X4911     0     0     0     0     0     0     1     0     0     0     1     0
## X5111     0     0     1     0     0     0     0     0     0     0     1     0
## X5112     0     1     0     0     0     0     0     0     0     0     0     0
## X5205     0     0     0     0     1     1     1     0     1     1     1     0
## X5206     0     0     0     1     0     1     1     0     1     1     1     0
## X5208     0     0     0     1     1     0     1     0     1     1     1     0
## X5209     1     0     0     1     1     1     0     0     1     1     1     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     0     0     1     1     1     1     0     0     1     1     0
## X5402     0     0     0     1     1     1     1     0     1     0     1     0
## X5407     1     1     0     1     1     1     1     0     1     1     0     0
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     1
## X5508     2     0     0     0     0     0     1     0     0     1     1     0
## X5509     0     0     0     1     1     1     1     0     1     1     1     1
## X5511     0     0     0     0     0     0     0     0     0     0     0     0
## X5512     1     0     0     0     0     0     1     0     0     0     0     1
## X5513     0     0     0     0     0     0     0     2     0     0     0     0
## X5514     0     0     0     1     1     1     1     0     1     1     1     0
## X5515     1     1     1     0     0     0     1     0     0     0     0     0
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## X5516     0     0     0     0     0     0     0     2     0     0     0     0
## X5601     1     0     0     0     0     0     0     0     0     0     1     0
## X5603     1     1     0     0     0     0     1     2     0     0     1     0
## X5609     0     0     0     0     0     0     0     0     0     0     0     0
## X5806     1     0     0     1     1     1     2     0     1     1     1     0
## X5807     1     0     0     1     1     1     2     0     1     1     1     0
## X5903     0     1     0     0     0     0     0     0     0     0     1     0
## X5907     1     0     0     0     0     0     1     0     0     0     0     0
## X5911     0     1     1     1     1     1     1     2     1     1     1     0
## X6002     2     1     0     1     1     1     2     1     1     1     3     0
## X6101     1     0     0     0     0     0     1     0     0     0     0     0
## X6103     0     0     0     1     1     1     1     0     1     1     1     0
## X6104     1     0     0     1     1     1     1     0     1     1     2     0
## X6105     1     0     0     0     0     0     1     0     0     0     0     0
## X6106     1     0     0     1     1     1     1     0     1     1     2     0
## X6107     0     0     0     1     1     1     1     0     1     1     1     0
## X6109     0     0     0     1     1     1     1     0     1     1     1     0
## X6110     1     0     0     0     0     0     1     0     0     0     0     0
## X6111     0     0     0     1     1     1     1     0     1     1     1     0
## X6112     0     0     0     1     1     1     1     0     1     1     1     0
## X6114     0     1     1     1     1     1     1     1     1     1     1     0
## X6115     1     0     0     1     1     1     1     0     1     1     2     0
## X6117     1     0     0     0     0     0     1     0     0     0     0     0
## X6201     0     0     0     1     1     1     1     0     1     1     1     0
## X6202     0     0     0     1     1     1     1     0     1     1     1     0
## X6203     1     0     0     1     1     1     2     0     1     1     1     0
## X6204     0     0     0     1     1     1     1     0     1     1     1     0
## X6205     2     0     0     0     0     0     1     0     0     0     1     0
## X6206     1     0     0     1     1     1     1     0     1     1     2     0
## X6210     0     0     0     1     1     1     1     0     1     1     1     0
## X6211     1     0     0     1     1     1     2     1     1     1     1     0
## X6212     1     1     0     1     1     1     2     0     1     1     2     0
## X6217     0     0     0     1     1     1     1     0     1     1     1     0
## X6302     0     0     0     1     1     1     1     0     1     1     1     0
## X6303     0     0     0     1     1     1     1     0     1     1     1     0
## X6304     0     0     0     1     1     1     1     0     1     1     1     0
## X6305     0     1     0     1     1     1     1     0     1     1     2     0
## X6306     0     1     0     0     0     0     0     0     0     0     1     0
## X6307     0     0     0     1     1     1     1     0     1     1     1     0
## X6401     1     0     0     0     0     0     0     0     0     0     1     0
## X6403     1     0     0     0     0     0     0     0     0     0     1     0
## X6404     0     1     0     0     0     0     0     0     0     0     1     0
##       X5505 X5508 X5509 X5511 X5512 X5513 X5514 X5515 X5516 X5601 X5603 X5609
## X102      0     1     0     0     0     0     0     0     0     1     0     0
## X210      0     1     0     0     1     0     0     1     0     0     1     0
## X401      0     1     0     0     0     0     0     0     0     1     1     0
## X403      0     2     0     0     1     0     0     1     0     1     1     0
## X406      0     1     0     0     1     0     0     1     0     0     1     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      2     2     2     1     3     2     0     1     2     1     3     1
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      1     1     1     1     1     0     0     0     0     0     0     1
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0     1     0     0     0     0     0     0     0     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     1     0     0     0     0     0     0     0     1     0     0
## X813      1     0     1     1     1     0     0     0     0     0     0     1
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     0     0     0
## X1001     0     1     0     0     0     1     0     0     1     0     1     0
## X1003     0     1     0     0     0     1     0     0     1     1     2     0
## X1005     0     0     0     0     0     1     0     0     1     0     1     0
## X1102     0     0     0     0     0     0     0     0     0     0     1     0
## X1108     0     0     0     0     0     0     0     0     0     0     1     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     0     0     0     0     0     0     0     0     1     0
## X1213     1     1     1     0     1     1     0     0     1     0     1     0
## X1214     2     1     2     1     2     1     0     1     1     0     1     1
## X1302     2     1     2     1     2     2     0     1     2     0     2     1
## X1507     0     1     0     0     1     0     0     1     0     0     1     0
## X1514     0     1     0     0     1     0     0     1     0     0     1     0
## X1517     0     1     0     0     0     0     0     0     0     1     1     0
## X1601     0     1     0     0     1     0     0     1     0     0     1     0
## X1602     0     2     0     0     1     0     0     1     0     1     1     0
## X1704     1     1     1     1     1     0     0     0     0     1     0     1
```

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## X1806     1     1     1     1     1     0     0     0     0     1     1     1
## X1901     1     2     1     1     2     0     0     1     0     1     2     1
## X1902     0     1     0     0     1     0     0     1     0     0     1     0
## X1905     1     1     2     1     1     0     1     0     0     1     1     1
## X2001     0     1     0     0     1     0     0     1     0     0     1     0
## X2002     0     1     0     0     1     0     0     1     0     0     1     0
## X2003     0     1     0     0     1     0     0     1     0     0     1     0
## X2004     0     1     0     0     1     0     0     1     0     0     1     0
## X2005     1     2     1     1     2     0     0     1     0     1     1     1
## X2006     0     1     0     0     0     0     0     0     0     1     0     0
## X2007     0     2     0     0     1     0     0     1     0     1     1     0
## X2008     1     1     1     1     1     0     0     0     0     1     1     1
## X2101     0     1     0     0     1     0     0     1     0     0     1     0
## X2102     0     1     0     0     0     0     0     0     0     1     0     0
## X2103     0     1     0     0     1     0     0     1     0     0     1     0
## X2104     0     0     0     0     0     0     0     0     0     0     0     0
## X2106     0     1     0     0     1     0     0     1     0     0     2     0
## X2202     0     1     0     0     1     1     0     1     1     0     3     0
## X2206     1     0     1     1     1     0     0     0     0     0     0     1
## X2208     0     1     0     0     0     0     0     1     0     1     0     0
## X2209     0     1     0     0     1     0     0     1     0     0     1     0
## X2302     0     0     0     0     0     0     0     0     0     0     0     0
## X2309     0     0     0     0     0     0     0     0     0     0     1     0
## X2402     0     1     0     0     0     0     0     0     0     1     0     0
## X2403     0     1     0     0     0     0     0     0     0     1     0     0
## X2507     1     0     1     1     1     0     0     0     0     0     0     1
## X2508     0     1     0     0     0     0     0     0     0     1     1     0
## X2512     0     0     0     0     0     0     0     1     0     0     0     0
## X2517     1     1     1     1     1     1     0     0     1     1     1     1
## X2519     0     0     0     0     0     0     0     0     0     0     1     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     1     0     0     0     0     0     0     0     1     0     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     1     0     0     0     0     0     0     0     1     0     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     0     0
## X2713     0     0     1     0     0     0     1     0     0     0     0     0
## X2714     0     0     1     0     0     0     1     0     0     0     0     0
## X2716     0     2     0     0     0     0     0     1     0     1     0     0
## X2804     0     1     0     0     0     0     0     0     0     1     1     0
## X2811     0     1     0     0     0     0     0     0     0     1     1     0
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     0     0     0     0     0     0     0     0     0     0     1     0
## X2832     0     0     0     0     0     0     0     0     0     0     1     0
## X2833     0     0     0     0     0     0     0     0     0     0     1     0
## X2835     0     0     0     0     0     0     0     0     0     0     1     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     1     0     0     0     0     0     0     0     1     1     0
## X2903     0     1     1     0     0     0     1     0     0     0     0     0
## X2907     0     0     0     0     0     0     0     0     0     0     1     0
## X2915     0     0     0     0     0     0     0     0     0     0     1     0
## X2933     0     0     0     0     0     0     0     0     0     0     1     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     0     0     0     0     0     0     0     0     1     0
## X3204     0     1     0     0     0     0     0     0     0     1     1     0
## X3205     0     0     1     0     0     0     1     0     0     0     0     0
## X3206     0     0     1     0     0     0     1     0     0     0     1     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     0     1     0     0     0     1     0     0     0     0     0
## X3209     0     0     1     0     0     0     1     0     0     0     0     0
## X3210     0     0     0     0     0     0     0     0     0     0     1     0
## X3211     0     0     1     0     0     0     1     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     1     1     0     0     0     1     0     0     0     0     0
## X3215     0     0     1     0     0     0     1     0     0     0     0     0
## X3302     0     1     0     0     1     0     0     1     0     0     2     0
## X3303     0     1     0     0     0     0     0     0     0     1     0     0
## X3304     0     1     0     0     0     0     0     0     0     1     0     0
## X3305     0     1     0     0     0     0     0     0     0     1     0     0
## X3307     0     1     0     0     0     0     0     0     0     1     0     0
## X3402     0     2     0     0     1     0     0     1     0     1     2     0
## X3403     0     1     0     0     0     0     0     0     0     1     1     0
## X3506     0     2     1     0     1     0     1     1     0     1     1     0
## X3507     0     1     0     0     1     0     0     1     0     0     2     0
## X3605     0     0     0     0     0     0     0     0     0     0     0     0
## X3701     0     0     1     0     0     0     1     0     0     0     0     0
```

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## X3707     0     0     1     0     0     0     1     0     0     0     0     0
## X3802     0     1     0     0     0     0     0     0     0     0     0     0
## X3808     0     1     0     0     0     0     0     0     0     1     0     0
## X3809     0     1     0     0     0     0     0     0     0     1     1     0
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     0     1     0     0     0     1     0     0     0     1     0
## X3815     0     0     0     0     0     0     0     0     0     0     1     0
## X3816     0     1     0     0     0     0     0     0     0     1     0     0
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     0     0
## X3902     0     0     0     0     0     0     0     0     0     0     1     0
## X3908     0     2     0     0     1     0     0     1     0     1     1     0
## X3909     0     0     0     0     0     0     0     0     0     0     1     0
## X3910     0     0     0     0     0     0     0     0     0     0     1     0
## X3911     0     0     0     0     0     0     0     0     0     0     1     0
## X3915     0     0     0     0     0     0     0     0     0     0     1     0
## X3916     0     0     1     0     0     0     1     0     0     0     0     0
## X3917     1     1     1     1     1     0     0     0     0     1     1     1
## X3919     0     0     1     0     0     0     1     0     0     0     1     0
## X3920     0     0     1     0     0     0     1     0     0     0     1     0
## X3921     0     0     1     0     0     0     1     0     0     0     1     0
## X3923     1     1     1     1     2     0     0     1     0     0     1     1
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     0     0     0     0     0     0     0     0     1     0
## X3926     0     2     0     0     0     0     0     0     0     1     1     0
## X4001     0     0     1     0     0     0     1     0     0     0     0     0
## X4005     0     0     0     0     0     0     0     0     0     0     0     0
## X4006     0     0     0     0     0     0     0     0     0     0     0     0
## X4008     0     1     0     0     0     0     0     0     0     1     0     0
## X4009     0     0     0     0     0     0     0     0     0     0     0     0
## X4010     1     1     1     1     2     0     0     1     0     0     1     1
## X4012     0     0     0     0     0     0     0     0     0     0     0     0
## X4013     0     0     0     0     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     0     0     0     0     0
## X4202     0     0     1     0     0     1     1     0     1     0     2     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     1     1     1     1     2     0     0     1     0     0     2     1
## X4415     0     1     0     0     1     0     0     1     0     0     2     0
## X4416     1     0     1     1     1     0     0     1     0     0     1     1
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     1     0     1     1     1     0     0     0     0     0     0     1
## X4421     1     1     1     1     1     0     0     0     0     1     0     1
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     0     0     0     0     0     0     0     1     0
## X4808     0     1     1     0     0     0     1     0     0     0     1     0
## X4818     0     0     1     0     0     0     1     0     0     0     0     0
## X4819     0     1     0     0     1     0     0     1     0     0     1     0
## X4821     0     1     1     0     1     0     1     1     0     0     1     0
## X4822     0     0     0     0     0     0     0     0     0     0     1     0
## X4823     0     1     0     0     0     0     0     0     0     0     1     0
## X4901     0     1     0     0     0     0     0     0     0     1     0     0
## X4902     0     1     0     0     0     0     0     0     0     1     0     0
## X4907     0     1     0     0     0     0     0     0     0     1     0     0
## X4911     0     2     0     0     1     0     0     1     0     1     1     0
## X5111     0     0     0     0     0     0     0     1     0     0     1     0
## X5112     0     0     0     0     0     0     0     1     0     0     0     0
## X5205     0     0     1     0     0     0     1     0     0     0     0     0
## X5206     0     0     1     0     0     0     1     0     0     0     0     0
## X5208     0     0     1     0     0     0     1     0     0     0     0     0
## X5209     0     1     1     0     1     0     1     1     0     0     1     0
## X5210     0     0     0     0     0     2     0     0     2     0     2     0
## X5211     0     0     1     0     0     0     1     0     0     0     0     0
## X5402     0     1     1     0     0     0     1     0     0     0     0     0
## X5407     0     1     1     0     0     0     1     0     0     1     1     0
## X5408     1     0     1     0     1     0     0     0     0     0     0     0
## X5505     0     0     2     1     2     0     0     0     0     0     0     1
## X5508     0     0     0     0     1     0     0     1     0     1     1     0
## X5509     2     0     0     1     2     0     1     0     0     0     0     1
## X5511     1     0     1     0     1     0     0     0     0     0     0     1
## X5512     2     1     2     1     0     0     0     1     0     0     1     1
## X5513     0     0     0     0     0     0     0     0     2     0     2     0
## X5514     0     0     1     0     0     0     0     0     0     0     0     0
## X5515     0     1     0     0     1     0     0     0     0     0     1     0
## X5516     0     0     0     0     0     2     0     0     0     0     2     0
## X5601     0     1     0     0     0     0     0     0     0     0     0     0
## X5603     0     1     0     0     1     2     0     1     2     0     0     0
```

```
## X5609     1     0     1     1     1     0     0     0     0     0     0     0
## X5806     0     1     1     0     1     0     1     1     0     0     1     0
## X5807     0     1     1     0     1     0     1     1     0     0     1     0
## X5903     0     0     0     0     0     0     0     0     0     0     1     0
## X5907     0     1     0     0     1     0     0     1     0     0     1     0
## X5911     1     0     2     1     1     2     1     1     2     0     2     1
## X6002     0     2     1     0     1     1     1     1     1     1     3     0
## X6101     0     1     0     0     1     0     0     1     0     0     1     0
## X6103     0     0     1     0     0     0     1     0     0     0     0     0
## X6104     0     1     1     0     0     0     1     0     0     1     0     0
## X6105     0     1     0     0     1     0     0     1     0     0     1     0
## X6106     0     1     1     0     0     0     1     0     0     1     0     0
## X6107     0     0     1     0     0     0     1     0     0     0     0     0
## X6109     0     0     1     0     0     0     1     0     0     0     0     0
## X6110     1     1     1     1     2     0     0     1     0     0     1     1
## X6111     0     0     1     0     0     0     1     0     0     0     0     0
## X6112     0     0     1     0     0     0     1     0     0     0     0     0
## X6114     1     0     2     1     1     1     1     1     1     0     1     1
## X6115     0     1     1     0     0     0     1     0     0     1     0     0
## X6117     0     1     0     0     1     0     0     1     0     0     1     0
## X6201     0     0     1     0     0     0     1     0     0     0     0     0
## X6202     0     0     1     0     0     0     1     0     0     0     0     0
## X6203     0     1     1     0     1     0     1     1     0     0     1     0
## X6204     0     0     1     0     0     0     1     0     0     0     0     0
## X6205     0     2     0     0     1     0     0     1     0     1     1     0
## X6206     1     1     2     1     1     0     1     0     0     1     0     1
## X6210     0     0     1     0     0     0     1     0     0     0     0     0
## X6211     0     1     1     0     1     1     1     1     1     0     2     0
## X6212     0     1     1     0     1     0     1     1     0     0     2     0
## X6217     0     0     1     0     0     0     1     0     0     0     0     0
## X6302     0     0     1     0     0     0     1     0     0     0     0     0
## X6303     0     0     1     0     0     0     1     0     0     0     0     0
## X6304     0     0     1     0     0     0     1     0     0     0     0     0
## X6305     0     0     1     0     0     0     1     0     0     0     1     0
## X6306     0     0     0     0     0     0     0     0     0     0     1     0
## X6307     0     0     1     0     0     0     1     0     0     0     0     0
## X6401     0     1     0     0     0     0     0     0     0     1     0     0
## X6403     0     1     0     0     0     0     0     0     0     1     0     0
## X6404     0     0     0     0     0     0     0     0     0     0     1     0
##       X5806 X5807 X5903 X5907 X5911 X6002 X6101 X6103 X6104 X6105 X6106 X6107
## X102      0     0     0     0     0     1     0     0     1     0     1     0
## X210      1     1     0     1     0     1     1     0     0     1     0     0
## X401      0     0     1     0     0     2     0     0     1     0     1     0
## X403      1     1     0     1     0     2     1     0     1     1     1     0
## X406      1     1     0     1     0     1     1     0     0     1     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      1     1     0     1     3     3     1     0     1     1     1     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     0     0     0     1     0     0     0     0     0     0     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0     0     0     0     0     0     0     0     0     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     0     0     1     0     0     1     0     1     0
## X813      0     0     0     0     1     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     0     0     0
## X1001     0     0     0     0     1     0     0     0     0     0     0     0
## X1003     0     0     1     0     1     2     0     0     1     0     1     0
## X1005     0     0     0     0     1     0     0     0     0     0     0     0
## X1102     0     0     1     0     0     1     0     0     0     0     0     0
## X1108     0     0     1     0     0     1     0     0     0     0     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     1     0     0     1     0     0     0     0     0     0
## X1213     0     0     0     0     1     1     0     0     0     0     0     0
## X1214     0     0     0     0     3     0     0     0     0     0     0     0
## X1302     0     0     0     0     4     1     0     0     0     0     0     0
## X1507     1     1     0     1     0     1     1     0     0     1     0     0
## X1514     1     1     0     1     0     1     1     0     0     1     0     0
## X1517     0     0     1     0     0     2     0     0     1     0     1     0
## X1601     1     1     0     1     0     1     1     0     0     1     0     0
## X1602     1     1     0     1     0     2     1     0     1     1     1     0
## X1704     0     0     0     0     1     1     0     0     1     0     1     0
## X1806     0     0     1     0     1     2     0     0     1     0     1     0
## X1901     1     1     1     1     1     3     1     0     1     1     1     0
## X1902     1     1     0     1     0     1     1     0     0     1     0     0
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## X1905     1     1     1     0     2     3     0     1     2     0     2     1
## X2001     1     1     0     1     0     1     1     0     0     1     0     0
## X2002     1     1     0     1     0     1     1     0     0     1     0     0
## X2003     1     1     0     1     0     1     1     0     0     1     0     0
## X2004     1     1     0     1     0     1     1     0     0     1     0     0
## X2005     1     1     0     1     1     2     1     0     1     1     1     0
## X2006     0     0     0     0     0     1     0     0     1     0     1     0
## X2007     1     1     0     1     0     2     1     0     1     1     1     0
## X2008     0     0     1     0     1     2     0     0     1     0     1     0
## X2101     1     1     0     1     0     1     1     0     0     1     0     0
## X2102     0     0     0     0     0     1     0     0     1     0     1     0
## X2103     1     1     0     1     0     1     1     0     0     1     0     0
## X2104     0     0     0     0     0     0     0     0     0     0     0     0
## X2106     1     1     1     1     0     2     1     0     0     1     0     0
## X2202     1     1     1     1     1     2     1     0     0     1     0     0
## X2206     0     0     0     0     1     0     0     0     0     0     0     0
## X2208     0     0     0     0     1     1     0     0     1     0     1     0
## X2209     1     1     0     1     0     1     1     0     0     1     0     0
## X2302     0     0     0     0     0     0     0     0     0     0     0     0
## X2309     0     0     1     0     0     1     0     0     0     0     0     0
## X2402     0     0     0     0     0     1     0     0     1     0     1     0
## X2403     0     0     0     0     0     1     0     0     1     0     1     0
## X2507     0     0     0     0     1     0     0     0     0     0     0     0
## X2508     0     0     1     0     0     2     0     0     1     0     1     0
## X2512     0     0     0     0     1     0     0     0     0     0     0     0
## X2517     0     0     0     0     2     1     0     0     1     0     1     0
## X2519     0     0     1     0     0     1     0     0     0     0     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     0     0     0     0     1     0     0     1     0     1     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     0     0     1     0     0     1     0     1     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     0     0
## X2713     1     1     0     0     1     1     0     1     1     0     1     1
## X2714     1     1     0     0     1     1     0     1     1     0     1     1
## X2716     0     0     0     0     1     1     0     0     1     0     1     0
## X2804     0     0     1     0     0     2     0     0     1     0     1     0
## X2811     0     0     1     0     0     2     0     0     1     0     1     0
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     0     0     1     0     0     1     0     0     0     0     0     0
## X2832     0     0     1     0     0     1     0     0     0     0     0     0
## X2833     0     0     1     0     0     1     0     0     0     0     0     0
## X2835     0     0     1     0     0     1     0     0     0     0     0     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     0     1     0     0     2     0     0     1     0     1     0
## X2903     1     1     0     0     1     1     0     1     1     0     1     1
## X2907     0     0     1     0     0     1     0     0     0     0     0     0
## X2915     0     0     1     0     0     1     0     0     0     0     0     0
## X2933     0     0     1     0     0     1     0     0     0     0     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     1     0     0     1     0     0     0     0     0     0
## X3204     0     0     1     0     0     2     0     0     1     0     1     0
## X3205     1     1     0     0     1     1     0     1     1     0     1     1
## X3206     1     1     1     0     1     2     0     1     1     0     1     1
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     1     1     0     0     1     1     0     1     1     0     1     1
## X3209     1     1     0     0     1     1     0     1     1     0     1     1
## X3210     0     0     1     0     0     1     0     0     0     0     0     0
## X3211     1     1     0     0     1     1     0     1     1     0     1     1
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     1     1     0     0     1     1     0     1     1     0     1     1
## X3215     1     1     0     0     1     1     0     1     1     0     1     1
## X3302     1     1     1     1     0     2     1     0     0     1     0     0
## X3303     0     0     0     0     0     1     0     0     1     0     1     0
## X3304     0     0     0     0     0     1     0     0     1     0     1     0
## X3305     0     0     0     0     0     1     0     0     1     0     1     0
## X3307     0     0     0     0     0     1     0     0     1     0     1     0
## X3402     1     1     1     1     0     3     1     0     1     1     1     0
## X3403     0     0     1     0     0     2     0     0     1     0     1     0
## X3506     2     2     0     1     1     3     1     1     2     1     2     1
## X3507     1     1     1     1     0     2     1     0     0     1     0     0
## X3605     0     0     0     0     0     0     0     0     0     0     0     0
## X3701     1     1     0     0     1     1     0     1     1     0     1     1
## X3707     1     1     0     0     1     1     0     1     1     0     1     1
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     0     0     0     0     0     1     0     0     1     0     1     0
```

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## X3809     0     0     1     0     0     2     0     0     1     0     1     0
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     1     1     1     0     1     2     0     1     1     0     1     1
## X3815     0     0     1     0     0     1     0     0     0     0     0     0
## X3816     0     0     0     0     0     1     0     0     1     0     1     0
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     0     0
## X3902     0     0     1     0     0     1     0     0     0     0     0     0
## X3908     1     1     0     1     0     2     1     0     1     1     1     0
## X3909     0     0     1     0     0     1     0     0     0     0     0     0
## X3910     0     0     1     0     0     1     0     0     0     0     0     0
## X3911     0     0     1     0     0     1     0     0     0     0     0     0
## X3915     0     0     1     0     0     1     0     0     0     0     0     0
## X3916     1     1     0     0     1     1     0     1     1     0     1     1
## X3917     0     0     1     0     1     2     0     0     1     0     1     0
## X3919     1     1     1     0     1     2     0     1     1     0     1     1
## X3920     1     1     1     0     1     2     0     1     1     0     1     1
## X3921     1     1     1     0     1     2     0     1     1     0     1     1
## X3923     1     1     0     1     1     1     1     0     0     1     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     1     0     0     1     0     0     0     0     0     0
## X3926     0     0     1     0     0     2     0     0     1     0     1     0
## X4001     1     1     0     0     1     1     0     1     1     0     1     1
## X4005     0     0     0     0     0     0     0     0     0     0     0     0
## X4006     0     0     0     0     0     0     0     0     0     0     0     0
## X4008     0     0     0     0     0     1     0     0     1     0     1     0
## X4009     0     0     0     0     0     0     0     0     0     0     0     0
## X4010     1     1     0     1     1     1     1     0     0     1     0     0
## X4012     0     0     0     0     0     0     0     0     0     0     0     0
## X4013     0     0     0     0     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     0     0     0     0     0
## X4202     1     1     1     0     2     2     0     1     1     0     1     1
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     1     1     1     1     1     2     1     0     0     1     0     0
## X4415     1     1     1     1     0     2     1     0     0     1     0     0
## X4416     0     0     1     0     2     1     0     0     0     0     0     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     1     0     0     0     0     0     0     0
## X4421     0     0     0     0     1     1     0     0     1     0     1     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     1     0     0     1     0     0     0     0     0     0
## X4808     1     1     1     0     1     2     0     1     1     0     1     1
## X4818     1     1     0     0     1     1     0     1     1     0     1     1
## X4819     1     1     0     1     0     1     1     0     0     1     0     0
## X4821     2     2     0     1     1     2     1     1     1     1     1     1
## X4822     0     0     1     0     0     1     0     0     0     0     0     0
## X4823     0     0     1     0     0     1     0     0     0     0     0     0
## X4901     0     0     0     0     0     1     0     0     1     0     1     0
## X4902     0     0     0     0     0     1     0     0     1     0     1     0
## X4907     0     0     0     0     0     1     0     0     1     0     1     0
## X4911     1     1     0     1     0     2     1     0     1     1     1     0
## X5111     0     0     1     0     1     1     0     0     0     0     0     0
## X5112     0     0     0     0     1     0     0     0     0     0     0     0
## X5205     1     1     0     0     1     1     0     1     1     0     1     1
## X5206     1     1     0     0     1     1     0     1     1     0     1     1
## X5208     1     1     0     0     1     1     0     1     1     0     1     1
## X5209     2     2     0     1     1     2     1     1     1     1     1     1
## X5210     0     0     0     0     2     1     0     0     0     0     0     0
## X5211     1     1     0     0     1     1     0     1     1     0     1     1
## X5402     1     1     0     0     1     1     0     1     1     0     1     1
## X5407     1     1     1     0     1     3     0     1     2     0     2     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     1     0     0     0     0     0     0     0
## X5508     1     1     0     1     0     2     1     0     1     1     1     0
## X5509     1     1     0     0     2     1     0     1     1     0     1     1
## X5511     0     0     0     0     1     0     0     0     0     0     0     0
## X5512     1     1     0     1     1     1     1     0     0     1     0     0
## X5513     0     0     0     0     2     1     0     0     0     0     0     0
## X5514     1     1     0     0     1     1     0     1     1     0     1     1
## X5515     1     1     0     1     1     1     1     0     0     1     0     0
## X5516     0     0     0     0     2     1     0     0     0     0     0     0
## X5601     0     0     0     0     0     1     0     0     1     0     1     0
## X5603     1     1     1     1     2     3     1     0     0     1     0     0
## X5609     0     0     0     0     1     0     0     0     0     0     0     0
## X5806     0     2     0     1     1     2     1     1     1     1     1     1
## X5807     2     0     0     1     1     2     1     1     1     1     1     1
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```
## X5903     0     0     0     0     0     1     0     0     0     0     0     0
## X5907     1     1     0     0     0     1     1     0     0     1     0     0
## X5911     1     1     0     0     0     2     0     1     1     0     1     1
## X6002     2     2     1     1     2     0     1     1     2     1     2     1
## X6101     1     1     0     1     0     1     0     0     0     1     0     0
## X6103     1     1     0     0     1     1     0     0     1     0     1     1
## X6104     1     1     0     0     1     2     0     1     0     0     2     1
## X6105     1     1     0     1     0     1     1     0     0     0     0     0
## X6106     1     1     0     0     1     2     0     1     2     0     0     1
## X6107     1     1     0     0     1     1     0     1     1     0     1     0
## X6109     1     1     0     0     1     1     0     1     1     0     1     1
## X6110     1     1     0     1     1     1     1     0     0     1     0     0
## X6111     1     1     0     0     1     1     0     1     1     0     1     1
## X6112     1     1     0     0     1     1     0     1     1     0     1     1
## X6114     1     1     0     0     4     1     0     1     1     0     1     1
## X6115     1     1     0     0     1     2     0     1     2     0     2     1
## X6117     1     1     0     1     0     1     1     0     0     1     0     0
## X6201     1     1     0     0     1     1     0     1     1     0     1     1
## X6202     1     1     0     0     1     1     0     1     1     0     1     1
## X6203     2     2     0     1     1     2     1     1     1     1     1     1
## X6204     1     1     0     0     1     1     0     1     1     0     1     1
## X6205     1     1     0     1     0     2     1     0     1     1     1     0
## X6206     1     1     0     0     2     2     0     1     2     0     2     1
## X6210     1     1     0     0     1     1     0     1     1     0     1     1
## X6211     2     2     0     1     2     2     1     1     1     1     1     1
## X6212     2     2     1     1     1     3     1     1     1     1     1     1
## X6217     1     1     0     0     1     1     0     1     1     0     1     1
## X6302     1     1     0     0     1     1     0     1     1     0     1     1
## X6303     1     1     0     0     1     1     0     1     1     0     1     1
## X6304     1     1     0     0     1     1     0     1     1     0     1     1
## X6305     1     1     1     0     1     2     0     1     1     0     1     1
## X6306     0     0     1     0     0     1     0     0     0     0     0     0
## X6307     1     1     0     0     1     1     0     1     1     0     1     1
## X6401     0     0     0     0     0     1     0     0     1     0     1     0
## X6403     0     0     0     0     0     1     0     0     1     0     1     0
## X6404     0     0     1     0     0     1     0     0     0     0     0     0
##       X6109 X6110 X6111 X6112 X6114 X6115 X6117 X6201 X6202 X6203 X6204 X6205
## X102      0     0     0     0     0     1     0     0     0     0     0     1
## X210      0     1     0     0     0     0     1     0     0     1     0     1
## X401      0     0     0     0     0     1     0     0     0     0     0     1
## X403      0     1     0     0     0     1     1     0     0     1     0     2
## X406      0     1     0     0     0     0     1     0     0     1     0     1
## X510      0     0     0     1     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     2     0     0     3     1     1     0     0     1     0     2
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     1     0     1     1     0     0     0     0     0     0     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0     0     0     2     0     0     0     0     0     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     1     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     0     0     1     0     0     0     0     0     1
## X813      0     1     0     0     1     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     1     0     0
## X904      0     0     0     0     0     0     0     0     0     0     0     0
## X1001     0     0     0     1     1     1     0     0     0     0     0     0
## X1003     0     0     0     1     1     2     0     0     0     0     0     1
## X1005     0     0     0     0     1     1     0     0     0     0     0     0
## X1102     0     0     0     0     0     0     0     0     0     0     0     0
## X1108     0     0     0     0     0     0     0     0     0     0     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     0     0     0     0     0     0     0     0     0     0
## X1213     0     0     0     0     1     0     0     0     0     0     0     0
## X1214     0     1     0     1     4     0     0     0     0     0     0     0
## X1302     0     1     0     1     4     0     0     0     0     1     0     0
## X1507     0     1     0     0     0     0     1     0     0     1     0     1
## X1514     0     1     0     0     0     0     1     0     0     1     0     1
## X1517     0     0     0     0     0     1     0     0     0     0     0     1
## X1601     0     1     0     0     0     0     1     0     0     1     0     1
## X1602     0     1     0     0     0     1     1     0     0     1     0     2
## X1704     0     1     0     0     1     2     0     0     0     0     0     1
## X1806     0     1     0     0     1     2     0     0     0     0     0     1
## X1901     0     2     0     0     1     1     1     0     0     1     0     2
## X1902     0     1     0     0     0     0     1     0     0     1     0     1
## X1905     1     1     1     1     2     2     0     1     1     1     1     1
## X2001     0     1     0     0     0     0     1     0     0     1     0     1
## X2002     0     1     0     0     0     0     1     0     0     1     0     1
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```
## X2003     0     1     0     0     0     0     1     0     0     1     0     1
## X2004     0     1     0     0     0     0     1     0     0     1     0     1
## X2005     0     2     0     0     1     1     1     0     0     1     0     2
## X2006     0     0     0     0     0     1     0     0     0     0     0     1
## X2007     0     1     0     0     0     1     1     0     0     1     0     2
## X2008     0     1     0     0     1     1     0     0     0     0     0     1
## X2101     0     1     0     0     0     0     1     0     0     1     0     1
## X2102     0     0     0     0     0     1     0     0     0     0     0     1
## X2103     0     1     0     0     0     0     1     0     0     1     0     1
## X2104     0     0     0     0     0     0     0     0     0     0     0     0
## X2106     0     1     0     0     0     0     1     0     0     1     0     1
## X2202     0     1     0     0     1     0     1     0     0     1     0     1
## X2206     0     1     0     0     1     0     0     0     0     0     0     0
## X2208     0     0     0     0     1     1     0     0     0     0     0     1
## X2209     0     1     0     0     0     0     1     0     0     1     0     1
## X2302     0     0     0     0     0     0     0     0     0     0     0     0
## X2309     0     0     0     0     0     0     0     0     0     0     0     0
## X2402     0     0     0     0     0     1     0     0     0     0     0     1
## X2403     0     0     0     0     0     1     0     0     0     0     0     1
## X2507     0     1     0     0     2     0     0     0     0     0     0     0
## X2508     0     0     0     0     0     1     0     0     0     0     0     1
## X2512     0     0     0     0     1     0     0     0     0     0     0     0
## X2517     0     1     0     1     2     1     0     0     0     0     0     1
## X2519     0     0     0     0     0     0     0     0     0     0     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     1     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     0     0     0     1     1     0     0     0     0     0     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     0     0     1     0     0     0     0     0     1
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     0     0
## X2713     1     0     1     1     1     1     0     1     1     1     1     0
## X2714     1     0     1     1     1     1     0     1     1     1     1     0
## X2716     0     0     0     0     2     1     0     0     0     0     0     1
## X2804     0     0     0     0     0     1     0     0     0     0     0     1
## X2811     0     0     0     0     0     1     0     0     0     0     0     1
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     0     0     0     0     0     0     0     0     0     0     0     0
## X2832     0     0     0     0     0     0     0     0     0     0     0     0
## X2833     0     0     0     0     0     0     0     0     0     0     0     0
## X2835     0     0     0     0     0     0     0     0     0     0     0     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     0     0     0     0     1     0     0     0     0     0     1
## X2903     1     0     1     1     1     1     0     1     1     1     1     0
## X2907     0     0     0     0     0     0     0     0     0     0     0     0
## X2915     0     0     0     0     0     0     0     0     0     0     0     0
## X2933     0     0     0     0     0     0     0     0     0     0     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     0     0     0     0     0     0     0     0     0     0
## X3204     0     0     0     0     0     1     0     0     0     0     0     1
## X3205     1     0     1     1     1     1     0     1     1     1     1     0
## X3206     1     0     1     1     1     1     0     1     1     1     1     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     1     0     1     1     1     1     0     1     1     1     1     0
## X3209     1     0     1     1     1     1     0     1     1     1     1     0
## X3210     0     0     0     0     0     0     0     0     0     0     0     0
## X3211     1     0     1     1     1     1     0     1     1     1     1     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     1     0     1     1     1     1     0     1     1     1     1     0
## X3215     1     0     1     1     1     1     0     1     1     1     1     0
## X3302     0     1     0     0     0     0     1     0     0     1     0     1
## X3303     0     0     0     0     0     1     0     0     0     0     0     1
## X3304     0     0     0     0     0     1     0     0     0     0     0     1
## X3305     0     0     0     0     0     1     0     0     0     0     0     1
## X3307     0     0     0     0     0     1     0     0     0     0     0     1
## X3402     0     1     0     0     0     1     1     0     0     1     0     2
## X3403     0     0     0     0     0     1     0     0     0     0     0     1
## X3506     1     1     1     1     1     2     1     1     1     2     1     2
## X3507     0     1     0     0     0     0     1     0     0     1     0     1
## X3605     0     0     0     0     0     0     0     0     0     0     0     0
## X3701     1     0     1     1     1     1     0     1     1     1     1     0
## X3707     1     0     1     1     1     1     0     1     1     1     1     0
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     0     0     0     0     0     1     0     0     0     0     0     1
## X3809     0     0     0     1     0     1     0     0     0     0     0     1
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
```

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## X3814     1     0     1     1     1     1     0     1     1     1     1     0
## X3815     0     0     0     0     0     0     0     0     0     0     0     0
## X3816     0     0     0     0     0     1     0     0     0     0     0     1
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     0     0
## X3902     0     0     0     0     0     0     0     0     0     0     0     0
## X3908     0     1     0     0     0     1     1     0     0     1     0     2
## X3909     0     0     0     0     0     0     0     0     0     0     0     0
## X3910     0     0     0     0     0     0     0     0     0     0     0     0
## X3911     0     0     0     0     0     0     0     0     0     0     0     0
## X3915     0     0     0     0     0     0     0     0     0     0     0     0
## X3916     1     0     1     1     1     1     0     1     1     1     1     0
## X3917     0     1     0     1     1     1     0     0     0     0     0     1
## X3919     1     0     1     1     1     1     0     1     1     1     1     0
## X3920     1     0     1     1     1     1     0     1     1     1     1     0
## X3921     1     0     1     1     1     1     0     1     1     1     1     0
## X3923     0     2     0     0     1     1     1     0     0     1     0     1
## X3924     0     0     0     0     0     1     0     0     0     0     0     0
## X3925     0     0     0     0     0     0     0     0     0     0     0     0
## X3926     0     0     0     0     0     1     0     0     0     0     0     1
## X4001     1     0     1     1     1     1     0     1     1     1     1     0
## X4005     0     0     0     0     0     0     0     0     0     0     0     0
## X4006     0     0     0     0     0     0     0     0     0     0     0     0
## X4008     0     0     0     0     0     1     0     0     0     0     0     1
## X4009     0     0     0     0     0     0     0     0     0     0     0     0
## X4010     0     2     0     1     1     0     1     0     0     1     0     1
## X4012     0     0     0     0     0     0     0     0     0     0     0     0
## X4013     0     0     0     0     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     0     0     0     0     0
## X4202     1     0     1     1     2     1     0     1     1     1     1     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     2     0     0     1     0     1     0     0     1     0     1
## X4415     0     1     0     0     0     0     1     0     0     1     0     1
## X4416     0     1     0     1     2     0     0     0     0     0     0     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     1     0     0     1     0     0     0     0     0     0     0
## X4421     0     1     0     0     1     1     0     0     0     0     0     1
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     0     0     0     0     0     0     0     0     0
## X4808     1     0     1     1     1     1     0     1     1     1     1     0
## X4818     1     0     1     1     1     1     0     1     1     1     1     0
## X4819     0     1     0     0     0     0     1     0     0     1     0     1
## X4821     1     1     1     1     1     1     1     1     1     2     1     1
## X4822     0     0     0     0     0     0     0     0     0     0     0     0
## X4823     0     0     0     0     0     0     0     0     0     0     0     0
## X4901     0     0     0     0     0     1     0     0     0     0     0     1
## X4902     0     0     0     0     0     1     0     0     0     0     0     1
## X4907     0     0     0     0     0     1     0     0     0     0     0     1
## X4911     0     1     0     0     0     1     1     0     0     1     0     2
## X5111     0     0     0     0     1     0     0     0     0     0     0     0
## X5112     0     0     0     0     1     0     0     0     0     0     0     0
## X5205     1     0     1     1     1     1     0     1     1     1     1     0
## X5206     1     0     1     1     1     1     0     1     1     1     1     0
## X5208     1     0     1     1     1     1     0     1     1     1     1     0
## X5209     1     1     1     1     1     1     1     1     1     2     1     1
## X5210     0     0     0     0     1     0     0     0     0     0     0     0
## X5211     1     0     1     1     1     1     0     1     1     1     1     0
## X5402     1     0     1     1     1     1     0     1     1     1     1     0
## X5407     1     0     1     1     1     2     0     1     1     1     1     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     1     0     0     1     0     0     0     0     0     0     0
## X5508     0     1     0     0     0     1     1     0     0     1     0     2
## X5509     1     1     1     1     2     1     0     1     1     1     1     0
## X5511     0     1     0     0     1     0     0     0     0     0     0     0
## X5512     0     2     0     0     1     0     1     0     0     1     0     1
## X5513     0     0     0     0     1     0     0     0     0     0     0     0
## X5514     1     0     1     1     1     1     0     1     1     1     1     0
## X5515     0     1     0     0     1     0     1     0     0     1     0     1
## X5516     0     0     0     0     1     0     0     0     0     0     0     0
## X5601     0     0     0     0     0     1     0     0     0     0     0     1
## X5603     0     1     0     0     1     0     1     0     0     1     0     1
## X5609     0     1     0     0     1     0     0     0     0     0     0     0
## X5806     1     1     1     1     1     1     1     1     1     2     1     1
## X5807     1     1     1     1     1     1     1     1     1     2     1     1
## X5903     0     0     0     0     0     0     0     0     0     0     0     0
## X5907     0     1     0     0     0     0     1     0     0     1     0     1
## X5911     1     1     1     1     4     1     0     1     1     1     1     0
```

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## X6002     1     1     1     1     1     2     1     1     1     2     1     2
## X6101     0     1     0     0     0     0     1     0     0     1     0     1
## X6103     1     0     1     1     1     1     0     1     1     1     1     0
## X6104     1     0     1     1     1     2     0     1     1     1     1     1
## X6105     0     1     0     0     0     0     1     0     0     1     0     1
## X6106     1     0     1     1     1     2     0     1     1     1     1     1
## X6107     1     0     1     1     1     1     0     1     1     1     1     0
## X6109     0     0     1     1     1     1     0     1     1     1     1     0
## X6110     0     0     0     0     1     0     1     0     0     1     0     1
## X6111     1     0     0     1     1     1     0     1     1     1     1     0
## X6112     1     0     1     0     1     1     0     1     1     1     1     0
## X6114     1     1     1     1     0     1     0     1     1     1     1     0
## X6115     1     0     1     1     1     0     0     1     1     1     1     1
## X6117     0     1     0     0     0     0     0     0     0     1     0     1
## X6201     1     0     1     1     1     1     0     0     1     1     1     0
## X6202     1     0     1     1     1     1     0     1     0     1     1     0
## X6203     1     1     1     1     1     1     1     1     1     0     1     1
## X6204     1     0     1     1     1     1     0     1     1     1     0     0
## X6205     0     1     0     0     0     1     1     0     0     1     0     0
## X6206     1     1     1     1     2     2     0     1     1     1     1     1
## X6210     1     0     1     1     1     1     0     1     1     1     1     0
## X6211     1     1     1     1     2     1     1     1     1     3     1     1
## X6212     1     1     1     1     1     1     1     1     1     2     1     1
## X6217     1     0     1     1     1     1     0     1     1     1     1     0
## X6302     1     0     1     1     1     1     0     1     1     1     1     0
## X6303     1     0     1     1     1     1     0     1     1     1     1     0
## X6304     1     0     1     1     1     1     0     1     1     1     1     0
## X6305     1     0     1     1     1     1     0     1     1     1     1     0
## X6306     0     0     0     0     0     0     0     0     0     0     0     0
## X6307     1     0     1     1     1     1     0     1     1     1     1     0
## X6401     0     0     0     0     0     1     0     0     0     0     0     1
## X6403     0     0     0     0     0     1     0     0     0     0     0     1
## X6404     0     0     0     0     0     0     0     0     0     0     0     0
##       X6206 X6210 X6211 X6212 X6217 X6302 X6303 X6304 X6305 X6306 X6307 X6401
## X102      1     0     0     0     0     0     0     0     0     0     0     1
## X210      0     0     1     1     0     0     0     0     0     0     0     0
## X401      1     0     0     1     0     0     0     0     1     1     0     1
## X403      1     0     1     1     0     0     0     0     0     0     0     1
## X406      0     0     1     1     0     0     0     0     0     0     1     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     1     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      2     0     3     4     0     0     0     0     0     0     1     1
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      1     0     2     4     0     0     0     0     0     0     0     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      1     0     2     5     0     0     0     0     0     0     0     0
## X804      0     0     0     1     0     0     0     0     0     0     0     0
## X805      0     0     1     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      1     0     0     0     0     0     0     0     0     0     0     1
## X813      1     0     0     0     0     0     0     0     0     0     0     0
## X901      0     0     1     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     0     0     0
## X1001     0     0     2     3     0     0     0     0     0     0     0     0
## X1003     2     0     1     1     0     0     0     0     1     1     1     1
## X1005     0     0     2     2     0     0     0     0     0     0     0     0
## X1102     0     0     0     1     0     0     0     0     1     1     0     0
## X1108     0     0     0     1     0     0     0     0     1     1     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     0     1     0     0     0     0     1     1     0     0
## X1213     0     0     1     2     0     0     0     0     0     0     0     0
## X1214     1     0     3     3     0     0     0     0     0     0     0     0
## X1302     1     0     4     3     0     0     0     0     0     0     0     0
## X1507     0     0     1     1     0     0     0     0     0     0     0     0
## X1514     0     0     1     1     0     0     0     0     0     0     0     0
## X1517     1     0     0     1     0     0     0     0     1     1     0     1
## X1601     0     0     1     1     0     0     0     0     0     0     0     0
## X1602     1     0     1     1     0     0     0     0     0     0     0     1
## X1704     2     0     0     1     0     0     0     0     0     0     0     1
## X1806     2     0     0     2     0     0     0     0     1     1     0     1
## X1901     2     0     1     3     0     0     0     0     1     1     0     1
## X1902     0     0     1     1     0     0     0     0     0     0     0     0
## X1905     3     1     1     3     1     1     1     1     2     1     1     1
## X2001     0     0     1     1     0     0     0     0     0     0     0     0
## X2002     0     0     1     1     0     0     0     0     0     0     0     0
## X2003     0     0     1     1     0     0     0     0     0     0     0     0
## X2004     0     0     1     1     0     0     0     0     0     0     0     0
## X2005     2     0     1     2     0     0     0     0     0     0     0     1
```

```
## X2006     2     0     0     0     0     0     0     0     0     0     0     1
## X2007     1     0     1     1     0     0     0     0     0     0     0     1
## X2008     2     0     1     3     0     0     0     0     1     1     0     1
## X2101     0     0     1     1     0     0     0     0     0     0     0     0
## X2102     1     0     0     0     0     0     0     0     0     0     0     1
## X2103     0     0     1     1     0     0     0     0     0     0     0     0
## X2104     0     0     0     0     0     0     0     0     0     0     0     0
## X2106     0     0     1     2     0     0     0     0     1     1     0     0
## X2202     0     0     2     2     0     0     0     0     1     1     0     0
## X2206     1     0     0     0     0     0     0     0     0     0     0     0
## X2208     1     0     0     0     0     0     0     0     0     0     0     1
## X2209     0     0     1     1     0     0     0     0     0     0     0     0
## X2302     0     0     0     0     0     0     0     0     0     0     0     0
## X2309     0     0     0     1     0     0     0     0     1     1     0     0
## X2402     1     0     0     0     0     0     0     0     0     0     0     1
## X2403     1     0     0     0     0     0     0     0     0     0     0     1
## X2507     1     0     0     0     0     0     0     0     0     0     0     0
## X2508     1     0     0     1     0     0     0     0     1     1     0     1
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     3     0     1     1     0     0     0     0     0     0     0     1
## X2519     0     0     0     1     0     0     0     0     1     1     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     0     1     0     0     0     0     0     0     0     0
## X2530     1     0     0     0     0     0     0     0     0     0     0     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     1     0     0     0     0     0     0     0     0     0     0     1
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     0     0
## X2713     1     1     1     1     1     1     1     1     1     0     1     0
## X2714     1     1     1     1     1     1     1     1     1     0     1     0
## X2716     1     0     0     1     0     0     0     0     0     0     0     1
## X2804     1     0     0     1     0     0     0     0     1     1     0     1
## X2811     1     0     0     1     0     0     0     0     1     1     0     1
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     0     0     0     1     0     0     0     0     1     1     0     0
## X2832     0     0     0     1     0     0     0     0     1     1     0     0
## X2833     0     0     0     1     0     0     0     0     1     1     0     0
## X2835     0     0     0     1     0     0     0     0     1     1     0     0
## X2836     0     0     1     1     0     0     0     0     0     0     0     0
## X2901     1     0     0     1     0     0     0     0     1     1     0     1
## X2903     1     1     1     1     1     1     1     1     1     0     1     0
## X2907     0     0     0     1     0     0     0     0     1     1     0     0
## X2915     0     0     0     1     0     0     0     0     1     1     0     0
## X2933     0     0     0     1     0     0     0     0     1     1     0     0
## X3105     0     0     0     1     0     0     0     0     0     0     0     0
## X3202     0     0     0     1     0     0     0     0     1     1     0     0
## X3204     1     0     0     1     0     0     0     0     1     1     0     1
## X3205     1     1     1     1     1     1     1     1     1     0     1     0
## X3206     1     1     1     2     1     1     1     1     2     1     1     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     1     1     1     1     1     1     1     1     1     0     1     0
## X3209     1     1     1     1     1     1     1     1     1     0     1     0
## X3210     0     0     0     1     0     0     0     0     1     1     0     0
## X3211     1     1     1     1     1     1     1     1     1     0     1     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     1     1     1     1     1     1     1     1     1     0     1     0
## X3215     1     1     1     1     1     1     1     1     1     0     1     0
## X3302     0     0     1     2     0     0     0     0     1     1     0     0
## X3303     1     0     0     0     0     0     0     0     0     0     0     1
## X3304     1     0     0     0     0     0     0     0     0     0     0     1
## X3305     1     0     0     0     0     0     0     0     0     0     0     1
## X3307     1     0     0     0     0     0     0     0     0     0     0     1
## X3402     1     0     1     2     0     0     0     0     1     1     0     1
## X3403     1     0     1     2     0     0     0     0     1     1     0     1
## X3506     2     1     2     2     1     1     1     1     1     0     1     1
## X3507     0     0     1     2     0     0     0     0     1     1     0     0
## X3605     0     0     0     0     0     0     0     0     0     0     0     0
## X3701     1     1     1     1     1     1     1     1     1     0     1     0
## X3707     1     1     1     1     1     1     1     1     1     0     1     0
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     1     0     0     0     0     0     0     0     0     0     0     1
## X3809     1     0     0     1     0     0     0     0     1     1     0     1
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     1     1     0     0     0     0     0     0     0     0
## X3814     1     1     1     2     1     1     1     1     2     1     1     0
## X3815     0     0     0     1     0     0     0     0     1     1     0     0
## X3816     1     0     0     0     0     0     0     0     0     0     0     1
```

```
## X3819     0     0     1     1     0     0     0     0     0     0     0     0
## X3820     0     0     1     1     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     0     0
## X3902     0     0     0     1     0     0     0     0     1     1     0     0
## X3908     1     0     1     1     0     0     0     0     0     0     0     1
## X3909     0     0     0     1     0     0     0     0     1     1     0     0
## X3910     0     0     0     1     0     0     0     0     1     1     0     0
## X3911     0     0     0     1     0     0     0     0     1     1     0     0
## X3915     0     0     0     1     0     0     0     0     1     1     0     0
## X3916     1     1     1     1     1     1     1     1     1     0     1     0
## X3917     2     0     0     1     0     0     0     0     1     1     0     1
## X3919     1     1     1     2     1     1     1     1     2     1     1     0
## X3920     1     1     1     2     1     1     1     1     2     1     1     0
## X3921     1     1     2     3     1     1     1     1     2     1     1     0
## X3923     1     0     1     1     0     0     0     0     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     0     1     0     0     0     0     1     1     0     0
## X3926     1     0     0     1     0     0     0     0     1     1     1     1
## X4001     1     1     1     1     1     1     1     1     1     0     1     0
## X4005     0     0     0     0     0     0     0     0     0     0     0     0
## X4006     0     0     0     0     0     0     0     0     0     0     0     0
## X4008     1     0     0     0     0     0     0     0     0     0     0     1
## X4009     0     0     0     0     0     0     0     0     0     0     0     0
## X4010     1     0     1     1     0     0     0     0     0     0     0     0
## X4012     0     0     0     0     0     0     0     0     0     0     0     0
## X4013     0     0     0     0     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     1     0
## X4016     0     0     0     0     0     0     0     0     0     0     1     0
## X4202     1     1     2     3     1     1     1     1     2     1     1     0
## X4203     0     0     0     0     0     0     0     0     0     0     1     0
## X4409     1     0     1     2     0     0     0     0     1     1     0     0
## X4415     0     0     1     2     0     0     0     0     1     1     0     0
## X4416     1     0     0     1     0     0     0     0     1     1     0     0
## X4418     0     0     0     1     0     0     0     0     0     0     0     0
## X4420     1     0     0     0     0     0     0     0     0     0     0     0
## X4421     2     0     0     0     0     0     0     0     0     0     0     1
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     1     0     0     0     0     1     1     0     0
## X4808     1     1     1     2     1     1     1     1     2     1     1     0
## X4818     1     1     1     1     1     1     1     1     1     0     1     0
## X4819     0     0     1     1     0     0     0     0     0     0     0     0
## X4821     1     1     2     2     1     1     1     1     1     0     1     0
## X4822     0     0     0     1     0     0     0     0     1     1     0     0
## X4823     0     0     0     1     0     0     0     0     1     1     0     0
## X4901     1     0     0     0     0     0     0     0     0     0     0     1
## X4902     1     0     0     0     0     0     0     0     0     0     0     1
## X4907     1     0     0     0     0     0     0     0     0     0     0     1
## X4911     1     0     1     1     0     0     0     0     0     0     0     1
## X5111     0     0     0     1     0     0     0     0     1     1     0     0
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     1     1     1     1     1     1     1     1     1     0     1     0
## X5206     1     1     1     1     1     1     1     1     1     0     1     0
## X5208     1     1     1     1     1     1     1     1     1     0     1     0
## X5209     1     1     2     2     1     1     1     1     1     0     1     0
## X5210     0     0     1     0     0     0     0     0     0     0     0     0
## X5211     1     1     1     1     1     1     1     1     1     0     1     0
## X5402     1     1     1     1     1     1     1     1     1     0     1     0
## X5407     2     1     1     2     1     1     1     1     2     1     1     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     1     0     0     0     0     0     0     0     0     0     0     0
## X5508     1     0     1     1     0     0     0     0     0     0     0     1
## X5509     2     1     1     1     1     1     1     1     1     0     1     0
## X5511     1     0     0     0     0     0     0     0     0     0     0     0
## X5512     1     0     1     1     0     0     0     0     0     0     0     0
## X5513     0     0     1     0     0     0     0     0     0     0     0     0
## X5514     1     1     1     1     1     1     1     1     1     0     1     0
## X5515     0     0     1     1     0     0     0     0     0     0     0     0
## X5516     0     0     1     0     0     0     0     0     0     0     0     0
## X5601     1     0     0     0     0     0     0     0     0     0     0     1
## X5603     0     0     2     2     0     0     0     0     1     1     0     0
## X5609     1     0     0     0     0     0     0     0     0     0     0     0
## X5806     1     1     2     2     1     1     1     1     1     0     1     0
## X5807     1     1     2     2     1     1     1     1     1     0     1     0
## X5903     0     0     0     1     0     0     0     0     1     1     0     0
## X5907     0     0     1     1     0     0     0     0     0     0     0     0
## X5911     2     1     2     1     1     1     1     1     1     0     1     0
## X6002     2     1     2     3     1     1     1     1     2     1     1     1
## X6101     0     0     1     1     0     0     0     0     0     0     0     0
## X6103     1     1     1     1     1     1     1     1     1     0     1     0
```

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## X6104     2     1     1     1     1     1     1     1     1     0     1     1
## X6105     0     0     1     1     0     0     0     0     0     0     0     0
## X6106     2     1     1     1     1     1     1     1     1     0     1     1
## X6107     1     1     1     1     1     1     1     1     1     0     1     0
## X6109     1     1     1     1     1     1     1     1     1     0     1     0
## X6110     1     0     1     1     0     0     0     0     0     0     0     0
## X6111     1     1     1     1     1     1     1     1     1     0     1     0
## X6112     1     1     1     1     1     1     1     1     1     0     1     0
## X6114     2     1     2     1     1     1     1     1     1     0     1     0
## X6115     2     1     1     1     1     1     1     1     1     0     1     1
## X6117     0     0     1     1     0     0     0     0     0     0     0     0
## X6201     1     1     1     1     1     1     1     1     1     0     1     0
## X6202     1     1     1     1     1     1     1     1     1     0     1     0
## X6203     1     1     3     2     1     1     1     1     1     0     1     0
## X6204     1     1     1     1     1     1     1     1     1     0     1     0
## X6205     1     0     1     1     0     0     0     0     0     0     0     1
## X6206     0     1     1     1     1     1     1     1     1     0     1     1
## X6210     1     0     1     1     1     1     1     1     1     0     1     0
## X6211     1     1     0     3     1     1     1     1     1     0     1     0
## X6212     1     1     3     0     1     1     1     1     2     1     1     0
## X6217     1     1     1     1     0     1     1     1     1     0     1     0
## X6302     1     1     1     1     1     0     1     1     1     0     1     0
## X6303     1     1     1     1     1     1     0     1     1     0     1     0
## X6304     1     1     1     1     1     1     1     0     1     0     1     0
## X6305     1     1     1     2     1     1     1     1     0     1     1     0
## X6306     0     0     0     1     0     0     0     0     1     0     0     0
## X6307     1     1     1     1     1     1     1     1     1     0     0     0
## X6401     1     0     0     0     0     0     0     0     0     0     0     0
## X6403     1     0     1     1     0     0     0     0     0     0     0     1
## X6404     0     0     0     1     0     0     0     0     1     1     0     0
##       X6403 X6404 X6406 X6504 X6505 X6802 X6805 X6806 X6807 X6809 X6810 X6812
## X102      1     0     1     1     0     1     0     1     0     1     1     0
## X210      0     0     0     0     1     0     0     0     1     0     1     0
## X401      1     1     1     1     0     1     0     1     0     1     2     0
## X403      1     0     1     1     1     1     0     1     1     1     3     0
## X406      0     0     0     0     0     0     0     0     0     0     2     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     1     0     0     0     0     0     0     0     3     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      2     0     3     1     0     2     0     3     0     1    13     2
## X703      0     0     0     0     0     0     0     0     0     0     3     0
## X709      1     0     1     0     0     1     0     1     1     1    16     1
## X712      0     0     0     0     0     0     1     0     0     0     0     0
## X713      1     0     0     0     0     1     0     0     1     1    19     0
## X804      0     0     0     0     0     0     0     0     0     0     4     0
## X805      0     0     0     0     0     0     0     0     0     0     3     0
## X808      0     0     0     0     0     0     0     0     0     0     1     0
## X809      1     0     1     1     0     1     0     1     0     1     1     0
## X813      0     0     1     0     0     0     0     1     0     0     1     1
## X901      0     0     0     0     0     0     0     0     0     0     3     0
## X904      0     0     0     0     1     0     0     0     1     0     0     0
## X1001     1     0     0     0     0     1     0     0     0     1     8     0
## X1003     1     1     2     1     0     1     0     1     0     1     5     0
## X1005     0     0     0     0     0     0     0     0     0     0     9     0
## X1102     0     1     0     0     0     0     0     0     0     0     1     0
## X1108     0     1     0     0     0     0     0     0     0     0     1     0
## X1202     0     0     0     0     0     0     0     0     0     0     2     0
## X1208     0     1     0     0     0     0     0     0     0     0     1     0
## X1213     0     0     0     0     0     1     0     1     0     1    10     1
## X1214     1     0     1     0     0     0     0     2     1     1    14     2
## X1302     1     0     1     0     0     0     0     2     1     1    14     2
## X1507     0     0     0     0     0     0     0     0     0     0     1     0
## X1514     0     0     0     0     0     0     0     0     0     0     1     0
## X1517     1     1     1     1     0     1     0     1     0     1     2     0
## X1601     0     0     0     0     1     0     0     0     1     0     1     0
## X1602     1     0     1     1     1     1     0     1     1     1     2     0
## X1704     1     0     2     1     1     1     0     2     1     1     4     1
## X1806     1     1     2     1     1     1     0     2     1     1     5     1
## X1901     1     1     2     1     0     1     0     2     0     1     6     1
## X1902     0     0     0     0     0     0     0     0     0     0     1     0
## X1905     1     1     2     1     0     1     0     2     0     1     5     1
## X2001     0     0     0     0     0     0     0     0     0     0     1     0
## X2002     0     0     0     0     0     0     0     0     0     0     1     0
## X2003     0     0     0     0     0     0     0     0     0     0     1     0
## X2004     0     0     0     0     0     0     0     0     0     0     1     0
## X2005     1     0     2     1     0     1     0     2     0     1     5     1
## X2006     1     0     1     1     0     1     0     1     0     1     1     0
## X2007     1     0     1     1     0     1     0     1     0     1     2     0
## X2008     2     1     2     1     1     1     0     2     1     1     7     1
```

```
## X2101     0     0     0     0     0     0     0     0     0     0     1     0
## X2102     1     0     1     1     1     1     0     1     1     1     1     0
## X2103     0     0     0     0     1     0     0     0     1     0     1     0
## X2104     0     0     0     0     1     0     0     0     1     0     0     0
## X2106     0     1     0     0     1     0     0     0     1     0     2     0
## X2202     0     1     0     0     0     0     0     0     0     0     2     0
## X2206     0     0     1     0     0     0     0     1     0     0     1     1
## X2208     1     0     1     1     0     1     0     1     0     1     1     0
## X2209     0     0     0     0     0     0     0     0     0     0     1     0
## X2302     0     0     0     0     1     0     0     0     1     0     0     0
## X2309     0     1     0     0     0     0     0     0     0     0     1     0
## X2402     1     0     1     1     0     1     0     1     0     1     1     0
## X2403     1     0     1     1     0     1     0     1     0     1     1     0
## X2507     0     0     1     0     0     0     0     1     0     0     1     1
## X2508     1     1     1     1     0     1     0     1     0     1     2     0
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     1     0     3     1     0     2     0     2     1     1     9     1
## X2519     0     1     0     0     0     0     0     0     0     0     1     0
## X2520     0     0     0     0     0     0     0     0     0     0     1     0
## X2522     0     0     0     0     0     0     0     0     1     0     2     0
## X2525     0     0     0     0     0     1     0     0     0     0     1     0
## X2530     1     0     1     1     0     1     0     1     0     1     2     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     1     0     1     1     0     1     0     1     0     1     1     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     1     0     0     0     1     0     0     0
## X2713     0     0     0     0     0     0     0     0     0     0     0     0
## X2714     0     0     0     0     0     0     0     0     0     0     0     0
## X2716     1     0     1     1     0     2     0     1     0     2     5     0
## X2804     1     1     1     1     1     1     0     1     1     1     2     0
## X2811     1     1     1     1     1     1     0     1     1     1     2     0
## X2825     0     0     0     0     0     0     1     0     0     0     0     0
## X2826     0     1     0     0     0     0     0     0     0     0     1     0
## X2832     0     1     0     0     0     0     0     0     0     0     1     0
## X2833     0     1     0     0     0     0     0     0     0     0     1     0
## X2835     0     1     0     0     0     0     0     0     0     0     1     0
## X2836     1     0     0     0     0     0     0     0     0     0     1     0
## X2901     1     1     1     1     1     1     0     1     1     1     2     0
## X2903     0     0     0     0     0     0     0     0     0     1     1     0
## X2907     0     1     0     0     0     0     0     0     0     0     1     0
## X2915     0     1     0     0     0     0     0     0     0     0     1     0
## X2933     0     1     0     0     0     0     0     0     0     0     1     0
## X3105     0     0     0     0     0     0     0     0     0     0     1     0
## X3202     0     1     0     0     0     0     0     0     0     0     1     0
## X3204     1     1     1     1     0     1     0     1     0     1     2     0
## X3205     0     0     0     0     0     0     0     0     0     0     0     0
## X3206     0     1     0     0     0     0     0     0     0     0     1     0
## X3207     0     0     0     0     0     0     0     0     0     0     1     0
## X3208     0     0     0     0     0     0     1     0     0     0     1     0
## X3209     0     0     0     0     0     0     0     0     0     0     0     0
## X3210     0     1     0     0     0     0     0     0     0     0     1     0
## X3211     0     0     0     0     0     0     0     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     0     0     0     0     0     0     0     1     1     0
## X3215     0     0     0     0     0     0     0     0     0     0     0     0
## X3302     0     1     0     0     0     0     0     0     0     0     2     0
## X3303     1     0     1     1     0     1     0     1     0     1     1     0
## X3304     1     0     1     1     0     1     0     1     0     1     1     0
## X3305     1     0     1     1     0     1     0     1     0     1     2     0
## X3307     1     0     1     1     0     1     0     1     0     1     1     0
## X3402     1     1     1     1     0     1     0     1     0     1     4     0
## X3403     2     1     1     1     0     1     0     1     0     1     3     0
## X3506     1     0     1     1     1     1     0     1     1     1     2     0
## X3507     0     1     0     0     0     0     0     0     0     0     2     0
## X3605     0     0     0     0     1     0     0     0     1     0     0     0
## X3701     0     0     0     0     0     0     0     0     0     0     0     0
## X3707     0     0     0     0     0     0     0     0     0     0     0     0
## X3802     0     0     0     0     0     0     0     0     0     1     1     0
## X3808     1     0     1     1     0     1     0     1     0     1     1     0
## X3809     1     1     1     1     0     1     0     1     1     1     4     0
## X3810     0     0     0     0     0     0     1     0     0     0     0     0
## X3811     1     0     0     0     0     0     0     0     0     0     1     0
## X3814     0     1     0     0     0     0     0     0     0     0     1     0
## X3815     0     1     0     0     0     0     0     0     0     0     1     0
## X3816     1     0     1     1     0     1     0     1     0     1     1     0
## X3819     1     0     0     0     0     0     0     0     0     0     1     0
## X3820     1     0     0     0     0     0     0     0     0     0     1     0
## X3823     0     0     0     0     1     0     0     0     1     0     0     0
```

```
## X3902     0     1     0     0     0     0     0     0     0     0     1     0
## X3908     1     0     1     1     0     1     0     1     0     1     2     0
## X3909     0     1     0     0     0     0     0     0     0     0     1     0
## X3910     0     1     0     0     0     0     0     0     0     0     1     0
## X3911     0     1     0     0     0     0     0     0     0     0     1     0
## X3915     0     1     0     0     0     0     0     0     0     0     1     0
## X3916     0     0     0     0     0     0     0     0     0     0     0     0
## X3917     1     1     2     1     0     1     0     2     1     1     4     1
## X3919     0     1     0     0     0     0     0     0     0     0     1     0
## X3920     0     1     0     0     1     0     0     0     1     0     1     0
## X3921     1     1     0     0     0     0     0     0     0     0     2     0
## X3923     0     0     1     0     0     0     0     1     0     0     2     1
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     1     0     0     0     0     0     0     0     0     1     0
## X3926     1     1     2     1     0     1     0     1     0     2     5     0
## X4001     0     0     0     0     0     0     0     0     0     0     0     0
## X4005     0     0     0     0     1     0     0     0     1     0     0     0
## X4006     0     0     0     0     1     0     0     0     1     0     0     0
## X4008     1     0     1     1     0     1     0     1     0     1     1     0
## X4009     0     0     0     0     1     0     0     0     1     0     0     0
## X4010     0     0     1     0     0     0     0     1     1     0     3     1
## X4012     0     0     0     0     1     0     0     0     1     0     0     0
## X4013     0     0     0     0     1     0     0     0     1     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     1     0
## X4016     0     0     0     0     1     0     0     0     1     0     1     0
## X4202     0     1     0     0     0     0     0     0     0     0     2     0
## X4203     0     0     0     0     0     0     0     0     0     0     1     0
## X4409     0     1     1     0     0     0     0     1     0     0     3     1
## X4415     0     1     0     0     1     0     0     0     1     0     2     0
## X4416     0     1     1     0     0     0     0     1     1     0     4     1
## X4418     0     0     0     0     0     1     0     0     0     0     1     0
## X4420     0     0     1     0     0     0     0     1     0     0     1     1
## X4421     1     0     2     1     0     1     0     2     0     1     2     1
## X4602     0     0     0     0     0     0     0     0     0     0     1     0
## X4804     0     1     0     0     0     0     0     0     0     0     1     0
## X4808     0     1     0     0     0     0     0     0     0     1     2     0
## X4818     0     0     0     0     0     0     0     0     0     0     0     0
## X4819     0     0     0     0     0     0     0     0     0     0     1     0
## X4821     0     0     0     0     0     0     0     0     0     0     1     0
## X4822     0     1     0     0     0     0     0     0     0     0     1     0
## X4823     0     1     0     0     0     0     0     0     0     1     2     0
## X4901     1     0     1     1     0     1     0     1     0     1     1     0
## X4902     1     0     1     1     0     1     0     1     0     1     1     0
## X4907     1     0     1     1     0     1     0     1     0     1     1     0
## X4911     1     0     1     1     0     1     0     1     0     1     2     0
## X5111     0     1     0     0     0     0     0     0     0     0     1     0
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     0     0     0     0     0     0     0     0     0     0     0     0
## X5206     0     0     0     0     0     0     0     0     0     0     0     0
## X5208     0     0     0     0     0     0     0     0     0     0     0     0
## X5209     0     0     0     0     0     0     0     0     0     0     1     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     0     0     0     0     0     0     0     0     0     0     0
## X5402     0     0     0     0     0     0     0     0     0     1     1     0
## X5407     1     1     1     1     0     1     0     1     0     1     2     0
## X5408     0     0     0     0     0     0     0     1     0     0     0     1
## X5505     0     0     1     0     0     0     0     2     0     0     1     2
## X5508     1     0     1     1     0     1     0     1     0     2     3     0
## X5509     0     0     1     0     0     0     0     2     0     0     1     2
## X5511     0     0     1     0     0     0     0     1     0     0     1     1
## X5512     0     0     1     0     0     0     0     2     0     0     2     2
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     0     0     0     0     0     0     0     0     0     0     0
## X5515     0     0     0     0     0     0     0     0     0     0     1     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     1     0     1     1     0     1     0     1     0     1     1     0
## X5603     0     1     0     0     0     0     0     0     0     0     2     0
## X5609     0     0     1     0     0     0     0     1     0     0     1     1
## X5806     0     0     0     0     0     0     0     0     0     0     1     0
## X5807     0     0     0     0     0     0     0     0     0     0     1     0
## X5903     0     1     0     0     0     0     0     0     0     0     1     0
## X5907     0     0     0     0     0     0     0     0     0     0     1     0
## X5911     0     0     1     0     0     0     0     1     0     0     1     1
## X6002     1     1     1     1     0     1     0     1     0     1     3     0
## X6101     0     0     0     0     0     0     0     0     0     0     1     0
## X6103     0     0     0     0     0     0     0     0     0     0     0     0
## X6104     1     0     1     1     0     1     0     1     0     1     1     0
## X6105     0     0     0     0     0     0     0     0     0     0     1     0
## X6106     1     0     1     1     0     1     0     1     0     1     1     0
```

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## X6107     0     0     0     0     0     0     0     0     0     0     0     0
## X6109     0     0     0     0     0     0     0     0     0     0     0     0
## X6110     0     0     1     0     0     0     0     1     0     0     2     1
## X6111     0     0     0     0     0     0     0     0     0     0     0     0
## X6112     0     0     0     0     0     0     0     0     1     0     1     0
## X6114     0     0     1     0     0     0     0     1     0     0     1     1
## X6115     1     0     1     1     0     1     0     1     0     1     1     0
## X6117     0     0     0     0     0     0     0     0     0     0     1     0
## X6201     0     0     0     0     0     0     0     0     0     0     0     0
## X6202     0     0     0     0     0     0     0     0     0     0     0     0
## X6203     0     0     0     0     0     0     0     0     0     0     1     0
## X6204     0     0     0     0     0     0     0     0     0     0     0     0
## X6205     1     0     1     1     0     1     0     1     0     1     2     0
## X6206     1     0     2     1     0     1     0     2     0     1     2     1
## X6210     0     0     0     0     0     0     0     0     0     0     0     0
## X6211     1     0     0     0     0     0     0     0     0     0     3     0
## X6212     1     1     0     0     0     1     0     0     0     0     6     0
## X6217     0     0     0     0     0     0     0     0     0     0     0     0
## X6302     0     0     0     0     0     0     0     0     0     0     0     0
## X6303     0     0     0     0     0     0     0     0     0     0     0     0
## X6304     0     0     0     0     0     0     0     0     0     0     0     0
## X6305     0     1     0     0     0     0     0     0     0     0     1     0
## X6306     0     1     0     0     0     0     0     0     0     0     1     0
## X6307     0     0     0     0     0     0     0     0     0     0     1     0
## X6401     1     0     1     1     0     1     0     1     0     1     1     0
## X6403     0     0     1     1     0     1     0     1     0     1     2     0
## X6404     0     0     0     0     0     0     0     0     0     0     1     0
##       X6813 X6815 X6902 X6903 X6905 X6910 X6911 X6912 X6913 X7006 X7007 X7010
## X102      0     1     1     1     1     0     0     0     1     0     0     1
## X210      0     0     0     0     0     1     1     2     0     0     0     0
## X401      1     1     1     1     1     0     0     0     1     0     0     1
## X403      0     1     1     1     1     1     1     2     1     0     0     1
## X406      0     0     0     0     0     1     1     1     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     4     1     1     1     1     1     1     1     0     0     1
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     2     0     0     0     0     0     0     0     0     0     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0     1     0     0     0     0     0     0     0     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     1     1     1     1     0     0     0     1     0     0     1
## X813      0     1     0     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     1     0     0     0     0
## X1001     0     1     0     0     0     0     0     0     0     0     0     0
## X1003     1     1     1     1     1     0     0     0     1     0     0     1
## X1005     0     0     0     0     0     0     0     0     0     0     0     0
## X1102     1     0     0     0     0     0     0     0     0     0     0     0
## X1108     1     0     0     0     0     0     0     0     0     0     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     1     0     0     0     0     0     0     0     0     0     0     0
## X1213     0     2     0     0     0     0     0     0     0     0     0     0
## X1214     0     2     0     0     0     0     0     0     0     0     0     0
## X1302     0     2     0     0     0     0     0     0     0     0     0     0
## X1507     0     0     0     0     0     1     1     1     0     0     0     0
## X1514     0     0     0     0     0     1     1     1     0     0     0     0
## X1517     1     1     1     1     1     0     0     0     1     0     0     1
## X1601     0     0     0     0     0     1     1     2     0     0     0     0
## X1602     0     1     1     1     1     1     1     2     1     0     0     1
## X1704     0     2     1     1     1     0     0     1     1     0     0     1
## X1806     1     2     1     1     1     0     0     1     1     0     0     1
## X1901     1     2     1     1     1     1     1     1     1     0     0     1
## X1902     0     0     0     0     0     1     1     1     0     0     0     0
## X1905     1     2     1     1     1     0     0     0     1     1     1     1
## X2001     0     0     0     0     0     1     1     1     0     0     0     0
## X2002     0     0     0     0     0     1     1     1     0     0     0     0
## X2003     0     0     0     0     0     1     1     1     0     0     0     0
## X2004     0     0     0     0     0     1     1     1     0     0     0     0
## X2005     0     2     1     1     1     1     1     1     1     0     0     1
## X2006     0     1     1     1     1     0     0     0     1     0     0     1
## X2007     0     1     1     1     1     1     1     1     1     0     0     1
## X2008     1     2     1     1     1     0     0     1     1     0     0     1
## X2101     0     0     0     0     0     1     1     1     0     0     0     0
## X2102     0     1     1     1     1     0     0     1     1     0     0     1
## X2103     0     0     0     0     0     1     1     2     0     0     0     0
```

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## X2104     0     0     0     0     0     0     0     1     0     0     0     0
## X2106     1     0     0     0     0     1     1     2     0     0     0     0
## X2202     1     0     0     0     0     1     1     1     0     0     0     0
## X2206     0     1     0     0     0     0     0     0     0     0     0     0
## X2208     0     1     1     1     1     0     0     0     1     0     0     1
## X2209     0     0     0     0     0     1     1     1     0     0     0     0
## X2302     0     0     0     0     0     0     0     1     0     0     0     0
## X2309     1     0     0     0     0     0     0     0     0     0     0     0
## X2402     0     1     1     1     1     0     0     0     1     0     0     1
## X2403     0     1     1     1     1     0     0     0     1     0     0     1
## X2507     0     1     0     0     0     0     0     0     0     0     0     0
## X2508     1     1     1     1     1     0     0     0     1     0     0     1
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     0     3     1     1     1     0     0     0     1     0     0     1
## X2519     1     0     0     0     0     0     0     0     0     0     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     1     0     0     0     0     0     0     0     0     0     0
## X2530     0     1     1     1     1     0     0     0     1     0     0     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     1     1     1     1     0     0     0     1     0     0     1
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     1     0     0     0     0
## X2713     0     0     0     0     0     0     0     0     0     1     1     0
## X2714     0     0     0     0     0     0     0     0     0     1     1     0
## X2716     0     2     1     1     1     0     0     0     1     0     0     1
## X2804     1     1     1     1     1     0     0     1     1     0     0     1
## X2811     1     1     1     1     1     0     0     1     1     0     0     1
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     1     0     0     0     0     0     0     0     0     0     0     0
## X2832     1     0     0     0     0     0     0     0     0     0     0     0
## X2833     1     0     0     0     0     0     0     0     0     0     0     0
## X2835     1     0     0     0     0     0     0     0     0     0     0     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     1     1     1     1     1     0     0     1     1     0     0     1
## X2903     0     0     0     0     0     0     0     0     0     1     1     0
## X2907     1     0     0     0     0     0     0     0     0     0     0     0
## X2915     1     0     0     0     0     0     0     0     0     0     0     0
## X2933     1     0     0     0     0     0     0     0     0     0     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     1     0     0     0     0     0     0     0     0     0     0     0
## X3204     1     1     1     1     1     0     0     0     1     0     0     1
## X3205     0     0     0     0     0     0     0     0     0     1     1     0
## X3206     1     0     0     0     0     0     0     0     0     1     1     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     0     0     0     0     0     0     0     0     1     1     0
## X3209     0     0     0     0     0     0     0     0     0     1     1     0
## X3210     1     0     0     0     0     0     0     0     0     0     0     0
## X3211     0     0     0     0     0     0     0     0     0     1     1     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     0     0     0     0     0     0     0     1     1     0
## X3215     0     0     0     0     0     0     0     0     0     1     1     0
## X3302     1     0     0     0     0     1     1     1     0     0     0     0
## X3303     0     1     1     1     1     0     0     0     1     0     0     1
## X3304     0     1     1     1     1     0     0     0     1     0     0     1
## X3305     0     1     1     1     1     0     0     0     1     0     0     1
## X3307     0     1     1     1     1     0     0     0     1     0     0     1
## X3402     1     1     1     1     1     1     1     1     1     0     0     1
## X3403     1     1     1     1     1     0     0     0     1     0     0     1
## X3506     0     1     1     1     1     1     1     2     1     1     1     1
## X3507     1     0     0     0     0     1     1     1     0     0     0     0
## X3605     0     0     0     0     0     0     0     1     0     0     0     0
## X3701     0     0     0     0     0     0     0     0     0     1     1     0
## X3707     0     0     0     0     0     0     0     0     0     1     1     0
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     0     1     1     1     1     0     0     0     1     0     0     1
## X3809     1     1     1     1     1     0     0     0     1     0     0     1
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     1     0     0     0     0     0     0     0     0     1     1     0
## X3815     1     0     0     0     0     0     0     0     0     0     0     0
## X3816     0     1     1     1     1     0     0     0     1     0     0     1
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     1     0     0     0     0
## X3902     1     0     0     0     0     0     0     0     0     0     0     0
## X3908     0     1     1     1     1     1     1     1     1     0     0     1
## X3909     1     0     0     0     0     0     0     0     0     0     0     0
```

```
## X3910     1     0     0     0     0     0     0     0     0     0     0     0
## X3911     1     0     0     0     0     0     0     0     0     0     0     0
## X3915     1     0     0     0     0     0     0     0     0     0     0     0
## X3916     0     0     0     0     0     0     0     0     0     1     1     0
## X3917     1     2     1     1     1     0     0     0     1     0     0     1
## X3919     1     0     0     0     0     0     0     0     0     1     1     0
## X3920     1     0     0     0     0     0     0     1     0     1     1     0
## X3921     1     0     0     0     0     0     0     0     0     1     1     0
## X3923     0     1     0     0     0     1     1     1     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     1     0     0     0     0     0     0     0     0     0     0     0
## X3926     1     1     1     1     1     0     0     0     1     0     0     1
## X4001     0     0     0     0     0     0     0     0     0     1     1     0
## X4005     0     0     0     0     0     0     0     1     0     0     0     0
## X4006     0     0     0     0     0     0     0     1     0     0     0     0
## X4008     0     1     1     1     1     0     0     0     1     0     0     1
## X4009     0     0     0     0     0     0     0     1     0     0     0     0
## X4010     0     1     0     0     0     1     1     1     0     0     0     0
## X4012     0     0     0     0     0     0     0     1     0     0     0     0
## X4013     0     0     0     0     0     0     0     1     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     1     0     0     0     0
## X4202     1     0     0     0     0     0     0     0     0     1     1     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     1     1     0     0     0     1     1     1     0     0     0     0
## X4415     1     0     0     0     0     1     1     2     0     0     0     0
## X4416     1     1     0     0     0     0     0     0     0     0     0     0
## X4418     0     1     0     0     0     0     0     0     0     0     0     0
## X4420     0     1     0     0     0     0     0     0     0     0     0     0
## X4421     0     2     1     1     1     0     0     0     1     0     0     1
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     1     0     0     0     0     0     0     0     0     0     0     0
## X4808     1     0     0     0     0     0     0     0     0     1     1     0
## X4818     0     0     0     0     0     0     0     0     0     1     1     0
## X4819     0     0     0     0     0     1     1     1     0     0     0     0
## X4821     0     0     0     0     0     1     1     1     0     1     1     0
## X4822     1     0     0     0     0     0     0     0     0     0     0     0
## X4823     1     0     0     0     0     0     0     0     0     0     0     0
## X4901     0     1     1     1     1     0     0     0     1     0     0     1
## X4902     0     1     1     1     1     0     0     0     1     0     0     1
## X4907     0     1     1     1     1     0     0     0     1     0     0     1
## X4911     0     1     1     1     1     1     1     1     1     0     0     1
## X5111     1     0     0     0     0     0     0     0     0     0     0     0
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     0     0     0     0     0     0     0     0     0     1     1     0
## X5206     0     0     0     0     0     0     0     0     0     1     1     0
## X5208     0     0     0     0     0     0     0     0     0     1     1     0
## X5209     0     0     0     0     0     1     1     1     0     1     1     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     0     0     0     0     0     0     0     0     1     1     0
## X5402     0     0     0     0     0     0     0     0     0     1     1     0
## X5407     1     1     1     1     1     0     0     0     1     1     1     1
## X5408     0     1     0     0     0     0     0     0     0     0     0     0
## X5505     0     2     0     0     0     0     0     0     0     0     0     0
## X5508     0     1     1     1     1     1     1     1     1     0     0     1
## X5509     0     2     0     0     0     0     0     0     0     1     1     0
## X5511     0     1     0     0     0     0     0     0     0     0     0     0
## X5512     0     2     0     0     0     1     1     1     0     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     0     0     0     0     0     0     0     0     1     1     0
## X5515     0     0     0     0     0     1     1     1     0     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     1     1     1     1     0     0     0     1     0     0     1
## X5603     1     0     0     0     0     1     1     1     0     0     0     0
## X5609     0     1     0     0     0     0     0     0     0     0     0     0
## X5806     0     0     0     0     0     1     1     1     0     1     1     0
## X5807     0     0     0     0     0     1     1     1     0     1     1     0
## X5903     1     0     0     0     0     0     0     0     0     0     0     0
## X5907     0     0     0     0     0     1     1     1     0     0     0     0
## X5911     0     1     0     0     0     0     0     0     0     1     1     0
## X6002     1     1     1     1     1     1     1     1     1     1     1     1
## X6101     0     0     0     0     0     1     1     1     0     0     0     0
## X6103     0     0     0     0     0     0     0     0     0     1     1     0
## X6104     0     1     1     1     1     0     0     0     1     1     1     1
## X6105     0     0     0     0     0     1     1     1     0     0     0     0
## X6106     0     1     1     1     1     0     0     0     1     1     1     1
## X6107     0     0     0     0     0     0     0     0     0     1     1     0
## X6109     0     0     0     0     0     0     0     0     0     1     1     0
## X6110     0     1     0     0     0     1     1     1     0     0     0     0
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```
## X6111     0     0     0     0     0     0     0     0     0     1     1     0
## X6112     0     0     0     0     0     0     0     0     0     1     1     0
## X6114     0     1     0     0     0     0     0     0     0     1     1     0
## X6115     0     1     1     1     1     0     0     0     1     1     1     1
## X6117     0     0     0     0     0     1     1     1     0     0     0     0
## X6201     0     0     0     0     0     0     0     0     0     1     1     0
## X6202     0     0     0     0     0     0     0     0     0     1     1     0
## X6203     0     0     0     0     0     1     1     1     0     1     1     0
## X6204     0     0     0     0     0     0     0     0     0     1     1     0
## X6205     0     1     1     1     1     1     1     1     1     0     0     1
## X6206     0     2     1     1     1     0     0     0     1     1     1     1
## X6210     0     0     0     0     0     0     0     0     0     1     1     0
## X6211     0     0     0     0     0     1     1     1     0     1     1     0
## X6212     1     1     0     0     0     1     1     1     0     1     1     0
## X6217     0     0     0     0     0     0     0     0     0     1     1     0
## X6302     0     0     0     0     0     0     0     0     0     1     1     0
## X6303     0     0     0     0     0     0     0     0     0     1     1     0
## X6304     0     0     0     0     0     0     0     0     0     1     1     0
## X6305     1     0     0     0     0     0     0     0     0     1     1     0
## X6306     1     0     0     0     0     0     0     0     0     0     0     0
## X6307     0     0     0     0     0     0     0     0     0     1     1     0
## X6401     0     1     1     1     1     0     0     0     1     0     0     1
## X6403     0     1     1     1     1     0     0     0     1     0     0     1
## X6404     1     0     0     0     0     0     0     0     0     0     0     0
##       X7013 X7018 X7019 X7103 X7106 X7112 X7113 X7117 X7118 X7202 X7204 X7205
## X102      0     0     0     0     1     1     1     0     1     0     0     0
## X210      1     0     0     0     0     0     0     0     0     0     0     0
## X401      0     0     1     0     1     1     1     0     1     0     0     0
## X403      1     0     0     0     1     1     1     0     1     0     0     0
## X406      1     0     0     0     0     0     0     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     1     1
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      1     1     2     1     1     1     1     1     1     0     1     1
## X703      0     0     0     1     0     0     0     0     0     0     0     0
## X709      0     0     1     0     0     0     0     0     0     0     0     0
## X712      0     0     1     0     0     0     0     0     0     1     0     0
## X713      1     1     0     0     0     0     0     1     0     0     1     1
## X804      0     0     0     1     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     0     1     1     1     0     1     0     0     0
## X813      0     0     1     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     0     0     0
## X1001     1     1     0     0     0     0     0     1     0     0     0     0
## X1003     0     1     1     0     1     1     1     2     1     0     1     1
## X1005     0     1     0     0     0     0     0     1     0     0     0     0
## X1102     0     0     1     0     0     0     0     0     0     0     0     0
## X1108     0     0     1     0     0     0     0     0     0     0     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     1     0     0     0     0     0     0     0     0     0
## X1213     0     0     1     0     0     0     0     0     0     0     0     0
## X1214     0     0     3     0     0     0     0     0     0     0     0     0
## X1302     0     0     3     0     0     0     0     0     0     0     1     1
## X1507     1     0     0     0     0     0     0     0     0     0     0     0
## X1514     1     0     0     0     0     0     0     0     0     0     0     0
## X1517     0     0     1     0     1     1     1     0     1     0     0     0
## X1601     1     0     0     0     0     0     0     0     0     0     0     0
## X1602     1     0     0     0     1     1     1     0     1     0     0     0
## X1704     0     1     1     0     1     1     1     1     1     0     0     0
## X1806     0     1     2     0     1     1     1     1     1     0     0     0
## X1901     1     1     2     0     1     1     1     1     1     0     0     0
## X1902     1     0     0     0     0     0     0     0     0     0     0     0
## X1905     0     2     2     0     1     1     1     2     1     0     0     0
## X2001     1     0     0     0     0     0     0     0     0     0     0     0
## X2002     1     0     0     0     0     0     0     0     0     0     0     0
## X2003     1     0     0     0     0     0     0     0     0     0     0     0
## X2004     1     0     0     0     0     0     0     0     0     0     0     0
## X2005     1     1     1     0     1     1     1     1     1     0     0     0
## X2006     0     0     0     0     1     1     1     0     1     0     0     0
## X2007     1     0     0     0     1     1     1     0     1     0     0     0
## X2008     0     1     2     0     1     1     1     1     1     0     0     0
## X2101     1     0     0     0     0     0     0     0     0     0     0     0
## X2102     0     0     0     0     1     1     1     0     1     0     0     0
## X2103     1     0     0     0     0     0     0     0     0     0     0     0
## X2104     0     0     0     0     0     0     0     0     0     0     0     0
## X2106     1     0     1     0     0     0     0     0     0     0     0     0
## X2202     1     0     1     0     0     0     0     0     0     0     0     0
```

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## X2206     0     0     1     0     0     0     0     0     0     0     0     0
## X2208     0     0     1     0     1     1     1     0     1     0     0     0
## X2209     1     0     0     0     0     0     0     0     0     0     0     0
## X2302     0     0     0     0     0     0     0     0     0     0     0     0
## X2309     0     0     1     0     0     0     0     0     0     0     0     0
## X2402     0     0     0     0     1     1     1     0     1     0     0     0
## X2403     0     0     0     0     1     1     1     0     1     0     0     0
## X2507     0     0     1     0     0     0     0     0     0     0     0     0
## X2508     0     0     1     0     1     1     1     0     1     0     0     0
## X2512     0     0     1     0     0     0     0     0     0     0     0     0
## X2517     0     0     1     1     1     1     1     1     1     0     1     1
## X2519     0     0     1     0     0     0     0     0     0     0     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     0     0     0     1     1     1     0     1     0     0     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     0     1     1     1     0     1     0     0     0
## X2607     0     0     0     1     0     0     0     0     0     0     0     0
## X2608     0     0     0     1     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     0     0
## X2713     0     1     0     0     0     0     0     0     0     0     0     0
## X2714     0     1     0     0     0     0     0     0     0     0     0     0
## X2716     0     0     1     0     1     1     1     0     1     0     0     0
## X2804     0     0     1     0     1     1     1     0     1     0     0     0
## X2811     0     0     1     0     1     1     1     0     1     0     0     0
## X2825     0     0     1     0     0     0     0     0     0     1     0     0
## X2826     0     0     1     0     0     0     0     0     0     0     0     0
## X2832     0     0     1     0     0     0     0     0     0     0     0     0
## X2833     0     0     1     0     0     0     0     0     0     0     0     0
## X2835     0     0     1     0     0     0     0     0     0     0     0     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     0     1     0     1     1     1     0     1     0     0     0
## X2903     0     1     0     0     0     0     0     0     0     0     0     0
## X2907     0     0     1     0     0     0     0     0     0     0     0     0
## X2915     0     0     1     0     0     0     0     0     0     0     0     0
## X2933     0     0     1     0     0     0     0     0     0     0     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     1     0     0     0     0     0     0     0     0     0
## X3204     0     0     1     0     1     1     1     1     1     0     0     0
## X3205     0     1     0     0     0     0     0     0     0     0     0     0
## X3206     0     1     1     0     0     0     0     0     0     0     0     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     1     1     0     0     0     0     0     0     1     0     0
## X3209     0     1     0     0     0     0     0     0     0     0     0     0
## X3210     0     0     1     0     0     0     0     0     0     0     0     0
## X3211     0     1     0     0     0     0     0     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     1     0     0     0     0
## X3214     0     1     0     0     0     0     0     0     0     0     0     0
## X3215     0     1     0     0     0     0     0     0     0     0     0     0
## X3302     1     0     1     0     0     0     0     0     0     0     0     0
## X3303     0     0     0     0     1     1     1     0     1     0     0     0
## X3304     0     0     0     0     1     1     1     0     1     0     0     0
## X3305     0     0     0     0     1     1     1     0     1     0     0     0
## X3307     0     0     0     0     1     1     1     0     1     0     0     0
## X3402     1     0     1     0     1     1     1     0     1     0     0     0
## X3403     0     0     1     0     1     1     1     0     1     0     0     0
## X3506     1     1     0     0     1     1     1     0     1     0     0     0
## X3507     1     0     1     0     0     0     0     0     0     0     0     0
## X3605     0     0     0     0     0     0     0     0     0     0     0     0
## X3701     0     1     0     0     0     0     0     0     0     0     0     0
## X3707     0     1     0     0     0     0     0     0     0     0     0     0
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     0     0     0     0     1     1     1     0     1     0     0     0
## X3809     0     0     1     0     1     1     1     0     1     0     0     0
## X3810     0     0     1     0     0     0     0     0     0     1     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     1     1     0     0     0     0     0     0     0     0     0
## X3815     0     0     1     0     0     0     0     0     0     0     0     0
## X3816     0     0     0     0     1     1     1     0     1     0     0     0
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     0     0
## X3902     0     0     1     0     0     0     0     0     0     0     0     0
## X3908     1     0     0     0     1     1     1     0     1     0     0     0
## X3909     0     0     1     0     0     0     0     0     0     0     0     0
## X3910     0     0     1     0     0     0     0     0     0     0     0     0
## X3911     0     0     1     0     0     0     0     0     0     0     0     0
## X3915     0     0     1     0     0     0     0     0     0     0     0     0
```

```
## X3916     0     1     0     0     0     0     0     0     0     0     0     0
## X3917     0     0     2     0     1     1     1     0     1     0     0     0
## X3919     0     1     1     0     0     0     0     0     0     0     0     0
## X3920     0     1     1     0     0     0     0     0     0     0     0     0
## X3921     0     1     1     0     0     0     0     0     0     0     0     0
## X3923     1     1     1     0     0     0     0     1     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     1     0     0     0     0     0     0     0     0     0
## X3926     0     1     1     0     1     1     1     1     1     0     1     1
## X4001     0     1     0     0     0     0     0     0     0     0     0     0
## X4005     0     0     0     0     0     0     0     0     0     0     0     0
## X4006     0     0     0     0     0     0     0     0     0     0     0     0
## X4008     0     0     0     0     1     1     1     0     1     0     0     0
## X4009     0     0     0     0     0     0     0     0     0     0     0     0
## X4010     1     0     1     0     0     0     0     0     0     0     0     0
## X4012     0     0     0     0     0     0     0     0     0     0     0     0
## X4013     0     0     0     0     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     0     0     0     0     0
## X4202     0     1     1     0     0     0     0     0     0     0     0     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     1     0     2     0     0     0     0     0     0     0     0     0
## X4415     1     0     1     0     0     0     0     0     0     0     0     0
## X4416     0     0     3     0     0     0     0     0     0     0     0     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     1     0     0     0     0     0     0     0     0     0
## X4421     0     0     1     0     1     1     1     0     1     0     0     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     1     0     0     0     0     0     0     0     0     0
## X4808     0     1     1     0     0     0     0     0     0     0     0     0
## X4818     0     1     0     0     0     0     0     0     0     0     0     0
## X4819     1     0     0     0     0     0     0     0     0     0     0     0
## X4821     1     1     0     0     0     0     0     0     0     0     0     0
## X4822     0     0     1     0     0     0     0     0     0     0     0     0
## X4823     0     0     1     0     0     0     0     0     0     0     0     0
## X4901     0     0     0     0     1     1     1     0     1     0     0     0
## X4902     0     0     0     0     1     1     1     0     1     0     0     0
## X4907     0     0     0     0     1     1     1     0     1     0     0     0
## X4911     1     0     0     0     1     1     1     0     1     0     0     0
## X5111     0     0     2     0     0     0     0     0     0     0     0     0
## X5112     0     0     1     0     0     0     0     0     0     0     0     0
## X5205     0     1     0     0     0     0     0     0     0     0     0     0
## X5206     0     1     0     0     0     0     0     0     0     0     0     0
## X5208     0     1     0     0     0     0     0     0     0     0     0     0
## X5209     1     1     0     0     0     0     0     0     0     0     0     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     1     0     0     0     0     0     0     0     0     0     0
## X5402     0     1     0     0     0     0     0     0     0     0     0     0
## X5407     0     1     1     0     1     1     1     0     1     0     0     0
## X5408     0     0     1     0     0     0     0     0     0     0     0     0
## X5505     0     0     2     0     0     0     0     0     0     0     0     0
## X5508     1     0     0     0     1     1     1     0     1     0     0     0
## X5509     0     1     2     0     0     0     0     0     0     0     0     0
## X5511     0     0     1     0     0     0     0     0     0     0     0     0
## X5512     1     0     2     0     0     0     0     0     0     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     1     0     0     0     0     0     0     0     0     0     0
## X5515     1     0     1     0     0     0     0     0     0     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     0     0     0     1     1     1     0     1     0     0     0
## X5603     1     0     1     0     0     0     0     0     0     0     0     0
## X5609     0     0     1     0     0     0     0     0     0     0     0     0
## X5806     1     1     0     0     0     0     0     0     0     0     0     0
## X5807     1     1     0     0     0     0     0     0     0     0     0     0
## X5903     0     0     1     0     0     0     0     0     0     0     0     0
## X5907     1     0     0     0     0     0     0     0     0     0     0     0
## X5911     0     1     2     0     0     0     0     0     0     0     0     0
## X6002     1     1     1     0     1     1     1     0     1     0     0     0
## X6101     1     0     0     0     0     0     0     0     0     0     0     0
## X6103     0     1     0     0     0     0     0     0     0     0     0     0
## X6104     0     1     0     0     1     1     1     0     1     0     0     0
## X6105     1     0     0     0     0     0     0     0     0     0     0     0
## X6106     0     1     0     0     1     1     1     0     1     0     0     0
## X6107     0     1     0     0     0     0     0     0     0     0     0     0
## X6109     0     1     0     0     0     0     0     0     0     0     0     0
## X6110     1     0     1     0     0     0     0     0     0     0     0     0
## X6111     0     1     0     0     0     0     0     0     0     0     0     0
## X6112     0     1     0     0     0     0     0     0     0     0     0     0
## X6114     0     1     2     0     0     0     0     0     0     0     0     0
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## X6115     0     1     0     0     1     1     1     0     1     0     0     0
## X6117     1     0     0     0     0     0     0     0     0     0     0     0
## X6201     0     1     0     0     0     0     0     0     0     0     0     0
## X6202     0     1     0     0     0     0     0     0     0     0     0     0
## X6203     1     1     0     0     0     0     0     0     0     0     0     0
## X6204     0     1     0     0     0     0     0     0     0     0     0     0
## X6205     1     0     0     0     1     1     1     0     1     0     0     0
## X6206     0     1     1     0     1     1     1     0     1     0     0     0
## X6210     0     1     0     0     0     0     0     0     0     0     0     0
## X6211     1     1     0     0     0     0     0     0     0     0     0     0
## X6212     1     1     1     0     0     0     0     0     0     0     0     0
## X6217     0     1     0     0     0     0     0     0     0     0     0     0
## X6302     0     1     0     0     0     0     0     0     0     0     0     0
## X6303     0     1     0     0     0     0     0     0     0     0     0     0
## X6304     0     1     0     0     0     0     0     0     0     0     0     0
## X6305     0     1     1     0     0     0     0     0     0     0     0     0
## X6306     0     0     1     0     0     0     0     0     0     0     0     0
## X6307     0     1     0     0     0     0     0     0     0     0     0     0
## X6401     0     0     0     0     1     1     1     0     1     0     0     0
## X6403     0     0     0     0     1     1     1     0     1     0     0     0
## X6404     0     0     1     0     0     0     0     0     0     0     0     0
##       X7208 X7210 X7211 X7216 X7219 X7225 X7304 X7306 X7307 X7308 X7309 X7310
## X102      0     0     0     0     0     0     0     0     0     0     1     0
## X210      0     1     0     0     0     0     0     0     0     1     0     0
## X401      0     0     0     0     0     0     0     0     1     0     1     0
## X403      0     1     0     0     0     0     0     0     0     1     2     0
## X406      0     1     0     0     0     0     0     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     1     0     0     0     0     0     0     0     1     1     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     1     0     0     0     0     0     0     0     2     3     1
## X712      1     0     0     1     1     1     0     0     0     0     0     0
## X713      0     1     0     0     0     0     0     0     0     2     4     1
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     1     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     0     0     0     0     0     0     0     1     0
## X813      0     0     0     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     1     0
## X904      0     0     0     0     0     0     0     0     0     1     0     0
## X1001     0     1     0     0     0     0     0     0     0     2     2     1
## X1003     0     0     0     0     0     0     0     0     1     0     1     0
## X1005     0     0     0     0     0     0     0     0     0     0     1     0
## X1102     0     0     0     0     0     0     0     0     1     0     0     0
## X1108     0     0     0     0     0     0     0     0     1     0     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     1     0
## X1208     0     0     0     0     0     0     0     0     1     0     0     0
## X1213     0     1     0     0     0     0     0     0     0     2     2     1
## X1214     0     1     0     0     0     0     0     0     0     1     4     1
## X1302     0     1     0     0     0     0     0     0     0     1     4     1
## X1507     0     1     0     0     0     0     0     0     0     0     0     0
## X1514     0     1     0     0     0     0     0     0     0     0     0     0
## X1517     0     0     0     0     0     0     0     0     1     0     1     0
## X1601     0     1     0     0     0     0     0     0     0     1     0     0
## X1602     0     1     0     0     0     0     0     0     0     1     1     0
## X1704     0     0     0     0     0     0     0     0     0     1     2     0
## X1806     0     0     0     0     0     0     0     0     1     1     2     0
## X1901     0     1     0     0     0     0     0     0     1     0     2     0
## X1902     0     1     0     0     0     0     0     0     0     0     0     0
## X1905     0     0     1     0     0     0     1     1     1     0     2     0
## X2001     0     1     0     0     0     0     0     0     0     0     0     0
## X2002     0     1     0     0     0     0     0     0     0     0     0     0
## X2003     0     1     0     0     0     0     0     0     0     0     0     0
## X2004     0     1     0     0     0     0     0     0     0     0     0     0
## X2005     0     1     0     0     0     0     0     0     0     0     2     0
## X2006     0     0     0     0     0     0     0     0     0     0     1     0
## X2007     0     1     0     0     0     0     0     0     0     0     1     0
## X2008     0     0     0     0     0     0     0     0     1     1     2     0
## X2101     0     1     0     0     0     0     0     0     0     0     0     0
## X2102     0     0     0     0     0     0     0     0     0     1     1     0
## X2103     0     1     0     0     0     0     0     0     0     1     0     0
## X2104     0     0     0     0     0     0     0     0     0     1     0     0
## X2106     0     1     0     0     0     0     0     0     1     1     0     0
## X2202     0     1     0     0     0     0     0     0     1     0     0     0
## X2206     0     0     0     0     0     0     0     0     0     0     0     0
## X2208     0     0     0     0     0     0     0     0     0     0     2     0
## X2209     0     1     0     0     0     0     0     0     0     0     0     0
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## X2302     0     0     0     0     0     0     0     0     0     1     0     0
## X2309     0     0     0     0     0     0     0     0     1     0     0     0
## X2402     0     0     0     0     0     0     0     0     0     0     1     0
## X2403     0     0     0     0     0     0     0     0     0     0     1     0
## X2507     0     0     0     0     0     0     0     0     0     0     0     0
## X2508     0     0     0     0     0     0     0     0     1     0     1     0
## X2512     0     0     0     0     0     0     0     0     0     0     1     0
## X2517     0     0     0     0     0     0     0     0     0     1     2     0
## X2519     0     0     0     0     0     0     0     0     1     0     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     2     0
## X2525     0     0     0     0     0     0     0     0     0     1     0     0
## X2530     0     0     0     0     0     0     0     0     0     0     1     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     0     0     0     0     0     0     0     1     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     1     0     0
## X2713     0     0     1     0     0     0     1     1     0     0     0     0
## X2714     0     0     1     0     0     0     1     1     0     0     0     0
## X2716     0     1     0     0     0     0     0     0     0     2     4     1
## X2804     0     0     0     0     0     0     0     0     1     1     1     0
## X2811     0     0     0     0     0     0     0     0     1     1     1     0
## X2825     1     0     0     1     1     1     0     0     0     0     0     0
## X2826     0     0     0     0     0     0     0     0     1     0     0     0
## X2832     0     0     0     0     0     0     0     0     1     0     0     0
## X2833     0     0     0     0     0     0     0     0     1     0     0     0
## X2835     0     0     0     0     0     0     0     0     1     0     0     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     0     0     0     0     0     0     0     1     1     1     0
## X2903     0     1     1     0     0     0     1     1     0     1     1     1
## X2907     0     0     0     0     0     0     0     0     1     0     0     0
## X2915     0     0     0     0     0     0     0     0     1     0     0     0
## X2933     0     0     0     0     0     0     0     0     1     0     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     0     0     0     0     0     0     1     0     0     0
## X3204     0     0     0     0     0     0     0     0     1     0     1     0
## X3205     0     0     1     0     0     0     1     1     0     0     0     0
## X3206     0     0     1     0     0     0     1     1     1     0     0     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     1     0     1     1     1     1     1     1     0     0     0     0
## X3209     0     0     1     0     0     0     1     1     0     0     0     0
## X3210     0     0     0     0     0     0     0     0     1     0     0     0
## X3211     0     0     1     0     0     0     1     1     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     1     1     0     0     0     1     1     0     1     1     1
## X3215     0     0     1     0     0     0     1     1     0     0     0     0
## X3302     0     1     0     0     0     0     0     0     1     0     0     0
## X3303     0     0     0     0     0     0     0     0     0     0     1     0
## X3304     0     0     0     0     0     0     0     0     0     0     1     0
## X3305     0     0     0     0     0     0     0     0     0     0     2     0
## X3307     0     0     0     0     0     0     0     0     0     0     1     0
## X3402     0     1     0     0     0     0     0     0     1     0     2     0
## X3403     0     0     0     0     0     0     0     0     1     0     1     0
## X3506     0     1     1     0     0     0     1     1     0     1     1     0
## X3507     0     1     0     0     0     0     0     0     1     0     0     0
## X3605     0     0     0     0     0     0     0     0     0     1     0     0
## X3701     0     0     1     0     0     0     1     1     0     0     0     0
## X3707     0     0     1     0     0     0     1     1     0     0     0     0
## X3802     0     1     0     0     0     0     0     0     0     1     1     1
## X3808     0     0     0     0     0     0     0     0     0     0     1     0
## X3809     0     0     0     0     0     0     0     0     1     0     3     0
## X3810     1     0     0     1     1     1     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     0     1     0     0     0     1     1     1     0     0     0
## X3815     0     0     0     0     0     0     0     0     1     0     0     0
## X3816     0     0     0     0     0     0     0     0     0     0     1     0
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     1     0     0
## X3902     0     0     0     0     0     0     0     0     1     0     0     0
## X3908     0     1     0     0     0     0     0     0     0     0     1     0
## X3909     0     0     0     0     0     0     0     0     1     0     0     0
## X3910     0     0     0     0     0     0     0     0     1     0     0     0
## X3911     0     0     0     0     0     0     0     0     1     0     0     0
## X3915     0     0     0     0     0     0     0     0     1     0     0     0
## X3916     0     0     1     0     0     0     1     1     0     0     0     0
## X3917     0     0     0     0     0     0     0     0     1     0     2     0
## X3919     0     0     1     0     0     0     1     1     1     0     0     0
```

```
## X3920     0     0     1     0     0     0     1     1     1     1     0     0
## X3921     0     0     1     0     0     0     1     1     1     0     0     0
## X3923     0     1     0     0     0     0     0     0     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     0     0     0     0     0     0     1     0     0     0
## X3926     0     1     0     0     0     0     0     0     1     1     2     1
## X4001     0     0     1     0     0     0     1     1     0     0     0     0
## X4005     0     0     0     0     0     0     0     0     0     1     0     0
## X4006     0     0     0     0     0     0     0     0     0     1     0     0
## X4008     0     0     0     0     0     0     0     0     0     0     1     0
## X4009     0     0     0     0     0     0     0     0     0     1     0     0
## X4010     0     1     0     0     0     0     0     0     0     0     1     0
## X4012     0     0     0     0     0     0     0     0     0     1     0     0
## X4013     0     0     0     0     0     0     0     0     0     1     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     0     0     1     0     0
## X4202     0     0     1     0     0     0     1     1     1     0     0     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     1     0     0     0     0     0     0     1     0     0     0
## X4415     0     1     0     0     0     0     0     0     1     1     0     0
## X4416     0     0     0     0     0     0     0     0     1     0     2     0
## X4418     0     0     0     0     0     0     0     0     0     1     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     0
## X4421     0     0     0     0     0     0     0     0     0     0     1     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     0     0     0     0     0     1     0     0     0
## X4808     0     1     1     0     0     0     1     1     1     1     1     1
## X4818     0     0     1     0     0     0     1     1     0     0     0     0
## X4819     0     1     0     0     0     0     0     0     0     0     0     0
## X4821     0     1     1     0     0     0     1     1     0     0     0     0
## X4822     0     0     0     0     0     0     0     0     1     0     0     0
## X4823     0     1     0     0     0     0     0     0     1     1     1     1
## X4901     0     0     0     0     0     0     0     0     0     0     1     0
## X4902     0     0     0     0     0     0     0     0     0     0     1     0
## X4907     0     0     0     0     0     0     0     0     0     0     1     0
## X4911     0     1     0     0     0     0     0     0     0     0     1     0
## X5111     0     0     0     0     0     0     0     0     1     0     1     0
## X5112     0     0     0     0     0     0     0     0     0     0     1     0
## X5205     0     0     1     0     0     0     1     1     0     0     0     0
## X5206     0     0     1     0     0     0     1     1     0     0     0     0
## X5208     0     0     1     0     0     0     1     1     0     0     0     0
## X5209     0     1     1     0     0     0     1     1     0     0     0     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     0     1     0     0     0     1     1     0     0     0     0
## X5402     0     1     1     0     0     0     1     1     0     1     1     1
## X5407     0     0     1     0     0     0     1     1     1     0     1     0
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     0
## X5508     0     2     0     0     0     0     0     0     0     1     2     1
## X5509     0     0     1     0     0     0     1     1     0     0     0     0
## X5511     0     0     0     0     0     0     0     0     0     0     0     0
## X5512     0     1     0     0     0     0     0     0     0     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     0     1     0     0     0     1     1     0     0     0     0
## X5515     0     1     0     0     0     0     0     0     0     0     1     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     0     0     0     0     0     0     0     0     0     1     0
## X5603     0     1     0     0     0     0     0     0     1     0     0     0
## X5609     0     0     0     0     0     0     0     0     0     0     0     0
## X5806     0     1     1     0     0     0     1     1     0     0     0     0
## X5807     0     1     1     0     0     0     1     1     0     0     0     0
## X5903     0     0     0     0     0     0     0     0     1     0     0     0
## X5907     0     1     0     0     0     0     0     0     0     0     0     0
## X5911     0     0     1     0     0     0     1     1     0     0     1     0
## X6002     0     1     1     0     0     0     1     1     1     0     1     0
## X6101     0     1     0     0     0     0     0     0     0     0     0     0
## X6103     0     0     1     0     0     0     1     1     0     0     0     0
## X6104     0     0     1     0     0     0     1     1     0     0     1     0
## X6105     0     1     0     0     0     0     0     0     0     0     0     0
## X6106     0     0     1     0     0     0     1     1     0     0     1     0
## X6107     0     0     1     0     0     0     1     1     0     0     0     0
## X6109     0     0     1     0     0     0     1     1     0     0     0     0
## X6110     0     1     0     0     0     0     0     0     0     0     0     0
## X6111     0     0     1     0     0     0     1     1     0     0     0     0
## X6112     0     0     1     0     0     0     1     1     0     0     1     0
## X6114     0     0     1     0     0     0     1     1     0     0     1     0
## X6115     0     0     1     0     0     0     1     1     0     0     1     0
## X6117     0     1     0     0     0     0     0     0     0     0     0     0
## X6201     0     0     1     0     0     0     1     1     0     0     0     0
```

```
## X6202     0     0     1     0     0     0     1     1     0     0     0     0
## X6203     0     1     1     0     0     0     1     1     0     0     0     0
## X6204     0     0     1     0     0     0     1     1     0     0     0     0
## X6205     0     1     0     0     0     0     0     0     0     0     1     0
## X6206     0     0     1     0     0     0     1     1     0     0     1     0
## X6210     0     0     1     0     0     0     1     1     0     0     0     0
## X6211     0     1     1     0     0     0     1     1     0     0     0     0
## X6212     0     1     1     0     0     0     1     1     1     1     0     0
## X6217     0     0     1     0     0     0     1     1     0     0     0     0
## X6302     0     0     1     0     0     0     1     1     0     0     0     0
## X6303     0     0     1     0     0     0     1     1     0     0     0     0
## X6304     0     0     1     0     0     0     1     1     0     0     0     0
## X6305     0     0     1     0     0     0     1     1     1     0     0     0
## X6306     0     0     0     0     0     0     0     0     1     0     0     0
## X6307     0     0     1     0     0     0     1     1     0     0     0     0
## X6401     0     0     0     0     0     0     0     0     0     0     1     0
## X6403     0     0     0     0     0     0     0     0     0     0     1     0
## X6404     0     0     0     0     0     0     0     0     1     0     0     0
##       X7314 X7315 X7317 X7318 X7319 X7320 X7322 X7326 X7418 X7419 X7605 X7606
## X102      0     0     1     1     1     0     0     1     1     0     1     0
## X210      0     0     0     0     0     0     0     0     0     0     1     0
## X401      0     0     1     1     1     0     1     2     1     1     2     1
## X403      0     0     1     1     1     0     0     1     1     0     2     0
## X406      0     0     0     0     0     0     0     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     1     1     2     0     0     1     1     1     1     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     1     0     2     1     1     0     0     0     0     0     0
## X712      1     1     0     1     0     0     0     0     0     0     0     0
## X713      0     1     0     2     0     1     0     0     0     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     1     1     1     0     0     1     1     0     1     0
## X813      0     0     0     0     1     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     0     1     0
## X1001     0     0     0     1     0     1     0     0     0     0     0     0
## X1003     0     0     1     1     1     0     1     2     1     1     2     1
## X1005     0     0     0     0     0     1     0     0     0     0     0     0
## X1102     0     0     0     0     0     0     1     1     0     1     1     1
## X1108     0     0     0     0     0     0     1     1     0     1     1     1
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     0     0     0     0     1     1     0     1     1     1
## X1213     0     0     0     1     0     1     0     0     0     1     0     0
## X1214     0     1     0     2     1     1     0     0     0     1     0     0
## X1302     0     1     0     2     1     1     0     0     0     1     0     0
## X1507     0     0     0     0     0     0     0     0     0     0     0     0
## X1514     0     0     0     0     0     0     0     0     0     0     0     0
## X1517     0     0     1     1     1     0     1     2     1     1     2     1
## X1601     0     0     0     0     0     0     0     0     0     0     1     0
## X1602     0     0     1     1     1     0     0     1     1     0     2     0
## X1704     0     0     1     1     2     1     0     1     1     0     2     0
## X1806     0     0     1     1     2     1     1     2     1     1     3     1
## X1901     0     0     1     1     2     1     1     2     1     1     2     1
## X1902     0     0     0     0     0     0     0     0     0     0     0     0
## X1905     0     0     1     1     2     1     1     2     1     2     2     1
## X2001     0     0     0     0     0     0     0     0     0     0     0     0
## X2002     0     0     0     0     0     0     0     0     0     0     0     0
## X2003     0     0     0     0     0     0     0     0     0     0     0     0
## X2004     0     0     0     0     0     0     0     0     0     0     0     0
## X2005     0     0     1     1     2     1     0     1     1     0     1     0
## X2006     0     0     1     1     1     0     0     1     1     0     1     0
## X2007     0     0     1     1     1     0     0     1     1     0     1     0
## X2008     0     0     1     1     2     1     1     2     1     1     3     1
## X2101     0     0     0     0     0     0     0     0     0     0     0     0
## X2102     0     0     1     1     1     0     0     1     1     0     2     0
## X2103     0     0     0     0     0     0     0     0     0     0     1     0
## X2104     0     0     0     0     0     0     0     0     0     0     1     0
## X2106     0     0     0     0     0     0     1     1     0     1     2     1
## X2202     0     0     0     0     0     0     1     1     0     1     1     1
## X2206     0     0     0     0     1     0     0     0     0     0     0     0
## X2208     0     0     1     1     1     0     0     1     1     0     1     0
## X2209     0     0     0     0     0     0     0     0     0     0     0     0
## X2302     0     0     0     0     0     0     0     0     0     0     1     0
## X2309     0     0     0     0     0     0     1     1     0     1     1     1
## X2402     0     0     1     1     1     0     0     1     1     0     1     0
```

```
## X2403     0     0     1     1     1     0     0     1     1     0     1     0
## X2507     0     0     0     0     1     0     0     0     0     1     0     0
## X2508     0     0     1     1     1     0     1     2     1     1     2     1
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     0     1     1     2     2     0     0     1     1     0     1     0
## X2519     0     0     0     0     0     0     1     1     0     1     1     1
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     1     0     1     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     0     1     1     1     0     0     1     1     1     1     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     1     1     1     0     0     1     1     0     1     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     1     0
## X2713     0     0     0     0     0     0     0     0     0     1     0     0
## X2714     0     0     0     0     0     0     0     0     0     1     0     0
## X2716     0     0     1     2     1     0     0     1     1     1     1     0
## X2804     0     0     1     1     1     0     1     2     1     1     3     1
## X2811     0     0     1     1     1     0     1     2     1     1     3     1
## X2825     1     1     0     1     0     0     0     0     0     0     0     0
## X2826     0     0     0     0     0     0     1     1     0     1     1     1
## X2832     0     0     0     0     0     0     1     1     0     1     1     1
## X2833     0     0     0     0     0     0     1     1     0     1     1     1
## X2835     0     0     0     0     0     0     1     1     0     1     1     1
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     0     1     1     1     0     1     2     1     1     3     1
## X2903     0     0     0     1     0     0     0     0     0     1     0     0
## X2907     0     0     0     0     0     0     1     1     0     1     1     1
## X2915     0     0     0     0     0     0     1     1     0     1     1     1
## X2933     0     0     0     0     0     0     1     1     0     1     1     1
## X3105     0     0     0     0     0     1     0     0     0     0     0     0
## X3202     0     0     0     0     0     0     1     1     0     1     1     1
## X3204     0     0     1     1     1     0     1     2     1     1     2     1
## X3205     0     0     0     0     0     0     0     0     0     1     0     0
## X3206     0     0     0     0     0     0     1     1     0     2     1     1
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     1     1     0     1     0     0     0     0     0     1     0     0
## X3209     0     0     0     0     0     0     0     0     0     1     0     0
## X3210     0     0     0     0     0     0     1     1     0     1     1     1
## X3211     0     0     0     0     0     0     0     0     0     1     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     0     1     0     0     0     0     0     1     0     0
## X3215     0     0     0     0     0     0     0     0     0     1     0     0
## X3302     0     0     0     0     0     0     1     1     0     1     1     1
## X3303     0     0     1     1     1     0     0     1     1     0     1     0
## X3304     0     0     1     1     1     0     0     1     1     0     1     0
## X3305     0     0     1     1     1     0     0     1     1     0     1     0
## X3307     0     0     1     1     1     0     0     1     1     0     1     0
## X3402     0     0     1     1     1     0     1     2     1     1     2     1
## X3403     0     0     1     1     1     0     1     2     1     1     2     1
## X3506     0     0     1     1     1     0     0     1     1     1     2     0
## X3507     0     0     0     0     0     0     1     1     0     1     1     1
## X3605     0     0     0     0     0     0     0     0     0     0     1     0
## X3701     0     0     0     0     0     0     0     0     0     1     0     0
## X3707     0     0     0     0     0     0     0     0     0     1     0     0
## X3802     0     0     0     1     0     0     0     0     0     0     0     0
## X3808     0     0     1     1     1     0     0     1     1     0     1     0
## X3809     0     1     1     2     1     0     1     2     1     1     2     1
## X3810     1     1     0     1     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     0     0     0     0     0     1     1     0     2     1     1
## X3815     0     0     0     0     0     0     1     1     0     1     1     1
## X3816     0     0     1     1     1     0     0     1     1     0     1     0
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     1     0
## X3902     0     0     0     0     0     0     1     1     0     1     1     1
## X3908     0     0     1     1     1     0     0     1     1     0     1     0
## X3909     0     0     0     0     0     0     1     1     0     1     1     1
## X3910     0     0     0     0     0     0     1     1     0     1     1     1
## X3911     0     0     0     0     0     0     1     1     0     1     1     1
## X3915     0     0     0     0     0     0     1     1     0     1     1     1
## X3916     0     0     0     0     0     0     0     0     0     1     0     0
## X3917     0     1     1     2     2     0     1     2     1     1     2     1
## X3919     0     0     0     0     0     0     1     1     0     2     1     1
## X3920     0     0     0     0     0     0     1     1     0     2     2     1
## X3921     0     0     0     0     0     0     1     1     0     2     1     1
## X3923     0     0     0     0     1     0     0     0     0     0     0     0
```

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## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     0     0     0     0     1     1     0     1     1     1
## X3926     0     0     1     2     1     0     1     2     1     1     2     1
## X4001     0     0     0     0     0     0     0     0     0     1     0     0
## X4005     0     0     0     0     0     0     0     0     0     0     1     0
## X4006     0     0     0     0     0     0     0     0     0     0     1     0
## X4008     0     0     1     1     1     0     0     1     1     0     1     0
## X4009     0     0     0     0     0     0     0     0     0     0     1     0
## X4010     0     1     0     1     1     0     0     0     0     0     0     0
## X4012     0     0     0     0     0     0     0     0     0     0     1     0
## X4013     0     0     0     0     0     0     0     0     0     0     1     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     0     0     0     1     0
## X4202     0     0     0     0     0     0     1     1     0     2     1     1
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     0     0     0     1     0     1     1     0     1     1     1
## X4415     0     0     0     0     0     0     1     1     0     1     2     1
## X4416     0     1     0     1     1     0     1     1     0     1     1     1
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     1     0     0     0     0     0     0     0
## X4421     0     0     1     1     2     0     0     1     1     0     1     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     0     0     0     1     1     0     1     1     1
## X4808     0     0     0     1     0     0     1     1     0     2     1     1
## X4818     0     0     0     0     0     0     0     0     0     1     0     0
## X4819     0     0     0     0     0     0     0     0     0     0     0     0
## X4821     0     0     0     0     0     0     0     0     0     1     0     0
## X4822     0     0     0     0     0     0     1     1     0     1     1     1
## X4823     0     0     0     1     0     0     1     1     0     1     1     1
## X4901     0     0     1     1     1     0     0     1     1     0     1     0
## X4902     0     0     1     1     1     0     0     1     1     0     1     0
## X4907     0     0     1     1     1     0     0     1     1     0     1     0
## X4911     0     0     1     1     1     0     0     1     1     0     1     0
## X5111     0     0     0     0     0     0     1     1     0     1     1     1
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     0     0     0     0     0     0     0     0     0     1     0     0
## X5206     0     0     0     0     0     0     0     0     0     1     0     0
## X5208     0     0     0     0     0     0     0     0     0     1     0     0
## X5209     0     0     0     0     0     0     0     0     0     1     0     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     0     0     0     0     0     0     0     0     1     0     0
## X5402     0     0     0     1     0     0     0     0     0     1     0     0
## X5407     0     0     1     1     1     0     1     2     1     2     2     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     1     0     0     0     0     0     0     0
## X5508     0     0     1     2     1     0     0     1     1     0     1     0
## X5509     0     0     0     0     1     0     0     0     0     1     0     0
## X5511     0     0     0     0     1     0     0     0     0     0     0     0
## X5512     0     0     0     0     1     0     0     0     0     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     0     0     0     0     0     0     0     0     1     0     0
## X5515     0     0     0     0     0     0     0     0     0     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     0     1     1     1     0     0     1     1     0     1     0
## X5603     0     0     0     0     0     0     1     1     0     1     1     1
## X5609     0     0     0     0     1     0     0     0     0     0     0     0
## X5806     0     0     0     0     0     0     0     0     0     1     0     0
## X5807     0     0     0     0     0     0     0     0     0     1     0     0
## X5903     0     0     0     0     0     0     1     1     0     1     1     1
## X5907     0     0     0     0     0     0     0     0     0     0     0     0
## X5911     0     0     0     0     1     0     0     0     0     1     0     0
## X6002     0     0     1     1     1     0     1     2     1     2     2     1
## X6101     0     0     0     0     0     0     0     0     0     0     0     0
## X6103     0     0     0     0     0     0     0     0     0     1     0     0
## X6104     0     0     1     1     1     0     0     1     1     1     1     0
## X6105     0     0     0     0     0     0     0     0     0     0     0     0
## X6106     0     0     1     1     1     0     0     1     1     1     1     0
## X6107     0     0     0     0     0     0     0     0     0     1     0     0
## X6109     0     0     0     0     0     0     0     0     0     1     0     0
## X6110     0     0     0     0     1     0     0     0     0     0     0     0
## X6111     0     0     0     0     0     0     0     0     0     1     0     0
## X6112     0     1     0     1     0     0     0     0     0     1     0     0
## X6114     0     0     0     0     1     0     0     0     0     2     0     0
## X6115     0     0     1     1     1     0     0     1     1     1     1     0
## X6117     0     0     0     0     0     0     0     0     0     0     0     0
## X6201     0     0     0     0     0     0     0     0     0     1     0     0
## X6202     0     0     0     0     0     0     0     0     0     1     0     0
## X6203     0     0     0     0     0     0     0     0     0     1     0     0
## X6204     0     0     0     0     0     0     0     0     0     1     0     0
```

```
## X6205     0     0     1     1     1     0     0     1     1     0     1     0
## X6206     0     0     1     1     2     0     0     1     1     1     1     0
## X6210     0     0     0     0     0     0     0     0     0     1     0     0
## X6211     0     0     0     0     0     0     0     0     0     1     0     0
## X6212     0     0     0     0     0     1     1     1     0     2     1     1
## X6217     0     0     0     0     0     0     0     0     0     1     0     0
## X6302     0     0     0     0     0     0     0     0     0     1     0     0
## X6303     0     0     0     0     0     0     0     0     0     1     0     0
## X6304     0     0     0     0     0     0     0     0     0     1     0     0
## X6305     0     0     0     0     0     0     1     1     0     2     1     1
## X6306     0     0     0     0     0     0     1     1     0     1     1     1
## X6307     0     0     0     0     0     0     0     0     0     1     0     0
## X6401     0     0     1     1     1     0     0     1     1     0     1     0
## X6403     0     0     1     1     1     0     0     1     1     0     1     0
## X6404     0     0     0     0     0     0     1     1     0     1     1     1
##       X7608 X7609 X7615 X7616 X8204 X8205 X8207 X8208 X8209 X8301 X8302 X8306
## X102      0     0     1     0     0     1     1     0     1     0     1     1
## X210      0     0     0     0     0     0     0     1     0     0     1     0
## X401      0     0     1     1     0     2     1     0     1     0     2     1
## X403      0     0     1     0     0     1     1     1     1     0     3     1
## X406      0     0     0     1     0     0     0     0     0     0     2     0
## X510      0     0     0     0     0     0     0     0     0     0     1     0
## X602      0     0     0     0     0     0     0     0     0     0     3     1
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     1     1     0     1     1     0     1     1    20     3
## X703      0     0     0     0     0     0     0     0     0     0     3     0
## X709      0     0     0     0     0     0     0     0     0     1    25     1
## X712      1     1     0     0     1     0     0     0     0     0     0     0
## X713      0     0     0     0     0     1     0     0     0     1    37     2
## X804      0     0     0     0     0     0     0     0     0     0     7     0
## X805      0     0     0     0     0     0     0     0     0     0    12     0
## X808      0     0     0     0     0     0     0     0     0     0     1     0
## X809      0     0     1     0     0     1     1     0     1     0     1     1
## X813      0     0     0     0     0     0     0     0     0     0     1     1
## X901      0     0     0     0     0     0     0     0     0     0    11     0
## X904      0     0     0     0     0     0     0     1     0     0     0     0
## X1001     0     0     0     0     0     1     0     0     0     1    12     1
## X1003     0     0     1     2     0     3     1     0     1     0    12     3
## X1005     0     0     0     0     0     0     0     0     0     0    14     0
## X1102     0     0     0     1     0     1     0     0     0     0     1     0
## X1108     0     0     0     1     0     1     0     0     0     0     1     0
## X1202     0     0     0     0     0     0     0     0     0     0     3     0
## X1208     0     0     0     1     0     1     0     0     0     0     1     0
## X1213     0     0     0     0     0     0     0     0     0     1    12     0
## X1214     0     0     0     0     0     0     0     0     0     0    21     1
## X1302     0     0     0     0     0     0     0     0     0     0    24     2
## X1507     0     0     0     0     0     0     0     0     0     0     1     0
## X1514     0     0     0     0     0     0     0     0     0     0     1     0
## X1517     0     0     1     1     0     2     1     0     1     0     2     1
## X1601     0     0     0     0     0     0     0     1     0     0     1     0
## X1602     0     0     1     0     0     1     1     1     1     0     2     1
## X1704     0     0     1     0     0     1     1     1     1     0     5     2
## X1806     0     0     1     1     0     2     1     1     1     0     6     2
## X1901     0     0     1     1     0     2     1     0     1     0     7     2
## X1902     0     0     0     0     0     0     0     0     0     0     1     0
## X1905     0     0     1     1     0     2     1     1     1     0     7     2
## X2001     0     0     0     0     0     0     0     0     0     0     1     0
## X2002     0     0     0     0     0     0     0     0     0     0     1     0
## X2003     0     0     0     0     0     0     0     0     0     0     1     0
## X2004     0     0     0     0     0     0     0     0     0     0     1     0
## X2005     0     0     1     0     0     1     1     0     1     0     6     2
## X2006     0     0     1     0     0     1     1     0     1     0     2     1
## X2007     0     0     1     0     0     1     1     0     1     0     2     1
## X2008     0     0     1     1     0     2     1     1     1     0     8     2
## X2101     0     0     0     0     0     0     0     0     0     0     1     0
## X2102     0     0     1     0     0     1     1     1     1     0     1     1
## X2103     0     0     0     0     0     0     0     1     0     0     1     0
## X2104     0     0     0     0     0     0     0     1     0     0     0     0
## X2106     0     0     0     1     0     1     0     1     0     0     2     0
## X2202     0     0     0     1     0     1     0     0     0     0     3     0
## X2206     0     0     0     0     0     0     0     0     0     0     1     1
## X2208     0     0     1     0     0     1     1     0     1     0     2     1
## X2209     0     0     0     0     0     0     0     0     0     0     1     0
## X2302     0     0     0     0     0     0     0     1     0     0     0     0
## X2309     0     0     0     1     0     1     0     0     0     0     1     0
## X2402     0     0     1     0     0     1     1     0     1     0     1     1
## X2403     0     0     1     0     0     1     1     0     1     0     1     1
## X2507     0     0     0     0     0     0     0     0     0     0     2     1
## X2508     0     0     1     1     0     2     1     0     1     0     2     1
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## X2512     0     0     0     0     0     0     0     0     0     0     1     0
## X2517     0     0     1     0     0     2     1     0     1     1    16     4
## X2519     0     0     0     1     0     1     0     0     0     0     1     0
## X2520     0     0     0     0     0     0     0     0     0     0     1     0
## X2522     0     0     0     0     0     0     0     0     0     0     2     0
## X2525     0     0     0     0     0     0     0     0     0     1     1     0
## X2530     0     0     1     0     0     1     1     0     1     0     3     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     1     0     0     1     1     0     1     0     1     1
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     1     0     0     0     0
## X2713     0     0     0     0     0     0     0     1     0     0     0     0
## X2714     0     0     0     0     0     0     0     1     0     0     0     0
## X2716     0     0     1     0     0     1     1     0     1     1     7     1
## X2804     0     0     1     1     0     2     1     1     1     0     2     1
## X2811     0     0     1     1     0     2     1     1     1     0     2     1
## X2825     1     1     0     0     1     0     0     0     0     0     0     0
## X2826     0     0     0     1     0     1     0     0     0     0     1     0
## X2832     0     0     0     1     0     1     0     0     0     0     1     0
## X2833     0     0     0     1     0     1     0     0     0     0     1     0
## X2835     0     0     0     1     0     1     0     0     0     0     1     0
## X2836     0     0     0     0     0     0     0     0     0     0     1     0
## X2901     0     0     1     1     0     2     1     1     1     0     2     1
## X2903     0     0     0     0     0     0     0     1     0     0     1     0
## X2907     0     0     0     1     0     1     0     0     0     0     1     0
## X2915     0     0     0     1     0     1     0     0     0     0     1     0
## X2933     0     0     0     1     0     1     0     0     0     0     1     0
## X3105     0     0     0     0     0     0     0     0     0     0     1     0
## X3202     0     0     0     1     0     1     0     0     0     0     1     0
## X3204     0     0     1     1     0     2     1     0     1     0     3     1
## X3205     0     0     0     0     0     0     0     1     0     0     0     0
## X3206     0     0     0     1     0     1     0     1     0     0     1     0
## X3207     0     0     0     0     0     0     0     0     0     0     1     0
## X3208     1     1     0     0     1     0     0     1     0     0     1     0
## X3209     0     0     0     0     0     0     0     1     0     0     0     0
## X3210     0     0     0     1     0     1     0     0     0     0     1     0
## X3211     0     0     0     0     0     0     0     1     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     1     0
## X3214     0     0     0     0     0     0     0     1     0     0     1     0
## X3215     0     0     0     0     0     0     0     1     0     0     0     0
## X3302     0     0     0     1     0     1     0     0     0     0     2     0
## X3303     0     0     1     0     0     1     1     0     1     0     1     1
## X3304     0     0     1     0     0     1     1     0     1     0     1     1
## X3305     0     0     1     0     0     1     1     0     1     0     2     1
## X3307     0     0     1     0     0     1     1     0     1     0     1     1
## X3402     0     0     1     1     0     2     1     0     1     0     4     1
## X3403     0     0     1     1     0     2     1     0     1     0     3     1
## X3506     0     0     1     0     0     1     1     2     1     0     2     1
## X3507     0     0     0     1     0     1     0     0     0     0     2     0
## X3605     0     0     0     0     0     0     0     1     0     0     0     0
## X3701     0     0     0     0     0     0     0     1     0     0     0     0
## X3707     0     0     0     0     0     0     0     1     0     0     0     0
## X3802     0     0     0     0     0     0     0     0     0     0     1     0
## X3808     0     0     1     0     0     1     1     0     1     0     1     1
## X3809     0     0     1     1     0     2     1     0     1     0     4     1
## X3810     1     1     0     0     1     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     1     0
## X3814     0     0     0     1     0     1     0     1     0     0     1     0
## X3815     0     0     0     1     0     1     0     0     0     0     1     0
## X3816     0     0     1     0     0     1     1     0     1     0     1     1
## X3819     0     0     0     0     0     0     0     0     0     0     1     0
## X3820     0     0     0     0     0     0     0     0     0     0     1     0
## X3823     0     0     0     0     0     0     0     1     0     0     0     0
## X3902     0     0     0     1     0     1     0     0     0     0     1     0
## X3908     0     0     1     0     0     1     1     0     1     0     2     1
## X3909     0     0     0     1     0     1     0     0     0     0     1     0
## X3910     0     0     0     1     0     1     0     0     0     0     1     0
## X3911     0     0     0     1     0     1     0     0     0     0     1     0
## X3915     0     0     0     1     0     1     0     0     0     0     1     0
## X3916     0     0     0     0     0     0     0     1     0     0     0     0
## X3917     0     0     1     1     0     2     1     0     1     0     4     2
## X3919     0     0     0     1     0     1     0     1     0     0     1     0
## X3920     0     0     0     1     0     1     0     2     0     0     1     0
## X3921     0     0     0     1     0     1     0     1     0     0     2     0
## X3923     0     0     0     0     0     0     0     0     0     0     3     1
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     0     1     0     1     0     0     0     0     1     0
## X3926     0     0     1     2     0     2     1     0     1     0     7     2
```

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## X4001     0     0     0     0     0     0     0     1     0     0     0     0
## X4005     0     0     0     0     0     0     0     1     0     0     0     0
## X4006     0     0     0     0     0     0     0     1     0     0     0     0
## X4008     0     0     1     0     0     1     1     0     1     0     1     1
## X4009     0     0     0     0     0     0     0     1     0     0     0     0
## X4010     0     0     0     0     0     0     0     0     0     0     5     1
## X4012     0     0     0     0     0     0     0     1     0     0     0     0
## X4013     0     0     0     0     0     0     0     1     0     0     0     0
## X4015     0     0     0     1     0     0     0     0     0     0     1     0
## X4016     0     0     0     1     0     0     0     1     0     0     1     0
## X4202     0     0     0     1     0     1     0     1     0     0     3     0
## X4203     0     0     0     1     0     0     0     0     0     0     1     0
## X4409     0     0     0     1     0     1     0     0     0     0     3     1
## X4415     0     0     0     1     0     1     0     1     0     0     2     0
## X4416     0     0     0     1     0     1     0     0     0     0     5     1
## X4418     0     0     0     0     0     0     0     0     0     1     1     0
## X4420     0     0     0     0     0     0     0     0     0     0     1     1
## X4421     0     0     1     0     0     1     1     0     1     0     2     2
## X4602     0     0     0     0     0     0     0     0     0     0     1     0
## X4804     0     0     0     1     0     1     0     0     0     0     1     0
## X4808     0     0     0     1     0     1     0     1     0     0     2     0
## X4818     0     0     0     0     0     0     0     1     0     0     0     0
## X4819     0     0     0     0     0     0     0     0     0     0     1     0
## X4821     0     0     0     0     0     0     0     1     0     0     1     0
## X4822     0     0     0     1     0     1     0     0     0     0     1     0
## X4823     0     0     0     1     0     1     0     0     0     0     2     0
## X4901     0     0     1     0     0     1     1     0     1     0     1     1
## X4902     0     0     1     0     0     1     1     0     1     0     1     1
## X4907     0     0     1     0     0     1     1     0     1     0     1     1
## X4911     0     0     1     0     0     1     1     0     1     0     2     1
## X5111     0     0     0     1     0     1     0     0     0     0     2     0
## X5112     0     0     0     0     0     0     0     0     0     0     1     0
## X5205     0     0     0     0     0     0     0     1     0     0     0     0
## X5206     0     0     0     0     0     0     0     1     0     0     0     0
## X5208     0     0     0     0     0     0     0     1     0     0     0     0
## X5209     0     0     0     0     0     0     0     1     0     0     1     0
## X5210     0     0     0     0     0     0     0     0     0     0     2     0
## X5211     0     0     0     0     0     0     0     1     0     0     0     0
## X5402     0     0     0     0     0     0     0     1     0     0     1     0
## X5407     0     0     1     1     0     2     1     1     1     0     2     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     1     1
## X5508     0     0     1     0     0     1     1     0     1     0     3     1
## X5509     0     0     0     0     0     0     0     1     0     0     1     1
## X5511     0     0     0     0     0     0     0     0     0     0     1     1
## X5512     0     0     0     0     0     0     0     0     0     0     2     1
## X5513     0     0     0     0     0     0     0     0     0     0     2     0
## X5514     0     0     0     0     0     0     0     1     0     0     0     0
## X5515     0     0     0     0     0     0     0     0     0     0     2     0
## X5516     0     0     0     0     0     0     0     0     0     0     2     0
## X5601     0     0     1     0     0     1     1     0     1     0     1     1
## X5603     0     0     0     1     0     1     0     0     0     0     4     0
## X5609     0     0     0     0     0     0     0     0     0     0     1     1
## X5806     0     0     0     0     0     0     0     1     0     0     1     0
## X5807     0     0     0     0     0     0     0     1     0     0     1     0
## X5903     0     0     0     1     0     1     0     0     0     0     1     0
## X5907     0     0     0     0     0     0     0     0     0     0     1     0
## X5911     0     0     0     0     0     0     0     1     0     0     4     1
## X6002     0     0     1     1     0     2     1     1     1     0     4     1
## X6101     0     0     0     0     0     0     0     0     0     0     1     0
## X6103     0     0     0     0     0     0     0     1     0     0     0     0
## X6104     0     0     1     0     0     1     1     1     1     0     1     1
## X6105     0     0     0     0     0     0     0     0     0     0     1     0
## X6106     0     0     1     0     0     1     1     1     1     0     1     1
## X6107     0     0     0     0     0     0     0     1     0     0     0     0
## X6109     0     0     0     0     0     0     0     1     0     0     0     0
## X6110     0     0     0     0     0     0     0     0     0     0     2     1
## X6111     0     0     0     0     0     0     0     1     0     0     0     0
## X6112     0     0     0     0     0     0     0     1     0     0     2     0
## X6114     0     0     0     0     0     0     0     1     0     0     4     1
## X6115     0     0     1     0     0     1     1     1     1     0     1     1
## X6117     0     0     0     0     0     0     0     0     0     0     1     0
## X6201     0     0     0     0     0     0     0     1     0     0     0     0
## X6202     0     0     0     0     0     0     0     1     0     0     0     0
## X6203     0     0     0     0     0     0     0     1     0     0     2     0
## X6204     0     0     0     0     0     0     0     1     0     0     0     0
## X6205     0     0     1     0     0     1     1     0     1     0     2     1
## X6206     0     0     1     0     0     1     1     1     1     0     3     2
## X6210     0     0     0     0     0     0     0     1     0     0     0     0
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## X6211     0     0     0     0     0     0     0     1     0     0     4     0
## X6212     0     0     0     1     0     1     0     1     0     1     6     0
## X6217     0     0     0     0     0     0     0     1     0     0     0     0
## X6302     0     0     0     0     0     0     0     1     0     0     0     0
## X6303     0     0     0     0     0     0     0     1     0     0     0     0
## X6304     0     0     0     0     0     0     0     1     0     0     0     0
## X6305     0     0     0     1     0     1     0     1     0     0     1     0
## X6306     0     0     0     1     0     1     0     0     0     0     1     0
## X6307     0     0     0     1     0     0     0     1     0     0     1     0
## X6401     0     0     1     0     0     1     1     0     1     0     1     1
## X6403     0     0     1     0     0     1     1     0     1     0     2     1
## X6404     0     0     0     1     0     1     0     0     0     0     1     0
##       X8307 X8308 X8309 X8311 X8402 X8406 X8408 X8409 X8411 X8412 X8413 X8414
## X102      0     0     0     1     0     1     0     0     1     0     0     0
## X210      0     0     1     1     0     0     0     0     0     0     0     0
## X401      1     0     1     2     0     1     0     1     1     0     1     1
## X403      0     0     1     2     0     2     0     0     2     0     0     0
## X406      0     0     1     0     0     0     0     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     1     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     1     1     0     3     0     0     3     0     0     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     0     0     0     0     2     0     0     2     0     2     0
## X712      0     0     0     0     1     0     1     0     0     0     1     0
## X713      0     0     0     0     0     3     0     1     3     1     2     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     1     0     0     1     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     1     0     1     0     0     1     0     0     0
## X813      0     0     0     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     1     0     0     1     0     0     0
## X904      0     0     0     1     0     0     0     0     0     0     0     0
## X1001     0     0     0     0     0     2     0     1     2     1     1     0
## X1003     1     0     1     2     0     1     0     1     1     1     1     1
## X1005     0     0     0     0     0     0     0     0     0     0     0     0
## X1102     1     0     1     1     0     0     0     1     0     0     1     1
## X1108     1     0     1     1     0     0     0     1     0     0     1     1
## X1202     0     0     0     0     0     1     0     0     1     0     0     0
## X1208     1     0     1     1     0     0     0     1     0     0     1     1
## X1213     0     0     0     0     0     4     0     0     4     0     1     0
## X1214     0     0     0     0     0     3     0     0     3     0     2     0
## X1302     0     0     0     0     0     3     0     0     3     0     2     0
## X1507     0     0     1     0     0     0     0     0     0     0     0     0
## X1514     0     0     1     0     0     0     0     0     0     0     0     0
## X1517     1     0     1     2     0     1     0     1     1     0     1     1
## X1601     0     0     1     1     0     0     0     0     0     0     0     0
## X1602     0     0     1     2     0     1     0     0     1     0     0     0
## X1704     0     0     0     2     0     2     0     0     2     0     0     0
## X1806     1     0     1     3     0     2     0     1     2     0     1     1
## X1901     1     0     2     2     0     2     0     1     2     0     1     1
## X1902     0     0     1     0     0     0     0     0     0     0     0     0
## X1905     1     1     1     2     0     2     0     1     2     0     1     1
## X2001     0     0     1     0     0     0     0     0     0     0     0     0
## X2002     0     0     1     0     0     0     0     0     0     0     0     0
## X2003     0     0     1     0     0     0     0     0     0     0     0     0
## X2004     0     0     1     0     0     0     0     0     0     0     0     0
## X2005     0     0     1     1     0     2     0     0     2     0     0     0
## X2006     0     0     0     1     0     1     0     0     1     0     0     0
## X2007     0     0     1     1     0     1     0     0     1     0     0     0
## X2008     1     0     1     3     0     2     0     1     2     0     1     1
## X2101     0     0     1     0     0     0     0     0     0     0     0     0
## X2102     0     0     0     2     0     1     0     0     1     0     0     0
## X2103     0     0     1     1     0     0     0     0     0     0     0     0
## X2104     0     0     0     1     0     0     0     0     0     0     0     0
## X2106     1     0     2     2     0     0     0     1     0     0     1     1
## X2202     1     0     2     1     0     0     0     1     0     0     1     1
## X2206     0     0     0     0     0     0     0     0     0     0     0     0
## X2208     0     0     0     1     0     2     0     0     2     0     0     0
## X2209     0     0     1     0     0     0     0     0     0     0     0     0
## X2302     0     0     0     1     0     0     0     0     0     0     0     0
## X2309     1     0     1     1     0     0     0     1     0     0     1     1
## X2402     0     0     0     1     0     1     0     0     1     0     0     0
## X2403     0     0     0     1     0     1     0     0     1     0     0     0
## X2507     0     0     0     0     0     1     0     0     1     0     0     0
## X2508     1     0     1     2     0     1     0     1     1     0     1     1
## X2512     0     0     0     0     0     1     0     0     1     0     0     0
## X2517     0     0     0     1     0     2     0     0     2     0     1     0
## X2519     1     0     1     1     0     0     0     1     0     0     1     1
```

```
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     1     0
## X2525     0     0     0     0     0     1     0     0     1     0     0     0
## X2530     0     0     0     1     0     2     0     0     2     0     0     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     1     0     1     0     0     1     0     0     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     1     0     0     0     0     0     0     0     0
## X2713     0     1     0     0     0     0     0     0     0     0     0     0
## X2714     0     1     0     0     0     0     0     0     0     0     0     0
## X2716     0     0     0     1     0     6     0     0     6     0     1     0
## X2804     1     0     1     3     0     1     0     1     1     0     1     1
## X2811     1     0     1     3     0     1     0     1     1     0     1     1
## X2825     0     0     0     0     1     0     1     0     0     0     1     0
## X2826     1     0     1     1     0     0     0     1     0     0     1     1
## X2832     1     0     1     1     0     0     0     1     0     0     1     1
## X2833     1     0     1     1     0     0     0     1     0     0     1     1
## X2835     1     0     1     1     0     0     0     1     0     0     1     1
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     1     0     1     3     0     1     0     1     1     0     1     1
## X2903     0     1     0     0     0     1     0     0     1     0     1     0
## X2907     1     0     1     1     0     0     0     1     0     0     1     1
## X2915     1     0     1     1     0     0     0     1     0     0     1     1
## X2933     1     0     1     1     0     0     0     1     0     0     1     1
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     1     0     1     1     0     0     0     1     0     0     1     1
## X3204     1     0     1     2     0     1     0     1     1     0     1     1
## X3205     0     1     0     0     0     0     0     0     0     0     0     0
## X3206     1     1     1     1     0     0     0     1     0     0     1     1
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     1     0     0     1     0     1     0     0     0     1     0
## X3209     0     1     0     0     0     0     0     0     0     0     0     0
## X3210     1     0     1     1     0     0     0     1     0     0     1     1
## X3211     0     1     0     0     0     0     0     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     1     0     0     0     1     0     0     1     0     1     0
## X3215     0     1     0     0     0     0     0     0     0     0     0     0
## X3302     1     0     2     1     0     0     0     1     0     0     1     1
## X3303     0     0     0     1     0     1     0     0     1     0     0     0
## X3304     0     0     0     1     0     1     0     0     1     0     0     0
## X3305     0     0     0     1     0     2     0     0     2     0     0     0
## X3307     0     0     0     1     0     1     0     0     1     0     0     0
## X3402     1     0     2     2     0     2     0     1     2     0     1     1
## X3403     1     0     1     2     0     1     0     1     1     0     1     1
## X3506     0     1     1     2     0     1     0     0     1     0     0     0
## X3507     1     0     2     1     0     0     0     1     0     0     1     1
## X3605     0     0     0     1     0     0     0     0     0     0     0     0
## X3701     0     1     0     0     0     0     0     0     0     0     0     0
## X3707     0     1     0     0     0     0     0     0     0     0     0     0
## X3802     0     0     0     0     0     1     0     0     1     0     1     0
## X3808     0     0     0     1     0     1     0     0     1     0     0     0
## X3809     1     0     1     2     0     2     0     1     2     0     2     1
## X3810     0     0     0     0     1     0     1     0     0     0     1     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     1     1     1     1     0     0     0     1     0     0     1     1
## X3815     1     0     1     1     0     0     0     1     0     0     1     1
## X3816     0     0     0     1     0     1     0     0     1     0     0     0
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     1     0     0     0     0     0     0     0     0
## X3902     1     0     1     1     0     0     0     1     0     0     1     1
## X3908     0     0     1     1     0     1     0     0     1     0     0     0
## X3909     1     0     1     1     0     0     0     1     0     0     1     1
## X3910     1     0     1     1     0     0     0     1     0     0     1     1
## X3911     1     0     1     1     0     0     0     1     0     0     1     1
## X3915     1     0     1     1     0     0     0     1     0     0     1     1
## X3916     0     1     0     0     0     0     0     0     0     0     0     0
## X3917     1     0     1     2     0     1     0     1     1     0     2     1
## X3919     1     1     1     1     0     0     0     1     0     0     1     1
## X3920     1     1     1     2     0     0     0     1     0     0     1     1
## X3921     1     1     1     1     0     0     0     1     0     0     1     1
## X3923     0     0     1     0     0     0     0     0     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     1     0     1     1     0     0     0     1     0     0     1     1
## X3926     1     0     1     2     0     2     0     1     2     0     2     1
## X4001     0     1     0     0     0     0     0     0     0     0     0     0
## X4005     0     0     0     1     0     0     0     0     0     0     0     0
## X4006     0     0     0     1     0     0     0     0     0     0     0     0
```

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## X4008     0     0     0     1     0     1     0     0     1     0     0     0
## X4009     0     0     0     1     0     0     0     0     0     0     0     0
## X4010     0     0     1     0     0     0     0     0     0     0     1     0
## X4012     0     0     0     1     0     0     0     0     0     0     0     0
## X4013     0     0     0     1     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     1     0     0     0     0     0     0     0     0
## X4202     1     1     1     1     0     0     0     1     0     0     1     1
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     1     0     2     1     0     0     0     1     0     0     1     1
## X4415     1     0     2     2     0     0     0     1     0     0     1     1
## X4416     1     0     1     1     0     1     0     1     1     0     2     1
## X4418     0     0     0     0     0     1     0     0     1     0     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     0
## X4421     0     0     0     1     0     1     0     0     1     0     0     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     1     0     1     1     0     0     0     1     0     0     1     1
## X4808     1     1     1     1     0     1     0     1     1     0     2     1
## X4818     0     1     0     0     0     0     0     0     0     0     0     0
## X4819     0     0     1     0     0     0     0     0     0     0     0     0
## X4821     0     1     1     0     0     0     0     0     0     0     0     0
## X4822     1     0     1     1     0     0     0     1     0     0     1     1
## X4823     1     0     1     1     0     1     0     1     1     0     2     1
## X4901     0     0     0     1     0     1     0     0     1     0     0     0
## X4902     0     0     0     1     0     1     0     0     1     0     0     0
## X4907     0     0     0     1     0     1     0     0     1     0     0     0
## X4911     0     0     1     1     0     1     0     0     1     0     0     0
## X5111     1     0     1     1     0     1     0     1     1     0     1     1
## X5112     0     0     0     0     0     1     0     0     1     0     0     0
## X5205     0     1     0     0     0     0     0     0     0     0     0     0
## X5206     0     1     0     0     0     0     0     0     0     0     0     0
## X5208     0     1     0     0     0     0     0     0     0     0     0     0
## X5209     0     1     1     0     0     0     0     0     0     0     0     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     1     0     0     0     0     0     0     0     0     0     0
## X5402     0     1     0     0     0     1     0     0     1     0     1     0
## X5407     1     1     1     2     0     1     0     1     1     0     1     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     0
## X5508     0     0     1     1     0     2     0     0     2     0     1     0
## X5509     0     1     0     0     0     0     0     0     0     0     0     0
## X5511     0     0     0     0     0     0     0     0     0     0     0     0
## X5512     0     0     1     0     0     0     0     0     0     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     1     0     0     0     0     0     0     0     0     0     0
## X5515     0     0     1     0     0     1     0     0     1     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     0     0     1     0     1     0     0     1     0     0     0
## X5603     1     0     2     1     0     0     0     1     0     0     1     1
## X5609     0     0     0     0     0     0     0     0     0     0     0     0
## X5806     0     1     1     0     0     0     0     0     0     0     0     0
## X5807     0     1     1     0     0     0     0     0     0     0     0     0
## X5903     1     0     1     1     0     0     0     1     0     0     1     1
## X5907     0     0     1     0     0     0     0     0     0     0     0     0
## X5911     0     1     0     0     0     1     0     0     1     0     0     0
## X6002     1     1     2     2     0     1     0     1     1     0     1     1
## X6101     0     0     1     0     0     0     0     0     0     0     0     0
## X6103     0     1     0     0     0     0     0     0     0     0     0     0
## X6104     0     1     0     1     0     1     0     0     1     0     0     0
## X6105     0     0     1     0     0     0     0     0     0     0     0     0
## X6106     0     1     0     1     0     1     0     0     1     0     0     0
## X6107     0     1     0     0     0     0     0     0     0     0     0     0
## X6109     0     1     0     0     0     0     0     0     0     0     0     0
## X6110     0     0     1     0     0     0     0     0     0     0     0     0
## X6111     0     1     0     0     0     0     0     0     0     0     0     0
## X6112     0     1     0     0     0     0     0     0     0     1     1     0
## X6114     0     1     0     0     0     2     0     0     2     0     0     0
## X6115     0     1     0     1     0     1     0     0     1     0     0     0
## X6117     0     0     1     0     0     0     0     0     0     0     0     0
## X6201     0     1     0     0     0     0     0     0     0     0     0     0
## X6202     0     1     0     0     0     0     0     0     0     0     0     0
## X6203     0     1     1     0     0     0     0     0     0     0     0     0
## X6204     0     1     0     0     0     0     0     0     0     0     0     0
## X6205     0     0     1     1     0     1     0     0     1     0     0     0
## X6206     0     1     0     1     0     1     0     0     1     0     0     0
## X6210     0     1     0     0     0     0     0     0     0     0     0     0
## X6211     0     1     1     0     0     0     0     0     0     0     0     0
## X6212     1     1     2     1     0     1     0     1     1     0     1     1
## X6217     0     1     0     0     0     0     0     0     0     0     0     0
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## X6302     0     1     0     0     0     0     0     0     0     0     0     0
## X6303     0     1     0     0     0     0     0     0     0     0     0     0
## X6304     0     1     0     0     0     0     0     0     0     0     0     0
## X6305     1     1     1     1     0     0     0     1     0     0     1     1
## X6306     1     0     1     1     0     0     0     1     0     0     1     1
## X6307     0     1     0     0     0     0     0     0     0     0     0     0
## X6401     0     0     0     1     0     1     0     0     1     0     0     0
## X6403     0     0     0     1     0     1     0     0     1     0     0     0
## X6404     1     0     1     1     0     0     0     1     0     0     1     1
##       X8419 X8421 X8422 X8423 X8424 X8425 X8427 X8428 X8430 X8431 X8437 X8438
## X102      0     1     1     0     1     0     0     0     1     0     0     1
## X210      0     2     1     0     0     0     1     0     0     0     0     1
## X401      0     2     1     0     1     0     0     0     1     1     0     2
## X403      0     3     2     0     1     0     1     0     1     0     0     2
## X406      0     1     1     0     0     0     1     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     2     2     0     1     0     1     0     1     0     0     1
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     3     1     1     0     0     0     1     0     1     0     0
## X712      0     0     0     0     0     1     0     1     0     0     1     0
## X713      0     3     1     1     0     0     0     1     0     1     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     1     1     0     1     0     0     0     1     0     0     1
## X813      0     0     0     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     1     0     0     0     0     0     0     0     0     0     1
## X1001     0     1     0     0     0     0     0     0     0     0     0     0
## X1003     0     2     1     0     1     0     0     0     1     1     0     2
## X1005     0     0     0     0     0     0     0     0     0     0     0     0
## X1102     0     1     0     0     0     0     0     0     0     1     0     1
## X1108     0     1     0     0     0     0     0     0     0     1     0     1
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     1     0     0     0     0     0     0     0     1     0     1
## X1213     0     2     0     0     0     0     0     0     0     0     0     0
## X1214     0     3     1     1     0     0     0     1     0     1     0     0
## X1302     0     2     1     1     0     0     0     1     0     1     0     0
## X1507     0     1     1     0     0     0     1     0     0     0     0     0
## X1514     0     1     1     0     0     0     1     0     0     0     0     0
## X1517     0     2     1     0     1     0     0     0     1     1     0     2
## X1601     0     2     1     0     0     0     1     0     0     0     0     1
## X1602     0     3     2     0     1     0     1     0     1     0     0     2
## X1704     0     2     1     0     1     0     0     0     1     0     0     2
## X1806     0     3     1     0     1     0     0     0     1     1     0     3
## X1901     0     3     2     0     1     0     1     0     1     1     0     2
## X1902     0     1     1     0     0     0     1     0     0     0     0     0
## X1905     1     2     2     0     1     0     0     0     1     1     0     2
## X2001     0     1     1     0     0     0     1     0     0     0     0     0
## X2002     0     1     1     0     0     0     1     0     0     0     0     0
## X2003     0     1     1     0     0     0     1     0     0     0     0     0
## X2004     0     1     1     0     0     0     1     0     0     0     0     0
## X2005     0     2     2     0     1     0     1     0     1     0     0     1
## X2006     0     1     1     0     1     0     0     0     1     0     0     1
## X2007     0     2     2     0     1     0     1     0     1     0     0     1
## X2008     0     3     1     0     1     0     0     0     1     1     0     3
## X2101     0     1     1     0     0     0     1     0     0     0     0     0
## X2102     0     2     1     0     1     0     0     0     1     0     0     2
## X2103     0     2     1     0     0     0     1     0     0     0     0     1
## X2104     0     1     0     0     0     0     0     0     0     0     0     1
## X2106     0     3     1     0     0     0     1     0     0     1     0     2
## X2202     0     2     1     0     0     0     1     0     0     1     0     1
## X2206     0     0     0     0     0     0     0     0     0     0     0     0
## X2208     0     1     1     0     1     0     0     0     1     0     0     1
## X2209     0     1     1     0     0     0     1     0     0     0     0     0
## X2302     0     1     0     0     0     0     0     0     0     0     0     1
## X2309     0     1     0     0     0     0     0     0     0     1     0     1
## X2402     0     1     1     0     1     0     0     0     1     0     0     1
## X2403     0     1     1     0     1     0     0     0     1     0     0     1
## X2507     0     0     0     0     0     0     0     0     0     0     0     0
## X2508     0     2     1     0     1     0     0     0     1     1     0     2
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     0     2     2     1     1     0     0     1     1     1     0     1
## X2519     0     1     0     0     0     0     0     0     0     1     0     1
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     1     1     1     0     0     0     1     0     1     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
```

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## X2530     0     1     1     0     1     0     0     0     1     0     0     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     1     1     0     1     0     0     0     1     0     0     1
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     1     0     0     0     0     0     0     0     0     0     1
## X2713     1     0     1     0     0     0     0     0     0     0     0     0
## X2714     1     0     1     0     0     0     0     0     0     0     0     0
## X2716     0     2     1     0     1     0     0     0     1     0     0     1
## X2804     0     3     1     0     1     0     0     0     1     1     0     3
## X2811     0     3     1     0     1     0     0     0     1     1     0     3
## X2825     0     0     0     0     0     1     0     1     0     0     1     0
## X2826     0     1     0     0     0     0     0     0     0     1     0     1
## X2832     0     1     0     0     0     0     0     0     0     1     0     1
## X2833     0     1     0     0     0     0     0     0     0     1     0     1
## X2835     0     1     0     0     0     0     0     0     0     1     0     1
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     3     1     0     1     0     0     0     1     1     0     3
## X2903     1     1     1     0     0     0     0     0     0     0     0     0
## X2907     0     1     0     0     0     0     0     0     0     1     0     1
## X2915     0     1     0     0     0     0     0     0     0     1     0     1
## X2933     0     1     0     0     0     0     0     0     0     1     0     1
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     1     0     0     0     0     0     0     0     1     0     1
## X3204     0     2     1     0     1     0     0     0     1     1     0     2
## X3205     1     0     1     0     0     0     0     0     0     0     0     0
## X3206     1     1     1     0     0     0     0     0     0     1     0     1
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     1     0     1     0     0     1     0     1     0     0     1     0
## X3209     1     0     1     0     0     0     0     0     0     0     0     0
## X3210     0     1     0     0     0     0     0     0     0     1     0     1
## X3211     1     0     1     0     0     0     0     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     1     1     1     0     0     0     0     0     0     0     0     0
## X3215     1     0     1     0     0     0     0     0     0     0     0     0
## X3302     0     2     1     0     0     0     1     0     0     1     0     1
## X3303     0     1     1     0     1     0     0     0     1     0     0     1
## X3304     0     1     1     0     1     0     0     0     1     0     0     1
## X3305     0     1     1     0     1     0     0     0     1     0     0     1
## X3307     0     1     1     0     1     0     0     0     1     0     0     1
## X3402     0     3     2     0     1     0     1     0     1     1     0     2
## X3403     0     2     1     0     1     0     0     0     1     1     0     2
## X3506     1     3     3     0     1     0     1     0     1     0     0     2
## X3507     0     2     1     0     0     0     1     0     0     1     0     1
## X3605     0     1     0     0     0     0     0     0     0     0     0     1
## X3701     1     0     1     0     0     0     0     0     0     0     0     0
## X3707     1     0     1     0     0     0     0     0     0     0     0     0
## X3802     0     1     0     0     0     0     0     0     0     0     0     0
## X3808     0     1     1     0     1     0     0     0     1     0     0     1
## X3809     0     3     2     1     1     0     0     1     1     2     0     2
## X3810     0     0     0     0     0     1     0     1     0     0     1     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     1     1     1     0     0     0     0     0     0     1     0     1
## X3815     0     1     0     0     0     0     0     0     0     1     0     1
## X3816     0     1     1     0     1     0     0     0     1     0     0     1
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     1     0     0     0     0     0     0     0     0     0     1
## X3902     0     1     0     0     0     0     0     0     0     1     0     1
## X3908     0     2     2     0     1     0     1     0     1     0     0     1
## X3909     0     1     0     0     0     0     0     0     0     1     0     1
## X3910     0     1     0     0     0     0     0     0     0     1     0     1
## X3911     0     1     0     0     0     0     0     0     0     1     0     1
## X3915     0     1     0     0     0     0     0     0     0     1     0     1
## X3916     1     0     1     0     0     0     0     0     0     0     0     0
## X3917     0     3     2     1     1     0     0     1     1     2     0     2
## X3919     1     1     1     0     0     0     0     0     0     1     0     1
## X3920     1     2     1     0     0     0     0     0     0     1     0     2
## X3921     1     1     1     0     0     0     0     0     0     1     0     1
## X3923     0     1     1     0     0     0     1     0     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     1     0     0     0     0     0     0     0     1     0     1
## X3926     0     3     1     0     1     0     0     0     1     1     0     2
## X4001     1     0     1     0     0     0     0     0     0     0     0     0
## X4005     0     1     0     0     0     0     0     0     0     0     0     1
## X4006     0     1     0     0     0     0     0     0     0     0     0     1
## X4008     0     1     1     0     1     0     0     0     1     0     0     1
## X4009     0     1     0     0     0     0     0     0     0     0     0     1
## X4010     0     2     2     1     0     0     1     1     0     1     0     0
```

```
## X4012     0     1     0     0     0     0     0     0     0     0     0     1
## X4013     0     1     0     0     0     0     0     0     0     0     0     1
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     1     0     0     0     0     0     0     0     0     0     1
## X4202     1     1     1     0     0     0     0     0     0     1     0     1
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     2     1     0     0     0     1     0     0     1     0     1
## X4415     0     3     1     0     0     0     1     0     0     1     0     2
## X4416     0     2     1     1     0     0     0     1     0     2     0     1
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     0
## X4421     0     1     1     0     1     0     0     0     1     0     0     1
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     1     0     0     0     0     0     0     0     1     0     1
## X4808     1     2     1     0     0     0     0     0     0     1     0     1
## X4818     1     0     1     0     0     0     0     0     0     0     0     0
## X4819     0     1     1     0     0     0     1     0     0     0     0     0
## X4821     1     1     2     0     0     0     1     0     0     0     0     0
## X4822     0     1     0     0     0     0     0     0     0     1     0     1
## X4823     0     2     0     0     0     0     0     0     0     1     0     1
## X4901     0     1     1     0     1     0     0     0     1     0     0     1
## X4902     0     1     1     0     1     0     0     0     1     0     0     1
## X4907     0     1     1     0     1     0     0     0     1     0     0     1
## X4911     0     2     2     0     1     0     1     0     1     0     0     1
## X5111     0     1     0     0     0     0     0     0     0     1     0     1
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     1     0     1     0     0     0     0     0     0     0     0     0
## X5206     1     0     1     0     0     0     0     0     0     0     0     0
## X5208     1     0     1     0     0     0     0     0     0     0     0     0
## X5209     1     1     2     0     0     0     1     0     0     0     0     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     1     0     1     0     0     0     0     0     0     0     0     0
## X5402     1     1     1     0     0     0     0     0     0     0     0     0
## X5407     1     2     2     0     1     0     0     0     1     1     0     2
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     0
## X5508     0     3     2     0     1     0     1     0     1     0     0     1
## X5509     1     0     1     0     0     0     0     0     0     0     0     0
## X5511     0     0     0     0     0     0     0     0     0     0     0     0
## X5512     0     1     1     0     0     0     1     0     0     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     1     0     1     0     0     0     0     0     0     0     0     0
## X5515     0     1     1     0     0     0     1     0     0     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     1     1     0     1     0     0     0     1     0     0     1
## X5603     0     2     1     0     0     0     1     0     0     1     0     1
## X5609     0     0     0     0     0     0     0     0     0     0     0     0
## X5806     1     1     2     0     0     0     1     0     0     0     0     0
## X5807     1     1     2     0     0     0     1     0     0     0     0     0
## X5903     0     1     0     0     0     0     0     0     0     1     0     1
## X5907     0     1     1     0     0     0     1     0     0     0     0     0
## X5911     1     0     1     0     0     0     0     0     0     0     0     0
## X6002     1     3     3     0     1     0     1     0     1     1     0     2
## X6101     0     1     1     0     0     0     1     0     0     0     0     0
## X6103     1     0     1     0     0     0     0     0     0     0     0     0
## X6104     1     1     2     0     1     0     0     0     1     0     0     1
## X6105     0     1     1     0     0     0     1     0     0     0     0     0
## X6106     1     1     2     0     1     0     0     0     1     0     0     1
## X6107     1     0     1     0     0     0     0     0     0     0     0     0
## X6109     1     0     1     0     0     0     0     0     0     0     0     0
## X6110     0     1     1     0     0     0     1     0     0     0     0     0
## X6111     1     0     1     0     0     0     0     0     0     0     0     0
## X6112     1     1     2     1     0     0     0     1     0     1     0     0
## X6114     1     0     1     0     0     0     0     0     0     0     0     0
## X6115     1     1     2     0     1     0     0     0     1     0     0     1
## X6117     0     1     1     0     0     0     1     0     0     0     0     0
## X6201     1     0     1     0     0     0     0     0     0     0     0     0
## X6202     1     0     1     0     0     0     0     0     0     0     0     0
## X6203     1     1     2     0     0     0     1     0     0     0     0     0
## X6204     1     0     1     0     0     0     0     0     0     0     0     0
## X6205     0     2     2     0     1     0     1     0     1     0     0     1
## X6206     1     1     2     0     1     0     0     0     1     0     0     1
## X6210     1     0     1     0     0     0     0     0     0     0     0     0
## X6211     1     1     2     0     0     0     1     0     0     0     0     0
## X6212     1     2     2     0     0     0     1     0     0     1     0     1
## X6217     1     0     1     0     0     0     0     0     0     0     0     0
## X6302     1     0     1     0     0     0     0     0     0     0     0     0
## X6303     1     0     1     0     0     0     0     0     0     0     0     0
## X6304     1     0     1     0     0     0     0     0     0     0     0     0
```

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## X6305     1     1     1     0     0     0     0     0     0     1     0     1
## X6306     0     1     0     0     0     0     0     0     0     1     0     1
## X6307     1     0     1     0     0     0     0     0     0     0     0     0
## X6401     0     1     1     0     1     0     0     0     1     0     0     1
## X6403     0     1     1     0     1     0     0     0     1     0     0     1
## X6404     0     1     0     0     0     0     0     0     0     1     0     1
##       X8439 X8441 X8445 X8447 X8450 X8451 X8452 X8455 X8456 X8460 X8466 X8467
## X102      0     0     0     0     0     0     0     0     0     0     1     0
## X210      0     0     0     0     1     0     1     0     0     0     1     0
## X401      0     0     0     0     0     0     0     0     0     0     2     0
## X403      0     0     0     0     1     0     1     0     0     0     2     0
## X406      0     0     0     0     1     0     1     0     0     0     2     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     1     0     1     0     1     0     0     0     5     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     0     1     0     0     0     0     0     0     0     4     0
## X712      1     0     0     0     0     0     0     1     0     0     0     1
## X713      0     0     0     0     0     0     0     0     0     0     3     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     0     0     0     0     0     0     0     1     0
## X813      0     0     1     0     0     0     0     0     0     0     1     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     0     0     0
## X1001     0     0     0     0     0     0     0     0     0     0     2     0
## X1003     0     0     0     0     0     0     0     0     0     0     3     0
## X1005     0     0     0     0     0     0     0     0     0     0     0     0
## X1102     0     0     0     0     0     0     0     0     0     0     1     0
## X1108     0     0     0     0     0     0     0     0     0     0     1     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     0     0     0     0     0     0     0     0     1     0
## X1213     0     0     0     0     0     0     0     0     0     0     1     0
## X1214     0     0     1     0     0     1     0     0     0     0     4     0
## X1302     0     0     1     0     0     1     0     0     0     0     4     0
## X1507     0     0     0     0     1     0     1     0     0     0     1     0
## X1514     0     0     0     0     1     0     1     0     0     0     1     0
## X1517     0     0     0     0     0     0     0     0     0     0     2     0
## X1601     0     0     0     0     1     0     1     0     0     0     1     0
## X1602     0     0     0     0     1     0     1     0     0     0     2     0
## X1704     0     0     1     0     0     0     0     0     0     0     2     0
## X1806     0     0     1     0     0     0     0     0     0     0     3     0
## X1901     0     0     1     0     1     0     1     0     0     0     4     0
## X1902     0     0     0     0     1     0     1     0     0     0     1     0
## X1905     0     1     1     1     0     0     0     0     1     1     4     0
## X2001     0     0     0     0     1     0     1     0     0     0     1     0
## X2002     0     0     0     0     1     0     1     0     0     0     1     0
## X2003     0     0     0     0     1     0     1     0     0     0     1     0
## X2004     0     0     0     0     1     0     1     0     0     0     1     0
## X2005     0     0     1     0     1     0     1     0     0     0     3     0
## X2006     0     0     0     0     0     0     0     0     0     0     1     0
## X2007     0     0     0     0     1     0     1     0     0     0     2     0
## X2008     0     0     1     0     0     0     0     0     0     0     4     0
## X2101     0     0     0     0     1     0     1     0     0     0     1     0
## X2102     0     0     0     0     0     0     0     0     0     0     1     0
## X2103     0     0     0     0     1     0     1     0     0     0     1     0
## X2104     0     0     0     0     0     0     0     0     0     0     0     0
## X2106     0     0     0     0     1     0     1     0     0     0     2     0
## X2202     0     0     0     0     1     0     1     0     0     0     2     0
## X2206     0     0     1     0     0     0     0     0     0     0     1     0
## X2208     0     0     0     0     0     1     0     0     0     0     1     0
## X2209     0     0     0     0     1     0     1     0     0     0     1     0
## X2302     0     0     0     0     0     0     0     0     0     0     0     0
## X2309     0     0     0     0     0     0     0     0     0     0     1     0
## X2402     0     0     0     0     0     0     0     0     0     0     1     0
## X2403     0     0     0     0     0     0     0     0     0     0     1     0
## X2507     0     0     1     0     0     0     0     0     0     0     1     0
## X2508     0     0     0     0     0     0     0     0     0     0     2     0
## X2512     0     0     0     0     0     1     0     0     0     0     0     0
## X2517     0     0     1     0     0     0     0     0     0     0     3     0
## X2519     0     0     0     0     0     0     0     0     0     0     1     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     1     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     0     0     0     0     0     0     0     0     0     1     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     0     0     0     0     0     0     0     1     0
```

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## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     0     0
## X2713     0     1     0     1     0     0     0     0     1     1     1     0
## X2714     0     1     0     1     0     0     0     0     1     1     1     0
## X2716     0     0     0     0     0     1     0     0     0     0     2     0
## X2804     0     0     0     0     0     0     0     0     0     0     2     0
## X2811     0     0     0     0     0     0     0     0     0     0     2     0
## X2825     1     0     0     0     0     0     0     1     0     0     0     1
## X2826     0     0     0     0     0     0     0     0     0     0     1     0
## X2832     0     0     0     0     0     0     0     0     0     0     1     0
## X2833     0     0     0     0     0     0     0     0     0     0     1     0
## X2835     0     0     0     0     0     0     0     0     0     0     1     0
## X2836     0     0     0     0     0     0     0     0     0     0     1     0
## X2901     0     0     0     0     0     0     0     0     0     0     2     0
## X2903     0     1     0     1     0     0     0     0     1     1     2     0
## X2907     0     0     0     0     0     0     0     0     0     0     1     0
## X2915     0     0     0     0     0     0     0     0     0     0     1     0
## X2933     0     0     0     0     0     0     0     0     0     0     1     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     0     0     0     0     0     0     0     0     1     0
## X3204     0     0     0     0     0     0     0     0     0     0     2     0
## X3205     0     1     0     1     0     0     0     0     1     1     1     0
## X3206     0     1     0     1     0     0     0     0     1     1     2     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     1     1     0     1     0     0     0     1     1     1     1     1
## X3209     0     1     0     1     0     0     0     0     1     1     1     0
## X3210     0     0     0     0     0     0     0     0     0     0     1     0
## X3211     0     1     0     1     0     0     0     0     1     1     1     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     1     0     1     0     0     0     0     1     1     2     0
## X3215     0     1     0     1     0     0     0     0     1     1     1     0
## X3302     0     0     0     0     1     0     1     0     0     0     2     0
## X3303     0     0     0     0     0     0     0     0     0     0     1     0
## X3304     0     0     0     0     0     0     0     0     0     0     1     0
## X3305     0     0     0     0     0     0     0     0     0     0     1     0
## X3307     0     0     0     0     0     0     0     0     0     0     1     0
## X3402     0     0     0     0     1     0     1     0     0     0     3     0
## X3403     0     0     0     0     0     0     0     0     0     0     3     0
## X3506     0     1     0     1     1     0     1     0     1     1     3     0
## X3507     0     0     0     0     1     0     1     0     0     0     2     0
## X3605     0     0     0     0     0     0     0     0     0     0     0     0
## X3701     0     1     0     1     0     0     0     0     1     1     1     0
## X3707     0     1     0     1     0     0     0     0     1     1     1     0
## X3802     0     0     0     0     0     0     0     0     0     0     1     0
## X3808     0     0     0     0     0     0     0     0     0     0     1     0
## X3809     0     0     0     0     0     0     0     0     0     0     3     0
## X3810     1     0     0     0     0     0     0     1     0     0     0     1
## X3811     0     0     0     0     0     0     0     0     0     0     1     0
## X3814     0     1     0     1     0     0     0     0     1     1     2     0
## X3815     0     0     0     0     0     0     0     0     0     0     1     0
## X3816     0     0     0     0     0     0     0     0     0     0     1     0
## X3819     0     0     0     0     0     0     0     0     0     0     1     0
## X3820     0     0     0     0     0     0     0     0     0     0     1     0
## X3823     0     0     0     0     0     0     0     0     0     0     0     0
## X3902     0     0     0     0     0     0     0     0     0     0     1     0
## X3908     0     0     0     0     1     0     1     0     0     0     2     0
## X3909     0     0     0     0     0     0     0     0     0     0     1     0
## X3910     0     0     0     0     0     0     0     0     0     0     1     0
## X3911     0     0     0     0     0     0     0     0     0     0     1     0
## X3915     0     0     0     0     0     0     0     0     0     0     1     0
## X3916     0     1     0     1     0     0     0     0     1     1     1     0
## X3917     0     0     1     0     0     0     0     0     0     0     4     0
## X3919     0     1     0     1     0     0     0     0     1     1     2     0
## X3920     0     1     0     1     0     0     0     0     1     1     2     0
## X3921     0     1     0     1     0     0     0     0     1     1     3     0
## X3923     0     0     1     0     1     0     1     0     0     0     2     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     0     0     0     0     0     0     0     0     1     0
## X3926     0     0     0     0     0     0     0     0     0     0     4     0
## X4001     0     1     0     1     0     0     0     0     1     1     1     0
## X4005     0     0     0     0     0     0     0     0     0     0     0     0
## X4006     0     0     0     0     0     0     0     0     0     0     0     0
## X4008     0     0     0     0     0     0     0     0     0     0     1     0
## X4009     0     0     0     0     0     0     0     0     0     0     0     0
## X4010     0     0     1     0     1     0     1     0     0     0     3     0
## X4012     0     0     0     0     0     0     0     0     0     0     0     0
## X4013     0     0     0     0     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     1     0
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## X4016     0     0     0     0     0     0     0     0     0     0     1     0
## X4202     0     1     0     1     0     0     0     0     1     1     2     0
## X4203     0     0     0     0     0     0     0     0     0     0     1     0
## X4409     0     0     1     0     1     0     1     0     0     0     3     0
## X4415     0     0     0     0     1     0     1     0     0     0     2     0
## X4416     0     0     1     0     0     1     0     0     0     0     3     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     1     0     0     0     0     0     0     0     1     0
## X4421     0     0     1     0     0     0     0     0     0     0     2     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     0     0     0     0     0     0     0     1     0
## X4808     0     1     0     1     0     0     0     0     1     1     3     0
## X4818     0     1     0     1     0     0     0     0     1     1     1     0
## X4819     0     0     0     0     1     0     1     0     0     0     1     0
## X4821     0     1     0     1     1     0     1     0     1     1     2     0
## X4822     0     0     0     0     0     0     0     0     0     0     1     0
## X4823     0     0     0     0     0     0     0     0     0     0     2     0
## X4901     0     0     0     0     0     0     0     0     0     0     1     0
## X4902     0     0     0     0     0     0     0     0     0     0     1     0
## X4907     0     0     0     0     0     0     0     0     0     0     1     0
## X4911     0     0     0     0     1     0     1     0     0     0     2     0
## X5111     0     0     0     0     0     1     0     0     0     0     1     0
## X5112     0     0     0     0     0     1     0     0     0     0     0     0
## X5205     0     1     0     1     0     0     0     0     1     1     1     0
## X5206     0     1     0     1     0     0     0     0     1     1     1     0
## X5208     0     1     0     1     0     0     0     0     1     1     1     0
## X5209     0     1     0     1     1     0     1     0     1     1     2     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     1     0     1     0     0     0     0     1     1     1     0
## X5402     0     1     0     1     0     0     0     0     1     1     2     0
## X5407     0     1     0     1     0     0     0     0     1     1     3     0
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     1     0     0     0     0     0     0     0     1     0
## X5508     0     0     0     0     1     0     1     0     0     0     3     0
## X5509     0     1     1     1     0     0     0     0     1     1     2     0
## X5511     0     0     1     0     0     0     0     0     0     0     1     0
## X5512     0     0     1     0     1     0     1     0     0     0     2     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     1     0     1     0     0     0     0     1     1     1     0
## X5515     0     0     0     0     1     1     1     0     0     0     1     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     0     0     0     0     0     0     0     0     0     1     0
## X5603     0     0     0     0     1     0     1     0     0     0     2     0
## X5609     0     0     1     0     0     0     0     0     0     0     1     0
## X5806     0     1     0     1     1     0     1     0     1     1     2     0
## X5807     0     1     0     1     1     0     1     0     1     1     2     0
## X5903     0     0     0     0     0     0     0     0     0     0     1     0
## X5907     0     0     0     0     1     0     1     0     0     0     1     0
## X5911     0     1     1     1     0     1     0     0     1     1     2     0
## X6002     0     1     0     1     1     0     1     0     1     1     4     0
## X6101     0     0     0     0     1     0     1     0     0     0     1     0
## X6103     0     1     0     1     0     0     0     0     1     1     1     0
## X6104     0     1     0     1     0     0     0     0     1     1     2     0
## X6105     0     0     0     0     1     0     1     0     0     0     1     0
## X6106     0     1     0     1     0     0     0     0     1     1     2     0
## X6107     0     1     0     1     0     0     0     0     1     1     1     0
## X6109     0     1     0     1     0     0     0     0     1     1     1     0
## X6110     0     0     1     0     1     0     1     0     0     0     2     0
## X6111     0     1     0     1     0     0     0     0     1     1     1     0
## X6112     0     1     0     1     0     0     0     0     1     1     2     0
## X6114     0     1     1     1     0     1     0     0     1     1     2     0
## X6115     0     1     0     1     0     0     0     0     1     1     2     0
## X6117     0     0     0     0     1     0     1     0     0     0     1     0
## X6201     0     1     0     1     0     0     0     0     1     1     1     0
## X6202     0     1     0     1     0     0     0     0     1     1     1     0
## X6203     0     1     0     1     1     0     1     0     1     1     2     0
## X6204     0     1     0     1     0     0     0     0     1     1     1     0
## X6205     0     0     0     0     1     0     1     0     0     0     2     0
## X6206     0     1     1     1     0     0     0     0     1     1     3     0
## X6210     0     1     0     1     0     0     0     0     1     1     1     0
## X6211     0     1     0     1     1     0     1     0     1     1     3     0
## X6212     0     1     0     1     1     0     1     0     1     1     4     0
## X6217     0     1     0     1     0     0     0     0     1     1     1     0
## X6302     0     1     0     1     0     0     0     0     1     1     1     0
## X6303     0     1     0     1     0     0     0     0     1     1     1     0
## X6304     0     1     0     1     0     0     0     0     1     1     1     0
## X6305     0     1     0     1     0     0     0     0     1     1     2     0
## X6306     0     0     0     0     0     0     0     0     0     0     1     0
## X6307     0     1     0     1     0     0     0     0     1     1     2     0
```

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## X6401     0     0     0     0     0     0     0     0     0     0     1     0
## X6403     0     0     0     0     0     0     0     0     0     0     2     0
## X6404     0     0     0     0     0     0     0     0     0     0     1     0
##       X8468 X8471 X8474 X8475 X8477 X8479 X8480 X8481 X8483 X8484 X8485 X8501
## X102      0     0     0     0     0     0     0     0     1     0     1     1
## X210      1     1     0     1     1     0     0     0     0     0     1     0
## X401      0     0     1     0     0     1     0     1     1     0     1     2
## X403      1     1     0     1     1     0     0     0     1     0     2     1
## X406      0     1     0     1     0     0     0     0     0     0     1     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     1     0     2     0     1     0     0     1     0     3     1
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     0     1     2     0     3     0     2     3     0     1     1
## X712      0     0     0     0     0     1     1     0     0     1     0     1
## X713      0     0     1     2     0     2     0     2     3     0     1     1
## X804      0     0     0     0     0     0     0     0     0     0     1     0
## X805      0     0     0     0     0     0     0     0     0     0     1     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     0     0     0     0     0     1     0     1     1
## X813      0     0     0     0     0     1     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      1     0     0     0     1     0     0     0     0     0     0     0
## X1001     0     0     0     1     0     1     0     1     1     0     0     0
## X1003     0     0     1     0     0     1     0     1     1     0     1     2
## X1005     0     0     0     0     0     0     0     0     0     0     1     0
## X1102     0     0     1     0     0     1     0     1     0     0     0     1
## X1108     0     0     1     0     0     1     0     1     0     0     0     1
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     1     0     0     1     0     1     0     0     0     1
## X1213     0     0     0     2     0     1     0     1     2     0     0     0
## X1214     0     0     1     2     0     4     0     2     3     0     0     1
## X1302     0     0     1     2     0     4     0     2     2     0     1     1
## X1507     0     1     0     1     0     0     0     0     0     0     1     0
## X1514     0     1     0     1     0     0     0     0     0     0     1     0
## X1517     0     0     1     0     0     1     0     1     1     0     1     2
## X1601     1     1     0     1     1     0     0     0     0     0     1     0
## X1602     1     1     0     1     1     0     0     0     1     0     2     1
## X1704     1     0     0     0     1     1     0     0     1     0     1     1
## X1806     1     0     1     0     1     2     0     1     1     0     1     2
## X1901     0     1     1     1     0     2     0     1     1     0     2     2
## X1902     0     1     0     1     0     0     0     0     0     0     1     0
## X1905     0     0     1     0     0     2     0     1     1     0     1     2
## X2001     0     1     0     1     0     0     0     0     0     0     1     0
## X2002     0     1     0     1     0     0     0     0     0     0     1     0
## X2003     0     1     0     1     0     0     0     0     0     0     1     0
## X2004     0     1     0     1     0     0     0     0     0     0     1     0
## X2005     0     1     0     1     0     1     0     0     1     0     2     1
## X2006     0     0     0     0     0     0     0     0     1     0     1     1
## X2007     0     1     0     1     0     0     0     0     1     0     2     1
## X2008     1     0     1     0     1     2     0     1     1     0     1     2
## X2101     0     1     0     1     0     0     0     0     0     0     1     0
## X2102     1     0     0     0     1     0     0     0     1     0     1     1
## X2103     1     1     0     1     1     0     0     0     0     0     1     0
## X2104     1     0     0     0     1     0     0     0     0     0     0     0
## X2106     1     1     1     1     1     1     0     1     0     0     1     1
## X2202     0     1     1     1     0     1     0     1     0     0     1     1
## X2206     0     0     0     0     0     1     0     0     0     0     0     0
## X2208     0     0     0     0     0     1     0     0     1     0     1     1
## X2209     0     1     0     1     0     0     0     0     0     0     1     0
## X2302     1     0     0     0     1     0     0     0     0     0     0     0
## X2309     0     0     1     0     0     1     0     1     0     0     0     1
## X2402     0     0     0     0     0     0     0     0     1     0     1     1
## X2403     0     0     0     0     0     0     0     0     1     0     1     1
## X2507     0     0     0     0     0     1     0     0     0     0     0     0
## X2508     0     0     1     0     0     1     0     1     1     0     1     2
## X2512     0     0     0     0     0     1     0     0     0     0     0     0
## X2517     0     0     1     0     0     2     0     1     2     0     1     2
## X2519     0     0     1     0     0     1     0     1     0     0     0     1
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     1     0     0     1     0     1     1     0     0     1
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     0     0     0     0     0     0     0     1     0     1     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     0     0     0     0     0     1     0     1     1
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     1     0     0     0     1     0     0     0     0     0     0     0
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## X2713     0     0     0     0     0     0     0     0     0     0     0     0
## X2714     0     0     0     0     0     0     0     0     0     0     0     0
## X2716     0     0     0     1     0     2     0     1     2     0     1     1
## X2804     1     0     1     0     1     1     0     1     1     0     1     2
## X2811     1     0     1     0     1     1     0     1     1     0     1     2
## X2825     0     0     0     0     0     1     1     0     0     1     0     1
## X2826     0     0     1     0     0     1     0     1     0     0     0     1
## X2832     0     0     1     0     0     1     0     1     0     0     0     1
## X2833     0     0     1     0     0     1     0     1     0     0     0     1
## X2835     0     0     1     0     0     1     0     1     0     0     0     1
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     1     0     1     0     1     1     0     1     1     0     1     2
## X2903     0     0     0     1     0     1     0     1     1     0     0     0
## X2907     0     0     1     0     0     1     0     1     0     0     0     1
## X2915     0     0     1     0     0     1     0     1     0     0     0     1
## X2933     0     0     1     0     0     1     0     1     0     0     0     1
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     1     0     0     1     0     1     0     0     0     1
## X3204     0     0     1     0     0     1     0     1     1     0     1     2
## X3205     0     0     0     0     0     0     0     0     0     0     0     0
## X3206     0     0     1     0     0     1     0     1     0     0     0     1
## X3207     0     0     0     1     0     0     0     0     0     0     0     0
## X3208     0     0     0     1     0     1     1     0     0     1     0     1
## X3209     0     0     0     0     0     0     0     0     0     0     0     0
## X3210     0     0     1     0     0     1     0     1     0     0     0     1
## X3211     0     0     0     0     0     0     0     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     0     1     0     1     0     1     1     0     0     0
## X3215     0     0     0     0     0     0     0     0     0     0     0     0
## X3302     0     1     1     1     0     1     0     1     0     0     1     1
## X3303     0     0     0     0     0     0     0     0     1     0     1     1
## X3304     0     0     0     0     0     0     0     0     1     0     1     1
## X3305     0     0     0     0     0     0     0     0     1     0     1     1
## X3307     0     0     0     0     0     0     0     0     1     0     1     1
## X3402     0     1     1     1     0     1     0     1     1     0     2     2
## X3403     0     0     1     0     0     1     0     1     1     0     1     2
## X3506     1     1     0     1     1     0     0     0     1     0     2     1
## X3507     0     1     1     1     0     1     0     1     0     0     1     1
## X3605     1     0     0     0     1     0     0     0     0     0     0     0
## X3701     0     0     0     0     0     0     0     0     0     0     0     0
## X3707     0     0     0     0     0     0     0     0     0     0     0     0
## X3802     0     0     0     1     0     1     0     1     1     0     0     0
## X3808     0     0     0     0     0     0     0     0     1     0     1     1
## X3809     0     0     2     0     0     2     0     2     2     0     1     3
## X3810     0     0     0     0     0     1     1     0     0     1     0     1
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     0     1     0     0     1     0     1     0     0     0     1
## X3815     0     0     1     0     0     1     0     1     0     0     0     1
## X3816     0     0     0     0     0     0     0     0     1     0     1     1
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     1     0     0     0     1     0     0     0     0     0     0     0
## X3902     0     0     1     0     0     1     0     1     0     0     0     1
## X3908     0     1     0     1     0     0     0     0     1     0     2     1
## X3909     0     0     1     0     0     1     0     1     0     0     0     1
## X3910     0     0     1     0     0     1     0     1     0     0     0     1
## X3911     0     0     1     0     0     1     0     1     0     0     0     1
## X3915     0     0     1     0     0     1     0     1     0     0     0     1
## X3916     0     0     0     0     0     0     0     0     0     0     0     0
## X3917     0     0     2     0     0     3     0     2     2     0     1     3
## X3919     0     0     1     0     0     1     0     1     0     0     0     1
## X3920     1     0     1     0     1     1     0     1     0     0     0     1
## X3921     0     0     1     0     0     1     0     1     0     0     0     1
## X3923     0     1     0     1     0     1     0     0     0     0     1     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     1     0     0     1     0     1     0     0     0     1
## X3926     0     0     1     1     0     2     0     2     2     0     1     2
## X4001     0     0     0     0     0     0     0     0     0     0     0     0
## X4005     1     0     0     0     1     0     0     0     0     0     0     0
## X4006     1     0     0     0     1     0     0     0     0     0     0     0
## X4008     0     0     0     0     0     0     0     0     1     0     1     1
## X4009     1     0     0     0     1     0     0     0     0     0     0     0
## X4010     0     1     1     1     0     2     0     1     1     0     1     1
## X4012     1     0     0     0     1     0     0     0     0     0     0     0
## X4013     1     0     0     0     1     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     1     0     0     0     1     0     0     0     0     0     0     0
## X4202     0     0     1     0     0     1     0     1     0     0     0     1
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
```

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## X4409     0     1     1     1     0     2     0     1     0     0     1     1
## X4415     1     1     1     1     1     1     0     1     0     0     1     1
## X4416     0     0     2     0     0     4     0     2     1     0     0     2
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     0     1     0     0     0     0     0     0
## X4421     0     0     0     0     0     1     0     0     1     0     1     1
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     1     0     0     1     0     1     0     0     0     1
## X4808     0     0     1     1     0     2     0     2     1     0     0     1
## X4818     0     0     0     0     0     0     0     0     0     0     0     0
## X4819     0     1     0     1     0     0     0     0     0     0     1     0
## X4821     0     1     0     1     0     0     0     0     0     0     1     0
## X4822     0     0     1     0     0     1     0     1     0     0     0     1
## X4823     0     0     1     1     0     2     0     2     1     0     0     1
## X4901     0     0     0     0     0     0     0     0     1     0     1     1
## X4902     0     0     0     0     0     0     0     0     1     0     1     1
## X4907     0     0     0     0     0     0     0     0     1     0     1     1
## X4911     0     1     0     1     0     0     0     0     1     0     2     1
## X5111     0     0     1     0     0     2     0     1     0     0     0     1
## X5112     0     0     0     0     0     1     0     0     0     0     0     0
## X5205     0     0     0     0     0     0     0     0     0     0     0     0
## X5206     0     0     0     0     0     0     0     0     0     0     0     0
## X5208     0     0     0     0     0     0     0     0     0     0     0     0
## X5209     0     1     0     1     0     0     0     0     0     0     1     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     0     0     0     0     0     0     0     0     0     0     0
## X5402     0     0     0     1     0     1     0     1     1     0     0     0
## X5407     0     0     1     0     0     1     0     1     1     0     1     2
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     1     0     0     0     0     0     0
## X5508     0     1     0     2     0     1     0     1     2     0     2     1
## X5509     0     0     0     0     0     1     0     0     0     0     0     0
## X5511     0     0     0     0     0     1     0     0     0     0     0     0
## X5512     0     1     0     1     0     1     0     0     0     0     1     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     0     0     0     0     0     0     0     0     0     0     0
## X5515     0     1     0     1     0     1     0     0     0     0     1     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     0     0     0     0     0     0     0     1     0     1     1
## X5603     0     1     1     1     0     1     0     1     0     0     1     1
## X5609     0     0     0     0     0     1     0     0     0     0     0     0
## X5806     0     1     0     1     0     0     0     0     0     0     1     0
## X5807     0     1     0     1     0     0     0     0     0     0     1     0
## X5903     0     0     1     0     0     1     0     1     0     0     0     1
## X5907     0     1     0     1     0     0     0     0     0     0     1     0
## X5911     0     0     0     0     0     2     0     0     0     0     0     0
## X6002     0     1     1     1     0     1     0     1     1     0     2     2
## X6101     0     1     0     1     0     0     0     0     0     0     1     0
## X6103     0     0     0     0     0     0     0     0     0     0     0     0
## X6104     0     0     0     0     0     0     0     0     1     0     1     1
## X6105     0     1     0     1     0     0     0     0     0     0     1     0
## X6106     0     0     0     0     0     0     0     0     1     0     1     1
## X6107     0     0     0     0     0     0     0     0     0     0     0     0
## X6109     0     0     0     0     0     0     0     0     0     0     0     0
## X6110     0     1     0     1     0     1     0     0     0     0     1     0
## X6111     0     0     0     0     0     0     0     0     0     0     0     0
## X6112     0     0     1     0     0     1     0     1     1     0     0     1
## X6114     0     0     0     0     0     2     0     0     0     0     0     0
## X6115     0     0     0     0     0     0     0     0     1     0     1     1
## X6117     0     1     0     1     0     0     0     0     0     0     1     0
## X6201     0     0     0     0     0     0     0     0     0     0     0     0
## X6202     0     0     0     0     0     0     0     0     0     0     0     0
## X6203     0     1     0     1     0     0     0     0     0     0     1     0
## X6204     0     0     0     0     0     0     0     0     0     0     0     0
## X6205     0     1     0     1     0     0     0     0     1     0     2     1
## X6206     0     0     0     0     0     1     0     0     1     0     1     1
## X6210     0     0     0     0     0     0     0     0     0     0     0     0
## X6211     0     1     0     1     0     0     0     0     0     0     1     0
## X6212     0     1     1     1     0     1     0     1     0     0     1     1
## X6217     0     0     0     0     0     0     0     0     0     0     0     0
## X6302     0     0     0     0     0     0     0     0     0     0     0     0
## X6303     0     0     0     0     0     0     0     0     0     0     0     0
## X6304     0     0     0     0     0     0     0     0     0     0     0     0
## X6305     0     0     1     0     0     1     0     1     0     0     0     1
## X6306     0     0     1     0     0     1     0     1     0     0     0     1
## X6307     0     0     0     0     0     0     0     0     0     0     0     0
## X6401     0     0     0     0     0     0     0     0     1     0     1     1
## X6403     0     0     0     0     0     0     0     0     1     0     1     1
## X6404     0     0     1     0     0     1     0     1     0     0     0     1
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```
##       X8503 X8504 X8509 X8511 X8512 X8514 X8515 X8516 X8517 X8518 X8519 X8521
## X102      1     0     0     1     0     0     1     1     1     0     0     1
## X210      0     0     0     0     0     0     1     0     1     0     0     0
## X401      2     1     1     1     1     1     2     2     1     0     1     1
## X403      2     0     0     1     0     0     2     1     2     0     0     1
## X406      0     0     0     0     0     0     0     0     1     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      3     0     0     1     0     0     1     1     2     0     0     1
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      2     0     0     0     0     0     0     1     0     0     0     0
## X712      0     0     0     0     0     1     0     0     0     0     0     0
## X713      3     0     0     0     0     0     0     1     0     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      1     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      1     0     0     1     0     0     1     1     1     0     0     1
## X813      0     0     0     0     0     0     0     0     0     0     0     0
## X901      1     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     1     0     0     0     0     0
## X1001     2     0     0     0     0     0     0     1     0     0     0     0
## X1003     2     1     1     1     1     1     2     2     1     0     1     1
## X1005     0     0     0     0     0     0     0     0     0     0     0     0
## X1102     1     1     1     0     1     1     1     1     0     0     1     0
## X1108     1     1     1     0     1     1     1     1     0     0     1     0
## X1202     1     0     0     0     0     0     0     0     0     0     0     0
## X1208     1     1     1     0     1     1     1     1     0     0     1     0
## X1213     4     0     0     0     0     0     0     1     0     0     0     0
## X1214     3     0     0     0     0     0     0     1     0     0     0     0
## X1302     3     0     0     0     0     0     0     1     0     0     0     0
## X1507     0     0     0     0     0     0     0     0     1     0     0     0
## X1514     0     0     0     0     0     0     0     0     1     0     0     0
## X1517     2     1     1     1     1     1     2     2     1     0     1     1
## X1601     0     0     0     0     0     0     1     0     1     0     0     0
## X1602     1     0     0     1     0     0     2     1     2     0     0     1
## X1704     2     0     0     1     0     0     2     1     1     0     0     1
## X1806     3     1     1     1     1     1     3     2     1     0     1     1
## X1901     3     1     1     1     1     1     2     2     2     0     1     1
## X1902     0     0     0     0     0     0     0     0     1     0     0     0
## X1905     3     2     1     2     1     1     2     2     1     1     1     1
## X2001     0     0     0     0     0     0     0     0     1     0     0     0
## X2002     0     0     0     0     0     0     0     0     1     0     0     0
## X2003     0     0     0     0     0     0     0     0     1     0     0     0
## X2004     0     0     0     0     0     0     0     0     1     0     0     0
## X2005     2     0     0     1     0     0     1     1     2     0     0     1
## X2006     1     0     0     1     0     0     1     1     1     0     0     1
## X2007     1     0     0     1     0     0     1     1     2     0     0     1
## X2008     3     1     1     1     1     1     3     2     1     0     1     1
## X2101     0     0     0     0     0     0     0     0     1     0     0     0
## X2102     1     0     0     1     0     0     2     1     1     0     0     1
## X2103     0     0     0     0     0     0     1     0     1     0     0     0
## X2104     0     0     0     0     0     0     1     0     0     0     0     0
## X2106     1     1     1     0     1     1     2     1     1     0     1     0
## X2202     1     1     1     0     1     1     1     1     1     0     1     0
## X2206     0     0     0     0     0     0     0     0     0     0     0     0
## X2208     2     0     0     1     0     0     1     1     1     0     0     1
## X2209     0     0     0     0     0     0     0     0     1     0     0     0
## X2302     0     0     0     0     0     0     1     0     0     0     0     0
## X2309     1     1     1     0     1     1     1     1     0     0     1     0
## X2402     1     0     0     1     0     0     1     1     1     0     0     1
## X2403     1     0     0     1     0     0     1     1     1     0     0     1
## X2507     1     0     0     0     0     0     0     0     0     0     0     0
## X2508     2     1     1     1     1     1     2     2     1     0     1     1
## X2512     1     0     0     0     0     0     0     0     0     0     0     0
## X2517     2     0     0     1     0     0     1     1     1     0     0     1
## X2519     1     1     1     0     1     1     1     1     0     0     1     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     1     0     0     0     0     0     0     0     0     0     0     0
## X2530     2     0     0     1     0     0     1     1     1     0     0     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     1     0     0     1     0     0     1     1     1     0     0     1
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     1     0     0     0     0     0
## X2713     0     1     0     1     0     0     0     0     0     1     0     0
## X2714     0     1     0     1     0     0     0     0     0     1     0     0
## X2716     6     0     0     1     0     0     1     2     1     0     0     1
```

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## X2804     2     1     1     1     1     1     3     2     1     0     1     1
## X2811     2     1     1     1     1     1     3     2     1     0     1     1
## X2825     0     0     0     0     0     1     0     0     0     0     0     0
## X2826     1     1     1     0     1     1     1     1     0     0     1     0
## X2832     1     1     1     0     1     1     1     1     0     0     1     0
## X2833     1     1     1     0     1     1     1     1     0     0     1     0
## X2835     1     1     1     0     1     1     1     1     0     0     1     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     2     1     1     1     1     1     3     2     1     0     1     1
## X2903     1     1     0     1     0     0     0     1     0     1     0     0
## X2907     1     1     1     0     1     1     1     1     0     0     1     0
## X2915     1     1     1     0     1     1     1     1     0     0     1     0
## X2933     1     1     1     0     1     1     1     1     0     0     1     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     1     1     1     0     1     1     1     1     0     0     1     0
## X3204     2     1     1     1     1     1     2     2     1     0     1     1
## X3205     0     1     0     1     0     0     0     0     0     1     0     0
## X3206     1     2     1     1     1     1     1     1     0     1     1     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     1     0     1     0     1     0     0     0     1     0     0
## X3209     0     1     0     1     0     0     0     0     0     1     0     0
## X3210     1     1     1     0     1     1     1     1     0     0     1     0
## X3211     0     1     0     1     0     0     0     0     0     1     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     1     1     0     1     0     0     0     1     0     1     0     0
## X3215     0     1     0     1     0     0     0     0     0     1     0     0
## X3302     1     1     1     0     1     1     1     1     1     0     1     0
## X3303     1     0     0     1     0     0     1     1     1     0     0     1
## X3304     1     0     0     1     0     0     1     1     1     0     0     1
## X3305     2     0     0     1     0     0     1     1     1     0     0     1
## X3307     1     0     0     1     0     0     1     1     1     0     0     1
## X3402     3     1     1     1     1     1     2     2     2     0     1     1
## X3403     2     1     1     1     1     1     2     2     1     0     1     1
## X3506     1     1     0     2     0     0     2     1     2     1     0     1
## X3507     1     1     1     0     1     1     1     1     1     0     1     0
## X3605     0     0     0     0     0     0     1     0     0     0     0     0
## X3701     0     1     0     1     0     0     0     0     0     1     0     0
## X3707     0     1     0     1     0     0     0     0     0     1     0     0
## X3802     1     0     0     0     0     0     0     1     0     0     0     0
## X3808     1     0     0     1     0     0     1     1     1     0     0     1
## X3809     3     1     1     1     1     1     2     2     1     0     1     1
## X3810     0     0     0     0     0     1     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     1     2     1     1     1     1     1     1     0     1     1     0
## X3815     1     1     1     0     1     1     1     1     0     0     1     0
## X3816     1     0     0     1     0     0     1     1     1     0     0     1
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     1     0     0     0     0     0
## X3902     1     1     1     0     1     1     1     1     0     0     1     0
## X3908     1     0     0     1     0     0     1     1     2     0     0     1
## X3909     1     1     1     0     1     1     1     1     0     0     1     0
## X3910     1     1     1     0     1     1     1     1     0     0     1     0
## X3911     1     1     1     0     1     1     1     1     0     0     1     0
## X3915     1     1     1     0     1     1     1     1     0     0     1     0
## X3916     0     1     0     1     0     0     0     0     0     1     0     0
## X3917     2     1     1     1     1     1     2     2     1     0     1     1
## X3919     1     2     1     1     1     1     1     1     0     1     1     0
## X3920     1     2     1     1     1     1     2     1     0     1     1     0
## X3921     1     2     1     1     1     1     1     1     0     1     1     0
## X3923     0     0     0     0     0     0     0     0     1     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     1     1     1     0     1     1     1     1     0     0     1     0
## X3926     3     1     1     1     1     1     2     3     1     0     1     1
## X4001     0     1     0     1     0     0     0     0     0     1     0     0
## X4005     0     0     0     0     0     0     1     0     0     0     0     0
## X4006     0     0     0     0     0     0     1     0     0     0     0     0
## X4008     1     0     0     1     0     0     1     1     1     0     0     1
## X4009     0     0     0     0     0     0     1     0     0     0     0     0
## X4010     0     0     0     0     0     0     0     0     1     0     0     0
## X4012     0     0     0     0     0     0     1     0     0     0     0     0
## X4013     0     0     0     0     0     0     1     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     1     0     0     0     0     0
## X4202     1     2     1     1     1     1     1     1     0     1     1     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     1     1     1     0     1     1     1     1     1     0     1     0
## X4415     1     1     1     0     1     1     2     1     1     0     1     0
## X4416     2     1     1     0     1     1     1     1     0     0     1     0
```

```
## X4418     1     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     0
## X4421     1     0     0     1     0     0     1     1     1     0     0     1
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     1     1     1     0     1     1     1     1     0     0     1     0
## X4808     2     2     1     1     1     1     1     2     0     1     1     0
## X4818     0     1     0     1     0     0     0     0     0     1     0     0
## X4819     0     0     0     0     0     0     0     0     1     0     0     0
## X4821     0     1     0     1     0     0     0     0     1     1     0     0
## X4822     1     1     1     0     1     1     1     1     0     0     1     0
## X4823     2     1     1     0     1     1     1     2     0     0     1     0
## X4901     1     0     0     1     0     0     1     1     1     0     0     1
## X4902     1     0     0     1     0     0     1     1     1     0     0     1
## X4907     1     0     0     1     0     0     1     1     1     0     0     1
## X4911     1     0     0     1     0     0     1     1     2     0     0     1
## X5111     2     1     1     0     1     1     1     1     0     0     1     0
## X5112     1     0     0     0     0     0     0     0     0     0     0     0
## X5205     0     1     0     1     0     0     0     0     0     1     0     0
## X5206     0     1     0     1     0     0     0     0     0     1     0     0
## X5208     0     1     0     1     0     0     0     0     0     1     0     0
## X5209     0     1     0     1     0     0     0     0     1     1     0     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     1     0     1     0     0     0     0     0     1     0     0
## X5402     1     1     0     1     0     0     0     1     0     1     0     0
## X5407     2     2     1     2     1     1     2     2     1     1     1     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     0
## X5508     2     0     0     1     0     0     1     2     2     0     0     1
## X5509     0     1     0     1     0     0     0     0     0     1     0     0
## X5511     0     0     0     0     0     0     0     0     0     0     0     0
## X5512     0     0     0     0     0     0     0     0     1     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     1     0     1     0     0     0     0     0     1     0     0
## X5515     1     0     0     0     0     0     0     0     1     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     1     0     0     1     0     0     1     1     1     0     0     1
## X5603     1     1     1     0     1     1     1     1     1     0     1     0
## X5609     0     0     0     0     0     0     0     0     0     0     0     0
## X5806     0     1     0     1     0     0     0     0     1     1     0     0
## X5807     0     1     0     1     0     0     0     0     1     1     0     0
## X5903     1     1     1     0     1     1     1     1     0     0     1     0
## X5907     0     0     0     0     0     0     0     0     1     0     0     0
## X5911     1     1     0     1     0     0     0     0     0     1     0     0
## X6002     2     2     1     2     1     1     2     2     2     1     1     1
## X6101     0     0     0     0     0     0     0     0     1     0     0     0
## X6103     0     1     0     1     0     0     0     0     0     1     0     0
## X6104     1     1     0     2     0     0     1     1     1     1     0     1
## X6105     0     0     0     0     0     0     0     0     1     0     0     0
## X6106     1     1     0     2     0     0     1     1     1     1     0     1
## X6107     0     1     0     1     0     0     0     0     0     1     0     0
## X6109     0     1     0     1     0     0     0     0     0     1     0     0
## X6110     0     0     0     0     0     0     0     0     1     0     0     0
## X6111     0     1     0     1     0     0     0     0     0     1     0     0
## X6112     0     1     0     1     0     0     0     0     0     1     0     0
## X6114     2     1     0     1     0     0     0     0     0     1     0     0
## X6115     1     1     0     2     0     0     1     1     1     1     0     1
## X6117     0     0     0     0     0     0     0     0     1     0     0     0
## X6201     0     1     0     1     0     0     0     0     0     1     0     0
## X6202     0     1     0     1     0     0     0     0     0     1     0     0
## X6203     0     1     0     1     0     0     0     0     1     1     0     0
## X6204     0     1     0     1     0     0     0     0     0     1     0     0
## X6205     1     0     0     1     0     0     1     1     2     0     0     1
## X6206     1     1     0     2     0     0     1     1     1     1     0     1
## X6210     0     1     0     1     0     0     0     0     0     1     0     0
## X6211     0     1     0     1     0     0     0     0     1     1     0     0
## X6212     2     2     1     1     1     1     1     1     1     1     1     0
## X6217     0     1     0     1     0     0     0     0     0     1     0     0
## X6302     0     1     0     1     0     0     0     0     0     1     0     0
## X6303     0     1     0     1     0     0     0     0     0     1     0     0
## X6304     0     1     0     1     0     0     0     0     0     1     0     0
## X6305     1     2     1     1     1     1     1     1     0     1     1     0
## X6306     1     1     1     0     1     1     1     1     0     0     1     0
## X6307     0     1     0     1     0     0     0     0     0     1     0     0
## X6401     1     0     0     1     0     0     1     1     1     0     0     1
## X6403     1     0     0     1     0     0     1     1     1     0     0     1
## X6404     1     1     1     0     1     1     1     1     0     0     1     0
##       X8523 X8525 X8526 X8529 X8531 X8532 X8533 X8535 X8536 X8537 X8538 X8541
## X102      0     1     1     1     0     0     0     0     0     0     0     0
## X210      0     0     0     1     0     0     0     0     0     0     1     1
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## X401      0     1     1     1     1     0     1     1     1     1     1     0
## X403      0     1     1     2     0     0     0     0     0     0     1     1
## X406      0     0     0     1     0     0     0     0     0     0     1     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     1     1     2     0     0     0     0     0     0     1     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      1     0     1     0     0     0     0     0     2     1     1     1
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      1     0     1     0     0     0     0     0     2     1     1     1
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     1     1     1     0     0     0     0     0     0     0     0
## X813      0     0     0     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     0     0     1
## X1001     0     0     0     0     0     0     0     0     1     1     1     1
## X1003     0     1     1     1     1     0     1     1     1     1     1     0
## X1005     0     0     0     0     0     0     0     0     0     0     0     1
## X1102     0     0     0     0     1     0     1     1     1     1     1     0
## X1108     0     0     0     0     1     0     1     1     1     1     1     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     0     0     1     0     1     1     1     1     1     0
## X1213     0     0     0     0     0     0     0     0     1     1     1     1
## X1214     1     0     1     0     0     0     0     0     2     1     1     1
## X1302     1     0     1     0     0     0     0     0     2     1     1     1
## X1507     0     0     0     1     0     0     0     0     0     0     1     0
## X1514     0     0     0     1     0     0     0     0     0     0     1     0
## X1517     0     1     1     1     1     0     1     1     1     1     1     0
## X1601     0     0     0     1     0     0     0     0     0     0     1     1
## X1602     0     1     1     2     0     0     0     0     0     0     1     1
## X1704     0     1     1     1     0     0     0     0     0     0     0     1
## X1806     0     1     1     1     1     0     1     1     1     1     1     1
## X1901     0     1     1     2     1     0     1     1     1     1     2     0
## X1902     0     0     0     1     0     0     0     0     0     0     1     0
## X1905     1     1     1     1     1     1     2     2     1     2     2     0
## X2001     0     0     0     1     0     0     0     0     0     0     1     0
## X2002     0     0     0     1     0     0     0     0     0     0     1     0
## X2003     0     0     0     1     0     0     0     0     0     0     1     0
## X2004     0     0     0     1     0     0     0     0     0     0     1     0
## X2005     0     1     1     2     0     0     0     0     0     0     1     0
## X2006     0     1     1     1     0     0     0     0     0     0     0     0
## X2007     0     1     1     2     0     0     0     0     0     0     1     0
## X2008     0     1     1     1     1     0     1     1     1     1     1     1
## X2101     0     0     0     1     0     0     0     0     0     0     1     0
## X2102     0     1     1     1     0     0     0     0     0     0     0     1
## X2103     0     0     0     1     0     0     0     0     0     0     1     1
## X2104     0     0     0     0     0     0     0     0     0     0     0     1
## X2106     0     0     0     1     1     0     1     1     1     1     2     1
## X2202     0     0     0     1     1     0     1     1     1     1     2     0
## X2206     0     0     0     0     0     0     0     0     0     0     0     0
## X2208     0     1     1     1     0     0     0     0     0     0     0     0
## X2209     0     0     0     1     0     0     0     0     0     0     1     0
## X2302     0     0     0     0     0     0     0     0     0     0     0     1
## X2309     0     0     0     0     1     0     1     1     1     1     1     0
## X2402     0     1     1     1     0     0     0     0     0     0     0     0
## X2403     0     1     1     1     0     0     0     0     0     0     0     0
## X2507     0     0     0     0     0     0     0     0     0     0     0     0
## X2508     0     1     1     1     1     0     1     1     1     1     1     0
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     1     1     2     1     0     0     0     0     1     0     0     1
## X2519     0     0     0     0     1     0     1     1     1     1     1     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     1     0     1     0     0     0     0     0     1     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     1     1     1     0     0     0     0     0     0     0     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     1     1     1     0     0     0     0     0     0     0     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     0     1
## X2713     1     0     0     0     0     1     1     1     0     1     1     0
## X2714     1     0     0     0     0     1     1     1     0     1     1     0
## X2716     0     1     1     1     0     0     0     0     1     1     1     0
## X2804     0     1     1     1     1     0     1     1     1     1     1     1
## X2811     0     1     1     1     1     0     1     1     1     1     1     1
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
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## X2826     0     0     0     0     1     0     1     1     1     1     1     0
## X2832     0     0     0     0     1     0     1     1     1     1     1     0
## X2833     0     0     0     0     1     0     1     1     1     1     1     0
## X2835     0     0     0     0     1     0     1     1     1     1     1     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     1     1     1     1     0     1     1     1     1     1     1
## X2903     1     0     0     0     0     1     1     1     1     2     2     0
## X2907     0     0     0     0     1     0     1     1     1     1     1     0
## X2915     0     0     0     0     1     0     1     1     1     1     1     0
## X2933     0     0     0     0     1     0     1     1     1     1     1     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     0     0     1     0     1     1     1     1     1     0
## X3204     0     1     1     1     1     0     1     1     1     1     1     0
## X3205     1     0     0     0     0     1     1     1     0     1     1     0
## X3206     1     0     0     0     1     1     2     2     1     2     2     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     1     0     0     0     0     1     1     1     0     1     1     0
## X3209     1     0     0     0     0     1     1     1     0     1     1     0
## X3210     0     0     0     0     1     0     1     1     1     1     1     0
## X3211     1     0     0     0     0     1     1     1     0     1     1     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     1     0     0     0     0     1     1     1     1     2     2     0
## X3215     1     0     0     0     0     1     1     1     0     1     1     0
## X3302     0     0     0     1     1     0     1     1     1     1     2     0
## X3303     0     1     1     1     0     0     0     0     0     0     0     0
## X3304     0     1     1     1     0     0     0     0     0     0     0     0
## X3305     0     1     1     1     0     0     0     0     0     0     0     0
## X3307     0     1     1     1     0     0     0     0     0     0     0     0
## X3402     0     1     1     2     1     0     1     1     1     1     2     0
## X3403     0     1     1     1     1     0     1     1     1     1     1     0
## X3506     1     1     1     2     0     1     1     1     0     1     2     1
## X3507     0     0     0     1     1     0     1     1     1     1     2     0
## X3605     0     0     0     0     0     0     0     0     0     0     0     1
## X3701     1     0     0     0     0     1     1     1     0     1     1     0
## X3707     1     0     0     0     0     1     1     1     0     1     1     0
## X3802     0     0     0     0     0     0     0     0     1     1     1     0
## X3808     0     1     1     1     0     0     0     0     0     0     0     0
## X3809     1     1     2     1     1     0     1     1     2     1     1     0
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     1     0     0     0     1     1     2     2     1     2     2     0
## X3815     0     0     0     0     1     0     1     1     1     1     1     0
## X3816     0     1     1     1     0     0     0     0     0     0     0     0
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     0     1
## X3902     0     0     0     0     1     0     1     1     1     1     1     0
## X3908     0     1     1     2     0     0     0     0     0     0     1     0
## X3909     0     0     0     0     1     0     1     1     1     1     1     0
## X3910     0     0     0     0     1     0     1     1     1     1     1     0
## X3911     0     0     0     0     1     0     1     1     1     1     1     0
## X3915     0     0     0     0     1     0     1     1     1     1     1     0
## X3916     1     0     0     0     0     1     1     1     0     1     1     0
## X3917     1     1     2     1     1     0     1     1     2     1     1     0
## X3919     1     0     0     0     1     1     2     2     1     2     2     0
## X3920     1     0     0     0     1     1     2     2     1     2     2     1
## X3921     1     0     0     0     1     1     2     2     1     2     2     0
## X3923     0     0     0     1     0     0     0     0     0     0     1     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     0     0     1     0     1     1     1     1     1     0
## X3926     0     1     1     1     1     0     1     1     2     2     2     0
## X4001     1     0     0     0     0     1     1     1     0     1     1     0
## X4005     0     0     0     0     0     0     0     0     0     0     0     1
## X4006     0     0     0     0     0     0     0     0     0     0     0     1
## X4008     0     1     1     1     0     0     0     0     0     0     0     0
## X4009     0     0     0     0     0     0     0     0     0     0     0     1
## X4010     1     0     1     1     0     0     0     0     1     0     1     0
## X4012     0     0     0     0     0     0     0     0     0     0     0     1
## X4013     0     0     0     0     0     0     0     0     0     0     0     1
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     0     0     0     0     1
## X4202     1     0     0     0     1     1     2     2     1     2     2     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     0     0     1     1     0     1     1     1     1     2     0
## X4415     0     0     0     1     1     0     1     1     1     1     2     1
## X4416     1     0     1     0     1     0     1     1     2     1     1     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     0
## X4421     0     1     1     1     0     0     0     0     0     0     0     0
```

```
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     0     1     0     1     1     1     1     1     0
## X4808     1     0     0     0     1     1     2     2     2     3     3     0
## X4818     1     0     0     0     0     1     1     1     0     1     1     0
## X4819     0     0     0     1     0     0     0     0     0     0     1     0
## X4821     1     0     0     1     0     1     1     1     0     1     2     0
## X4822     0     0     0     0     1     0     1     1     1     1     1     0
## X4823     0     0     0     0     1     0     1     1     2     2     2     0
## X4901     0     1     1     1     0     0     0     0     0     0     0     0
## X4902     0     1     1     1     0     0     0     0     0     0     0     0
## X4907     0     1     1     1     0     0     0     0     0     0     0     0
## X4911     0     1     1     2     0     0     0     0     0     0     1     0
## X5111     0     0     0     0     1     0     1     1     1     1     1     0
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     1     0     0     0     0     1     1     1     0     1     1     0
## X5206     1     0     0     0     0     1     1     1     0     1     1     0
## X5208     1     0     0     0     0     1     1     1     0     1     1     0
## X5209     1     0     0     1     0     1     1     1     0     1     2     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     1     0     0     0     0     1     1     1     0     1     1     0
## X5402     1     0     0     0     0     1     1     1     1     2     2     0
## X5407     1     1     1     1     1     1     2     2     1     2     2     0
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     0
## X5508     0     1     1     2     0     0     0     0     1     1     2     0
## X5509     1     0     0     0     0     1     1     1     0     1     1     0
## X5511     0     0     0     0     0     0     0     0     0     0     0     0
## X5512     0     0     0     1     0     0     0     0     0     0     1     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     1     0     0     0     0     1     1     1     0     1     1     0
## X5515     0     0     0     1     0     0     0     0     0     0     1     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     1     1     1     0     0     0     0     0     0     0     0
## X5603     0     0     0     1     1     0     1     1     1     1     2     0
## X5609     0     0     0     0     0     0     0     0     0     0     0     0
## X5806     1     0     0     1     0     1     1     1     0     1     2     0
## X5807     1     0     0     1     0     1     1     1     0     1     2     0
## X5903     0     0     0     0     1     0     1     1     1     1     1     0
## X5907     0     0     0     1     0     0     0     0     0     0     1     0
## X5911     1     0     0     0     0     1     1     1     0     1     1     0
## X6002     1     1     1     2     1     1     2     2     1     2     3     0
## X6101     0     0     0     1     0     0     0     0     0     0     1     0
## X6103     1     0     0     0     0     1     1     1     0     1     1     0
## X6104     1     1     1     1     0     1     1     1     0     1     1     0
## X6105     0     0     0     1     0     0     0     0     0     0     1     0
## X6106     1     1     1     1     0     1     1     1     0     1     1     0
## X6107     1     0     0     0     0     1     1     1     0     1     1     0
## X6109     1     0     0     0     0     1     1     1     0     1     1     0
## X6110     0     0     0     1     0     0     0     0     0     0     1     0
## X6111     1     0     0     0     0     1     1     1     0     1     1     0
## X6112     2     0     1     0     0     1     1     1     1     1     1     0
## X6114     1     0     0     0     0     1     1     1     0     1     1     0
## X6115     1     1     1     1     0     1     1     1     0     1     1     0
## X6117     0     0     0     1     0     0     0     0     0     0     1     0
## X6201     1     0     0     0     0     1     1     1     0     1     1     0
## X6202     1     0     0     0     0     1     1     1     0     1     1     0
## X6203     1     0     0     1     0     1     1     1     0     1     2     0
## X6204     1     0     0     0     0     1     1     1     0     1     1     0
## X6205     0     1     1     2     0     0     0     0     0     0     1     0
## X6206     1     1     1     1     0     1     1     1     0     1     1     0
## X6210     1     0     0     0     0     1     1     1     0     1     1     0
## X6211     1     0     0     1     0     1     1     1     0     1     2     0
## X6212     1     0     0     1     1     1     2     2     1     2     3     0
## X6217     1     0     0     0     0     1     1     1     0     1     1     0
## X6302     1     0     0     0     0     1     1     1     0     1     1     0
## X6303     1     0     0     0     0     1     1     1     0     1     1     0
## X6304     1     0     0     0     0     1     1     1     0     1     1     0
## X6305     1     0     0     0     1     1     2     2     1     2     2     0
## X6306     0     0     0     0     1     0     1     1     1     1     1     0
## X6307     1     0     0     0     0     1     1     1     0     1     1     0
## X6401     0     1     1     1     0     0     0     0     0     0     0     0
## X6403     0     1     1     1     0     0     0     0     0     0     0     0
## X6404     0     0     0     0     1     0     1     1     1     1     1     0
##       X8542 X8543 X8544 X8545 X8546 X8547 X8606 X8607 X8609 X8701 X8702 X8707
## X102      0     0     1     1     0     0     0     0     0     0     1     0
## X210      0     1     0     0     0     1     0     0     0     0     0     0
## X401      0     0     1     1     0     1     0     0     0     0     1     0
## X403      0     1     1     1     0     1     0     0     0     0     1     0
## X406      0     0     0     0     0     1     0     0     0     0     0     0
```

```
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     1     1     0     1     0     0     0     0     1     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      1     0     1     0     0     0     0     0     0     0     0     0
## X712      0     0     0     0     0     0     1     1     1     1     0     1
## X713      1     0     1     0     0     0     0     0     0     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     1     1     0     0     0     0     0     0     1     0
## X813      0     0     0     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     1     0     0     0     0     0     0     0     0     0     0
## X1001     0     0     0     0     0     0     0     0     0     0     0     0
## X1003     0     0     1     1     0     1     0     0     0     0     1     0
## X1005     0     0     0     0     0     0     0     0     0     0     0     0
## X1102     0     0     0     0     0     1     0     0     0     0     0     0
## X1108     0     0     0     0     0     1     0     0     0     0     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     0     0     0     1     0     0     0     0     0     0
## X1213     0     0     1     0     0     0     0     0     0     0     0     0
## X1214     1     0     1     0     0     0     0     0     0     0     0     0
## X1302     1     0     0     0     0     0     0     0     0     0     0     0
## X1507     0     0     0     0     0     1     0     0     0     0     0     0
## X1514     0     0     0     0     0     1     0     0     0     0     0     0
## X1517     0     0     1     1     0     1     0     0     0     0     1     0
## X1601     0     1     0     0     0     1     0     0     0     0     0     0
## X1602     0     1     1     1     0     1     0     0     0     0     1     0
## X1704     0     1     1     1     0     0     0     0     0     0     1     0
## X1806     0     1     1     1     0     1     0     0     0     0     1     0
## X1901     0     0     1     1     0     2     0     0     0     0     1     0
## X1902     0     0     0     0     0     1     0     0     0     0     0     0
## X1905     0     0     1     1     1     2     0     0     0     0     1     0
## X2001     0     0     0     0     0     1     0     0     0     0     0     0
## X2002     0     0     0     0     0     1     0     0     0     0     0     0
## X2003     0     0     0     0     0     1     0     0     0     0     0     0
## X2004     0     0     0     0     0     1     0     0     0     0     0     0
## X2005     0     0     1     1     0     1     0     0     0     0     1     0
## X2006     0     0     1     1     0     0     0     0     0     0     1     0
## X2007     0     0     1     1     0     1     0     0     0     0     1     0
## X2008     0     1     1     1     0     1     0     0     0     0     1     0
## X2101     0     0     0     0     0     1     0     0     0     0     0     0
## X2102     0     1     1     1     0     0     0     0     0     0     1     0
## X2103     0     1     0     0     0     1     0     0     0     0     0     0
## X2104     0     1     0     0     0     0     0     0     0     0     0     0
## X2106     0     1     0     0     0     2     0     0     0     0     0     0
## X2202     0     0     0     0     0     2     0     0     0     0     0     0
## X2206     0     0     0     0     0     0     0     0     0     0     0     0
## X2208     0     0     1     1     0     0     0     0     0     0     1     0
## X2209     0     0     0     0     0     1     0     0     0     0     0     0
## X2302     0     1     0     0     0     0     0     0     0     0     0     0
## X2309     0     0     0     0     0     1     0     0     0     0     0     0
## X2402     0     0     1     1     0     0     0     0     0     0     1     0
## X2403     0     0     1     1     0     0     0     0     0     0     1     0
## X2507     0     0     0     0     0     0     0     0     0     0     0     0
## X2508     0     0     1     1     0     1     0     0     0     0     1     0
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     1     0     1     1     0     0     0     0     0     0     1     0
## X2519     0     0     0     0     0     1     0     0     0     0     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     1     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     0     1     1     0     0     0     0     0     0     1     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     1     1     0     0     0     0     0     0     1     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     1     0     0     0     0     0     0     0     0     0     0
## X2713     0     0     0     0     1     1     0     0     0     0     0     0
## X2714     0     0     0     0     1     1     0     0     0     0     0     0
## X2716     0     0     1     1     0     0     0     0     0     0     1     0
## X2804     0     1     1     1     0     1     0     0     0     0     1     0
## X2811     0     1     1     1     0     1     0     0     0     0     1     0
## X2825     0     0     0     0     0     0     1     1     1     1     0     1
## X2826     0     0     0     0     0     1     0     0     0     0     0     0
## X2832     0     0     0     0     0     1     0     0     0     0     0     0
## X2833     0     0     0     0     0     1     0     0     0     0     0     0
```

```
## X2835     0     0     0     0     0     1     0     0     0     0     0     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     1     1     1     0     1     0     0     0     0     1     0
## X2903     0     0     0     0     1     1     0     0     0     0     0     0
## X2907     0     0     0     0     0     1     0     0     0     0     0     0
## X2915     0     0     0     0     0     1     0     0     0     0     0     0
## X2933     0     0     0     0     0     1     0     0     0     0     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     0     0     0     1     0     0     0     0     0     0
## X3204     0     0     1     1     0     1     0     0     0     0     1     0
## X3205     0     0     0     0     1     1     0     0     0     0     0     0
## X3206     0     0     0     0     1     2     0     0     0     0     0     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     0     0     0     1     1     1     1     1     1     0     1
## X3209     0     0     0     0     1     1     0     0     0     0     0     0
## X3210     0     0     0     0     0     1     0     0     0     0     0     0
## X3211     0     0     0     0     1     1     0     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     0     0     1     1     0     0     0     0     0     0
## X3215     0     0     0     0     1     1     0     0     0     0     0     0
## X3302     0     0     0     0     0     2     0     0     0     0     0     0
## X3303     0     0     1     1     0     0     0     0     0     0     1     0
## X3304     0     0     1     1     0     0     0     0     0     0     1     0
## X3305     0     0     1     1     0     0     0     0     0     0     1     0
## X3307     0     0     1     1     0     0     0     0     0     0     1     0
## X3402     0     0     1     1     0     2     0     0     0     0     1     0
## X3403     0     0     1     1     0     1     0     0     0     0     1     0
## X3506     0     1     1     1     1     2     0     0     0     0     1     0
## X3507     0     0     0     0     0     2     0     0     0     0     0     0
## X3605     0     1     0     0     0     0     0     0     0     0     0     0
## X3701     0     0     0     0     1     1     0     0     0     0     0     0
## X3707     0     0     0     0     1     1     0     0     0     0     0     0
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     0     0     1     1     0     0     0     0     0     0     1     0
## X3809     1     0     1     1     0     1     0     0     0     0     1     0
## X3810     0     0     0     0     0     0     1     1     1     1     0     1
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     0     0     0     1     2     0     0     0     0     0     0
## X3815     0     0     0     0     0     1     0     0     0     0     0     0
## X3816     0     0     1     1     0     0     0     0     0     0     1     0
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     1     0     0     0     0     0     0     0     0     0     0
## X3902     0     0     0     0     0     1     0     0     0     0     0     0
## X3908     0     0     1     1     0     1     0     0     0     0     1     0
## X3909     0     0     0     0     0     1     0     0     0     0     0     0
## X3910     0     0     0     0     0     1     0     0     0     0     0     0
## X3911     0     0     0     0     0     1     0     0     0     0     0     0
## X3915     0     0     0     0     0     1     0     0     0     0     0     0
## X3916     0     0     0     0     1     1     0     0     0     0     0     0
## X3917     1     0     1     1     0     1     0     0     0     0     1     0
## X3919     0     0     0     0     1     2     0     0     0     0     0     0
## X3920     0     1     0     0     1     2     0     0     0     0     0     0
## X3921     0     0     0     0     1     2     0     0     0     0     0     0
## X3923     0     0     0     0     0     1     0     0     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     0     0     0     1     0     0     0     0     0     0
## X3926     0     0     1     1     0     1     0     0     0     0     1     0
## X4001     0     0     0     0     1     1     0     0     0     0     0     0
## X4005     0     1     0     0     0     0     0     0     0     0     0     0
## X4006     0     1     0     0     0     0     0     0     0     0     0     0
## X4008     0     0     1     1     0     0     0     0     0     0     1     0
## X4009     0     1     0     0     0     0     0     0     0     0     0     0
## X4010     1     0     0     0     0     1     0     0     0     0     0     0
## X4012     0     1     0     0     0     0     0     0     0     0     0     0
## X4013     0     1     0     0     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     1     0     0     0     0     0     0     0     0     0     0
## X4202     0     0     0     0     1     2     0     0     0     0     0     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     0     0     0     0     2     0     0     0     0     0     0
## X4415     0     1     0     0     0     2     0     0     0     0     0     0
## X4416     1     0     0     0     0     1     0     0     0     0     0     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     0
## X4421     0     0     1     1     0     0     0     0     0     0     1     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     0     0     1     0     0     0     0     0     0
## X4808     0     0     0     0     1     2     0     0     0     0     0     0
```

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## X4818     0     0     0     0     1     1     0     0     0     0     0     0
## X4819     0     0     0     0     0     1     0     0     0     0     0     0
## X4821     0     0     0     0     1     2     0     0     0     0     0     0
## X4822     0     0     0     0     0     1     0     0     0     0     0     0
## X4823     0     0     0     0     0     1     0     0     0     0     0     0
## X4901     0     0     1     1     0     0     0     0     0     0     1     0
## X4902     0     0     1     1     0     0     0     0     0     0     1     0
## X4907     0     0     1     1     0     0     0     0     0     0     1     0
## X4911     0     0     1     1     0     1     0     0     0     0     1     0
## X5111     0     0     0     0     0     1     0     0     0     0     0     0
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     0     0     0     0     1     1     0     0     0     0     0     0
## X5206     0     0     0     0     1     1     0     0     0     0     0     0
## X5208     0     0     0     0     1     1     0     0     0     0     0     0
## X5209     0     0     0     0     1     2     0     0     0     0     0     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     0     0     0     1     1     0     0     0     0     0     0
## X5402     0     0     0     0     1     1     0     0     0     0     0     0
## X5407     0     0     1     1     1     2     0     0     0     0     1     0
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     0
## X5508     0     0     1     1     0     1     0     0     0     0     1     0
## X5509     0     0     0     0     1     1     0     0     0     0     0     0
## X5511     0     0     0     0     0     0     0     0     0     0     0     0
## X5512     0     0     0     0     0     1     0     0     0     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     0     0     0     1     1     0     0     0     0     0     0
## X5515     0     0     0     0     0     1     0     0     0     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     0     1     1     0     0     0     0     0     0     1     0
## X5603     0     0     0     0     0     2     0     0     0     0     0     0
## X5609     0     0     0     0     0     0     0     0     0     0     0     0
## X5806     0     0     0     0     1     2     0     0     0     0     0     0
## X5807     0     0     0     0     1     2     0     0     0     0     0     0
## X5903     0     0     0     0     0     1     0     0     0     0     0     0
## X5907     0     0     0     0     0     1     0     0     0     0     0     0
## X5911     0     0     0     0     1     1     0     0     0     0     0     0
## X6002     0     0     1     1     1     3     0     0     0     0     1     0
## X6101     0     0     0     0     0     1     0     0     0     0     0     0
## X6103     0     0     0     0     1     1     0     0     0     0     0     0
## X6104     0     0     1     1     1     1     0     0     0     0     1     0
## X6105     0     0     0     0     0     1     0     0     0     0     0     0
## X6106     0     0     1     1     1     1     0     0     0     0     1     0
## X6107     0     0     0     0     1     1     0     0     0     0     0     0
## X6109     0     0     0     0     1     1     0     0     0     0     0     0
## X6110     0     0     0     0     0     1     0     0     0     0     0     0
## X6111     0     0     0     0     1     1     0     0     0     0     0     0
## X6112     1     0     0     0     1     1     0     0     0     0     0     0
## X6114     0     0     0     0     1     1     0     0     0     0     0     0
## X6115     0     0     1     1     1     1     0     0     0     0     1     0
## X6117     0     0     0     0     0     1     0     0     0     0     0     0
## X6201     0     0     0     0     1     1     0     0     0     0     0     0
## X6202     0     0     0     0     1     1     0     0     0     0     0     0
## X6203     0     0     0     0     1     2     0     0     0     0     0     0
## X6204     0     0     0     0     1     1     0     0     0     0     0     0
## X6205     0     0     1     1     0     1     0     0     0     0     1     0
## X6206     0     0     1     1     1     1     0     0     0     0     1     0
## X6210     0     0     0     0     1     1     0     0     0     0     0     0
## X6211     0     0     0     0     1     2     0     0     0     0     0     0
## X6212     0     0     0     0     1     3     0     0     0     0     0     0
## X6217     0     0     0     0     1     1     0     0     0     0     0     0
## X6302     0     0     0     0     1     1     0     0     0     0     0     0
## X6303     0     0     0     0     1     1     0     0     0     0     0     0
## X6304     0     0     0     0     1     1     0     0     0     0     0     0
## X6305     0     0     0     0     1     2     0     0     0     0     0     0
## X6306     0     0     0     0     0     1     0     0     0     0     0     0
## X6307     0     0     0     0     1     1     0     0     0     0     0     0
## X6401     0     0     1     1     0     0     0     0     0     0     1     0
## X6403     0     0     1     1     0     0     0     0     0     0     1     0
## X6404     0     0     0     0     0     1     0     0     0     0     0     0
##       X8708 X8716 X8802 X8803 X8907 X9001 X9006 X9013 X9017 X9018 X9019 X9020
## X102      1     0     1     0     0     0     1     0     0     0     0     0
## X210      1     0     0     0     1     0     0     0     0     0     0     0
## X401      1     0     1     0     0     1     1     0     0     1     1     1
## X403      2     0     1     0     1     0     1     0     0     0     0     0
## X406      1     1     0     0     0     0     0     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      1     1     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
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```
## X702      2     4     1     0     0     0     1     0     0     0     0     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      1     3     0     0     0     0     0     1     0     0     0     0
## X712      1     0     0     1     0     0     0     0     1     0     0     0
## X713      2     3     0     0     0     0     0     1     0     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      1     0     1     0     0     0     1     0     0     0     0     0
## X813      0     1     0     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     1     0     0     0     0     0     0     0
## X1001     0     1     0     0     0     0     0     0     0     0     0     0
## X1003     1     2     1     0     0     1     1     0     0     1     1     1
## X1005     0     0     0     0     0     0     0     0     0     0     0     0
## X1102     0     0     0     0     0     1     0     0     0     1     1     1
## X1108     0     0     0     0     0     1     0     0     0     1     1     1
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     0     0     0     1     0     0     0     1     1     1
## X1213     1     0     0     0     0     0     0     0     0     0     0     0
## X1214     3     3     0     0     0     0     0     1     0     0     0     0
## X1302     1     4     0     0     0     0     0     1     0     0     0     0
## X1507     1     0     0     0     0     0     0     0     0     0     0     0
## X1514     1     0     0     0     0     0     0     0     0     0     0     0
## X1517     1     0     1     0     0     1     1     0     0     1     1     1
## X1601     1     0     0     0     1     0     0     0     0     0     0     0
## X1602     2     0     1     0     1     0     1     0     0     0     0     0
## X1704     1     1     1     0     1     0     1     0     0     0     0     0
## X1806     1     1     1     0     1     1     1     0     0     1     1     1
## X1901     2     1     1     0     0     1     1     0     0     1     1     1
## X1902     1     0     0     0     0     0     0     0     0     0     0     0
## X1905     2     1     1     0     0     1     1     0     0     1     1     1
## X2001     1     0     0     0     0     0     0     0     0     0     0     0
## X2002     1     0     0     0     0     0     0     0     0     0     0     0
## X2003     1     0     0     0     0     0     0     0     0     0     0     0
## X2004     1     0     0     0     0     0     0     0     0     0     0     0
## X2005     2     1     1     0     0     0     1     0     0     0     0     0
## X2006     1     0     1     0     0     0     1     0     0     0     0     0
## X2007     2     0     1     0     0     0     1     0     0     0     0     0
## X2008     1     2     1     0     1     1     1     0     0     1     1     1
## X2101     1     0     0     0     0     0     0     0     0     0     0     0
## X2102     1     0     1     0     1     0     1     0     0     0     0     0
## X2103     1     0     0     0     1     0     0     0     0     0     0     0
## X2104     0     0     0     0     1     0     0     0     0     0     0     0
## X2106     1     0     0     0     1     1     0     0     0     1     1     1
## X2202     1     0     0     0     0     1     0     0     0     1     1     1
## X2206     0     1     0     0     0     0     0     0     0     0     0     0
## X2208     2     0     1     0     0     0     1     0     0     0     0     0
## X2209     1     0     0     0     0     0     0     0     0     0     0     0
## X2302     0     0     0     0     1     0     0     0     0     0     0     0
## X2309     0     0     0     0     0     1     0     0     0     1     1     1
## X2402     1     0     1     0     0     0     1     0     0     0     0     0
## X2403     1     0     1     0     0     0     1     0     0     0     0     0
## X2507     0     1     0     0     0     0     0     0     0     0     0     0
## X2508     1     0     1     0     0     1     1     0     0     1     1     1
## X2512     1     0     0     0     0     0     0     0     0     0     0     0
## X2517     2     3     1     0     0     0     1     1     0     0     0     0
## X2519     0     0     0     0     0     1     0     0     0     1     1     1
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     1     0     0     0     0     0     1     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     1     0     1     0     0     0     1     0     0     0     0     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     1     0     1     0     0     0     1     0     0     0     0     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     1     0     0     0     0     0     0     0
## X2713     1     0     0     0     0     0     0     0     0     0     0     0
## X2714     1     0     0     0     0     0     0     0     0     0     0     0
## X2716     2     0     1     0     0     0     1     0     0     0     0     0
## X2804     1     0     1     0     1     1     1     0     0     1     1     1
## X2811     1     0     1     0     1     1     1     0     0     1     1     1
## X2825     1     0     0     1     0     0     0     0     1     0     0     0
## X2826     0     0     0     0     0     1     0     0     0     1     1     1
## X2832     0     0     0     0     0     1     0     0     0     1     1     1
## X2833     0     0     0     0     0     1     0     0     0     1     1     1
## X2835     0     0     0     0     0     1     0     0     0     1     1     1
## X2836     0     1     0     0     0     0     0     0     0     0     0     0
## X2901     1     0     1     0     1     1     1     0     0     1     1     1
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## X2903     1     0     0     0     0     0     0     0     0     0     0     0
## X2907     0     0     0     0     0     1     0     0     0     1     1     1
## X2915     0     0     0     0     0     1     0     0     0     1     1     1
## X2933     0     0     0     0     0     1     0     0     0     1     1     1
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     0     0     0     1     0     0     0     1     1     1
## X3204     1     0     1     0     0     1     1     0     0     1     1     1
## X3205     1     0     0     0     0     0     0     0     0     0     0     0
## X3206     1     0     0     0     0     1     0     0     0     1     1     1
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     2     0     0     1     0     0     0     0     1     0     0     0
## X3209     1     0     0     0     0     0     0     0     0     0     0     0
## X3210     0     0     0     0     0     1     0     0     0     1     1     1
## X3211     1     0     0     0     0     0     0     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     1     0     0     0     0     0     0     0     0     0     0     0
## X3215     1     0     0     0     0     0     0     0     0     0     0     0
## X3302     1     0     0     0     0     1     0     0     0     1     1     1
## X3303     1     0     1     0     0     0     1     0     0     0     0     0
## X3304     1     0     1     0     0     0     1     0     0     0     0     0
## X3305     1     0     1     0     0     0     1     0     0     0     0     0
## X3307     1     0     1     0     0     0     1     0     0     0     0     0
## X3402     2     0     1     0     0     1     1     0     0     1     1     1
## X3403     1     1     1     0     0     1     1     0     0     1     1     1
## X3506     3     0     1     0     1     0     1     0     0     0     0     0
## X3507     1     0     0     0     0     1     0     0     0     1     1     1
## X3605     0     0     0     0     1     0     0     0     0     0     0     0
## X3701     1     0     0     0     0     0     0     0     0     0     0     0
## X3707     1     0     0     0     0     0     0     0     0     0     0     0
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     1     0     1     0     0     0     1     0     0     0     0     0
## X3809     1     1     1     0     0     1     1     1     0     1     1     1
## X3810     1     0     0     1     0     0     0     0     1     0     0     0
## X3811     0     1     0     0     0     0     0     0     0     0     0     0
## X3814     1     0     0     0     0     1     0     0     0     1     1     1
## X3815     0     0     0     0     0     1     0     0     0     1     1     1
## X3816     1     0     1     0     0     0     1     0     0     0     0     0
## X3819     0     1     0     0     0     0     0     0     0     0     0     0
## X3820     0     1     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     1     0     0     0     0     0     0     0
## X3902     0     0     0     0     0     1     0     0     0     1     1     1
## X3908     2     0     1     0     0     0     1     0     0     0     0     0
## X3909     0     0     0     0     0     1     0     0     0     1     1     1
## X3910     0     0     0     0     0     1     0     0     0     1     1     1
## X3911     0     0     0     0     0     1     0     0     0     1     1     1
## X3915     0     0     0     0     0     1     0     0     0     1     1     1
## X3916     1     0     0     0     0     0     0     0     0     0     0     0
## X3917     1     2     1     0     0     1     1     1     0     1     1     1
## X3919     1     0     0     0     0     1     0     0     0     1     1     1
## X3920     1     0     0     0     1     1     0     0     0     1     1     1
## X3921     1     1     0     0     0     1     0     0     0     1     1     1
## X3923     1     1     0     0     0     0     0     0     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     0     0     0     1     0     0     0     1     1     1
## X3926     1     2     1     0     0     1     1     0     0     1     1     1
## X4001     1     0     0     0     0     0     0     0     0     0     0     0
## X4005     0     0     0     0     1     0     0     0     0     0     0     0
## X4006     0     0     0     0     1     0     0     0     0     0     0     0
## X4008     1     0     1     0     0     0     1     0     0     0     0     0
## X4009     0     0     0     0     1     0     0     0     0     0     0     0
## X4010     1     2     0     0     0     0     0     1     0     0     0     0
## X4012     0     0     0     0     1     0     0     0     0     0     0     0
## X4013     0     0     0     0     1     0     0     0     0     0     0     0
## X4015     0     1     0     0     0     0     0     0     0     0     0     0
## X4016     0     1     0     0     1     0     0     0     0     0     0     0
## X4202     1     0     0     0     0     1     0     0     0     1     1     1
## X4203     0     1     0     0     0     0     0     0     0     0     0     0
## X4409     1     1     0     0     0     1     0     0     0     1     1     1
## X4415     1     0     0     0     1     1     0     0     0     1     1     1
## X4416     1     2     0     0     0     1     0     1     0     1     1     1
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     1     0     0     0     0     0     0     0     0     0     0
## X4421     1     1     1     0     0     0     1     0     0     0     0     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     0     0     1     0     0     0     1     1     1
## X4808     1     0     0     0     0     1     0     0     0     1     1     1
## X4818     1     0     0     0     0     0     0     0     0     0     0     0
## X4819     1     0     0     0     0     0     0     0     0     0     0     0
## X4821     2     0     0     0     0     0     0     0     0     0     0     0
```

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## X4822     0     0     0     0     0     1     0     0     0     1     1     1
## X4823     0     0     0     0     0     1     0     0     0     1     1     1
## X4901     1     0     1     0     0     0     1     0     0     0     0     0
## X4902     1     0     1     0     0     0     1     0     0     0     0     0
## X4907     1     0     1     0     0     0     1     0     0     0     0     0
## X4911     2     0     1     0     0     0     1     0     0     0     0     0
## X5111     1     0     0     0     0     1     0     0     0     1     1     1
## X5112     1     0     0     0     0     0     0     0     0     0     0     0
## X5205     1     0     0     0     0     0     0     0     0     0     0     0
## X5206     1     0     0     0     0     0     0     0     0     0     0     0
## X5208     1     0     0     0     0     0     0     0     0     0     0     0
## X5209     2     0     0     0     0     0     0     0     0     0     0     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     1     0     0     0     0     0     0     0     0     0     0     0
## X5402     1     0     0     0     0     0     0     0     0     0     0     0
## X5407     2     0     1     0     0     1     1     0     0     1     1     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     1     0     0     0     0     0     0     0     0     0     0
## X5508     2     0     1     0     0     0     1     0     0     0     0     0
## X5509     1     1     0     0     0     0     0     0     0     0     0     0
## X5511     0     1     0     0     0     0     0     0     0     0     0     0
## X5512     1     1     0     0     0     0     0     0     0     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     1     0     0     0     0     0     0     0     0     0     0     0
## X5515     2     0     0     0     0     0     0     0     0     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     1     0     1     0     0     0     1     0     0     0     0     0
## X5603     1     0     0     0     0     1     0     0     0     1     1     1
## X5609     0     1     0     0     0     0     0     0     0     0     0     0
## X5806     2     0     0     0     0     0     0     0     0     0     0     0
## X5807     2     0     0     0     0     0     0     0     0     0     0     0
## X5903     0     0     0     0     0     1     0     0     0     1     1     1
## X5907     1     0     0     0     0     0     0     0     0     0     0     0
## X5911     2     1     0     0     0     0     0     0     0     0     0     0
## X6002     3     0     1     0     0     1     1     0     0     1     1     1
## X6101     1     0     0     0     0     0     0     0     0     0     0     0
## X6103     1     0     0     0     0     0     0     0     0     0     0     0
## X6104     2     0     1     0     0     0     1     0     0     0     0     0
## X6105     1     0     0     0     0     0     0     0     0     0     0     0
## X6106     2     0     1     0     0     0     1     0     0     0     0     0
## X6107     1     0     0     0     0     0     0     0     0     0     0     0
## X6109     1     0     0     0     0     0     0     0     0     0     0     0
## X6110     1     1     0     0     0     0     0     0     0     0     0     0
## X6111     1     0     0     0     0     0     0     0     0     0     0     0
## X6112     1     1     0     0     0     0     0     1     0     0     0     0
## X6114     2     1     0     0     0     0     0     0     0     0     0     0
## X6115     2     0     1     0     0     0     1     0     0     0     0     0
## X6117     1     0     0     0     0     0     0     0     0     0     0     0
## X6201     1     0     0     0     0     0     0     0     0     0     0     0
## X6202     1     0     0     0     0     0     0     0     0     0     0     0
## X6203     2     0     0     0     0     0     0     0     0     0     0     0
## X6204     1     0     0     0     0     0     0     0     0     0     0     0
## X6205     2     0     1     0     0     0     1     0     0     0     0     0
## X6206     2     1     1     0     0     0     1     0     0     0     0     0
## X6210     1     0     0     0     0     0     0     0     0     0     0     0
## X6211     2     1     0     0     0     0     0     0     0     0     0     0
## X6212     2     1     0     0     0     1     0     0     0     1     1     1
## X6217     1     0     0     0     0     0     0     0     0     0     0     0
## X6302     1     0     0     0     0     0     0     0     0     0     0     0
## X6303     1     0     0     0     0     0     0     0     0     0     0     0
## X6304     1     0     0     0     0     0     0     0     0     0     0     0
## X6305     1     0     0     0     0     1     0     0     0     1     1     1
## X6306     0     0     0     0     0     1     0     0     0     1     1     1
## X6307     1     1     0     0     0     0     0     0     0     0     0     0
## X6401     1     0     1     0     0     0     1     0     0     0     0     0
## X6403     1     1     1     0     0     0     1     0     0     0     0     0
## X6404     0     0     0     0     0     1     0     0     0     1     1     1
##       X9021 X9023 X9025 X9026 X9027 X9028 X9030 X9031 X9032 X9105 X9106 X9401
## X102      0     0     1     0     1     0     0     0     1     0     0     1
## X210      0     0     0     0     0     0     0     0     1     1     0     0
## X401      0     0     2     1     1     0     0     0     2     0     0     1
## X403      0     0     1     0     1     0     0     0     2     1     0     1
## X406      0     0     0     0     0     0     0     0     1     0     0     1
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     1     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     1     0     1     0     0     0     2     0     0     2
## X703      0     0     0     0     0     1     0     0     0     0     0     0
## X709      0     0     0     2     1     2     0     2     0     0     1     0
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## X712      0     1     0     0     0     0     0     1     0     0     0     0
## X713      0     0     0     2     1     2     0     2     0     0     1     0
## X804      0     0     0     0     0     1     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     1     0     0     0     0     0     0
## X809      0     0     1     0     1     0     0     0     1     0     0     1
## X813      0     0     0     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     1     0     0
## X1001     0     0     0     1     1     1     0     1     0     0     0     0
## X1003     1     0     2     1     1     0     0     0     2     0     0     2
## X1005     0     0     0     0     0     1     0     0     0     0     0     0
## X1102     0     0     1     1     0     0     0     0     1     0     0     0
## X1108     0     0     1     1     0     0     0     0     1     0     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     1     1     0     0     0     0     1     0     0     0
## X1213     0     0     0     1     1     1     0     1     0     0     0     0
## X1214     0     0     0     2     1     2     0     2     0     0     1     0
## X1302     0     0     0     2     1     1     0     2     0     0     1     0
## X1507     0     0     0     0     0     0     0     0     1     0     0     0
## X1514     0     0     0     0     0     0     0     0     1     0     0     0
## X1517     0     0     2     1     1     0     0     0     2     0     0     1
## X1601     0     0     0     0     0     0     0     0     1     1     0     0
## X1602     0     0     1     0     1     0     0     0     2     1     0     1
## X1704     0     0     1     0     1     0     0     0     1     1     0     1
## X1806     0     0     2     1     1     0     0     0     2     1     0     1
## X1901     0     0     2     1     1     0     0     0     3     0     0     1
## X1902     0     0     0     0     0     0     0     0     1     0     0     0
## X1905     0     0     2     1     2     0     1     0     2     0     0     1
## X2001     0     0     0     0     0     0     0     0     1     0     0     0
## X2002     0     0     0     0     0     0     0     0     1     0     0     0
## X2003     0     0     0     0     0     0     0     0     1     0     0     0
## X2004     0     0     0     0     0     0     0     0     1     0     0     0
## X2005     0     0     1     0     1     0     0     0     2     0     0     1
## X2006     0     0     1     0     1     0     0     0     1     0     0     1
## X2007     0     0     1     0     1     0     0     0     2     0     0     1
## X2008     0     0     2     1     1     0     0     0     2     1     0     1
## X2101     0     0     0     0     0     0     0     0     1     0     0     0
## X2102     0     0     1     0     1     0     0     0     1     1     0     1
## X2103     0     0     0     0     0     0     0     0     1     1     0     0
## X2104     0     0     0     0     0     0     0     0     0     1     0     0
## X2106     0     0     1     1     0     0     0     0     2     1     0     0
## X2202     0     0     1     1     0     0     0     0     2     0     0     0
## X2206     0     0     0     0     0     0     0     0     0     0     0     0
## X2208     0     0     1     0     1     0     0     0     1     0     0     1
## X2209     0     0     0     0     0     0     0     0     1     0     0     0
## X2302     0     0     0     0     0     0     0     0     0     1     0     0
## X2309     0     0     1     1     0     0     0     0     1     0     0     0
## X2402     0     0     1     0     1     0     0     0     1     0     0     1
## X2403     0     0     1     0     1     0     0     0     1     0     0     1
## X2507     0     0     0     0     0     0     0     0     0     0     0     0
## X2508     0     0     2     1     1     0     0     0     2     0     0     1
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     1     0     1     1     1     1     0     1     1     0     1     1
## X2519     0     0     1     1     0     0     0     0     1     0     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     1     0     1     0     1     0     0     1     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     1     0     1     0     1     0     0     0     1     0     0     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     1     0     1     0     0     0     1     0     0     1
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     1     0     0
## X2713     0     0     0     0     1     0     1     0     0     0     0     0
## X2714     0     0     0     0     1     0     1     0     0     0     0     0
## X2716     0     0     1     1     2     1     0     1     1     0     0     1
## X2804     0     0     2     1     1     0     0     0     2     1     0     1
## X2811     0     0     2     1     1     0     0     0     2     1     0     1
## X2825     0     1     0     0     0     0     0     1     0     0     0     0
## X2826     0     0     1     1     0     0     0     0     1     0     0     0
## X2832     0     0     1     1     0     0     0     0     1     0     0     0
## X2833     0     0     1     1     0     0     0     0     1     0     0     0
## X2835     0     0     1     1     0     0     0     0     1     0     0     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     0     2     1     1     0     0     0     2     1     0     1
## X2903     0     0     0     1     2     0     1     1     0     0     0     0
## X2907     0     0     1     1     0     0     0     0     1     0     0     0
## X2915     0     0     1     1     0     0     0     0     1     0     0     0
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## X2933     0     0     1     1     0     0     0     0     1     0     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     1     1     0     0     0     0     1     0     0     0
## X3204     0     0     2     1     1     0     0     0     2     0     0     1
## X3205     0     0     0     0     1     0     1     0     0     0     0     0
## X3206     0     0     1     1     1     0     1     0     1     0     0     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     1     0     0     1     0     1     1     0     0     0     0
## X3209     0     0     0     0     1     0     1     0     0     0     0     0
## X3210     0     0     1     1     0     0     0     0     1     0     0     0
## X3211     0     0     0     0     1     0     1     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     0     1     2     0     1     1     0     0     0     0
## X3215     0     0     0     0     1     0     1     0     0     0     0     0
## X3302     0     0     1     1     0     0     0     0     2     0     0     0
## X3303     0     0     1     0     1     0     0     0     1     0     0     1
## X3304     0     0     1     0     1     0     0     0     1     0     0     1
## X3305     0     0     1     0     1     0     0     0     1     0     0     1
## X3307     0     0     1     0     1     0     0     0     1     0     0     1
## X3402     0     0     2     1     1     0     0     0     3     0     0     1
## X3403     0     0     2     1     1     0     0     0     2     0     0     1
## X3506     0     0     1     0     2     0     1     0     2     1     0     1
## X3507     0     0     1     1     0     0     0     0     2     0     0     0
## X3605     0     0     0     0     0     0     0     0     0     1     0     0
## X3701     0     0     0     0     1     0     1     0     0     0     0     0
## X3707     0     0     0     0     1     0     1     0     0     0     0     0
## X3802     0     0     0     1     1     0     0     1     0     0     0     0
## X3808     0     0     1     0     1     0     0     0     1     0     0     1
## X3809     0     0     2     2     1     1     0     1     2     0     1     1
## X3810     0     1     0     0     0     0     0     1     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     0     1     1     1     0     1     0     1     0     0     0
## X3815     0     0     1     1     0     0     0     0     1     0     0     0
## X3816     0     0     1     0     1     0     0     0     1     0     0     1
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     1     0     0
## X3902     0     0     1     1     0     0     0     0     1     0     0     0
## X3908     0     0     1     0     1     0     0     0     2     0     0     1
## X3909     0     0     1     1     0     0     0     0     1     0     0     0
## X3910     0     0     1     1     0     0     0     0     1     0     0     0
## X3911     0     0     1     1     0     0     0     0     1     0     0     0
## X3915     0     0     1     1     0     0     0     0     1     0     0     0
## X3916     0     0     0     0     1     0     1     0     0     0     0     0
## X3917     0     0     2     2     1     1     0     1     2     0     1     1
## X3919     0     0     1     1     1     0     1     0     1     0     0     0
## X3920     0     0     1     1     1     0     1     0     1     1     0     0
## X3921     0     0     1     1     1     0     1     0     1     0     0     0
## X3923     0     0     0     0     0     0     0     0     1     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     1     1     0     0     0     0     1     0     0     0
## X3926     0     0     2     2     2     0     0     1     2     0     0     2
## X4001     0     0     0     0     1     0     1     0     0     0     0     0
## X4005     0     0     0     0     0     0     0     0     0     1     0     0
## X4006     0     0     0     0     0     0     0     0     0     1     0     0
## X4008     0     0     1     0     1     0     0     0     1     0     0     1
## X4009     0     0     0     0     0     0     0     0     0     1     0     0
## X4010     0     0     0     1     0     1     0     1     1     0     1     0
## X4012     0     0     0     0     0     0     0     0     0     1     0     0
## X4013     0     0     0     0     0     0     0     0     0     1     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     1
## X4016     0     0     0     0     0     0     0     0     0     1     0     1
## X4202     0     0     1     1     1     0     1     0     1     0     0     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     1
## X4409     0     0     1     1     0     0     0     0     2     0     0     0
## X4415     0     0     1     1     0     0     0     0     2     1     0     0
## X4416     0     0     1     2     0     1     0     1     1     0     1     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     0
## X4421     0     0     1     0     1     0     0     0     1     0     0     1
## X4602     0     0     0     0     0     1     0     0     0     0     0     0
## X4804     0     0     1     1     0     0     0     0     1     0     0     0
## X4808     0     0     1     2     2     0     1     1     1     0     0     0
## X4818     0     0     0     0     1     0     1     0     0     0     0     0
## X4819     0     0     0     0     0     0     0     0     1     0     0     0
## X4821     0     0     0     0     1     0     1     0     1     0     0     0
## X4822     0     0     1     1     0     0     0     0     1     0     0     0
## X4823     0     0     1     2     1     0     0     1     1     0     0     0
## X4901     0     0     1     0     1     0     0     0     1     0     0     1
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## X4902     0     0     1     0     1     0     0     0     1     0     0     1
## X4907     0     0     1     0     1     0     0     0     1     0     0     1
## X4911     0     0     1     0     1     0     0     0     2     0     0     1
## X5111     0     0     1     1     0     0     0     0     1     0     0     0
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     0     0     0     0     1     0     1     0     0     0     0     0
## X5206     0     0     0     0     1     0     1     0     0     0     0     0
## X5208     0     0     0     0     1     0     1     0     0     0     0     0
## X5209     0     0     0     0     1     0     1     0     1     0     0     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     0     0     0     1     0     1     0     0     0     0     0
## X5402     0     0     0     1     2     0     1     1     0     0     0     0
## X5407     0     0     2     1     2     0     1     0     2     0     0     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     0
## X5508     0     0     1     1     2     0     0     1     2     0     0     1
## X5509     0     0     0     0     1     0     1     0     0     0     0     0
## X5511     0     0     0     0     0     0     0     0     0     0     0     0
## X5512     0     0     0     0     0     0     0     0     1     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     0     0     0     1     0     1     0     0     0     0     0
## X5515     0     0     0     0     0     0     0     0     1     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     0     1     0     1     0     0     0     1     0     0     1
## X5603     0     0     1     1     0     0     0     0     2     0     0     0
## X5609     0     0     0     0     0     0     0     0     0     0     0     0
## X5806     0     0     0     0     1     0     1     0     1     0     0     0
## X5807     0     0     0     0     1     0     1     0     1     0     0     0
## X5903     0     0     1     1     0     0     0     0     1     0     0     0
## X5907     0     0     0     0     0     0     0     0     1     0     0     0
## X5911     0     0     0     0     1     0     1     0     0     0     0     0
## X6002     0     0     2     1     2     0     1     0     3     0     0     1
## X6101     0     0     0     0     0     0     0     0     1     0     0     0
## X6103     0     0     0     0     1     0     1     0     0     0     0     0
## X6104     0     0     1     0     2     0     1     0     1     0     0     1
## X6105     0     0     0     0     0     0     0     0     1     0     0     0
## X6106     0     0     1     0     2     0     1     0     1     0     0     1
## X6107     0     0     0     0     1     0     1     0     0     0     0     0
## X6109     0     0     0     0     1     0     1     0     0     0     0     0
## X6110     0     0     0     0     0     0     0     0     1     0     0     0
## X6111     0     0     0     0     1     0     1     0     0     0     0     0
## X6112     0     0     0     1     1     1     1     1     0     0     1     0
## X6114     0     0     0     0     1     0     1     0     0     0     0     0
## X6115     0     0     1     0     2     0     1     0     1     0     0     1
## X6117     0     0     0     0     0     0     0     0     1     0     0     0
## X6201     0     0     0     0     1     0     1     0     0     0     0     0
## X6202     0     0     0     0     1     0     1     0     0     0     0     0
## X6203     0     0     0     0     1     0     1     0     1     0     0     0
## X6204     0     0     0     0     1     0     1     0     0     0     0     0
## X6205     0     0     1     0     1     0     0     0     2     0     0     1
## X6206     0     0     1     0     2     0     1     0     1     0     0     1
## X6210     0     0     0     0     1     0     1     0     0     0     0     0
## X6211     0     0     0     0     1     0     1     0     1     0     0     0
## X6212     0     0     1     1     1     0     1     0     2     0     0     0
## X6217     0     0     0     0     1     0     1     0     0     0     0     0
## X6302     0     0     0     0     1     0     1     0     0     0     0     0
## X6303     0     0     0     0     1     0     1     0     0     0     0     0
## X6304     0     0     0     0     1     0     1     0     0     0     0     0
## X6305     0     0     1     1     1     0     1     0     1     0     0     0
## X6306     0     0     1     1     0     0     0     0     1     0     0     0
## X6307     0     0     0     0     1     0     1     0     0     0     0     1
## X6401     0     0     1     0     1     0     0     0     1     0     0     1
## X6403     0     0     1     0     1     0     0     0     1     0     0     1
## X6404     0     0     1     1     0     0     0     0     1     0     0     0
##       X9402 X9403 X9404 X9405 X9406 X9503 X9504 X9505 X9506 X9508 X9602 X9606
## X102      0     1     0     1     1     0     0     0     0     1     0     0
## X210      0     0     0     0     0     0     0     0     0     0     1     1
## X401      1     2     0     2     2     0     0     0     0     1     1     1
## X403      0     2     0     1     1     0     0     0     0     1     1     1
## X406      0     0     0     0     0     0     0     0     1     0     0     1
## X510      0     1     0     0     0     0     0     0     0     0     0     0
## X602      0     1     0     0     0     0     0     0     0     0     1     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     9     0     1     1     0     0     1     1     1     0     1
## X703      0     1     0     0     0     0     0     0     0     0     1     0
## X709      0     7     0     0     0     0     1     1     0     1     1     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0    12     0     1     0     0     1     0     0     1     1     0
## X804      0     2     0     0     0     0     0     0     0     0     1     0
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## X805      0     3     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     1     0
## X809      0     1     0     1     1     0     0     0     0     1     0     0
## X813      0     1     0     0     0     0     0     1     0     0     0     0
## X901      0     3     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     0     1     0
## X1001     0     7     0     1     0     1     1     1     0     1     1     0
## X1003     1     7     0     2     2     1     1     1     1     1     1     1
## X1005     0     6     0     0     0     1     1     1     0     1     1     0
## X1102     1     1     0     1     1     0     0     0     0     0     1     1
## X1108     1     1     0     1     1     0     0     0     0     0     1     1
## X1202     0     1     0     0     0     0     0     0     0     0     0     0
## X1208     1     1     0     1     1     0     0     0     0     0     1     1
## X1213     0     6     0     0     0     0     0     0     0     0     1     0
## X1214     0     7     0     0     0     0     1     1     0     1     1     0
## X1302     0     8     0     0     0     0     1     1     0     1     0     0
## X1507     0     0     0     0     0     0     0     0     0     0     0     1
## X1514     0     0     0     0     0     0     0     0     0     0     0     1
## X1517     1     2     0     2     2     0     0     0     0     1     1     1
## X1601     0     0     0     0     0     0     0     0     0     0     1     1
## X1602     0     1     0     1     1     0     0     0     0     1     1     1
## X1704     0     5     0     1     1     1     1     2     0     1     1     0
## X1806     1     6     0     2     2     1     1     2     0     1     2     1
## X1901     1     6     0     2     2     0     0     1     0     1     1     2
## X1902     0     0     0     0     0     0     0     0     0     0     0     1
## X1905     1     6     1     2     2     0     0     1     0     1     1     2
## X2001     0     0     0     0     0     0     0     0     0     0     0     1
## X2002     0     0     0     0     0     0     0     0     0     0     0     1
## X2003     0     0     0     0     0     0     0     0     0     0     0     1
## X2004     0     0     0     0     0     0     0     0     0     0     0     1
## X2005     0     5     0     1     1     0     0     1     0     1     0     1
## X2006     0     2     0     1     1     0     0     0     0     1     0     0
## X2007     0     1     0     1     1     0     0     0     0     1     0     1
## X2008     1     8     0     2     2     0     0     1     0     1     2     1
## X2101     0     0     0     0     0     0     0     0     0     0     0     1
## X2102     0     1     0     1     1     0     0     0     0     1     1     0
## X2103     0     0     0     0     0     0     0     0     0     0     1     1
## X2104     0     0     0     0     0     0     0     0     0     0     1     0
## X2106     1     1     0     1     1     0     0     0     0     0     2     2
## X2202     1     2     0     1     1     0     0     0     0     0     1     2
## X2206     0     1     0     0     0     0     0     1     0     0     0     0
## X2208     0     1     0     1     1     0     0     0     0     1     0     0
## X2209     0     0     0     0     0     0     0     0     0     0     0     1
## X2302     0     0     0     0     0     0     0     0     0     0     1     0
## X2309     1     1     0     1     1     0     0     0     0     0     1     1
## X2402     0     1     0     1     1     0     0     0     0     1     0     0
## X2403     0     1     0     1     1     0     0     0     0     1     0     0
## X2507     0     1     0     0     0     0     0     1     0     0     0     0
## X2508     1     2     0     2     2     0     0     0     0     1     1     1
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     0     7     0     1     1     0     1     1     0     1     0     0
## X2519     1     1     0     1     1     0     0     0     0     0     1     1
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     1     0     0     0     0     1     0     0     1     0     0
## X2525     0     1     0     0     0     0     0     0     0     0     0     0
## X2530     0     2     0     1     1     0     0     0     0     1     0     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     1     0     1     1     0     0     0     0     1     0     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     1     0
## X2713     0     0     1     0     0     0     0     0     0     0     0     1
## X2714     0     0     1     0     0     0     0     0     0     0     0     1
## X2716     0     3     0     1     1     0     0     0     0     1     1     0
## X2804     1     2     0     2     2     0     0     0     0     1     2     1
## X2811     1     2     0     2     2     0     0     0     0     1     2     1
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     1     1     0     1     1     0     0     0     0     0     1     1
## X2832     1     1     0     1     1     0     0     0     0     0     1     1
## X2833     1     1     0     1     1     0     0     0     0     0     1     1
## X2835     1     1     0     1     1     0     0     0     0     0     1     1
## X2836     0     1     0     0     0     0     0     0     0     0     0     0
## X2901     1     2     0     2     2     0     0     0     0     1     2     1
## X2903     0     0     1     0     0     0     0     0     0     0     0     1
## X2907     1     1     0     1     1     0     0     0     0     0     1     1
## X2915     1     1     0     1     1     0     0     0     0     0     1     1
## X2933     1     1     0     1     1     0     0     0     0     0     1     1
## X3105     0     1     0     0     0     0     0     0     0     0     0     0
## X3202     1     1     0     1     1     0     0     0     0     0     1     1
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## X3204     1     2     0     2     2     0     0     0     0     1     1     1
## X3205     0     0     1     0     0     0     0     0     0     0     0     1
## X3206     1     1     1     1     1     0     0     0     0     0     1     2
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     0     1     0     0     0     0     0     0     0     0     1
## X3209     0     0     1     0     0     0     0     0     0     0     0     1
## X3210     1     1     0     1     1     0     0     0     0     0     1     1
## X3211     0     0     1     0     0     0     0     0     0     0     0     1
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     1     0     0     0     0     0     0     0     0     1
## X3215     0     0     1     0     0     0     0     0     0     0     0     1
## X3302     1     1     0     1     1     0     0     0     0     0     1     2
## X3303     0     1     0     1     1     0     0     0     0     1     0     0
## X3304     0     1     0     1     1     0     0     0     0     1     0     0
## X3305     0     2     0     1     1     0     0     0     0     1     0     0
## X3307     0     1     0     1     1     0     0     0     0     1     0     0
## X3402     1     3     0     2     2     0     0     0     0     1     1     2
## X3403     1     3     0     2     2     0     0     0     0     1     1     1
## X3506     0     1     1     1     1     0     0     0     0     1     1     2
## X3507     1     1     0     1     1     0     0     0     0     0     1     2
## X3605     0     0     0     0     0     0     0     0     0     0     1     0
## X3701     0     0     1     0     0     0     0     0     0     0     0     1
## X3707     0     0     1     0     0     0     0     0     0     0     0     1
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     0     1     0     1     1     0     0     0     0     1     0     0
## X3809     1     3     0     2     2     0     1     0     0     1     1     1
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     1     0     0     0     0     0     0     0     0     0     0
## X3814     1     1     1     1     1     0     0     0     0     0     1     2
## X3815     1     1     0     1     1     0     0     0     0     0     1     1
## X3816     0     1     0     1     1     0     0     0     0     1     0     0
## X3819     0     1     0     0     0     0     0     0     0     0     0     0
## X3820     0     1     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     1     0
## X3902     1     1     0     1     1     0     0     0     0     0     1     1
## X3908     0     1     0     1     1     0     0     0     0     1     0     1
## X3909     1     1     0     1     1     0     0     0     0     0     1     1
## X3910     1     1     0     1     1     0     0     0     0     0     1     1
## X3911     1     1     0     1     1     0     0     0     0     0     1     1
## X3915     1     1     0     1     1     0     0     0     0     0     1     1
## X3916     0     0     1     0     0     0     0     0     0     0     0     1
## X3917     1     3     0     2     2     0     1     1     0     1     1     1
## X3919     1     1     1     1     1     0     0     0     0     0     1     2
## X3920     1     1     1     1     1     0     0     0     0     0     2     2
## X3921     1     2     1     1     1     0     0     0     0     0     1     2
## X3923     0     2     0     0     0     1     1     2     0     0     0     1
## X3924     0     0     0     0     0     1     1     1     0     0     0     0
## X3925     1     1     0     1     1     0     0     0     0     0     1     1
## X3926     1     4     0     2     2     0     0     0     1     1     1     1
## X4001     0     0     1     0     0     0     0     0     0     0     0     1
## X4005     0     0     0     0     0     0     0     0     0     0     1     0
## X4006     0     0     0     0     0     0     0     0     0     0     1     0
## X4008     0     1     0     1     1     0     0     0     0     1     0     0
## X4009     0     0     0     0     0     0     0     0     0     0     1     0
## X4010     0     1     0     0     0     0     1     1     0     0     0     1
## X4012     0     0     0     0     0     0     0     0     0     0     1     0
## X4013     0     0     0     0     0     0     0     0     0     0     1     0
## X4015     0     0     0     0     0     0     0     0     1     0     0     0
## X4016     0     0     0     0     0     0     0     0     1     0     1     0
## X4202     1     3     1     1     1     0     0     0     0     0     1     2
## X4203     0     0     0     0     0     0     0     0     1     0     0     0
## X4409     1     2     0     1     1     0     0     1     0     0     1     2
## X4415     1     1     0     1     1     0     0     0     0     0     2     2
## X4416     1     2     0     1     1     0     1     1     0     0     1     1
## X4418     0     1     0     0     0     0     0     0     0     0     0     0
## X4420     0     1     0     0     0     0     0     1     0     0     0     0
## X4421     0     2     0     1     1     0     0     1     0     1     0     0
## X4602     0     0     0     0     0     0     0     0     0     0     1     0
## X4804     1     1     0     1     1     0     0     0     0     0     1     1
## X4808     1     1     1     1     1     0     0     0     0     0     1     2
## X4818     0     0     1     0     0     0     0     0     0     0     0     1
## X4819     0     0     0     0     0     0     0     0     0     0     0     1
## X4821     0     0     1     0     0     0     0     0     0     0     0     2
## X4822     1     1     0     1     1     0     0     0     0     0     1     1
## X4823     1     1     0     1     1     0     0     0     0     0     1     1
## X4901     0     1     0     1     1     0     0     0     0     1     0     0
## X4902     0     1     0     1     1     0     0     0     0     1     0     0
## X4907     0     1     0     1     1     0     0     0     0     1     0     0
## X4911     0     1     0     1     1     0     0     0     0     1     0     1
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## X5111     1     1     0     1     1     0     0     0     0     0     1     1
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     0     0     1     0     0     0     0     0     0     0     0     1
## X5206     0     0     1     0     0     0     0     0     0     0     0     1
## X5208     0     0     1     0     0     0     0     0     0     0     0     1
## X5209     0     0     1     0     0     0     0     0     0     0     0     2
## X5210     0     2     0     0     0     0     0     0     0     0     0     0
## X5211     0     0     1     0     0     0     0     0     0     0     0     1
## X5402     0     0     1     0     0     0     0     0     0     0     0     1
## X5407     1     2     1     2     2     0     0     0     0     1     1     2
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     1     0     0     0     0     0     1     0     0     0     0
## X5508     0     1     0     1     1     0     0     0     0     1     0     1
## X5509     0     1     1     0     0     0     0     1     0     0     0     1
## X5511     0     1     0     0     0     0     0     1     0     0     0     0
## X5512     0     1     0     0     0     0     0     1     0     0     0     1
## X5513     0     2     0     0     0     0     0     0     0     0     0     0
## X5514     0     0     1     0     0     0     0     0     0     0     0     1
## X5515     0     0     0     0     0     0     0     0     0     0     0     1
## X5516     0     2     0     0     0     0     0     0     0     0     0     0
## X5601     0     1     0     1     1     0     0     0     0     1     0     0
## X5603     1     3     0     1     1     0     0     0     0     0     1     2
## X5609     0     1     0     0     0     0     0     1     0     0     0     0
## X5806     0     0     1     0     0     0     0     0     0     0     0     2
## X5807     0     0     1     0     0     0     0     0     0     0     0     2
## X5903     1     1     0     1     1     0     0     0     0     0     1     1
## X5907     0     0     0     0     0     0     0     0     0     0     0     1
## X5911     0     3     1     0     0     0     0     1     0     0     0     1
## X6002     1     3     1     2     2     0     0     0     0     1     1     3
## X6101     0     0     0     0     0     0     0     0     0     0     0     1
## X6103     0     0     1     0     0     0     0     0     0     0     0     1
## X6104     0     1     1     1     1     0     0     0     0     1     0     1
## X6105     0     0     0     0     0     0     0     0     0     0     0     1
## X6106     0     1     1     1     1     0     0     0     0     1     0     1
## X6107     0     0     1     0     0     0     0     0     0     0     0     1
## X6109     0     0     1     0     0     0     0     0     0     0     0     1
## X6110     0     1     0     0     0     0     0     1     0     0     0     1
## X6111     0     0     1     0     0     0     0     0     0     0     0     1
## X6112     0     1     1     0     0     0     1     0     0     0     0     1
## X6114     0     2     1     0     0     0     0     1     0     0     0     1
## X6115     0     1     1     1     1     1     1     1     0     1     0     1
## X6117     0     0     0     0     0     0     0     0     0     0     0     1
## X6201     0     0     1     0     0     0     0     0     0     0     0     1
## X6202     0     0     1     0     0     0     0     0     0     0     0     1
## X6203     0     0     1     0     0     0     0     0     0     0     0     2
## X6204     0     0     1     0     0     0     0     0     0     0     0     1
## X6205     0     1     0     1     1     0     0     0     0     1     0     1
## X6206     0     3     1     1     1     0     0     1     0     1     0     1
## X6210     0     0     1     0     0     0     0     0     0     0     0     1
## X6211     0     2     1     0     0     0     0     0     0     0     0     2
## X6212     1     4     1     1     1     0     0     0     0     0     1     3
## X6217     0     0     1     0     0     0     0     0     0     0     0     1
## X6302     0     0     1     0     0     0     0     0     0     0     0     1
## X6303     0     0     1     0     0     0     0     0     0     0     0     1
## X6304     0     0     1     0     0     0     0     0     0     0     0     1
## X6305     1     1     1     1     1     0     0     0     0     0     1     2
## X6306     1     1     0     1     1     0     0     0     0     0     1     1
## X6307     0     0     1     0     0     0     0     0     1     0     0     1
## X6401     0     1     0     1     1     0     0     0     0     1     0     0
## X6403     0     2     0     1     1     0     0     0     0     1     0     0
## X6404     1     1     0     1     1     0     0     0     0     0     1     1
##       X9607 X9608 X9612 X9616 X9617 X9706
## X102      0     0     0     1     0     1
## X210      1     1     1     0     1     0
## X401      1     0     0     1     0     1
## X403      1     1     1     1     1     1
## X406      1     0     1     0     0     0
## X510      0     0     0     0     0     0
## X602      0     0     0     0     0     0
## X603      0     0     0     0     0     0
## X702      1     0     1     1     0     1
## X703      0     0     0     0     0     0
## X709      0     0     0     0     0     0
## X712      0     0     0     0     0     0
## X713      0     0     0     0     0     0
## X804      0     0     0     0     0     0
## X805      0     0     0     0     0     0
## X808      0     0     0     0     0     0
## X809      0     0     0     1     0     1
```

```
## X813      0     0     0     0     0     0
## X901      0     0     0     0     0     0
## X904      0     1     0     0     1     0
## X1001     0     0     0     0     0     0
## X1003     1     0     0     1     0     1
## X1005     0     0     0     0     0     0
## X1102     1     0     0     0     0     0
## X1108     1     0     0     0     0     0
## X1202     0     0     0     0     0     0
## X1208     1     0     0     0     0     0
## X1213     0     0     0     0     0     0
## X1214     1     0     0     0     0     0
## X1302     1     0     0     0     0     0
## X1507     1     0     1     0     0     0
## X1514     1     0     1     0     0     0
## X1517     1     0     0     1     0     1
## X1601     1     1     1     0     1     0
## X1602     1     1     1     1     1     1
## X1704     0     1     0     1     1     1
## X1806     1     1     0     1     1     1
## X1901     2     0     1     1     0     1
## X1902     1     0     1     0     0     0
## X1905     1     0     0     1     0     1
## X2001     1     0     1     0     0     0
## X2002     1     0     1     0     0     0
## X2003     1     0     1     0     0     0
## X2004     1     0     1     0     0     0
## X2005     1     0     1     1     0     1
## X2006     0     0     0     1     0     1
## X2007     1     0     1     1     0     1
## X2008     1     1     0     1     1     1
## X2101     1     0     1     0     0     0
## X2102     0     1     0     1     1     1
## X2103     1     1     1     0     1     0
## X2104     0     1     0     0     1     0
## X2106     2     1     1     0     1     0
## X2202     2     0     1     0     0     0
## X2206     0     0     0     0     0     0
## X2208     1     0     0     1     0     1
## X2209     1     0     1     0     0     0
## X2302     0     1     0     0     1     0
## X2309     1     0     0     0     0     0
## X2402     0     0     0     1     0     1
## X2403     0     0     0     1     0     1
## X2507     0     0     0     0     0     0
## X2508     1     0     0     1     0     1
## X2512     1     0     0     0     0     0
## X2517     0     0     0     1     0     1
## X2519     1     0     0     0     0     0
## X2520     0     0     0     0     0     0
## X2522     0     0     0     0     0     0
## X2525     0     0     0     0     0     0
## X2530     0     0     0     1     0     1
## X2602     0     0     0     0     0     0
## X2606     0     0     0     1     0     1
## X2607     0     0     0     0     0     0
## X2608     0     0     0     0     0     0
## X2710     0     1     0     0     1     0
## X2713     0     0     0     0     0     0
## X2714     0     0     0     0     0     0
## X2716     1     0     0     1     0     1
## X2804     1     1     0     1     1     1
## X2811     1     1     0     1     1     1
## X2825     0     0     0     0     0     0
## X2826     1     0     0     0     0     0
## X2832     1     0     0     0     0     0
## X2833     1     0     0     0     0     0
## X2835     1     0     0     0     0     0
## X2836     0     0     0     0     0     0
## X2901     1     1     0     1     1     1
## X2903     0     0     0     0     0     0
## X2907     1     0     0     0     0     0
## X2915     1     0     0     0     0     0
## X2933     1     0     0     0     0     0
## X3105     0     0     0     0     0     0
## X3202     1     0     0     0     0     0
## X3204     1     0     0     1     0     1
## X3205     0     0     0     0     0     0
## X3206     1     0     0     0     0     0
```

```
## X3207     0     0     0     0     0     0
## X3208     0     0     0     0     0     0
## X3209     0     0     0     0     0     0
## X3210     1     0     0     0     0     0
## X3211     0     0     0     0     0     0
## X3212     0     0     0     0     0     0
## X3214     0     0     0     0     0     0
## X3215     0     0     0     0     0     0
## X3302     2     0     1     0     0     0
## X3303     0     0     0     1     0     1
## X3304     0     0     0     1     0     1
## X3305     0     0     0     1     0     1
## X3307     0     0     0     1     0     1
## X3402     2     0     1     1     0     1
## X3403     1     0     0     1     0     1
## X3506     1     1     1     1     1     1
## X3507     2     0     1     0     0     0
## X3605     0     1     0     0     1     0
## X3701     0     0     0     0     0     0
## X3707     0     0     0     0     0     0
## X3802     0     0     0     0     0     0
## X3808     0     0     0     1     0     1
## X3809     1     0     0     1     0     1
## X3810     0     0     0     0     0     0
## X3811     0     0     0     0     0     0
## X3814     1     0     0     0     0     0
## X3815     1     0     0     0     0     0
## X3816     0     0     0     1     0     1
## X3819     0     0     0     0     0     0
## X3820     0     0     0     0     0     0
## X3823     0     1     0     0     1     0
## X3902     1     0     0     0     0     0
## X3908     1     0     1     1     0     1
## X3909     1     0     0     0     0     0
## X3910     1     0     0     0     0     0
## X3911     1     0     0     0     0     0
## X3915     1     0     0     0     0     0
## X3916     0     0     0     0     0     0
## X3917     1     0     0     1     0     1
## X3919     1     0     0     0     0     0
## X3920     1     1     0     0     1     0
## X3921     1     0     0     0     0     0
## X3923     1     0     1     0     0     0
## X3924     0     0     0     0     0     0
## X3925     1     0     0     0     0     0
## X3926     1     0     0     1     0     1
## X4001     0     0     0     0     0     0
## X4005     0     1     0     0     1     0
## X4006     0     1     0     0     1     0
## X4008     0     0     0     1     0     1
## X4009     0     1     0     0     1     0
## X4010     1     0     1     0     0     0
## X4012     0     1     0     0     1     0
## X4013     0     1     0     0     1     0
## X4015     0     0     0     0     0     0
## X4016     0     1     0     0     1     0
## X4202     1     0     0     0     0     0
## X4203     0     0     0     0     0     0
## X4409     2     0     1     0     0     0
## X4415     2     1     1     0     1     0
## X4416     2     0     0     0     0     0
## X4418     0     0     0     0     0     0
## X4420     0     0     0     0     0     0
## X4421     0     0     0     1     0     1
## X4602     0     0     0     0     0     0
## X4804     1     0     0     0     0     0
## X4808     1     0     0     0     0     0
## X4818     0     0     0     0     0     0
## X4819     1     0     1     0     0     0
## X4821     1     0     1     0     0     0
## X4822     1     0     0     0     0     0
## X4823     1     0     0     0     0     0
## X4901     0     0     0     1     0     1
## X4902     0     0     0     1     0     1
## X4907     0     0     0     1     0     1
## X4911     1     0     1     1     0     1
## X5111     2     0     0     0     0     0
## X5112     1     0     0     0     0     0
## X5205     0     0     0     0     0     0
```

```
## X5206     0     0     0     0     0     0
## X5208     0     0     0     0     0     0
## X5209     1     0     1     0     0     0
## X5210     0     0     0     0     0     0
## X5211     0     0     0     0     0     0
## X5402     0     0     0     0     0     0
## X5407     1     0     0     1     0     1
## X5408     0     0     0     0     0     0
## X5505     0     0     0     0     0     0
## X5508     1     0     1     1     0     1
## X5509     0     0     0     0     0     0
## X5511     0     0     0     0     0     0
## X5512     1     0     1     0     0     0
## X5513     0     0     0     0     0     0
## X5514     0     0     0     0     0     0
## X5515     2     0     1     0     0     0
## X5516     0     0     0     0     0     0
## X5601     0     0     0     1     0     1
## X5603     2     0     1     0     0     0
## X5609     0     0     0     0     0     0
## X5806     1     0     1     0     0     0
## X5807     1     0     1     0     0     0
## X5903     1     0     0     0     0     0
## X5907     1     0     1     0     0     0
## X5911     1     0     0     0     0     0
## X6002     2     0     1     1     0     1
## X6101     1     0     1     0     0     0
## X6103     0     0     0     0     0     0
## X6104     0     0     0     1     0     1
## X6105     1     0     1     0     0     0
## X6106     0     0     0     1     0     1
## X6107     0     0     0     0     0     0
## X6109     0     0     0     0     0     0
## X6110     1     0     1     0     0     0
## X6111     0     0     0     0     0     0
## X6112     0     0     0     0     0     0
## X6114     1     0     0     0     0     0
## X6115     0     0     0     1     0     1
## X6117     1     0     1     0     0     0
## X6201     0     0     0     0     0     0
## X6202     0     0     0     0     0     0
## X6203     1     0     1     0     0     0
## X6204     0     0     0     0     0     0
## X6205     1     0     1     1     0     1
## X6206     0     0     0     1     0     1
## X6210     0     0     0     0     0     0
## X6211     1     0     1     0     0     0
## X6212     2     0     1     0     0     0
## X6217     0     0     0     0     0     0
## X6302     0     0     0     0     0     0
## X6303     0     0     0     0     0     0
## X6304     0     0     0     0     0     0
## X6305     1     0     0     0     0     0
## X6306     1     0     0     0     0     0
## X6307     0     0     0     0     0     0
## X6401     0     0     0     1     0     1
## X6403     0     0     0     1     0     1
## X6404     1     0     0     0     0     0
##  [ reached getOption("max.print") -- omitted 196 rows ]
```

Estima el relacionamiento o proximidad pero normalizado, para asegurar que el numero de co ocurrencias que observamos es mayor al numero de co ocurrencias probables (probailidad condicional) tie and Surfboard puede que no esten tan relacionados, abajo de 1 no es relacionado mientras que mayor a 1 si es relacionado

```
r = relatedness(c)
```

visuzalizar obejto r

```
r
```

```
##            X102       X210      X401      X403      X406        X510       X602
## X102  0.0000000  0.0000000 1.9440463 1.7616411  0.000000    0.000000   0.000000
## X210  0.0000000  0.0000000 0.0000000 3.6107289  5.424366    0.000000   0.000000
## X401  1.9440463  0.0000000 0.0000000 0.9017473  0.000000    0.000000   0.000000
## X403  1.7616411  3.6107289 0.9017473 0.0000000  2.455156    0.000000   0.000000
## X406  0.0000000  5.4243658 0.0000000 2.4551557  0.000000    0.000000   0.000000
## X510  0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
```

```
## X602  0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X603  0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X702  0.9905484  1.0151335 0.5070420 0.9189354  2.761004    0.000000   5.343901
## X703  0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000  28.890810
## X709  0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   6.653660
## X712  0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X713  0.0000000  0.0000000 0.0000000 0.4840729  0.000000   18.504971  11.260155
## X804  0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000  12.965392
## X805  0.0000000  0.0000000 0.0000000 1.8671502  0.000000    0.000000   0.000000
## X808  0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000  84.767385
## X809  3.7978668  0.0000000 1.9440463 1.7616411  0.000000    0.000000   0.000000
## X813  0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X901  0.0000000  0.0000000 0.0000000 2.1420057  0.000000    0.000000   0.000000
## X904  0.0000000 10.4988279 0.0000000 4.7519370  0.000000    0.000000   0.000000
## X1001 0.0000000  0.0000000 0.0000000 0.0000000  0.000000   40.118357   6.102936
## X1003 1.3277012  0.0000000 1.3592461 0.6158559  1.850384   23.542770   7.162809
## X1005 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000  13.876317
## X1102 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
## X1108 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
## X1202 0.0000000  0.0000000 0.0000000 6.4297497  0.000000    0.000000   0.000000
## X1208 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
## X1213 0.0000000  0.0000000 0.0000000 1.0247751  0.000000    0.000000  11.918837
## X1214 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000  10.683669
## X1302 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   6.352508
## X1507 0.0000000  6.4376850 0.0000000 2.9137999  8.754756    0.000000   0.000000
## X1514 0.0000000  6.4376850 0.0000000 2.9137999  8.754756    0.000000   0.000000
## X1517 1.9440463  0.0000000 1.9902329 0.9017473  0.000000    0.000000   0.000000
## X1601 0.0000000  7.9774606 0.0000000 3.6107289  5.424366    0.000000   0.000000
## X1602 1.9201921  3.9357014 0.9829061 2.6720476  2.676125    0.000000   0.000000
## X1704 1.6796629  1.7213516 0.8597844 2.3373395  0.000000    0.000000   0.000000
## X1806 1.1745499  1.2037018 1.2024565 1.6344501  0.000000    0.000000   0.000000
## X1901 1.1265013  1.1544607 1.1532665 1.5675883  1.569977    0.000000   0.000000
## X1902 0.0000000  6.4376850 0.0000000 2.9137999  8.754756    0.000000   0.000000
## X1905 1.0698448  0.0000000 1.0952641 0.9924987  0.000000    0.000000   0.000000
## X2001 0.0000000  6.4376850 0.0000000 2.9137999  8.754756    0.000000   0.000000
## X2002 0.0000000  6.4376850 0.0000000 2.9137999  8.754756    0.000000   0.000000
## X2003 0.0000000  6.4376850 0.0000000 2.9137999  8.754756    0.000000   0.000000
## X2004 0.0000000  6.4376850 0.0000000 2.9137999  8.754756    0.000000   0.000000
## X2005 1.5726715  1.6117047 0.8050179 2.1884557  2.191793    0.000000   0.000000
## X2006 3.6223945  0.0000000 1.8542259 1.6802483  0.000000    0.000000   0.000000
## X2007 2.3649893  2.4236876 1.2105879 2.1940030  3.296028    0.000000   0.000000
## X2008 1.1265013  1.1544607 1.1532665 1.5675883  0.000000    0.000000   0.000000
## X2101 0.0000000  6.4376850 0.0000000 2.9137999  8.754756    0.000000   0.000000
## X2102 2.7691172  2.8378459 1.4174521 2.5689121  0.000000    0.000000   0.000000
## X2103 0.0000000  7.9774606 0.0000000 3.6107289  5.424366    0.000000   0.000000
## X2104 0.0000000 10.4988279 0.0000000 4.7519370  0.000000    0.000000   0.000000
## X2106 0.0000000  4.0347135 1.0076334 1.8261795  2.743449    0.000000   0.000000
## X2202 0.0000000  2.2965158 1.1470680 1.0394415  3.123084    0.000000   0.000000
## X2206 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X2208 3.2698252  0.0000000 1.6737534 1.5167092  0.000000    0.000000   0.000000
## X2209 0.0000000  6.4376850 0.0000000 2.9137999  8.754756    0.000000   0.000000
## X2302 0.0000000 10.4988279 0.0000000 4.7519370  0.000000    0.000000   0.000000
## X2309 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
## X2402 3.7978668  0.0000000 1.9440463 1.7616411  0.000000    0.000000   0.000000
## X2403 3.7978668  0.0000000 1.9440463 1.7616411  0.000000    0.000000   0.000000
## X2507 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X2508 1.9440463  0.0000000 1.9902329 0.9017473  0.000000    0.000000   0.000000
## X2512 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X2517 1.3664149  0.0000000 0.6994397 0.6338132  0.000000    0.000000  11.057499
## X2519 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
## X2520 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X2522 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X2525 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X2530 3.0772452  0.0000000 1.5751760 1.4273811  0.000000    0.000000   0.000000
## X2602 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X2606 3.7978668  0.0000000 1.9440463 1.7616411  0.000000    0.000000   0.000000
## X2607 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X2608 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X2710 0.0000000 10.4988279 0.0000000 4.7519370  0.000000    0.000000   0.000000
## X2713 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X2714 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X2716 1.8741945  0.0000000 0.9593609 1.7386931  0.000000    0.000000   5.055545
## X2804 1.6328933  1.6734212 1.6716882 1.5148382  0.000000    0.000000   0.000000
## X2811 1.6328933  1.6734212 1.6716882 1.5148382  0.000000    0.000000   0.000000
## X2825 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X2826 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
## X2832 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
## X2833 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
## X2835 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
```

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## X2836 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X2901 1.6328933  1.6734212 1.6716882 1.5148382  0.000000    0.000000   0.000000
## X2903 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X2907 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
## X2915 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
## X2933 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
## X3105 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X3202 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
## X3204 1.8969151  0.0000000 1.9419821 0.8798855  0.000000    0.000000   0.000000
## X3205 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X3206 0.0000000  0.0000000 1.1525662 0.0000000  0.000000    0.000000   0.000000
## X3207 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X3208 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X3209 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X3210 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
## X3211 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X3212 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X3214 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X3215 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X3302 0.0000000  2.4991640 1.2482869 1.1311633  3.398670    0.000000   0.000000
## X3303 3.7978668  0.0000000 1.9440463 1.7616411  0.000000    0.000000   0.000000
## X3304 3.7978668  0.0000000 1.9440463 1.7616411  0.000000    0.000000   0.000000
## X3305 3.2249778  0.0000000 1.6507970 2.9918135  0.000000    0.000000   0.000000
## X3307 3.7978668  0.0000000 1.9440463 1.7616411  0.000000    0.000000   0.000000
## X3402 1.3866282  1.4210438 1.4195729 1.9295674  1.932509    0.000000   0.000000
## X3403 1.7953373  0.0000000 1.8379912 0.8327687  0.000000    0.000000   0.000000
## X3506 1.3990449  2.8675375 0.7161423 1.9468459  1.949814    0.000000   0.000000
## X3507 0.0000000  2.4991640 1.2482869 1.1311633  3.398670    0.000000   0.000000
## X3605 0.0000000 10.4988279 0.0000000 4.7519370  0.000000    0.000000   0.000000
## X3701 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X3707 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X3802 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X3808 3.7978668  0.0000000 1.9440463 1.7616411  0.000000    0.000000   0.000000
## X3809 1.5518568  0.0000000 1.5887266 1.4396607  0.000000    0.000000   0.000000
## X3810 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X3811 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X3814 0.0000000  0.0000000 1.1525662 0.0000000  0.000000    0.000000   0.000000
## X3815 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
## X3816 3.7978668  0.0000000 1.9440463 1.7616411  0.000000    0.000000   0.000000
## X3819 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X3820 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X3823 0.0000000 10.4988279 0.0000000 4.7519370  0.000000    0.000000   0.000000
## X3902 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
## X3908 2.3649893  2.4236876 1.2105879 2.1940030  3.296028    0.000000   0.000000
## X3909 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
## X3910 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
## X3911 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
## X3915 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
## X3916 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X3917 1.4465342  0.0000000 1.4809020 0.6709765  0.000000    0.000000   0.000000
## X3919 0.0000000  0.0000000 1.1525662 0.0000000  0.000000    0.000000   0.000000
## X3920 0.0000000  1.8905177 0.9442797 0.8556804  0.000000    0.000000   0.000000
## X3921 0.0000000  0.0000000 1.0517251 0.0000000  0.000000    0.000000   0.000000
## X3923 0.0000000  3.3278425 0.0000000 1.5062362  4.525609    0.000000   0.000000
## X3924 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X3925 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
## X3926 1.4245557  0.0000000 1.4584014 0.6607818  1.985368    0.000000   7.685330
## X4001 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X4005 0.0000000 10.4988279 0.0000000 4.7519370  0.000000    0.000000   0.000000
## X4006 0.0000000 10.4988279 0.0000000 4.7519370  0.000000    0.000000   0.000000
## X4008 3.7978668  0.0000000 1.9440463 1.7616411  0.000000    0.000000   0.000000
## X4009 0.0000000 10.4988279 0.0000000 4.7519370  0.000000    0.000000   0.000000
## X4010 0.0000000  2.8716790 0.0000000 1.2997694  3.905262    0.000000   0.000000
## X4012 0.0000000 10.4988279 0.0000000 4.7519370  0.000000    0.000000   0.000000
## X4013 0.0000000 10.4988279 0.0000000 4.7519370  0.000000    0.000000   0.000000
## X4015 0.0000000  0.0000000 0.0000000 0.0000000 46.924941    0.000000   0.000000
## X4016 0.0000000  8.0481383 0.0000000 3.6427164 10.944850    0.000000   0.000000
## X4202 0.0000000  0.0000000 0.9829061 0.0000000  0.000000    0.000000   0.000000
## X4203 0.0000000  0.0000000 0.0000000 0.0000000 46.924941    0.000000   0.000000
## X4409 0.0000000  2.0344158 1.0161541 0.9208110  2.766648    0.000000   0.000000
## X4415 0.0000000  4.0347135 1.0076334 1.8261795  2.743449    0.000000   0.000000
## X4416 0.0000000  0.0000000 1.0517251 0.0000000  0.000000    0.000000   0.000000
## X4418 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X4420 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X4421 2.8021309  0.0000000 1.4343511 1.2997694  0.000000    0.000000   0.000000
## X4602 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000  84.767385
## X4804 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
## X4808 0.0000000  0.0000000 0.9709911 0.0000000  0.000000    0.000000   0.000000
## X4818 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
```

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## X4819 0.0000000  6.4376850 0.0000000 2.9137999  8.754756    0.000000   0.000000
## X4821 0.0000000  2.9063274 0.0000000 1.3154518  3.952381    0.000000   0.000000
## X4822 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
## X4823 0.0000000  0.0000000 1.5349916 0.0000000  0.000000    0.000000   0.000000
## X4901 3.7978668  0.0000000 1.9440463 1.7616411  0.000000    0.000000   0.000000
## X4902 3.7978668  0.0000000 1.9440463 1.7616411  0.000000    0.000000   0.000000
## X4907 3.7978668  0.0000000 1.9440463 1.7616411  0.000000    0.000000   0.000000
## X4911 2.3649893  2.4236876 1.2105879 2.1940030  3.296028    0.000000   0.000000
## X5111 0.0000000  0.0000000 1.7466150 0.0000000  0.000000    0.000000   0.000000
## X5112 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X5205 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X5206 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X5208 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X5209 0.0000000  2.9063274 0.0000000 1.3154518  3.952381    0.000000   0.000000
## X5210 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X5211 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X5402 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X5407 1.4116854  0.0000000 1.4452253 0.6548119  0.000000    0.000000   0.000000
## X5408 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X5505 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X5508 1.9767872  2.0258505 1.0118758 1.8338683  2.755000    0.000000   0.000000
## X5509 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X5511 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X5512 0.0000000  3.7123013 0.0000000 1.6802483  5.048444    0.000000   0.000000
## X5513 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X5514 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X5515 0.0000000  5.0815134 0.0000000 2.2999753  6.910467    0.000000   0.000000
## X5516 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X5601 3.7978668  0.0000000 1.9440463 1.7616411  0.000000    0.000000   0.000000
## X5603 0.0000000  2.1919406 1.0948347 0.9921091  2.980870    0.000000   0.000000
## X5609 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X5806 0.0000000  2.9063274 0.0000000 1.3154518  3.952381    0.000000   0.000000
## X5807 0.0000000  2.9063274 0.0000000 1.3154518  3.952381    0.000000   0.000000
## X5903 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
## X5907 0.0000000  6.4376850 0.0000000 2.9137999  8.754756    0.000000   0.000000
## X5911 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X6002 1.1237967  1.1516889 1.1504976 1.0425497  1.566207    0.000000   0.000000
## X6101 0.0000000  6.4376850 0.0000000 2.9137999  8.754756    0.000000   0.000000
## X6103 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X6104 2.1886896  0.0000000 1.1203440 1.0152250  0.000000    0.000000   0.000000
## X6105 0.0000000  6.4376850 0.0000000 2.9137999  8.754756    0.000000   0.000000
## X6106 2.1886896  0.0000000 1.1203440 1.0152250  0.000000    0.000000   0.000000
## X6107 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X6109 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X6110 0.0000000  4.0558372 0.0000000 1.8357381  5.515626    0.000000   0.000000
## X6111 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X6112 0.0000000  0.0000000 0.0000000 0.0000000  0.000000   60.946744   0.000000
## X6114 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X6115 2.0912350  0.0000000 1.0704591 0.9700207  0.000000    0.000000   0.000000
## X6117 0.0000000  6.4376850 0.0000000 2.9137999  8.754756    0.000000   0.000000
## X6201 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X6202 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X6203 0.0000000  2.8212261 0.0000000 1.2769337  3.836650    0.000000   0.000000
## X6204 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X6205 2.3649893  2.4236876 1.2105879 2.1940030  3.296028    0.000000   0.000000
## X6206 1.7749670  0.0000000 0.9085685 0.8233199  0.000000    0.000000   0.000000
## X6210 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X6211 0.0000000  2.2326087 0.0000000 1.0105162  3.036175    0.000000   5.876497
## X6212 0.0000000  1.3684089 0.6834963 0.6193657  1.860930    0.000000   0.000000
## X6217 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X6302 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X6303 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X6304 0.0000000  0.0000000 0.0000000 0.0000000  0.000000    0.000000   0.000000
## X6305 0.0000000  0.0000000 1.1525662 0.0000000  0.000000    0.000000   0.000000
## X6306 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
## X6307 0.0000000  0.0000000 0.0000000 0.0000000  6.251792    0.000000   0.000000
## X6401 3.7978668  0.0000000 1.9440463 1.7616411  0.000000    0.000000   0.000000
## X6403 3.2698252  0.0000000 1.6737534 1.5167092  0.000000    0.000000   0.000000
## X6404 0.0000000  0.0000000 2.0430009 0.0000000  0.000000    0.000000   0.000000
##           X603       X702       X703       X709      X712       X713       X804
## X102    0.0000  0.9905484   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X210    0.0000  1.0151335   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X401    0.0000  0.5070420   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X403    0.0000  0.9189354   0.000000  0.0000000  0.000000  0.4840729   0.000000
## X406    0.0000  2.7610043   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X510    0.0000  0.0000000   0.000000  0.0000000  0.000000 18.5049709   0.000000
## X602    0.0000  5.3439015  28.890810  6.6536596  0.000000 11.2601545  12.965392
## X603    0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000 596.637345
## X702    0.0000  0.0000000   8.380352  4.5034413  0.000000  4.3550303  10.029001
```

```
## X703    0.0000  8.3803519   0.000000 10.4343259  0.000000  8.8291353  40.664880
## X709    0.0000  4.5034413  10.434326  0.0000000  0.000000 11.1837143  14.047925
## X712    0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X713    0.0000  4.3550303   8.829135 11.1837143  0.000000  0.0000000  17.169866
## X804  596.6373 10.0290008  40.664880 14.0479246  0.000000 17.1698659   0.000000
## X805    0.0000  2.0997495   0.000000 14.3791128  0.000000 19.9097518  30.566457
## X808    0.0000  0.0000000  88.621964 10.2049739  0.000000  8.6350649  39.771068
## X809    0.0000  0.9905484   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X813    0.0000  2.7934506   0.000000  3.4781086  0.000000  0.0000000   0.000000
## X901    0.0000  1.2044222  13.022947 13.4965646  0.000000 21.5716593  17.533013
## X904    0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X1001   0.0000  3.5405730   6.380451  6.6125119  0.000000  8.0820484   5.726741
## X1003   0.0000  2.4240242   3.744260  0.4311617  0.000000  2.1890004   0.000000
## X1005   0.0000  5.3668245  21.760960 12.5291149  0.000000 11.3084530  22.786678
## X1102   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X1108   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X1202   0.0000  0.0000000   0.000000  0.0000000  0.000000 11.4269133  17.543212
## X1208   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X1213   0.0000  4.0335319  12.460815  7.8919038  0.000000  7.2849150   8.388106
## X1214   0.0000  4.1320538   7.446321  9.0033726  0.000000  7.6183284   6.683411
## X1302   0.0000  4.2996133   3.320686 10.7068193  0.000000  8.4126021  10.431635
## X1507   0.0000  1.6383915   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X1514   0.0000  1.6383915   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X1517   0.0000  0.5070420   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X1601   0.0000  1.0151335   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X1602   0.0000  1.0016408   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X1704   0.0000  1.3142595   0.000000  1.0909159  0.000000  1.3846399   0.000000
## X1806   0.0000  0.9190344   0.000000  0.7628543  0.000000  0.9682498   0.000000
## X1901   0.0000  1.1752519   0.000000  0.7316477  0.000000  0.9286410   0.000000
## X1902   0.0000  1.6383915   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X1905   0.0000  0.8371081   0.000000  0.6948503  0.000000  0.8819362   0.000000
## X2001   0.0000  1.6383915   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2002   0.0000  1.6383915   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2003   0.0000  1.6383915   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2004   0.0000  1.6383915   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2005   0.0000  1.6407256   0.000000  1.0214270  0.000000  1.2964415   0.000000
## X2006   0.0000  0.9447824   0.000000  0.0000000  0.000000  0.9953771   0.000000
## X2007   0.0000  1.2336615   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2008   0.0000  1.1752519   0.000000  1.4632954  0.000000  1.5477350   0.000000
## X2101   0.0000  1.6383915   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2102   0.0000  0.7222338   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2103   0.0000  1.0151335   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2104   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2106   0.0000  0.5134197   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2202   0.0000  1.1689311   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2206   0.0000  2.7934506   0.000000  3.4781086  0.000000  0.0000000   0.000000
## X2208   0.0000  0.8528266   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2209   0.0000  1.6383915   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2302   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2309   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2402   0.0000  0.9905484   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2403   0.0000  0.9905484   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2507   0.0000  4.3892594   0.000000  2.7325200  0.000000  0.0000000   0.000000
## X2508   0.0000  0.5070420   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2512   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2517   0.0000  3.5638632   7.706873  2.6624013  0.000000  4.8811264   6.917269
## X2519   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2520   0.0000  0.0000000   0.000000  0.0000000  0.000000 18.5049709  85.229540
## X2522   0.0000  0.0000000   0.000000  6.1211580  0.000000  5.1794945   0.000000
## X2525   0.0000  6.4704210   0.000000  8.0562838  0.000000  6.8169244   0.000000
## X2530   0.0000  2.4077959   8.678171  0.9993100  0.000000  0.8455791   3.894524
## X2602   0.0000  0.0000000   0.000000 34.0183184  0.000000 14.3925101   0.000000
## X2606   0.0000  0.9905484   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2607   0.0000 20.4919341 221.571946  0.0000000  0.000000  0.0000000  99.435313
## X2608   0.0000 20.4919341 221.571946  0.0000000  0.000000  0.0000000  99.435313
## X2710   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2713   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2714   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2716   0.0000  1.4664705   5.285432  1.8258910  0.000000  2.0600028   2.371957
## X2804   0.0000  0.4258882   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2811   0.0000  0.4258882   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2825   0.0000  0.0000000   0.000000  0.0000000 36.550000  0.0000000   0.000000
## X2826   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2832   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2833   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2835   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2836   0.0000  6.1468477   0.000000  7.6534044  0.000000  6.4760230   0.000000
## X2901   0.0000  0.4258882   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2903   0.0000  0.0000000   0.000000  1.1763422  0.000000  0.9953771   0.000000
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## X2907   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2915   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X2933   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3105   0.0000  0.0000000   0.000000  8.5039276  0.000000  7.1957036   0.000000
## X3202   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3204   0.0000  0.4947494   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3205   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3206   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3207   0.0000 12.2947419   0.000000 15.3081129  0.000000 12.9531488   0.000000
## X3208   0.0000  0.8709942   0.000000  1.0844689 10.359833  0.9176374   0.000000
## X3209   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3210   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3211   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3212   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3214   0.0000  0.0000000   0.000000  1.1763422  0.000000  0.9953771   0.000000
## X3215   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3302   0.0000  0.6360394   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3303   0.0000  0.9905484   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3304   0.0000  0.9905484   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3305   0.0000  0.8411297   0.000000  0.0000000  0.000000  0.8861736   0.000000
## X3307   0.0000  0.9905484   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3402   0.0000  0.7233166   0.000000  0.0000000  0.000000  0.3810255   0.000000
## X3403   0.0000  0.9365125   0.000000  0.5830222  0.000000  0.4933320   0.000000
## X3506   0.0000  0.7297935   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3507   0.0000  0.6360394   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3605   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3701   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3707   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3802   0.0000  0.0000000   0.000000  3.9241873  0.000000  3.3205000   0.000000
## X3808   0.0000  0.9905484   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3809   0.0000  0.4047526   0.000000  0.5039541  0.000000  0.8528553   0.000000
## X3810   0.0000  0.0000000   0.000000  0.0000000 36.550000  0.0000000   0.000000
## X3811   0.0000  6.1468477   0.000000  7.6534044  0.000000  6.4760230   0.000000
## X3814   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3815   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3816   0.0000  0.9905484   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3819   0.0000  6.1468477   0.000000  7.6534044  0.000000  6.4760230   0.000000
## X3820   0.0000  6.1468477   0.000000  7.6534044  0.000000  6.4760230   0.000000
## X3823   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3902   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3908   0.0000  1.2336615   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3909   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3910   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3911   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3915   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3916   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3917   0.0000  0.7545655   0.000000  0.9395031  0.000000  0.3974867   0.000000
## X3919   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3920   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3921   0.0000  0.5358856   0.000000  0.6672271  0.000000  0.5645831   0.000000
## X3923   0.0000  2.5408134   0.000000  1.0545164  0.000000  0.8922927   0.000000
## X3924   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3925   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X3926   0.0000  1.8577519   0.000000  0.4626142  0.000000  1.1743422   0.000000
## X4001   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X4005   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X4006   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X4008   0.0000  0.9905484   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X4009   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X4010   0.0000  1.4616887   0.000000  3.6398766  0.000000  2.3099468   0.000000
## X4012   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X4013   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X4015   0.0000  8.7816595   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X4016   0.0000  2.0482512   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X4202   0.0000  1.0016408   5.415151  0.6235676  0.000000  1.5829203   2.430171
## X4203   0.0000  8.7816595   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X4409   0.0000  1.0355224   0.000000  0.6446605  0.000000  0.0000000   0.000000
## X4415   0.0000  0.5134197   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X4416   0.0000  1.0717713   5.794299  2.0016814  0.000000  1.1291662   0.000000
## X4418   0.0000  6.4704210   0.000000  8.0562838  0.000000  6.8169244   0.000000
## X4420   0.0000  2.7934506   0.000000  3.4781086  0.000000  0.0000000   0.000000
## X4421   0.0000  1.4616887   0.000000  0.9099691  0.000000  0.0000000   0.000000
## X4602   0.0000  0.0000000  88.621964 10.2049739  0.000000  8.6350649  39.771068
## X4804   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X4808   0.0000  0.0000000   0.000000  0.6160086  0.000000  0.5212439   0.000000
## X4818   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X4819   0.0000  1.6383915   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X4821   0.0000  0.7396624   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X4822   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
```

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## X4823   0.0000  0.0000000   0.000000  0.9738166  0.000000  0.8240075   0.000000
## X4901   0.0000  0.9905484   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X4902   0.0000  0.9905484   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X4907   0.0000  0.9905484   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X4911   0.0000  1.2336615   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X5111   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X5112   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X5205   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X5206   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X5208   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X5209   0.0000  0.7396624   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X5210   0.0000  9.1058982   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X5211   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X5402   0.0000  0.0000000   0.000000  1.1763422  0.000000  0.9953771   0.000000
## X5407   0.0000  0.3681936   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X5408   0.0000 11.1769429   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X5505   0.0000  4.4691022   0.000000  2.7822259  0.000000  0.0000000   0.000000
## X5508   0.0000  1.0311627   0.000000  0.6419464  0.000000  0.5431915   0.000000
## X5509   0.0000  1.6822593   0.000000  1.0472848  0.000000  0.0000000   0.000000
## X5511   0.0000  2.7934506   0.000000  3.4781086  0.000000  0.0000000   0.000000
## X5512   0.0000  2.8343472   0.000000  1.1763422  0.000000  0.0000000   0.000000
## X5513   0.0000  9.1058982   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X5514   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X5515   0.0000  1.2932464   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X5516   0.0000  9.1058982   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X5601   0.0000  0.9905484   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X5603   0.0000  1.6735536   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X5609   0.0000  2.7934506   0.000000  3.4781086  0.000000  0.0000000   0.000000
## X5806   0.0000  0.7396624   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X5807   0.0000  0.7396624   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X5903   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X5907   0.0000  1.6383915   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X5911   0.0000  2.0236345   0.000000  0.8398709  0.000000  0.0000000   0.000000
## X6002   0.0000  0.8793227   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X6101   0.0000  1.6383915   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X6103   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X6104   0.0000  0.5708489   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X6105   0.0000  1.6383915   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X6106   0.0000  0.5708489   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X6107   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X6109   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X6110   0.0000  2.0644243   0.000000  1.2852005  0.000000  0.0000000   0.000000
## X6111   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X6112   0.0000  0.0000000   0.000000  1.1161704  0.000000  1.8889239   0.000000
## X6114   0.0000  2.0016042   0.000000  0.8307277  0.000000  0.0000000   0.000000
## X6115   0.0000  0.5454312   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X6117   0.0000  1.6383915   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X6201   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X6202   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X6203   0.0000  0.7180041   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X6204   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X6205   0.0000  1.2336615   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X6206   0.0000  0.9258867   0.000000  0.5764071  0.000000  0.4877346   0.000000
## X6210   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X6211   0.0000  1.7046037   0.000000  1.4149262  0.000000  1.1972585   0.000000
## X6212   0.0000  1.3930508   0.000000  1.7344756  0.000000  1.8345631   1.689898
## X6217   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X6302   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X6303   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X6304   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X6305   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X6306   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X6307   0.0000  1.1699802   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X6401   0.0000  0.9905484   0.000000  0.0000000  0.000000  0.0000000   0.000000
## X6403   0.0000  1.7056532   0.000000  1.0618486  0.000000  0.8984969   0.000000
## X6404   0.0000  0.0000000   0.000000  0.0000000  0.000000  0.0000000   0.000000
##             X805       X808      X809      X813       X901      X904      X1001
## X102    0.000000   0.000000 3.7978668  0.000000   0.000000  0.000000  0.0000000
## X210    0.000000   0.000000 0.0000000  0.000000   0.000000 10.498828  0.0000000
## X401    0.000000   0.000000 1.9440463  0.000000   0.000000  0.000000  0.0000000
## X403    1.867150   0.000000 1.7616411  0.000000   2.142006  4.751937  0.0000000
## X406    0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X510    0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000 40.1183565
## X602    0.000000  84.767385 0.0000000  0.000000   0.000000  0.000000  6.1029356
## X603    0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X702    2.099749   0.000000 0.9905484  2.793451   1.204422  0.000000  3.5405730
## X703    0.000000  88.621964 0.0000000  0.000000  13.022947  0.000000  6.3804507
## X709   14.379113  10.204974 0.0000000  3.478109  13.496565  0.000000  6.6125119
## X712    0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
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## X713   19.909752   8.635065 0.0000000  0.000000  21.571659  0.000000  8.0820484
## X804   30.566457  39.771068 0.0000000  0.000000  17.533013  0.000000  5.7267414
## X805    0.000000   0.000000 0.0000000  0.000000  92.994761  0.000000  0.0000000
## X808    0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000 18.7206220
## X809    0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X813    0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X901   92.994761   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X904    0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X1001   0.000000  18.720622 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X1003   0.000000   0.000000 1.3277012  0.000000   0.000000  0.000000  3.9547281
## X1005   8.178504  21.282652 0.0000000  0.000000   0.000000  0.000000 12.2581962
## X1102   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X1108   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X1202  44.075770   0.000000 0.0000000  0.000000  33.709331  0.000000  0.0000000
## X1208   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X1213   2.341598  18.280386 0.0000000  0.000000   2.686295  0.000000  7.8967362
## X1214   0.000000  10.923970 0.0000000  3.723160   0.000000  0.000000  7.0783972
## X1302  12.480273   0.000000 0.0000000  3.320686  12.885697  0.000000  5.6117547
## X1507   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X1514   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X1517   0.000000   0.000000 1.9440463  0.000000   0.000000  0.000000  0.0000000
## X1601   0.000000   0.000000 0.0000000  0.000000   0.000000 10.498828  0.0000000
## X1602   0.000000   0.000000 1.9201921  0.000000   0.000000  5.179621  0.0000000
## X1704   1.780262   0.000000 1.6796629  4.736831   2.042327  4.530805  3.0018533
## X1806   2.489793   0.000000 1.1745499  3.312355   2.856305  3.168286  2.0991289
## X1901   1.193970   0.000000 1.1265013  3.176853   1.369729  0.000000  1.3421719
## X1902   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X1905   1.133920   0.000000 1.0698448  3.017076   1.300840  0.000000  1.2746686
## X2001   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X2002   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X2003   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X2004   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X2005   1.666863   0.000000 1.5726715  4.435103   1.912235  0.000000  1.8737608
## X2006   0.000000   0.000000 3.6223945  0.000000   0.000000  0.000000  0.0000000
## X2007   0.000000   0.000000 2.3649893  0.000000   0.000000  0.000000  0.0000000
## X2008   1.193970   0.000000 1.1265013  3.176853   1.369729  3.038677  2.0132579
## X2101   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X2102   0.000000   0.000000 2.7691172  0.000000   0.000000  7.469557  0.0000000
## X2103   0.000000   0.000000 0.0000000  0.000000   0.000000 10.498828  0.0000000
## X2104   0.000000   0.000000 0.0000000  0.000000   0.000000 27.634216  0.0000000
## X2106   0.000000   0.000000 0.0000000  0.000000   0.000000  5.309927  0.0000000
## X2202   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  1.3349588
## X2206   0.000000   0.000000 0.0000000 30.204545   0.000000  0.000000  0.0000000
## X2208   0.000000   0.000000 3.2698252  0.000000   0.000000  0.000000  0.0000000
## X2209   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X2302   0.000000   0.000000 0.0000000  0.000000   0.000000 27.634216  0.0000000
## X2309   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X2402   0.000000   0.000000 3.7978668  0.000000   0.000000  0.000000  0.0000000
## X2403   0.000000   0.000000 3.7978668  0.000000   0.000000  0.000000  0.0000000
## X2507   0.000000   0.000000 0.0000000 23.729708   0.000000  0.000000  0.0000000
## X2508   0.000000   0.000000 1.9440463  0.000000   0.000000  0.000000  0.0000000
## X2512   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X2517   4.344758   0.000000 1.3664149  3.853436   3.322888  0.000000  4.0700414
## X2519   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X2520  71.377226   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X2522   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  5.6145090
## X2525   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000 14.7789340
## X2530   0.000000   0.000000 3.0772452  0.000000   0.000000  0.000000  0.0000000
## X2602 111.029345   0.000000 0.0000000  0.000000 127.373558  0.000000  0.0000000
## X2606   0.000000   0.000000 3.7978668  0.000000   0.000000  0.000000  0.0000000
## X2607   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X2608   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X2710   0.000000   0.000000 0.0000000  0.000000   0.000000 27.634216  0.0000000
## X2713   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X2714   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X2716   1.986445  15.507772 1.8741945  0.000000   2.278861  0.000000  3.3495149
## X2804   0.000000   0.000000 1.6328933  0.000000   0.000000  4.404646  0.0000000
## X2811   0.000000   0.000000 1.6328933  0.000000   0.000000  4.404646  0.0000000
## X2825   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X2826   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X2832   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X2833   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X2835   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X2836   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000 14.0398675
## X2901   0.000000   0.000000 1.6328933  0.000000   0.000000  4.404646  0.0000000
## X2903   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  2.1579502
## X2907   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X2915   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X2933   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
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## X3105   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000 15.6001190
## X3202   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X3204   0.000000   0.000000 1.8969151  0.000000   0.000000  0.000000  0.0000000
## X3205   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X3206   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X3207   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X3208   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X3209   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X3210   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X3211   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X3212   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X3214   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  2.1579502
## X3215   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X3302   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X3303   0.000000   0.000000 3.7978668  0.000000   0.000000  0.000000  0.0000000
## X3304   0.000000   0.000000 3.7978668  0.000000   0.000000  0.000000  0.0000000
## X3305   3.418130   0.000000 3.2249778  0.000000   3.921299  0.000000  0.0000000
## X3307   0.000000   0.000000 3.7978668  0.000000   0.000000  0.000000  0.0000000
## X3402   1.469677   0.000000 1.3866282  0.000000   1.686022  0.000000  0.0000000
## X3403   0.000000   0.000000 1.7953373  0.000000   0.000000  0.000000  1.0695278
## X3506   0.000000   0.000000 1.3990449  0.000000   0.000000  3.773851  0.0000000
## X3507   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X3605   0.000000   0.000000 0.0000000  0.000000   0.000000 27.634216  0.0000000
## X3701   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X3707   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X3802   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  7.1987645
## X3808   0.000000   0.000000 3.7978668  0.000000   0.000000  0.000000  0.0000000
## X3809   1.644801   0.000000 1.5518568  0.000000   1.886926  0.000000  0.0000000
## X3810   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X3811   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000 14.0398675
## X3814   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X3815   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X3816   0.000000   0.000000 3.7978668  0.000000   0.000000  0.000000  0.0000000
## X3819   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000 14.0398675
## X3820   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000 14.0398675
## X3823   0.000000   0.000000 0.0000000  0.000000   0.000000 27.634216  0.0000000
## X3902   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X3908   0.000000   0.000000 2.3649893  0.000000   0.000000  0.000000  0.0000000
## X3909   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X3910   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X3911   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X3915   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X3916   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X3917   0.000000   0.000000 1.4465342  4.079382   0.000000  0.000000  0.0000000
## X3919   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X3920   0.000000   0.000000 0.0000000  0.000000   0.000000  4.976071  0.0000000
## X3921   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  1.2239985
## X3923   0.000000   0.000000 0.0000000  9.157595   0.000000  0.000000  3.8689312
## X3924   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000 28.0821309
## X3925   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X3926   0.000000   0.000000 1.4245557  0.000000   0.000000  0.000000  1.6972883
## X4001   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X4005   0.000000   0.000000 0.0000000  0.000000   0.000000 27.634216  0.0000000
## X4006   0.000000   0.000000 0.0000000  0.000000   0.000000 27.634216  0.0000000
## X4008   0.000000   0.000000 3.7978668  0.000000   0.000000  0.000000  0.0000000
## X4009   0.000000   0.000000 0.0000000  0.000000   0.000000 27.634216  0.0000000
## X4010   0.000000   0.000000 0.0000000  7.902318   0.000000  0.000000  0.0000000
## X4012   0.000000   0.000000 0.0000000  0.000000   0.000000 27.634216  0.0000000
## X4013   0.000000   0.000000 0.0000000  0.000000   0.000000 27.634216  0.0000000
## X4015   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X4016   0.000000   0.000000 0.0000000  0.000000   0.000000 21.183695  0.0000000
## X4202   2.035197   0.000000 0.0000000  0.000000   2.334790  0.000000  1.1439069
## X4203   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X4409   0.000000   0.000000 0.0000000  5.598326   0.000000  0.000000  0.0000000
## X4415   0.000000   0.000000 0.0000000  0.000000   0.000000  5.309927  0.0000000
## X4416   0.000000   0.000000 0.0000000  5.794299   0.000000  0.000000  0.0000000
## X4418   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000 14.7789340
## X4420   0.000000   0.000000 0.0000000 30.204545   0.000000  0.000000  0.0000000
## X4421   0.000000   0.000000 2.8021309  7.902318   0.000000  0.000000  0.0000000
## X4602   0.000000 260.022222 0.0000000  0.000000   0.000000  0.000000 18.7206220
## X4804   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X4808   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  1.1300402
## X4818   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X4819   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X4821   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X4822   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X4823   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  1.7864248
## X4901   0.000000   0.000000 3.7978668  0.000000   0.000000  0.000000  0.0000000
## X4902   0.000000   0.000000 3.7978668  0.000000   0.000000  0.000000  0.0000000
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## X4907   0.000000   0.000000 3.7978668  0.000000   0.000000  0.000000  0.0000000
## X4911   0.000000   0.000000 2.3649893  0.000000   0.000000  0.000000  0.0000000
## X5111   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X5112   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X5205   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X5206   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X5208   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X5209   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X5210   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000 10.3992806
## X5211   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X5402   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  2.1579502
## X5407   0.000000   0.000000 1.4116854  0.000000   0.000000  0.000000  0.0000000
## X5408   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X5505   0.000000   0.000000 0.0000000 24.161363   0.000000  0.000000  0.0000000
## X5508   0.000000   0.000000 1.9767872  0.000000   0.000000  0.000000  1.1776219
## X5509   0.000000   0.000000 0.0000000  9.094794   0.000000  0.000000  0.0000000
## X5511   0.000000   0.000000 0.0000000 30.204545   0.000000  0.000000  0.0000000
## X5512   0.000000   0.000000 0.0000000 10.215554   0.000000  0.000000  0.0000000
## X5513   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000 10.3992806
## X5514   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X5515   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X5516   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000 10.3992806
## X5601   0.000000   0.000000 3.7978668  0.000000   0.000000  0.000000  0.0000000
## X5603   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  1.2741696
## X5609   0.000000   0.000000 0.0000000 30.204545   0.000000  0.000000  0.0000000
## X5806   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X5807   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X5903   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X5907   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X5911   0.000000   0.000000 0.0000000  7.293571   0.000000  0.000000  1.5407068
## X6002   0.000000   0.000000 1.1237967  0.000000   0.000000  0.000000  0.0000000
## X6101   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X6103   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X6104   0.000000   0.000000 2.1886896  0.000000   0.000000  0.000000  0.0000000
## X6105   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X6106   0.000000   0.000000 2.1886896  0.000000   0.000000  0.000000  0.0000000
## X6107   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X6109   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X6110   0.000000   0.000000 0.0000000 11.160901   0.000000  0.000000  0.0000000
## X6111   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X6112   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  2.0475673
## X6114   0.000000   0.000000 0.0000000  7.214169   0.000000  0.000000  1.5239339
## X6115   0.000000   0.000000 2.0912350  0.000000   0.000000  0.000000  1.2458013
## X6117   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X6201   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X6202   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X6203   2.917778   0.000000 0.0000000  0.000000   3.347293  0.000000  0.0000000
## X6204   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X6205   0.000000   0.000000 2.3649893  0.000000   0.000000  0.000000  0.0000000
## X6206   0.000000   0.000000 1.7749670  5.005600   0.000000  0.000000  0.0000000
## X6210   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X6211   2.309016   0.000000 0.0000000  0.000000   2.648917  0.000000  2.5956196
## X6212   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  2.3863600
## X6217   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X6302   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X6303   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X6304   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X6305   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X6306   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X6307   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
## X6401   0.000000   0.000000 3.7978668  0.000000   0.000000  0.000000  0.0000000
## X6403   0.000000   0.000000 3.2698252  0.000000   0.000000  0.000000  1.9479161
## X6404   0.000000   0.000000 0.0000000  0.000000   0.000000  0.000000  0.0000000
##            X1003      X1005     X1102     X1108      X1202     X1208      X1213
## X102   1.3277012  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X210   0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X401   1.3592461  0.0000000 2.0430009 2.0430009   0.000000 2.0430009  0.0000000
## X403   0.6158559  0.0000000 0.0000000 0.0000000   6.429750 0.0000000  1.0247751
## X406   1.8503840  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X510  23.5427700  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X602   7.1628093 13.8763173 0.0000000 0.0000000   0.000000 0.0000000 11.9188366
## X603   0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X702   2.4240242  5.3668245 0.0000000 0.0000000   0.000000 0.0000000  4.0335319
## X703   3.7442596 21.7609602 0.0000000 0.0000000   0.000000 0.0000000 12.4608147
## X709   0.4311617 12.5291149 0.0000000 0.0000000   0.000000 0.0000000  7.8919038
## X712   0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X713   2.1890004 11.3084530 0.0000000 0.0000000  11.426913 0.0000000  7.2849150
## X804   0.0000000 22.7866780 0.0000000 0.0000000  17.543212 0.0000000  8.3881063
## X805   0.0000000  8.1785038 0.0000000 0.0000000  44.075770 0.0000000  2.3415979
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## X808   0.0000000 21.2826518 0.0000000 0.0000000   0.000000 0.0000000 18.2803857
## X809   1.3277012  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X813   0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X901   0.0000000  0.0000000 0.0000000 0.0000000  33.709331 0.0000000  2.6862951
## X904   0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X1001  3.9547281 12.2581962 0.0000000 0.0000000   0.000000 0.0000000  7.8967362
## X1003  0.0000000  3.5967630 1.3952830 1.3952830   0.000000 1.3952830  0.0000000
## X1005  3.5967630  0.0000000 0.0000000 0.0000000   0.000000 0.0000000 10.4736903
## X1102  1.3952830  0.0000000 0.0000000 4.1943407   0.000000 4.1943407  0.0000000
## X1108  1.3952830  0.0000000 4.1943407 0.0000000   0.000000 4.1943407  0.0000000
## X1202  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  8.0635685
## X1208  1.3952830  0.0000000 4.1943407 4.1943407   0.000000 0.0000000  0.0000000
## X1213  0.0000000 10.4736903 0.0000000 0.0000000   8.063568 0.0000000  0.0000000
## X1214  0.4615391 10.7294845 0.0000000 0.0000000   0.000000 0.0000000  9.2159222
## X1302  0.8232940 10.3670980 0.0000000 0.0000000   0.000000 0.0000000  7.5347096
## X1507  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X1514  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X1517  1.3592461  0.0000000 2.0430009 2.0430009   0.000000 2.0430009  0.0000000
## X1601  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X1602  0.6712839  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X1704  1.7615913  3.4126733 0.0000000 0.0000000   6.130540 0.0000000  1.9541744
## X1806  1.6424574  2.3864056 1.2343360 1.2343360   4.286943 1.2343360  1.3665106
## X1901  1.1814511  1.5258551 1.1838417 1.1838417   4.111572 1.1838417  1.3106095
## X1902  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X1905  1.4960418  1.4491136 1.1243013 1.1243013   3.904783 1.1243013  1.2446936
## X2001  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2002  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2003  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2004  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2005  1.0995878  2.1301951 0.0000000 0.0000000   5.740035 0.0000000  1.8296974
## X2006  2.5327155  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2007  0.8267808  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2008  1.1814511  2.2887827 1.1838417 1.1838417   4.111572 1.1838417  1.9659142
## X2101  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2102  0.9680601  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2103  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2104  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2106  0.6881716  0.0000000 2.0686986 2.0686986   0.000000 2.0686986  0.0000000
## X2202  1.5667988  1.5176554 2.3549622 2.3549622   0.000000 2.3549622  0.0000000
## X2206  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2208  1.1431028  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2209  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2302  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2309  1.3952830  0.0000000 4.1943407 4.1943407   0.000000 4.1943407  0.0000000
## X2402  1.3277012  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2403  1.3277012  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2507  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  4.8948184
## X2508  1.3592461  0.0000000 2.0430009 2.0430009   0.000000 2.0430009  0.0000000
## X2512  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2517  3.8215083  2.7762290 0.0000000 0.0000000   9.974451 0.0000000  2.3845982
## X2519  1.3952830  0.0000000 4.1943407 4.1943407   0.000000 4.1943407  0.0000000
## X2520  0.0000000  0.0000000 0.0000000 0.0000000 245.796205 0.0000000  0.0000000
## X2522  0.0000000  6.3828879 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2525  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000 14.4313909
## X2530  2.1515574  2.0840743 0.0000000 0.0000000   0.000000 0.0000000  3.5801641
## X2602  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2606  1.3277012  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2607  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2608  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2710  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2713  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2714  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2716  0.6552035  1.2693049 0.0000000 0.0000000   6.840555 0.0000000  5.4512461
## X2804  1.1416938  0.0000000 1.7160098 1.7160098   0.000000 1.7160098  0.0000000
## X2811  1.1416938  0.0000000 1.7160098 1.7160098   0.000000 1.7160098  0.0000000
## X2825  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2826  1.3952830  0.0000000 4.1943407 4.1943407   0.000000 4.1943407  0.0000000
## X2832  1.3952830  0.0000000 4.1943407 4.1943407   0.000000 4.1943407  0.0000000
## X2833  1.3952830  0.0000000 4.1943407 4.1943407   0.000000 4.1943407  0.0000000
## X2835  1.3952830  0.0000000 4.1943407 4.1943407   0.000000 4.1943407  0.0000000
## X2836  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2901  1.1416938  0.0000000 1.7160098 1.7160098   0.000000 1.7160098  0.0000000
## X2903  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  2.1072037
## X2907  1.3952830  0.0000000 4.1943407 4.1943407   0.000000 4.1943407  0.0000000
## X2915  1.3952830  0.0000000 4.1943407 4.1943407   0.000000 4.1943407  0.0000000
## X2933  1.3952830  0.0000000 4.1943407 4.1943407   0.000000 4.1943407  0.0000000
## X3105  0.0000000 17.7350891 0.0000000 0.0000000   0.000000 0.0000000 15.2332648
## X3202  1.3952830  0.0000000 4.1943407 4.1943407   0.000000 4.1943407  0.0000000
## X3204  1.9894393  0.0000000 1.9934707 1.9934707   0.000000 1.9934707  0.0000000
```

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## X3205  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3206  0.7871545  0.0000000 2.3662503 2.3662503   0.000000 2.3662503  0.0000000
## X3207  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000 27.4217482
## X3208  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.9426290
## X3209  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3210  1.3952830  0.0000000 4.1943407 4.1943407   0.000000 4.1943407  0.0000000
## X3211  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3212 27.4667990  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3214  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  2.1072037
## X3215  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3302  0.8525276  0.0000000 2.5627679 2.5627679   0.000000 2.5627679  0.0000000
## X3303  1.3277012  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3304  1.3277012  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3305  1.1274246  0.0000000 0.0000000 0.0000000  11.770739 0.0000000  1.8760203
## X3307  1.3277012  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3402  0.9695098  0.0000000 1.4572094 1.4572094   5.061001 1.4572094  0.8066245
## X3403  1.2552716  0.0000000 1.8867224 1.8867224   0.000000 1.8867224  0.0000000
## X3506  0.4890957  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3507  0.8525276  0.0000000 2.5627679 2.5627679   0.000000 2.5627679  0.0000000
## X3605  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3701  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3707  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3802  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  7.0294776
## X3808  1.3277012  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3809  1.0850346  0.0000000 1.6308484 1.6308484   5.664064 1.6308484  0.9027404
## X3810  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3811  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3814  0.7871545  0.0000000 2.3662503 2.3662503   0.000000 2.3662503  0.0000000
## X3815  1.3952830  0.0000000 4.1943407 4.1943407   0.000000 4.1943407  0.0000000
## X3816  1.3277012  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3819  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3820  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3823  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3902  1.3952830  0.0000000 4.1943407 4.1943407   0.000000 4.1943407  0.0000000
## X3908  0.8267808  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3909  1.3952830  0.0000000 4.1943407 4.1943407   0.000000 4.1943407  0.0000000
## X3910  1.3952830  0.0000000 4.1943407 4.1943407   0.000000 4.1943407  0.0000000
## X3911  1.3952830  0.0000000 4.1943407 4.1943407   0.000000 4.1943407  0.0000000
## X3915  1.3952830  0.0000000 4.1943407 4.1943407   0.000000 4.1943407  0.0000000
## X3916  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3917  1.0113950  0.0000000 1.5201647 1.5201647   0.000000 1.5201647  0.0000000
## X3919  0.7871545  0.0000000 2.3662503 2.3662503   0.000000 2.3662503  0.0000000
## X3920  0.6449037  0.0000000 1.9386314 1.9386314   0.000000 1.9386314  0.0000000
## X3921  0.7182843  0.0000000 2.1592202 2.1592202   0.000000 2.1592202  0.0000000
## X3923  2.2704193  4.3984167 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3924 16.4795178 31.9253399 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3925  1.3952830  0.0000000 4.1943407 4.1943407   0.000000 4.1943407  0.0000000
## X3926  2.9880841  0.9647857 1.4970675 1.4970675   0.000000 1.4970675  0.8286875
## X4001  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4005  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4006  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4008  1.3277012  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4009  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4010  0.0000000  1.8977524 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4012  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4013  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4015 11.7706829  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4016  2.7454157  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4202  1.3425677  2.6009137 2.0179326 2.0179326   0.000000 2.0179326  1.1170067
## X4203 11.7706829  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4409  0.6939908  0.0000000 2.0861918 2.0861918   0.000000 2.0861918  0.0000000
## X4415  0.6881716  0.0000000 2.0686986 2.0686986   0.000000 2.0686986  0.0000000
## X4416  1.4365685  1.3915096 2.1592202 2.1592202   0.000000 2.1592202  0.0000000
## X4418  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000 14.4313909
## X4420  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4421  0.9796014  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4602  0.0000000 21.2826518 0.0000000 0.0000000   0.000000 0.0000000 18.2803857
## X4804  1.3952830  0.0000000 4.1943407 4.1943407   0.000000 4.1943407  0.0000000
## X4808  0.6631464  0.0000000 1.9934707 1.9934707   0.000000 1.9934707  1.1034661
## X4818  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4819  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4821  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4822  1.3952830  0.0000000 4.1943407 4.1943407   0.000000 4.1943407  0.0000000
## X4823  1.0483345  0.0000000 3.1513815 3.1513815   0.000000 3.1513815  1.7444151
## X4901  1.3277012  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4902  1.3277012  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4907  1.3277012  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4911  0.8267808  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5111  1.1928642  0.0000000 3.5858510 3.5858510   0.000000 3.5858510  0.0000000
```

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## X5112  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5205  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5206  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5208  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5209  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5210  6.1026409 11.8224845 0.0000000 0.0000000   0.000000 0.0000000 10.1547299
## X5211  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5402  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  2.1072037
## X5407  0.9870294  0.0000000 1.4835421 1.4835421   0.000000 1.4835421  0.0000000
## X5408  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000 24.9286493
## X5505  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  4.9838577
## X5508  0.6910690  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.1499289
## X5509  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.8760203
## X5511  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5512  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  2.1072037
## X5513  6.1026409 11.8224845 0.0000000 0.0000000   0.000000 0.0000000 10.1547299
## X5514  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5515  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5516  6.1026409 11.8224845 0.0000000 0.0000000   0.000000 0.0000000 10.1547299
## X5601  1.3277012  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5603  1.4954526  1.4485468 2.2477256 2.2477256   0.000000 2.2477256  1.2442061
## X5609  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5806  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5807  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5903  1.3952830  0.0000000 4.1943407 4.1943407   0.000000 4.1943407  0.0000000
## X5907  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5911  0.9041391  1.7515613 0.0000000 0.0000000   0.000000 0.0000000  1.5044755
## X6002  0.7857430  0.0000000 1.1809994 1.1809994   0.000000 1.1809994  0.6537314
## X6101  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6103  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6104  0.7651480  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6105  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6106  0.7651480  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6107  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6109  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6110  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6111  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6112  1.2015815  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6114  0.8942962  1.7324929 0.0000000 0.0000000   0.000000 0.0000000  1.4880970
## X6115  1.4621577  1.4162961 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6117  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6201  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6202  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6203  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6204  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6205  0.8267808  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6206  1.2410290  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6210  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6211  0.7615992  2.9508447 0.0000000 0.0000000   0.000000 0.0000000  1.2672905
## X6212  0.4667999  1.8086307 1.4032349 1.4032349   0.000000 1.4032349  1.5534949
## X6217  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6302  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6303  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6304  0.0000000  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6305  0.7871545  0.0000000 2.3662503 2.3662503   0.000000 2.3662503  0.0000000
## X6306  1.3952830  0.0000000 4.1943407 4.1943407   0.000000 4.1943407  0.0000000
## X6307  1.5682065  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6401  1.3277012  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6403  1.1431028  0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6404  1.3952830  0.0000000 4.1943407 4.1943407   0.000000 4.1943407  0.0000000
##            X1214      X1302      X1507      X1514     X1517      X1601
## X102   0.0000000  0.0000000  0.0000000  0.0000000 1.9440463  0.0000000
## X210   0.0000000  0.0000000  6.4376850  6.4376850 0.0000000  7.9774606
## X401   0.0000000  0.0000000  0.0000000  0.0000000 1.9902329  0.0000000
## X403   0.0000000  0.0000000  2.9137999  2.9137999 0.9017473  3.6107289
## X406   0.0000000  0.0000000  8.7547564  8.7547564 0.0000000  5.4243658
## X510   0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X602  10.6836690  6.3525080  0.0000000  0.0000000 0.0000000  0.0000000
## X603   0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X702   4.1320538  4.2996133  1.6383915  1.6383915 0.5070420  1.0151335
## X703   7.4463206  3.3206858  0.0000000  0.0000000 0.0000000  0.0000000
## X709   9.0033726 10.7068193  0.0000000  0.0000000 0.0000000  0.0000000
## X712   0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X713   7.6183284  8.4126021  0.0000000  0.0000000 0.0000000  0.0000000
## X804   6.6834114 10.4316347  0.0000000  0.0000000 0.0000000  0.0000000
## X805   0.0000000 12.4802731  0.0000000  0.0000000 0.0000000  0.0000000
## X808  10.9239703  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X809   0.0000000  0.0000000  0.0000000  0.0000000 1.9440463  0.0000000
## X813   3.7231603  3.3206858  0.0000000  0.0000000 0.0000000  0.0000000
```

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## X901   0.0000000 12.8856969  0.0000000  0.0000000 0.0000000  0.0000000
## X904   0.0000000  0.0000000  0.0000000  0.0000000 0.0000000 10.4988279
## X1001  7.0783972  5.6117547  0.0000000  0.0000000 0.0000000  0.0000000
## X1003  0.4615391  0.8232940  0.0000000  0.0000000 1.3592461  0.0000000
## X1005 10.7294845 10.3670980  0.0000000  0.0000000 0.0000000  0.0000000
## X1102  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
## X1108  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
## X1202  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X1208  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
## X1213  9.2159222  7.5347096  0.0000000  0.0000000 0.0000000  0.0000000
## X1214  0.0000000  8.1865467  0.0000000  0.0000000 0.0000000  0.0000000
## X1302  8.1865467  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X1507  0.0000000  0.0000000  0.0000000 10.3902222 0.0000000  6.4376850
## X1514  0.0000000  0.0000000 10.3902222  0.0000000 0.0000000  6.4376850
## X1517  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X1601  0.0000000  0.0000000  6.4376850  6.4376850 0.0000000  0.0000000
## X1602  0.0000000  0.0000000  3.1760477  3.1760477 0.9829061  3.9357014
## X1704  1.1677764  1.0415403  0.0000000  0.0000000 0.8597844  1.7213516
## X1806  0.8166010  0.7283271  0.0000000  0.0000000 1.2024565  1.2037018
## X1901  0.7831957  0.6985329  1.8632613  1.8632613 1.1532665  1.1544607
## X1902  0.0000000  0.0000000 10.3902222 10.3902222 0.0000000  6.4376850
## X1905  0.7438058  0.6634010  0.0000000  0.0000000 1.0952641  0.0000000
## X2001  0.0000000  0.0000000 10.3902222 10.3902222 0.0000000  6.4376850
## X2002  0.0000000  0.0000000 10.3902222 10.3902222 0.0000000  6.4376850
## X2003  0.0000000  0.0000000 10.3902222 10.3902222 0.0000000  6.4376850
## X2004  0.0000000  0.0000000 10.3902222 10.3902222 0.0000000  6.4376850
## X2005  1.0933916  0.9751965  2.6012390  2.6012390 0.8050179  1.6117047
## X2006  0.0000000  0.0000000  0.0000000  0.0000000 1.8542259  0.0000000
## X2007  0.0000000  0.0000000  3.9117544  3.9117544 1.2105879  2.4236876
## X2008  1.5663914  1.3970658  0.0000000  0.0000000 1.1532665  1.1544607
## X2101  0.0000000  0.0000000 10.3902222 10.3902222 0.0000000  6.4376850
## X2102  0.0000000  0.0000000  0.0000000  0.0000000 1.4174521  2.8378459
## X2103  0.0000000  0.0000000  6.4376850  6.4376850 0.0000000  7.9774606
## X2104  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000 10.4988279
## X2106  0.0000000  0.0000000  3.2559489  3.2559489 1.0076334  4.0347135
## X2202  0.7789849  0.6947768  3.7065030  3.7065030 1.1470680  2.2965158
## X2206  3.7231603  3.3206858  0.0000000  0.0000000 0.0000000  0.0000000
## X2208  1.1366613  1.0137883  0.0000000  0.0000000 1.6737534  0.0000000
## X2209  0.0000000  0.0000000 10.3902222 10.3902222 0.0000000  6.4376850
## X2302  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000 10.4988279
## X2309  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
## X2402  0.0000000  0.0000000  0.0000000  0.0000000 1.9440463  0.0000000
## X2403  0.0000000  0.0000000  0.0000000  0.0000000 1.9440463  0.0000000
## X2507  5.8500817  5.2176867  0.0000000  0.0000000 0.0000000  0.0000000
## X2508  0.0000000  0.0000000  0.0000000  0.0000000 1.9902329  0.0000000
## X2512  8.1926287  7.3070030  0.0000000  0.0000000 0.0000000  0.0000000
## X2517  3.3249771  2.9655491  0.0000000  0.0000000 0.6994397  0.0000000
## X2519  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
## X2520  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X2522  6.5524268  5.8441080  0.0000000  0.0000000 0.0000000  0.0000000
## X2525  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X2530  2.1394332  1.9081606  0.0000000  0.0000000 1.5751760  0.0000000
## X2602  0.0000000 32.4786121  0.0000000  0.0000000 0.0000000  0.0000000
## X2606  0.0000000  0.0000000  0.0000000  0.0000000 1.9440463  0.0000000
## X2607  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X2608  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X2710  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000 10.4988279
## X2713  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X2714  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X2716  2.6060456  1.7432497  0.0000000  0.0000000 0.9593609  0.0000000
## X2804  0.0000000  0.0000000  0.0000000  0.0000000 1.6716882  1.6734212
## X2811  0.0000000  0.0000000  0.0000000  0.0000000 1.6716882  1.6734212
## X2825  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X2826  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
## X2832  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
## X2833  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
## X2835  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
## X2836  8.1926287  7.3070030  0.0000000  0.0000000 0.0000000  0.0000000
## X2901  0.0000000  0.0000000  0.0000000  0.0000000 1.6716882  1.6734212
## X2903  1.2592217  1.1230999  0.0000000  0.0000000 0.0000000  0.0000000
## X2907  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
## X2915  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
## X2933  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
## X3105  9.1030759  8.1190306  0.0000000  0.0000000 0.0000000  0.0000000
## X3202  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
## X3204  0.0000000  0.0000000  0.0000000  0.0000000 1.9419821  0.0000000
## X3205  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X3206  0.0000000  0.0000000  0.0000000  0.0000000 1.1525662  0.0000000
## X3207 16.3866536 14.6152509  0.0000000  0.0000000 0.0000000  0.0000000
```

```
## X3208  1.1608754  1.0353848  0.0000000  0.0000000 0.0000000  0.0000000
## X3209  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X3210  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
## X3211  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X3212  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X3214  1.2592217  1.1230999  0.0000000  0.0000000 0.0000000  0.0000000
## X3215  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X3302  0.0000000  0.0000000  4.0335710  4.0335710 1.2482869  2.4991640
## X3303  0.0000000  0.0000000  0.0000000  0.0000000 1.9440463  0.0000000
## X3304  0.0000000  0.0000000  0.0000000  0.0000000 1.9440463  0.0000000
## X3305  0.0000000  0.0000000  0.0000000  0.0000000 1.6507970  0.0000000
## X3307  0.0000000  0.0000000  0.0000000  0.0000000 1.9440463  0.0000000
## X3402  0.0000000  0.0000000  2.2935182  2.2935182 1.4195729  1.4210438
## X3403  0.6240990  0.5566341  0.0000000  0.0000000 1.8379912  0.0000000
## X3506  0.0000000  0.0000000  2.3140559  2.3140559 0.7161423  2.8675375
## X3507  0.0000000  0.0000000  4.0335710  4.0335710 1.2482869  2.4991640
## X3605  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000 10.4988279
## X3701  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X3707  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X3802  4.2006676  3.7465744  0.0000000  0.0000000 0.0000000  0.0000000
## X3808  0.0000000  0.0000000  0.0000000  0.0000000 1.9440463  0.0000000
## X3809  0.5394602  0.4811448  0.0000000  0.0000000 1.5887266  0.0000000
## X3810  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X3811  8.1926287  7.3070030  0.0000000  0.0000000 0.0000000  0.0000000
## X3814  0.0000000  0.0000000  0.0000000  0.0000000 1.1525662  0.0000000
## X3815  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
## X3816  0.0000000  0.0000000  0.0000000  0.0000000 1.9440463  0.0000000
## X3819  8.1926287  7.3070030  0.0000000  0.0000000 0.0000000  0.0000000
## X3820  8.1926287  7.3070030  0.0000000  0.0000000 0.0000000  0.0000000
## X3823  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000 10.4988279
## X3902  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
## X3908  0.0000000  0.0000000  3.9117544  3.9117544 1.2105879  2.4236876
## X3909  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
## X3910  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
## X3911  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
## X3915  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
## X3916  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X3917  1.0056957  0.8969806  0.0000000  0.0000000 1.4809020  0.0000000
## X3919  0.0000000  0.0000000  0.0000000  0.0000000 1.1525662  0.0000000
## X3920  0.0000000  0.0000000  0.0000000  0.0000000 0.9442797  1.8905177
## X3921  0.7142367  0.6370279  0.0000000  0.0000000 1.0517251  0.0000000
## X3923  1.1288126  1.0067881  5.3710326  5.3710326 0.0000000  3.3278425
## X3924  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X3925  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
## X3926  0.4952077  0.8833520  0.0000000  0.0000000 1.4584014  0.0000000
## X4001  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X4005  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000 10.4988279
## X4006  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000 10.4988279
## X4008  0.0000000  0.0000000  0.0000000  0.0000000 1.9440463  0.0000000
## X4009  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000 10.4988279
## X4010  3.8963248  2.6063494  4.6347986  4.6347986 0.0000000  2.8716790
## X4012  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000 10.4988279
## X4013  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000 10.4988279
## X4015  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X4016  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  8.0481383
## X4202  1.3350022  1.1906889  0.0000000  0.0000000 0.9829061  0.0000000
## X4203  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X4409  0.6900801  0.6154827  3.2834817  3.2834817 1.0161541  2.0344158
## X4415  0.0000000  0.0000000  3.2559489  3.2559489 1.0076334  4.0347135
## X4416  2.1427100  1.9110837  0.0000000  0.0000000 1.0517251  0.0000000
## X4418  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X4420  3.7231603  3.3206858  0.0000000  0.0000000 0.0000000  0.0000000
## X4421  0.9740812  0.8687831  0.0000000  0.0000000 1.4343511  0.0000000
## X4602 10.9239703  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X4804  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
## X4808  0.6594095  0.5881276  0.0000000  0.0000000 0.9709911  0.0000000
## X4818  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X4819  0.0000000  0.0000000 10.3902222 10.3902222 0.0000000  6.4376850
## X4821  0.0000000  0.0000000  4.6907200  4.6907200 0.0000000  2.9063274
## X4822  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
## X4823  1.0424270  0.9297407  0.0000000  0.0000000 1.5349916  0.0000000
## X4901  0.0000000  0.0000000  0.0000000  0.0000000 1.9440463  0.0000000
## X4902  0.0000000  0.0000000  0.0000000  0.0000000 1.9440463  0.0000000
## X4907  0.0000000  0.0000000  0.0000000  0.0000000 1.9440463  0.0000000
## X4911  0.0000000  0.0000000  3.9117544  3.9117544 1.2105879  2.4236876
## X5111  1.1861422  1.0579203  0.0000000  0.0000000 1.7466150  0.0000000
## X5112  8.1926287  7.3070030  0.0000000  0.0000000 0.0000000  0.0000000
## X5205  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X5206  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
```

```
## X5208  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X5209  0.0000000  0.0000000  4.6907200  4.6907200 0.0000000  2.9063274
## X5210  6.0682518 10.8245441  0.0000000  0.0000000 0.0000000  0.0000000
## X5211  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X5402  1.2592217  1.1230999  0.0000000  0.0000000 0.0000000  0.0000000
## X5407  0.0000000  0.0000000  0.0000000  0.0000000 1.4452253  0.0000000
## X5408 14.8968309 13.2864786  0.0000000  0.0000000 0.0000000  0.0000000
## X5505  5.9564976  5.3125990  0.0000000  0.0000000 0.0000000  0.0000000
## X5508  0.6871747  0.6128914  3.2696575  3.2696575 1.0118758  2.0258505
## X5509  2.2421429  1.9997674  0.0000000  0.0000000 0.0000000  0.0000000
## X5511  3.7231603  3.3206858  0.0000000  0.0000000 0.0000000  0.0000000
## X5512  2.5184434  2.2461997  5.9915371  5.9915371 0.0000000  3.7123013
## X5513  6.0682518 10.8245441  0.0000000  0.0000000 0.0000000  0.0000000
## X5514  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X5515  1.7236608  1.5373329  8.2014033  8.2014033 0.0000000  5.0815134
## X5516  6.0682518 10.8245441  0.0000000  0.0000000 0.0000000  0.0000000
## X5601  0.0000000  0.0000000  0.0000000  0.0000000 1.9440463  0.0000000
## X5603  0.7435128  1.3262785  3.5377218  3.5377218 1.0948347  2.1919406
## X5609  3.7231603  3.3206858  0.0000000  0.0000000 0.0000000  0.0000000
## X5806  0.0000000  0.0000000  4.6907200  4.6907200 0.0000000  2.9063274
## X5807  0.0000000  0.0000000  4.6907200  4.6907200 0.0000000  2.9063274
## X5903  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
## X5907  0.0000000  0.0000000 10.3902222 10.3902222 0.0000000  6.4376850
## X5911  2.6971325  3.2074305  0.0000000  0.0000000 0.0000000  0.0000000
## X6002  0.0000000  0.3484279  1.8587877  1.8587877 1.1504976  1.1516889
## X6101  0.0000000  0.0000000 10.3902222 10.3902222 0.0000000  6.4376850
## X6103  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X6104  0.0000000  0.0000000  0.0000000  0.0000000 1.1203440  0.0000000
## X6105  0.0000000  0.0000000 10.3902222 10.3902222 0.0000000  6.4376850
## X6106  0.0000000  0.0000000  0.0000000  0.0000000 1.1203440  0.0000000
## X6107  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X6109  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X6110  1.3757497  1.2270311  6.5459935  6.5459935 0.0000000  4.0558372
## X6111  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X6112  1.1948104  1.0656515  0.0000000  0.0000000 0.0000000  0.0000000
## X6114  3.5570269  3.1725129  0.0000000  0.0000000 0.0000000  0.0000000
## X6115  0.0000000  0.0000000  0.0000000  0.0000000 1.0704591  0.0000000
## X6117  0.0000000  0.0000000 10.3902222 10.3902222 0.0000000  6.4376850
## X6201  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X6202  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X6203  0.0000000  0.8535194  4.5533692  4.5533692 0.0000000  2.8212261
## X6204  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X6205  0.0000000  0.0000000  3.9117544  3.9117544 1.2105879  2.4236876
## X6206  0.6170179  0.5503185  0.0000000  0.0000000 0.9085685  0.0000000
## X6210  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X6211  2.2719224  2.7017709  3.6033589  3.6033589 0.0000000  2.2326087
## X6212  1.3925083  1.2419790  2.2085671  2.2085671 0.6834963  1.3684089
## X6217  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X6302  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X6303  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X6304  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X6305  0.0000000  0.0000000  0.0000000  0.0000000 1.1525662  0.0000000
## X6306  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
## X6307  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000
## X6401  0.0000000  0.0000000  0.0000000  0.0000000 1.9440463  0.0000000
## X6403  1.1366613  1.0137883  0.0000000  0.0000000 1.6737534  0.0000000
## X6404  0.0000000  0.0000000  0.0000000  0.0000000 2.0430009  0.0000000
##           X1602      X1704      X1806     X1901      X1902      X1905
## X102  1.9201921  1.6796629  1.1745499 1.1265013  0.0000000  1.0698448
## X210  3.9357014  1.7213516  1.2037018 1.1544607  6.4376850  0.0000000
## X401  0.9829061  0.8597844  1.2024565 1.1532665  0.0000000  1.0952641
## X403  2.6720476  2.3373395  1.6344501 1.5675883  2.9137999  0.9924987
## X406  2.6761245  0.0000000  0.0000000 1.5699765  8.7547564  0.0000000
## X510  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X602  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X603  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X702  1.0016408  1.3142595  0.9190344 1.1752519  1.6383915  0.8371081
## X703  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X709  0.0000000  1.0909159  0.7628543 0.7316477  0.0000000  0.6948503
## X712  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X713  0.0000000  1.3846399  0.9682498 0.9286410  0.0000000  0.8819362
## X804  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X805  0.0000000  1.7802621  2.4897930 1.1939702  0.0000000  1.1339204
## X808  0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X809  1.9201921  1.6796629  1.1745499 1.1265013  0.0000000  1.0698448
## X813  0.0000000  4.7368313  3.3123555 3.1768532  0.0000000  3.0170755
## X901  0.0000000  2.0423272  2.8563049 1.3697295  0.0000000  1.3008400
## X904  5.1796212  4.5308048  3.1682860 0.0000000  0.0000000  0.0000000
## X1001 0.0000000  3.0018533  2.0991289 1.3421719  0.0000000  1.2746686
```

```
## X1003 0.6712839  1.7615913  1.6424574 1.1814511  0.0000000  1.4960418
## X1005 0.0000000  3.4126733  2.3864056 1.5258551  0.0000000  1.4491136
## X1102 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
## X1108 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
## X1202 0.0000000  6.1305400  4.2869431 4.1115722  0.0000000  3.9047834
## X1208 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
## X1213 0.0000000  1.9541744  1.3665106 1.3106095  0.0000000  1.2446936
## X1214 0.0000000  1.1677764  0.8166010 0.7831957  0.0000000  0.7438058
## X1302 0.0000000  1.0415403  0.7283271 0.6985329  0.0000000  0.6634010
## X1507 3.1760477  0.0000000  0.0000000 1.8632613 10.3902222  0.0000000
## X1514 3.1760477  0.0000000  0.0000000 1.8632613 10.3902222  0.0000000
## X1517 0.9829061  0.8597844  1.2024565 1.1532665  0.0000000  1.0952641
## X1601 3.9357014  1.7213516  1.2037018 1.1544607  6.4376850  0.0000000
## X1602 0.0000000  1.6984692  1.1877020 1.1391156  3.1760477  0.5409124
## X1704 1.6984692  0.0000000  3.6362461 2.4910680  0.0000000  2.3657823
## X1806 1.1877020  3.6362461  0.0000000 2.0903417  0.0000000  1.9852105
## X1901 1.1391156  2.4910680  2.0903417 0.0000000  1.8632613  1.9040002
## X1902 3.1760477  0.0000000  0.0000000 1.8632613  0.0000000  0.0000000
## X1905 0.5409124  2.3657823  1.9852105 1.9040002  0.0000000  0.0000000
## X2001 3.1760477  0.0000000  0.0000000 1.8632613 10.3902222  0.0000000
## X2002 3.1760477  0.0000000  0.0000000 1.8632613 10.3902222  0.0000000
## X2003 3.1760477  0.0000000  0.0000000 1.8632613 10.3902222  0.0000000
## X2004 3.1760477  0.0000000  0.0000000 1.8632613 10.3902222  0.0000000
## X2005 1.5902802  3.4776934  2.4318753 2.7988711  2.6012390  2.2150873
## X2006 1.8314739  1.6020578  1.1202824 1.0744539  0.0000000  1.0204151
## X2007 2.3914672  1.0459525  0.7314111 1.4029812  3.9117544  0.6662098
## X2008 1.1391156  2.9892816  2.4387320 2.0048307  0.0000000  1.9040002
## X2101 3.1760477  0.0000000  0.0000000 1.8632613 10.3902222  0.0000000
## X2102 2.8001189  2.4493676  1.7127874 0.8213604  0.0000000  0.7800508
## X2103 3.9357014  1.7213516  1.2037018 1.1544607  6.4376850  0.0000000
## X2104 5.1796212  4.5308048  3.1682860 0.0000000  0.0000000  0.0000000
## X2106 1.9905388  0.8705991  1.2175814 1.1677727  3.2559489  0.5545203
## X2202 1.1329931  0.0000000  0.6930339 1.3293666  3.7065030  0.6312537
## X2206 0.0000000  4.7368313  3.3123555 3.1768532  0.0000000  3.0170755
## X2208 1.6532159  1.4461290  1.0112451 0.9698771  0.0000000  0.9210979
## X2209 3.1760477  0.0000000  0.0000000 1.8632613 10.3902222  0.0000000
## X2302 5.1796212  4.5308048  3.1682860 0.0000000  0.0000000  0.0000000
## X2309 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
## X2402 1.9201921  1.6796629  1.1745499 1.1265013  0.0000000  1.0698448
## X2403 1.9201921  1.6796629  1.1745499 1.1265013  0.0000000  1.0698448
## X2507 0.0000000  3.7214149  2.6022988 2.4958437  0.0000000  2.3703169
## X2508 0.9829061  0.8597844  1.2024565 1.1532665  0.0000000  1.0952641
## X2512 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X2517 0.6908574  1.2086375  0.8451742 0.8106000  0.0000000  1.1547477
## X2519 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
## X2520 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X2522 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X2525 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X2530 1.5558480  1.3609578  0.9516869 0.9127553  0.0000000  0.8668490
## X2602 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X2606 1.9201921  1.6796629  1.1745499 1.1265013  0.0000000  1.0698448
## X2607 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X2608 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X2710 5.1796212  4.5308048  3.1682860 0.0000000  0.0000000  0.0000000
## X2713 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X2714 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X2716 0.9475892  1.6577831  1.1592511 1.1118286  0.0000000  1.0559103
## X2804 1.6511761  1.4443452  1.5149986 0.9686822  0.0000000  0.9199633
## X2811 1.6511761  1.4443452  1.5149986 0.9686822  0.0000000  0.9199633
## X2825 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X2826 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
## X2832 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
## X2833 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
## X2835 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
## X2836 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X2901 1.6511761  1.4443452  1.5149986 0.9686822  0.0000000  0.9199633
## X2903 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.0204151
## X2907 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
## X2915 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
## X2933 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
## X3105 0.0000000 11.5814893  8.0986631 7.7673618  0.0000000  7.3767071
## X3202 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
## X3204 0.9590767  0.8389400  1.1733045 1.1253071  0.0000000  1.6030663
## X3205 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X3206 0.0000000  0.0000000  0.6963558 0.6678693  0.0000000  1.2685589
## X3207 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X3208 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.9407199
## X3209 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X3210 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
```

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## X3211 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X3212 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000 22.1323827
## X3214 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.0204151
## X3215 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X3302 1.2329700  0.0000000  0.7541880 1.4466715  4.0335710  0.6869562
## X3303 1.9201921  1.6796629  1.1745499 1.1265013  0.0000000  1.0698448
## X3304 1.9201921  1.6796629  1.1745499 1.1265013  0.0000000  1.0698448
## X3305 1.6305412  2.8525892  1.9947508 1.9131495  0.0000000  1.8169292
## X3307 1.9201921  1.6796629  1.1745499 1.1265013  0.0000000  1.0698448
## X3402 1.4021543  1.2265168  1.2865151 1.6451822  2.2935182  1.1718297
## X3403 0.9077193  0.7940158  1.1104755 1.0650484  0.0000000  1.0114828
## X3506 2.1220650  1.2374997  0.8653569 0.8299571  2.3140559  0.7882153
## X3507 1.2329700  0.0000000  0.7541880 1.4466715  4.0335710  0.6869562
## X3605 5.1796212  4.5308048  3.1682860 0.0000000  0.0000000  0.0000000
## X3701 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X3707 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X3802 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X3808 1.9201921  1.6796629  1.1745499 1.1265013  0.0000000  1.0698448
## X3809 0.7846162  1.3726661  1.4398134 1.3809137  0.0000000  1.3114622
## X3810 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X3811 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X3814 0.0000000  0.0000000  0.6963558 0.6678693  0.0000000  1.2685589
## X3815 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
## X3816 1.9201921  1.6796629  1.1745499 1.1265013  0.0000000  1.0698448
## X3819 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X3820 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X3823 5.1796212  4.5308048  3.1682860 0.0000000  0.0000000  0.0000000
## X3902 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
## X3908 2.3914672  1.0459525  0.7314111 1.4029812  3.9117544  0.6662098
## X3909 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
## X3910 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
## X3911 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
## X3915 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
## X3916 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X3917 0.7313654  1.2795053  1.3420956 1.2871934  0.0000000  1.2224555
## X3919 0.0000000  0.0000000  0.6963558 0.6678693  0.0000000  1.2685589
## X3920 0.9326931  0.8158613  1.1410276 0.5471753  0.0000000  1.0393113
## X3921 0.0000000  0.0000000  0.6354299 0.6094358  0.0000000  1.1575695
## X3923 1.6418003  4.3084302  3.0127873 2.8895402  5.3710326  1.8294754
## X3924 0.0000000 20.8481028 14.5785870 0.0000000  0.0000000  0.0000000
## X3925 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
## X3926 0.7202532  1.2600647  1.3217041 1.2676361  0.0000000  1.2038817
## X4001 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X4005 5.1796212  4.5308048  3.1682860 0.0000000  0.0000000  0.0000000
## X4006 5.1796212  4.5308048  3.1682860 0.0000000  0.0000000  0.0000000
## X4008 1.9201921  1.6796629  1.1745499 1.1265013  0.0000000  1.0698448
## X4009 5.1796212  4.5308048  3.1682860 0.0000000  0.0000000  0.0000000
## X4010 1.4167511  1.2392846  0.8666037 1.6623054  4.6347986  0.7893506
## X4012 5.1796212  4.5308048  3.1682860 0.0000000  0.0000000  0.0000000
## X4013 5.1796212  4.5308048  3.1682860 0.0000000  0.0000000  0.0000000
## X4015 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X4016 3.9705683  3.4732019  2.4287293 0.0000000  0.0000000  0.0000000
## X4202 0.0000000  0.0000000  0.5938510 0.5695578  0.0000000  1.0818249
## X4203 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X4409 1.0036855  0.8779610  1.2278773 1.7664712  3.2834817  1.1184188
## X4415 1.9905388  0.8705991  1.2175814 1.1677727  3.2559489  0.5545203
## X4416 0.0000000  0.9086945  1.2708597 1.2188715  0.0000000  1.1575695
## X4418 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X4420 0.0000000  4.7368313  3.3123555 3.1768532  0.0000000  3.0170755
## X4421 1.4167511  2.4785691  1.7332074 1.6623054  0.0000000  1.5787012
## X4602 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X4804 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
## X4808 0.0000000  0.0000000  0.5866522 0.5626535  0.0000000  1.0687108
## X4818 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X4819 3.1760477  0.0000000  0.0000000 1.8632613 10.3902222  0.0000000
## X4821 1.4338449  0.0000000  0.0000000 0.8411810  4.6907200  0.7988745
## X4822 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
## X4823 0.0000000  0.0000000  0.9274084 0.8894700  0.0000000  0.8447348
## X4901 1.9201921  1.6796629  1.1745499 1.1265013  0.0000000  1.0698448
## X4902 1.9201921  1.6796629  1.1745499 1.1265013  0.0000000  1.0698448
## X4907 1.9201921  1.6796629  1.1745499 1.1265013  0.0000000  1.0698448
## X4911 2.3914672  1.0459525  0.7314111 1.4029812  3.9117544  0.6662098
## X5111 0.0000000  0.0000000  1.0552664 1.0120976  0.0000000  0.9611949
## X5112 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X5205 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X5206 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X5208 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X5209 1.4338449  0.0000000  0.0000000 0.8411810  4.6907200  0.7988745
## X5210 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
```

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## X5211 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X5402 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.0204151
## X5407 0.7137460  0.6243403  0.8731754 0.8374557  0.0000000  1.1930052
## X5408 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X5505 0.0000000  3.7891093  2.6496359 2.5412443  0.0000000  2.4134341
## X5508 1.9989196  0.8742646  0.6113539 1.1726893  3.2696575  0.5568550
## X5509 0.0000000  1.4262946  0.9973754 0.9565748  0.0000000  1.8169292
## X5511 0.0000000  4.7368313  3.3123555 3.1768532  0.0000000  3.0170755
## X5512 1.8314739  1.6020578  1.1202824 2.1489078  5.9915371  1.0204151
## X5513 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X5514 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X5515 2.5069776  0.0000000  0.0000000 1.4707448  8.2014033  0.0000000
## X5516 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.0000000
## X5601 1.9201921  1.6796629  1.1745499 1.1265013  0.0000000  1.0698448
## X5603 1.0814007  0.0000000  0.6614757 1.2688322  3.5377218  0.6025087
## X5609 0.0000000  4.7368313  3.3123555 3.1768532  0.0000000  3.0170755
## X5806 1.4338449  0.0000000  0.0000000 0.8411810  4.6907200  0.7988745
## X5807 1.4338449  0.0000000  0.0000000 0.8411810  4.6907200  0.7988745
## X5903 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
## X5907 3.1760477  0.0000000  0.0000000 1.8632613 10.3902222  0.0000000
## X5911 0.0000000  1.1438179  0.7998461 0.7671260  0.0000000  1.4570882
## X6002 1.1363807  0.4970174  0.6951076 1.0000086  1.8587877  0.9497144
## X6101 3.1760477  0.0000000  0.0000000 1.8632613 10.3902222  0.0000000
## X6103 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X6104 1.1065970  0.9679814  0.6768878 0.6491978  0.0000000  1.2330939
## X6105 3.1760477  0.0000000  0.0000000 1.8632613 10.3902222  0.0000000
## X6106 1.1065970  0.9679814  0.6768878 0.6491978  0.0000000  1.2330939
## X6107 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X6109 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X6110 2.0009581  1.7503118  1.2239530 2.3477669  6.5459935  1.1148439
## X6111 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X6112 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  0.9682192
## X6114 0.0000000  1.1313657  0.7911386 0.7587747  0.0000000  1.4412256
## X6115 1.0573242  1.8497615  1.2934971 0.6202914  0.0000000  1.1781889
## X6117 3.1760477  0.0000000  0.0000000 1.8632613 10.3902222  0.0000000
## X6201 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X6202 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X6203 1.3918600  0.0000000  0.0000000 0.8165501  4.5533692  0.7754824
## X6204 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X6205 2.3914672  1.0459525  0.7314111 1.4029812  3.9117544  0.6662098
## X6206 0.8974201  1.5700135  1.0978759 1.0529641  0.0000000  1.5000095
## X6210 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X6211 1.1014644  0.0000000  0.0000000 0.6461867  3.6033589  0.6136873
## X6212 0.6751096  0.5905436  0.8259090 1.1881843  2.2085671  1.1284259
## X6217 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X6302 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X6303 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X6304 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.4582212
## X6305 0.0000000  0.0000000  0.6963558 0.6678693  0.0000000  1.2685589
## X6306 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
## X6307 0.0000000  0.0000000  0.0000000 0.0000000  0.0000000  1.2636408
## X6401 1.9201921  1.6796629  1.1745499 1.1265013  0.0000000  1.0698448
## X6403 1.6532159  1.4461290  1.0112451 0.9698771  0.0000000  0.9210979
## X6404 0.0000000  0.0000000  1.2343360 1.1838417  0.0000000  1.1243013
##            X2001      X2002      X2003      X2004      X2005     X2006
## X102   0.0000000  0.0000000  0.0000000  0.0000000  1.5726715 3.6223945
## X210   6.4376850  6.4376850  6.4376850  6.4376850  1.6117047 0.0000000
## X401   0.0000000  0.0000000  0.0000000  0.0000000  0.8050179 1.8542259
## X403   2.9137999  2.9137999  2.9137999  2.9137999  2.1884557 1.6802483
## X406   8.7547564  8.7547564  8.7547564  8.7547564  2.1917933 0.0000000
## X510   0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X602   0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X603   0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X702   1.6383915  1.6383915  1.6383915  1.6383915  1.6407256 0.9447824
## X703   0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X709   0.0000000  0.0000000  0.0000000  0.0000000  1.0214270 0.0000000
## X712   0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X713   0.0000000  0.0000000  0.0000000  0.0000000  1.2964415 0.9953771
## X804   0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X805   0.0000000  0.0000000  0.0000000  0.0000000  1.6668627 0.0000000
## X808   0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X809   0.0000000  0.0000000  0.0000000  0.0000000  1.5726715 3.6223945
## X813   0.0000000  0.0000000  0.0000000  0.0000000  4.4351035 0.0000000
## X901   0.0000000  0.0000000  0.0000000  0.0000000  1.9122347 0.0000000
## X904   0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X1001  0.0000000  0.0000000  0.0000000  0.0000000  1.8737608 0.0000000
## X1003  0.0000000  0.0000000  0.0000000  0.0000000  1.0995878 2.5327155
## X1005  0.0000000  0.0000000  0.0000000  0.0000000  2.1301951 0.0000000
## X1102  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
```

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## X1108  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X1202  0.0000000  0.0000000  0.0000000  0.0000000  5.7400353 0.0000000
## X1208  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X1213  0.0000000  0.0000000  0.0000000  0.0000000  1.8296974 0.0000000
## X1214  0.0000000  0.0000000  0.0000000  0.0000000  1.0933916 0.0000000
## X1302  0.0000000  0.0000000  0.0000000  0.0000000  0.9751965 0.0000000
## X1507 10.3902222 10.3902222 10.3902222 10.3902222  2.6012390 0.0000000
## X1514 10.3902222 10.3902222 10.3902222 10.3902222  2.6012390 0.0000000
## X1517  0.0000000  0.0000000  0.0000000  0.0000000  0.8050179 1.8542259
## X1601  6.4376850  6.4376850  6.4376850  6.4376850  1.6117047 0.0000000
## X1602  3.1760477  3.1760477  3.1760477  3.1760477  1.5902802 1.8314739
## X1704  0.0000000  0.0000000  0.0000000  0.0000000  3.4776934 1.6020578
## X1806  0.0000000  0.0000000  0.0000000  0.0000000  2.4318753 1.1202824
## X1901  1.8632613  1.8632613  1.8632613  1.8632613  2.7988711 1.0744539
## X1902 10.3902222 10.3902222 10.3902222 10.3902222  2.6012390 0.0000000
## X1905  0.0000000  0.0000000  0.0000000  0.0000000  2.2150873 1.0204151
## X2001  0.0000000 10.3902222 10.3902222 10.3902222  2.6012390 0.0000000
## X2002 10.3902222  0.0000000 10.3902222 10.3902222  2.6012390 0.0000000
## X2003 10.3902222 10.3902222  0.0000000 10.3902222  2.6012390 0.0000000
## X2004 10.3902222 10.3902222 10.3902222  0.0000000  2.6012390 0.0000000
## X2005  2.6012390  2.6012390  2.6012390  2.6012390  0.0000000 1.5000097
## X2006  0.0000000  0.0000000  0.0000000  0.0000000  1.5000097 0.0000000
## X2007  3.9117544  3.9117544  3.9117544  3.9117544  1.9586547 2.2557201
## X2008  0.0000000  0.0000000  0.0000000  0.0000000  2.3323926 1.0744539
## X2101 10.3902222 10.3902222 10.3902222 10.3902222  2.6012390 0.0000000
## X2102  0.0000000  0.0000000  0.0000000  0.0000000  1.1466738 2.6411762
## X2103  6.4376850  6.4376850  6.4376850  6.4376850  1.6117047 0.0000000
## X2104  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X2106  3.2559489  3.2559489  3.2559489  3.2559489  0.8151437 0.0000000
## X2202  3.7065030  3.7065030  3.7065030  3.7065030  0.9279418 0.0000000
## X2206  0.0000000  0.0000000  0.0000000  0.0000000  4.4351035 0.0000000
## X2208  0.0000000  0.0000000  0.0000000  0.0000000  1.3540133 3.1187500
## X2209 10.3902222 10.3902222 10.3902222 10.3902222  2.6012390 0.0000000
## X2302  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X2309  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X2402  0.0000000  0.0000000  0.0000000  0.0000000  1.5726715 3.6223945
## X2403  0.0000000  0.0000000  0.0000000  0.0000000  1.5726715 3.6223945
## X2507  0.0000000  0.0000000  0.0000000  0.0000000  3.4843674 0.0000000
## X2508  0.0000000  0.0000000  0.0000000  0.0000000  0.8050179 1.8542259
## X2512  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X2517  0.0000000  0.0000000  0.0000000  0.0000000  1.1316499 2.6065655
## X2519  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X2520  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X2522  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X2525  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X2530  0.0000000  0.0000000  0.0000000  0.0000000  1.2742674 2.9350678
## X2602  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X2606  0.0000000  0.0000000  0.0000000  0.0000000  1.5726715 3.6223945
## X2607  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X2608  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X2710  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X2713  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X2714  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X2716  0.0000000  0.0000000  0.0000000  0.0000000  1.5521856 1.7876015
## X2804  0.0000000  0.0000000  0.0000000  0.0000000  0.6761717 1.5574491
## X2811  0.0000000  0.0000000  0.0000000  0.0000000  0.6761717 1.5574491
## X2825  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X2826  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X2832  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X2833  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X2835  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X2836  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X2901  0.0000000  0.0000000  0.0000000  0.0000000  0.6761717 1.5574491
## X2903  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X2907  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X2915  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X2933  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3105  0.0000000  0.0000000  0.0000000  0.0000000 10.8437684 0.0000000
## X3202  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3204  0.0000000  0.0000000  0.0000000  0.0000000  0.7855013 1.8092723
## X3205  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3206  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3207  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3208  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3209  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3210  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3211  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3212  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3214  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
```

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## X3215  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3302  4.0335710  4.0335710  4.0335710  4.0335710  1.0098247 0.0000000
## X3303  0.0000000  0.0000000  0.0000000  0.0000000  1.5726715 3.6223945
## X3304  0.0000000  0.0000000  0.0000000  0.0000000  1.5726715 3.6223945
## X3305  0.0000000  0.0000000  0.0000000  0.0000000  2.6708847 3.0759747
## X3307  0.0000000  0.0000000  0.0000000  0.0000000  1.5726715 3.6223945
## X3402  2.2935182  2.2935182  2.2935182  2.2935182  1.7225854 1.3225621
## X3403  0.0000000  0.0000000  0.0000000  0.0000000  0.7434386 1.7123877
## X3506  2.3140559  2.3140559  2.3140559  2.3140559  1.1586736 1.3344052
## X3507  4.0335710  4.0335710  4.0335710  4.0335710  1.0098247 0.0000000
## X3605  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3701  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3707  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3802  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3808  0.0000000  0.0000000  0.0000000  0.0000000  1.5726715 3.6223945
## X3809  0.0000000  0.0000000  0.0000000  0.0000000  1.2852302 1.4801567
## X3810  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3811  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3814  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3815  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3816  0.0000000  0.0000000  0.0000000  0.0000000  1.5726715 3.6223945
## X3819  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3820  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3823  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3902  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3908  3.9117544  3.9117544  3.9117544  3.9117544  1.9586547 2.2557201
## X3909  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3910  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3911  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3915  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3916  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3917  0.0000000  0.0000000  0.0000000  0.0000000  1.1980035 1.3797003
## X3919  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3920  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3921  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3923  5.3710326  5.3710326  5.3710326  5.3710326  4.0339913 0.0000000
## X3924  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3925  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X3926  0.0000000  0.0000000  0.0000000  0.0000000  1.1798013 1.3587373
## X4001  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X4005  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X4006  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X4008  0.0000000  0.0000000  0.0000000  0.0000000  1.5726715 3.6223945
## X4009  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X4010  4.6347986  4.6347986  4.6347986  4.6347986  2.3206891 0.0000000
## X4012  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X4013  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X4015  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X4016  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X4202  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X4203  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X4409  3.2834817  3.2834817  3.2834817  3.2834817  1.6440733 0.0000000
## X4415  3.2559489  3.2559489  3.2559489  3.2559489  0.8151437 0.0000000
## X4416  0.0000000  0.0000000  0.0000000  0.0000000  0.8508124 0.0000000
## X4418  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X4420  0.0000000  0.0000000  0.0000000  0.0000000  4.4351035 0.0000000
## X4421  0.0000000  0.0000000  0.0000000  0.0000000  2.3206891 2.6726646
## X4602  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X4804  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X4808  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X4818  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X4819 10.3902222 10.3902222 10.3902222 10.3902222  2.6012390 0.0000000
## X4821  4.6907200  4.6907200  4.6907200  4.6907200  1.1743447 0.0000000
## X4822  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X4823  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X4901  0.0000000  0.0000000  0.0000000  0.0000000  1.5726715 3.6223945
## X4902  0.0000000  0.0000000  0.0000000  0.0000000  1.5726715 3.6223945
## X4907  0.0000000  0.0000000  0.0000000  0.0000000  1.5726715 3.6223945
## X4911  3.9117544  3.9117544  3.9117544  3.9117544  1.9586547 2.2557201
## X5111  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X5112  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X5205  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X5206  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X5208  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X5209  4.6907200  4.6907200  4.6907200  4.6907200  1.1743447 0.0000000
## X5210  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X5211  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X5402  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X5407  0.0000000  0.0000000  0.0000000  0.0000000  0.5845711 1.3464616
```

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## X5408  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X5505  0.0000000  0.0000000  0.0000000  0.0000000  3.5477498 0.0000000
## X5508  3.2696575  3.2696575  3.2696575  3.2696575  1.6371514 1.8854541
## X5509  0.0000000  0.0000000  0.0000000  0.0000000  1.3354423 0.0000000
## X5511  0.0000000  0.0000000  0.0000000  0.0000000  4.4351035 0.0000000
## X5512  5.9915371  5.9915371  5.9915371  5.9915371  3.0000194 0.0000000
## X5513  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X5514  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X5515  8.2014033  8.2014033  8.2014033  8.2014033  2.0532590 0.0000000
## X5516  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X5601  0.0000000  0.0000000  0.0000000  0.0000000  1.5726715 3.6223945
## X5603  3.5377218  3.5377218  3.5377218  3.5377218  0.8856867 0.0000000
## X5609  0.0000000  0.0000000  0.0000000  0.0000000  4.4351035 0.0000000
## X5806  4.6907200  4.6907200  4.6907200  4.6907200  1.1743447 0.0000000
## X5807  4.6907200  4.6907200  4.6907200  4.6907200  1.1743447 0.0000000
## X5903  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X5907 10.3902222 10.3902222 10.3902222 10.3902222  2.6012390 0.0000000
## X5911  0.0000000  0.0000000  0.0000000  0.0000000  1.0709589 0.0000000
## X6002  1.8587877  1.8587877  1.8587877  1.8587877  0.9307170 1.0718742
## X6101 10.3902222 10.3902222 10.3902222 10.3902222  2.6012390 0.0000000
## X6103  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X6104  0.0000000  0.0000000  0.0000000  0.0000000  0.9063229 2.0875660
## X6105 10.3902222 10.3902222 10.3902222 10.3902222  2.6012390 0.0000000
## X6106  0.0000000  0.0000000  0.0000000  0.0000000  0.9063229 2.0875660
## X6107  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X6109  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X6110  6.5459935  6.5459935  6.5459935  6.5459935  3.2776404 0.0000000
## X6111  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X6112  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X6114  0.0000000  0.0000000  0.0000000  0.0000000  1.0592999 0.0000000
## X6115  0.0000000  0.0000000  0.0000000  0.0000000  0.8659677 1.9946141
## X6117 10.3902222 10.3902222 10.3902222 10.3902222  2.6012390 0.0000000
## X6201  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X6202  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X6203  4.5533692  4.5533692  4.5533692  4.5533692  1.1399583 0.0000000
## X6204  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X6205  3.9117544  3.9117544  3.9117544  3.9117544  1.9586547 2.2557201
## X6206  0.0000000  0.0000000  0.0000000  0.0000000  1.4700068 3.3859171
## X6210  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X6211  3.6033589  3.6033589  3.6033589  3.6033589  0.9021193 0.0000000
## X6212  2.2085671  2.2085671  2.2085671  2.2085671  1.1058545 0.0000000
## X6217  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X6302  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X6303  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X6304  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X6305  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X6306  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X6307  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
## X6401  0.0000000  0.0000000  0.0000000  0.0000000  1.5726715 3.6223945
## X6403  0.0000000  0.0000000  0.0000000  0.0000000  1.3540133 3.1187500
## X6404  0.0000000  0.0000000  0.0000000  0.0000000  0.0000000 0.0000000
##           X2007     X2008      X2101     X2102      X2103     X2104     X2106
## X102  2.3649893 1.1265013  0.0000000 2.7691172  0.0000000  0.000000 0.0000000
## X210  2.4236876 1.1544607  6.4376850 2.8378459  7.9774606 10.498828 4.0347135
## X401  1.2105879 1.1532665  0.0000000 1.4174521  0.0000000  0.000000 1.0076334
## X403  2.1940030 1.5675883  2.9137999 2.5689121  3.6107289  4.751937 1.8261795
## X406  3.2960278 0.0000000  8.7547564 0.0000000  5.4243658  0.000000 2.7434490
## X510  0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X602  0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X603  0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X702  1.2336615 1.1752519  1.6383915 0.7222338  1.0151335  0.000000 0.5134197
## X703  0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X709  0.0000000 1.4632954  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X712  0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X713  0.0000000 1.5477350  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X804  0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X805  0.0000000 1.1939702  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X808  0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X809  2.3649893 1.1265013  0.0000000 2.7691172  0.0000000  0.000000 0.0000000
## X813  0.0000000 3.1768532  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X901  0.0000000 1.3697295  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X904  0.0000000 3.0386774  0.0000000 7.4695568 10.4988279 27.634216 5.3099273
## X1001 0.0000000 2.0132579  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X1003 0.8267808 1.1814511  0.0000000 0.9680601  0.0000000  0.000000 0.6881716
## X1005 0.0000000 2.2887827  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X1102 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
## X1108 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
## X1202 0.0000000 4.1115722  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X1208 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
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## X1213 0.0000000 1.9659142  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X1214 0.0000000 1.5663914  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X1302 0.0000000 1.3970658  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X1507 3.9117544 0.0000000 10.3902222 0.0000000  6.4376850  0.000000 3.2559489
## X1514 3.9117544 0.0000000 10.3902222 0.0000000  6.4376850  0.000000 3.2559489
## X1517 1.2105879 1.1532665  0.0000000 1.4174521  0.0000000  0.000000 1.0076334
## X1601 2.4236876 1.1544607  6.4376850 2.8378459  7.9774606 10.498828 4.0347135
## X1602 2.3914672 1.1391156  3.1760477 2.8001189  3.9357014  5.179621 1.9905388
## X1704 1.0459525 2.9892816  0.0000000 2.4493676  1.7213516  4.530805 0.8705991
## X1806 0.7314111 2.4387320  0.0000000 1.7127874  1.2037018  3.168286 1.2175814
## X1901 1.4029812 2.0048307  1.8632613 0.8213604  1.1544607  0.000000 1.1677727
## X1902 3.9117544 0.0000000 10.3902222 0.0000000  6.4376850  0.000000 3.2559489
## X1905 0.6662098 1.9040002  0.0000000 0.7800508  0.0000000  0.000000 0.5545203
## X2001 3.9117544 0.0000000 10.3902222 0.0000000  6.4376850  0.000000 3.2559489
## X2002 3.9117544 0.0000000 10.3902222 0.0000000  6.4376850  0.000000 3.2559489
## X2003 3.9117544 0.0000000 10.3902222 0.0000000  6.4376850  0.000000 3.2559489
## X2004 3.9117544 0.0000000 10.3902222 0.0000000  6.4376850  0.000000 3.2559489
## X2005 1.9586547 2.3323926  2.6012390 1.1466738  1.6117047  0.000000 0.8151437
## X2006 2.2557201 1.0744539  0.0000000 2.6411762  0.0000000  0.000000 0.0000000
## X2007 0.0000000 0.7014906  3.9117544 1.7243718  2.4236876  0.000000 1.2258151
## X2008 0.7014906 0.0000000  0.0000000 1.6427208  1.1544607  3.038677 1.1677727
## X2101 3.9117544 0.0000000  0.0000000 0.0000000  6.4376850  0.000000 3.2559489
## X2102 1.7243718 1.6427208  0.0000000 0.0000000  2.8378459  7.469557 1.4352813
## X2103 2.4236876 1.1544607  6.4376850 2.8378459  0.0000000 10.498828 4.0347135
## X2104 0.0000000 3.0386774  0.0000000 7.4695568 10.4988279  0.000000 5.3099273
## X2106 1.2258151 1.1677727  3.2559489 1.4352813  4.0347135  5.309927 0.0000000
## X2202 1.3954415 0.6646833  3.7065030 0.0000000  2.2965158  0.000000 2.3229925
## X2206 0.0000000 3.1768532  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X2208 2.0361700 0.9698771  0.0000000 2.3841094  0.0000000  0.000000 0.0000000
## X2209 3.9117544 0.0000000 10.3902222 0.0000000  6.4376850  0.000000 3.2559489
## X2302 0.0000000 3.0386774  0.0000000 7.4695568 10.4988279 27.634216 5.3099273
## X2309 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
## X2402 2.3649893 1.1265013  0.0000000 2.7691172  0.0000000  0.000000 0.0000000
## X2403 2.3649893 1.1265013  0.0000000 2.7691172  0.0000000  0.000000 0.0000000
## X2507 0.0000000 2.4958437  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X2508 1.2105879 1.1532665  0.0000000 1.4174521  0.0000000  0.000000 1.0076334
## X2512 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X2517 0.8508883 0.8106000  0.0000000 0.9962871  0.0000000  0.000000 0.0000000
## X2519 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
## X2520 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X2522 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X2525 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X2530 1.9162476 0.9127553  0.0000000 2.2436947  0.0000000  0.000000 0.0000000
## X2602 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X2606 2.3649893 1.1265013  0.0000000 2.7691172  0.0000000  0.000000 0.0000000
## X2607 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X2608 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X2710 0.0000000 3.0386774  0.0000000 7.4695568 10.4988279 27.634216 5.3099273
## X2713 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X2714 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X2716 1.1670902 1.1118286  0.0000000 1.3665215  0.0000000  0.000000 0.0000000
## X2804 1.0168283 1.4530233  0.0000000 2.3811659  1.6734212  4.404646 1.6927153
## X2811 1.0168283 1.4530233  0.0000000 2.3811659  1.6734212  4.404646 1.6927153
## X2825 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X2826 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
## X2832 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
## X2833 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
## X2835 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
## X2836 0.0000000 6.9905065  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X2901 1.0168283 1.4530233  0.0000000 2.3811659  1.6734212  4.404646 1.6927153
## X2903 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X2907 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
## X2915 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
## X2933 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
## X3105 0.0000000 7.7673618  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X3202 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
## X3204 1.1812386 1.1253071  0.0000000 1.3830876  0.0000000  0.000000 0.9832045
## X3205 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X3206 0.0000000 0.6678693  0.0000000 0.0000000  0.0000000  0.000000 1.1670636
## X3207 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X3208 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X3209 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X3210 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
## X3211 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X3212 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X3214 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X3215 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X3302 1.5185773 0.7233358  4.0335710 0.0000000  2.4991640  0.000000 2.5279767
## X3303 2.3649893 1.1265013  0.0000000 2.7691172  0.0000000  0.000000 0.0000000
```

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## X3304 2.3649893 1.1265013  0.0000000 2.7691172  0.0000000  0.000000 0.0000000
## X3305 2.0082429 1.9131495  0.0000000 2.3514101  0.0000000  0.000000 0.0000000
## X3307 2.3649893 1.1265013  0.0000000 2.7691172  0.0000000  0.000000 0.0000000
## X3402 1.7269509 1.2338867  2.2935182 1.0110251  1.4210438  0.000000 1.4374287
## X3403 1.1179846 1.5975725  0.0000000 1.3090248  0.0000000  0.000000 0.9305551
## X3506 1.7424150 0.8299571  2.3140559 2.0401569  2.8675375  3.773851 1.4503003
## X3507 1.5185773 0.7233358  4.0335710 0.0000000  2.4991640  0.000000 2.5279767
## X3605 0.0000000 3.0386774  0.0000000 7.4695568 10.4988279 27.634216 5.3099273
## X3701 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X3707 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X3802 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X3808 2.3649893 1.1265013  0.0000000 2.7691172  0.0000000  0.000000 0.0000000
## X3809 0.9663657 1.3809137  0.0000000 1.1314973  0.0000000  0.000000 0.8043551
## X3810 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X3811 0.0000000 6.9905065  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X3814 0.0000000 0.6678693  0.0000000 0.0000000  0.0000000  0.000000 1.1670636
## X3815 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
## X3816 2.3649893 1.1265013  0.0000000 2.7691172  0.0000000  0.000000 0.0000000
## X3819 0.0000000 6.9905065  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X3820 0.0000000 6.9905065  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X3823 0.0000000 3.0386774  0.0000000 7.4695568 10.4988279 27.634216 5.3099273
## X3902 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
## X3908 2.9454307 0.7014906  3.9117544 1.7243718  2.4236876  0.000000 1.2258151
## X3909 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
## X3910 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
## X3911 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
## X3915 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
## X3916 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X3917 0.9007798 1.2871934  0.0000000 1.0547040  0.0000000  0.000000 0.7497646
## X3919 0.0000000 0.6678693  0.0000000 0.0000000  0.0000000  0.000000 1.1670636
## X3920 0.0000000 1.0943506  0.0000000 1.3450397  1.8905177  4.976071 1.9123143
## X3921 0.0000000 1.2188715  0.0000000 0.0000000  0.0000000  0.000000 1.0649540
## X3923 2.0221101 1.9263601  5.3710326 0.0000000  3.3278425  0.000000 1.6831038
## X3924 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X3925 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
## X3926 0.8870934 1.2676361  0.0000000 1.0386790  0.0000000  0.000000 0.7383728
## X4001 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X4005 0.0000000 3.0386774  0.0000000 7.4695568 10.4988279 27.634216 5.3099273
## X4006 0.0000000 3.0386774  0.0000000 7.4695568 10.4988279 27.634216 5.3099273
## X4008 2.3649893 1.1265013  0.0000000 2.7691172  0.0000000  0.000000 0.0000000
## X4009 0.0000000 3.0386774  0.0000000 7.4695568 10.4988279 27.634216 5.3099273
## X4010 1.7449299 0.8311527  4.6347986 0.0000000  2.8716790  0.000000 1.4523929
## X4012 0.0000000 3.0386774  0.0000000 7.4695568 10.4988279 27.634216 5.3099273
## X4013 0.0000000 3.0386774  0.0000000 7.4695568 10.4988279 27.634216 5.3099273
## X4015 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X4016 0.0000000 2.3293746  0.0000000 5.7259753  8.0481383 21.183695 4.0704577
## X4202 0.0000000 0.5695578  0.0000000 0.0000000  0.0000000  0.000000 0.9952694
## X4203 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X4409 1.2361808 1.1776475  3.2834817 0.0000000  2.0344158  0.000000 2.0578712
## X4415 1.2258151 1.1677727  3.2559489 1.4352813  4.0347135  5.309927 3.0609233
## X4416 0.0000000 1.2188715  0.0000000 0.0000000  0.0000000  0.000000 1.0649540
## X4418 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X4420 0.0000000 3.1768532  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X4421 1.7449299 1.6623054  0.0000000 2.0431022  0.0000000  0.000000 0.0000000
## X4602 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X4804 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
## X4808 0.0000000 0.5626535  0.0000000 0.0000000  0.0000000  0.000000 0.9832045
## X4818 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X4819 3.9117544 0.0000000 10.3902222 0.0000000  6.4376850  0.000000 3.2559489
## X4821 1.7659834 0.0000000  4.6907200 0.0000000  2.9063274  0.000000 1.4699168
## X4822 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
## X4823 0.0000000 0.8894700  0.0000000 0.0000000  0.0000000  0.000000 1.5542993
## X4901 2.3649893 1.1265013  0.0000000 2.7691172  0.0000000  0.000000 0.0000000
## X4902 2.3649893 1.1265013  0.0000000 2.7691172  0.0000000  0.000000 0.0000000
## X4907 2.3649893 1.1265013  0.0000000 2.7691172  0.0000000  0.000000 0.0000000
## X4911 2.9454307 0.7014906  3.9117544 1.7243718  2.4236876  0.000000 1.2258151
## X5111 0.0000000 1.0120976  0.0000000 0.0000000  0.0000000  0.000000 1.7685846
## X5112 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X5205 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X5206 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X5208 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X5209 1.7659834 0.0000000  4.6907200 0.0000000  2.9063274  0.000000 1.4699168
## X5210 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X5211 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X5402 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X5407 0.8790789 0.8374557  0.0000000 1.0292949  0.0000000  0.000000 0.7317019
## X5408 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X5505 0.0000000 2.5412443  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X5508 2.4619523 0.5863447  3.2696575 1.4413243  2.0258505  0.000000 1.0246036
```

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## X5509 0.0000000 0.9565748  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X5511 0.0000000 3.1768532  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X5512 2.2557201 1.0744539  5.9915371 0.0000000  3.7123013  0.000000 1.8775491
## X5513 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X5514 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X5515 3.0876992 0.0000000  8.2014033 0.0000000  5.0815134  0.000000 2.5700467
## X5516 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X5601 2.3649893 1.1265013  0.0000000 2.7691172  0.0000000  0.000000 0.0000000
## X5603 1.3318981 0.6344161  3.5377218 0.0000000  2.1919406  0.000000 2.2172118
## X5609 0.0000000 3.1768532  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X5806 1.7659834 0.0000000  4.6907200 0.0000000  2.9063274  0.000000 1.4699168
## X5807 1.7659834 0.0000000  4.6907200 0.0000000  2.9063274  0.000000 1.4699168
## X5903 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
## X5907 3.9117544 0.0000000 10.3902222 0.0000000  6.4376850  0.000000 3.2559489
## X5911 0.0000000 0.7671260  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X6002 1.3996128 0.6666724  1.8587877 0.8193883  1.1516889  0.000000 1.1649689
## X6101 3.9117544 0.0000000 10.3902222 0.0000000  6.4376850  0.000000 3.2559489
## X6103 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X6104 1.3629309 0.6491978  0.0000000 1.5958274  0.0000000  0.000000 0.0000000
## X6105 3.9117544 0.0000000 10.3902222 0.0000000  6.4376850  0.000000 3.2559489
## X6106 1.3629309 0.6491978  0.0000000 1.5958274  0.0000000  0.000000 0.0000000
## X6107 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X6109 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X6110 2.4644640 1.1738835  6.5459935 0.0000000  4.0558372  0.000000 2.0512970
## X6111 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X6112 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X6114 0.0000000 0.7587747  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X6115 1.3022445 0.6202914  0.0000000 1.5247709  0.0000000  0.000000 0.0000000
## X6117 3.9117544 0.0000000 10.3902222 0.0000000  6.4376850  0.000000 3.2559489
## X6201 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X6202 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X6203 1.7142730 0.0000000  4.5533692 0.0000000  2.8212261  0.000000 1.4268756
## X6204 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X6205 2.9454307 0.7014906  3.9117544 1.7243718  2.4236876  0.000000 1.2258151
## X6206 1.1052997 1.0529641  0.0000000 1.2941723  0.0000000  0.000000 0.0000000
## X6210 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X6211 1.3566094 0.6461867  3.6033589 0.0000000  2.2326087  0.000000 1.1291744
## X6212 0.8314927 1.1881843  2.2085671 0.0000000  1.3684089  0.000000 1.3841871
## X6217 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X6302 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X6303 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X6304 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X6305 0.0000000 0.6678693  0.0000000 0.0000000  0.0000000  0.000000 1.1670636
## X6306 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
## X6307 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000  0.000000 0.0000000
## X6401 2.3649893 1.1265013  0.0000000 2.7691172  0.0000000  0.000000 0.0000000
## X6403 2.0361700 1.9397542  0.0000000 2.3841094  0.0000000  0.000000 0.0000000
## X6404 0.0000000 1.1838417  0.0000000 0.0000000  0.0000000  0.000000 2.0686986
##            X2202     X2206      X2208      X2209     X2302     X2309     X2402
## X102   0.0000000  0.000000  3.2698252  0.0000000  0.000000 0.0000000 3.7978668
## X210   2.2965158  0.000000  0.0000000  6.4376850 10.498828 0.0000000 0.0000000
## X401   1.1470680  0.000000  1.6737534  0.0000000  0.000000 2.0430009 1.9440463
## X403   1.0394415  0.000000  1.5167092  2.9137999  4.751937 0.0000000 1.7616411
## X406   3.1230839  0.000000  0.0000000  8.7547564  0.000000 0.0000000 0.0000000
## X510   0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X602   0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X603   0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X702   1.1689311  2.793451  0.8528266  1.6383915  0.000000 0.0000000 0.9905484
## X703   0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X709   0.0000000  3.478109  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X712   0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X713   0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X804   0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X805   0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X808   0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X809   0.0000000  0.000000  3.2698252  0.0000000  0.000000 0.0000000 3.7978668
## X813   0.0000000 30.204545  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X901   0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X904   0.0000000  0.000000  0.0000000  0.0000000 27.634216 0.0000000 0.0000000
## X1001  1.3349588  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X1003  1.5667988  0.000000  1.1431028  0.0000000  0.000000 1.3952830 1.3277012
## X1005  1.5176554  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X1102  2.3549622  0.000000  0.0000000  0.0000000  0.000000 4.1943407 0.0000000
## X1108  2.3549622  0.000000  0.0000000  0.0000000  0.000000 4.1943407 0.0000000
## X1202  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X1208  2.3549622  0.000000  0.0000000  0.0000000  0.000000 4.1943407 0.0000000
## X1213  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X1214  0.7789849  3.723160  1.1366613  0.0000000  0.000000 0.0000000 0.0000000
## X1302  0.6947768  3.320686  1.0137883  0.0000000  0.000000 0.0000000 0.0000000
```

```
## X1507  3.7065030  0.000000  0.0000000 10.3902222  0.000000 0.0000000 0.0000000
## X1514  3.7065030  0.000000  0.0000000 10.3902222  0.000000 0.0000000 0.0000000
## X1517  1.1470680  0.000000  1.6737534  0.0000000  0.000000 2.0430009 1.9440463
## X1601  2.2965158  0.000000  0.0000000  6.4376850 10.498828 0.0000000 0.0000000
## X1602  1.1329931  0.000000  1.6532159  3.1760477  5.179621 0.0000000 1.9201921
## X1704  0.0000000  4.736831  1.4461290  0.0000000  4.530805 0.0000000 1.6796629
## X1806  0.6930339  3.312355  1.0112451  0.0000000  3.168286 1.2343360 1.1745499
## X1901  1.3293666  3.176853  0.9698771  1.8632613  0.000000 1.1838417 1.1265013
## X1902  3.7065030  0.000000  0.0000000 10.3902222  0.000000 0.0000000 0.0000000
## X1905  0.6312537  3.017076  0.9210979  0.0000000  0.000000 1.1243013 1.0698448
## X2001  3.7065030  0.000000  0.0000000 10.3902222  0.000000 0.0000000 0.0000000
## X2002  3.7065030  0.000000  0.0000000 10.3902222  0.000000 0.0000000 0.0000000
## X2003  3.7065030  0.000000  0.0000000 10.3902222  0.000000 0.0000000 0.0000000
## X2004  3.7065030  0.000000  0.0000000 10.3902222  0.000000 0.0000000 0.0000000
## X2005  0.9279418  4.435103  1.3540133  2.6012390  0.000000 0.0000000 1.5726715
## X2006  0.0000000  0.000000  3.1187500  0.0000000  0.000000 0.0000000 3.6223945
## X2007  1.3954415  0.000000  2.0361700  3.9117544  0.000000 0.0000000 2.3649893
## X2008  0.6646833  3.176853  0.9698771  0.0000000  3.038677 1.1838417 1.1265013
## X2101  3.7065030  0.000000  0.0000000 10.3902222  0.000000 0.0000000 0.0000000
## X2102  0.0000000  0.000000  2.3841094  0.0000000  7.469557 0.0000000 2.7691172
## X2103  2.2965158  0.000000  0.0000000  6.4376850 10.498828 0.0000000 0.0000000
## X2104  0.0000000  0.000000  0.0000000  0.0000000 27.634216 0.0000000 0.0000000
## X2106  2.3229925  0.000000  0.0000000  3.2559489  5.309927 2.0686986 0.0000000
## X2202  0.0000000  0.000000  0.0000000  3.7065030  0.000000 2.3549622 0.0000000
## X2206  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X2208  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 3.2698252
## X2209  3.7065030  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X2302  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X2309  2.3549622  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X2402  0.0000000  0.000000  3.2698252  0.0000000  0.000000 0.0000000 0.0000000
## X2403  0.0000000  0.000000  3.2698252  0.0000000  0.000000 0.0000000 3.7978668
## X2507  0.0000000 23.729708  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X2508  1.1470680  0.000000  1.6737534  0.0000000  0.000000 2.0430009 1.9440463
## X2512  0.0000000  0.000000 20.2909494  0.0000000  0.000000 0.0000000 0.0000000
## X2517  0.8062420  3.853436  1.1764339  0.0000000  0.000000 0.0000000 1.3664149
## X2519  2.3549622  0.000000  0.0000000  0.0000000  0.000000 4.1943407 0.0000000
## X2520  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X2522  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X2525  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X2530  0.0000000  0.000000  2.6493963  0.0000000  0.000000 0.0000000 3.0772452
## X2602  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X2606  0.0000000  0.000000  3.2698252  0.0000000  0.000000 0.0000000 3.7978668
## X2607  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X2608  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X2710  0.0000000  0.000000  0.0000000  0.0000000 27.634216 0.0000000 0.0000000
## X2713  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X2714  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X2716  0.0000000  0.000000  3.2272273  0.0000000  0.000000 0.0000000 1.8741945
## X2804  0.9634751  0.000000  1.4058621  0.0000000  4.404646 1.7160098 1.6328933
## X2811  0.9634751  0.000000  1.4058621  0.0000000  4.404646 1.7160098 1.6328933
## X2825  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X2826  2.3549622  0.000000  0.0000000  0.0000000  0.000000 4.1943407 0.0000000
## X2832  2.3549622  0.000000  0.0000000  0.0000000  0.000000 4.1943407 0.0000000
## X2833  2.3549622  0.000000  0.0000000  0.0000000  0.000000 4.1943407 0.0000000
## X2835  2.3549622  0.000000  0.0000000  0.0000000  0.000000 4.1943407 0.0000000
## X2836  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X2901  0.9634751  0.000000  1.4058621  0.0000000  4.404646 1.7160098 1.6328933
## X2903  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X2907  2.3549622  0.000000  0.0000000  0.0000000  0.000000 4.1943407 0.0000000
## X2915  2.3549622  0.000000  0.0000000  0.0000000  0.000000 4.1943407 0.0000000
## X2933  2.3549622  0.000000  0.0000000  0.0000000  0.000000 4.1943407 0.0000000
## X3105  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X3202  2.3549622  0.000000  0.0000000  0.0000000  0.000000 4.1943407 0.0000000
## X3204  1.1192587  0.000000  1.6331752  0.0000000  0.000000 1.9934707 1.8969151
## X3205  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X3206  1.3285600  0.000000  0.0000000  0.0000000  0.000000 2.3662503 0.0000000
## X3207  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X3208  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X3209  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X3210  2.3549622  0.000000  0.0000000  0.0000000  0.000000 4.1943407 0.0000000
## X3211  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X3212  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X3214  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X3215  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X3302  2.8777942  0.000000  0.0000000  4.0335710  0.000000 2.5627679 0.0000000
## X3303  0.0000000  0.000000  3.2698252  0.0000000  0.000000 0.0000000 3.7978668
## X3304  0.0000000  0.000000  3.2698252  0.0000000  0.000000 0.0000000 3.7978668
## X3305  0.0000000  0.000000  2.7765887  0.0000000  0.000000 0.0000000 3.2249778
## X3307  0.0000000  0.000000  3.2698252  0.0000000  0.000000 0.0000000 3.7978668
```

```
## X3402  1.6363374  0.000000  1.1938368  2.2935182  0.000000 1.4572094 1.3866282
## X3403  1.0593237  0.000000  1.5457204  0.0000000  0.000000 1.8867224 1.7953373
## X3506  0.8254951  0.000000  1.2045272  2.3140559  3.773851 0.0000000 1.3990449
## X3507  2.8777942  0.000000  0.0000000  4.0335710  0.000000 2.5627679 0.0000000
## X3605  0.0000000  0.000000  0.0000000  0.0000000 27.634216 0.0000000 0.0000000
## X3701  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X3707  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X3802  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X3808  0.0000000  0.000000  3.2698252  0.0000000  0.000000 0.0000000 3.7978668
## X3809  0.9156603  0.000000  1.3360926  0.0000000  0.000000 1.6308484 1.5518568
## X3810  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X3811  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X3814  1.3285600  0.000000  0.0000000  0.0000000  0.000000 2.3662503 0.0000000
## X3815  2.3549622  0.000000  0.0000000  0.0000000  0.000000 4.1943407 0.0000000
## X3816  0.0000000  0.000000  3.2698252  0.0000000  0.000000 0.0000000 3.7978668
## X3819  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X3820  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X3823  0.0000000  0.000000  0.0000000  0.0000000 27.634216 0.0000000 0.0000000
## X3902  2.3549622  0.000000  0.0000000  0.0000000  0.000000 4.1943407 0.0000000
## X3908  1.3954415  0.000000  2.0361700  3.9117544  0.000000 0.0000000 2.3649893
## X3909  2.3549622  0.000000  0.0000000  0.0000000  0.000000 4.1943407 0.0000000
## X3910  2.3549622  0.000000  0.0000000  0.0000000  0.000000 4.1943407 0.0000000
## X3911  2.3549622  0.000000  0.0000000  0.0000000  0.000000 4.1943407 0.0000000
## X3915  2.3549622  0.000000  0.0000000  0.0000000  0.000000 4.1943407 0.0000000
## X3916  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X3917  0.8535157  4.079382  1.2454137  0.0000000  0.000000 1.5201647 1.4465342
## X3919  1.3285600  0.000000  0.0000000  0.0000000  0.000000 2.3662503 0.0000000
## X3920  1.0884686  0.000000  0.0000000  0.0000000  4.976071 1.9386314 0.0000000
## X3921  1.2123206  0.000000  0.0000000  0.0000000  0.000000 2.1592202 0.0000000
## X3923  1.9160093  9.157595  0.0000000  5.3710326  0.000000 0.0000000 0.0000000
## X3924  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X3925  2.3549622  0.000000  0.0000000  0.0000000  0.000000 4.1943407 0.0000000
## X3926  0.8405474  0.000000  1.2264910  0.0000000  0.000000 1.4970675 1.4245557
## X4001  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X4005  0.0000000  0.000000  0.0000000  0.0000000 27.634216 0.0000000 0.0000000
## X4006  0.0000000  0.000000  0.0000000  0.0000000 27.634216 0.0000000 0.0000000
## X4008  0.0000000  0.000000  3.2698252  0.0000000  0.000000 0.0000000 3.7978668
## X4009  0.0000000  0.000000  0.0000000  0.0000000 27.634216 0.0000000 0.0000000
## X4010  1.6533728  7.902318  0.0000000  4.6347986  0.000000 0.0000000 0.0000000
## X4012  0.0000000  0.000000  0.0000000  0.0000000 27.634216 0.0000000 0.0000000
## X4013  0.0000000  0.000000  0.0000000  0.0000000 27.634216 0.0000000 0.0000000
## X4015  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X4016  0.0000000  0.000000  0.0000000  0.0000000 21.183695 0.0000000 0.0000000
## X4202  2.2659862  0.000000  0.0000000  0.0000000  0.000000 2.0179326 0.0000000
## X4203  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X4409  2.3426360  5.598326  0.0000000  3.2834817  0.000000 2.0861918 0.0000000
## X4415  2.3229925  0.000000  0.0000000  3.2559489  5.309927 2.0686986 0.0000000
## X4416  1.2123206  5.794299  1.7689674  0.0000000  0.000000 2.1592202 0.0000000
## X4418  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X4420  0.0000000 30.204545  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X4421  0.0000000  7.902318  2.4125330  0.0000000  0.000000 0.0000000 2.8021309
## X4602  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X4804  2.3549622  0.000000  0.0000000  0.0000000  0.000000 4.1943407 0.0000000
## X4808  1.1192587  0.000000  0.0000000  0.0000000  0.000000 1.9934707 0.0000000
## X4818  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X4819  3.7065030  0.000000  0.0000000 10.3902222  0.000000 0.0000000 0.0000000
## X4821  1.6733216  0.000000  0.0000000  4.6907200  0.000000 0.0000000 0.0000000
## X4822  2.3549622  0.000000  0.0000000  0.0000000  0.000000 4.1943407 0.0000000
## X4823  1.7693809  0.000000  0.0000000  0.0000000  0.000000 3.1513815 0.0000000
## X4901  0.0000000  0.000000  3.2698252  0.0000000  0.000000 0.0000000 3.7978668
## X4902  0.0000000  0.000000  3.2698252  0.0000000  0.000000 0.0000000 3.7978668
## X4907  0.0000000  0.000000  3.2698252  0.0000000  0.000000 0.0000000 3.7978668
## X4911  1.3954415  0.000000  2.0361700  3.9117544  0.000000 0.0000000 2.3649893
## X5111  2.0133188  0.000000  2.9377516  0.0000000  0.000000 3.5858510 0.0000000
## X5112  0.0000000  0.000000 20.2909494  0.0000000  0.000000 0.0000000 0.0000000
## X5205  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X5206  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X5208  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X5209  1.6733216  0.000000  0.0000000  4.6907200  0.000000 0.0000000 0.0000000
## X5210 10.3000629  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X5211  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X5402  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X5407  0.8329535  0.000000  1.2154101  0.0000000  0.000000 1.4835421 1.4116854
## X5408  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X5505  0.0000000 24.161363  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X5508  1.1663865  0.000000  1.7019422  3.2696575  0.000000 0.0000000 1.9767872
## X5509  0.0000000  9.094794  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X5511  0.0000000 30.204545  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X5512  2.1373616 10.215554  0.0000000  5.9915371  0.000000 0.0000000 0.0000000
```

```
## X5513 10.3000629  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X5514  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X5515  2.9256864  0.000000  4.2690416  8.2014033  0.000000 0.0000000 0.0000000
## X5516 10.3000629  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X5601  0.0000000  0.000000  3.2698252  0.0000000  0.000000 0.0000000 3.7978668
## X5603  3.7860389  0.000000  0.0000000  3.5377218  0.000000 2.2477256 0.0000000
## X5609  0.0000000 30.204545  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X5806  1.6733216  0.000000  0.0000000  4.6907200  0.000000 0.0000000 0.0000000
## X5807  1.6733216  0.000000  0.0000000  4.6907200  0.000000 0.0000000 0.0000000
## X5903  2.3549622  0.000000  0.0000000  0.0000000  0.000000 4.1943407 0.0000000
## X5907  3.7065030  0.000000  0.0000000 10.3902222  0.000000 0.0000000 0.0000000
## X5911  1.5260072  7.293571  2.2266863  0.0000000  0.000000 0.0000000 0.0000000
## X6002  1.3261749  0.000000  0.9675485  1.8587877  0.000000 1.1809994 1.1237967
## X6101  3.7065030  0.000000  0.0000000 10.3902222  0.000000 0.0000000 0.0000000
## X6103  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X6104  0.0000000  0.000000  1.8843824  0.0000000  0.000000 0.0000000 2.1886896
## X6105  3.7065030  0.000000  0.0000000 10.3902222  0.000000 0.0000000 0.0000000
## X6106  0.0000000  0.000000  1.8843824  0.0000000  0.000000 0.0000000 2.1886896
## X6107  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X6109  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X6110  2.3351526 11.160901  0.0000000  6.5459935  0.000000 0.0000000 0.0000000
## X6111  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X6112  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X6114  1.5093943  7.214169  2.2024454  0.0000000  0.000000 0.0000000 0.0000000
## X6115  0.0000000  0.000000  1.8004775  0.0000000  0.000000 0.0000000 2.0912350
## X6117  3.7065030  0.000000  0.0000000 10.3902222  0.000000 0.0000000 0.0000000
## X6201  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X6202  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X6203  1.6243245  0.000000  0.0000000  4.5533692  0.000000 0.0000000 0.0000000
## X6204  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X6205  1.3954415  0.000000  2.0361700  3.9117544  0.000000 0.0000000 2.3649893
## X6206  0.0000000  5.005600  1.5281823  0.0000000  0.000000 0.0000000 1.7749670
## X6210  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X6211  2.5708554  0.000000  0.0000000  3.6033589  0.000000 0.0000000 0.0000000
## X6212  1.5757282  0.000000  0.0000000  2.2085671  0.000000 1.4032349 0.0000000
## X6217  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X6302  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X6303  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X6304  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X6305  1.3285600  0.000000  0.0000000  0.0000000  0.000000 2.3662503 0.0000000
## X6306  2.3549622  0.000000  0.0000000  0.0000000  0.000000 4.1943407 0.0000000
## X6307  0.0000000  0.000000  0.0000000  0.0000000  0.000000 0.0000000 0.0000000
## X6401  0.0000000  0.000000  3.2698252  0.0000000  0.000000 0.0000000 3.7978668
## X6403  0.0000000  0.000000  2.8152006  0.0000000  0.000000 0.0000000 3.2698252
## X6404  2.3549622  0.000000  0.0000000  0.0000000  0.000000 4.1943407 0.0000000
##           X2403     X2507     X2508      X2512      X2517     X2519      X2520
## X102  3.7978668  0.000000 1.9440463   0.000000  1.3664149 0.0000000   0.000000
## X210  0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X401  1.9440463  0.000000 1.9902329   0.000000  0.6994397 2.0430009   0.000000
## X403  1.7616411  0.000000 0.9017473   0.000000  0.6338132 0.0000000   0.000000
## X406  0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X510  0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X602  0.0000000  0.000000 0.0000000   0.000000 11.0574986 0.0000000   0.000000
## X603  0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X702  0.9905484  4.389259 0.5070420   0.000000  3.5638632 0.0000000   0.000000
## X703  0.0000000  0.000000 0.0000000   0.000000  7.7068729 0.0000000   0.000000
## X709  0.0000000  2.732520 0.0000000   0.000000  2.6624013 0.0000000   0.000000
## X712  0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X713  0.0000000  0.000000 0.0000000   0.000000  4.8811264 0.0000000  18.504971
## X804  0.0000000  0.000000 0.0000000   0.000000  6.9172687 0.0000000  85.229540
## X805  0.0000000  0.000000 0.0000000   0.000000  4.3447584 0.0000000  71.377226
## X808  0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X809  3.7978668  0.000000 1.9440463   0.000000  1.3664149 0.0000000   0.000000
## X813  0.0000000 23.729708 0.0000000   0.000000  3.8534365 0.0000000   0.000000
## X901  0.0000000  0.000000 0.0000000   0.000000  3.3228881 0.0000000   0.000000
## X904  0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X1001 0.0000000  0.000000 0.0000000   0.000000  4.0700414 0.0000000   0.000000
## X1003 1.3277012  0.000000 1.3592461   0.000000  3.8215083 1.3952830   0.000000
## X1005 0.0000000  0.000000 0.0000000   0.000000  2.7762290 0.0000000   0.000000
## X1102 0.0000000  0.000000 2.0430009   0.000000  0.0000000 4.1943407   0.000000
## X1108 0.0000000  0.000000 2.0430009   0.000000  0.0000000 4.1943407   0.000000
## X1202 0.0000000  0.000000 0.0000000   0.000000  9.9744508 0.0000000 245.796205
## X1208 0.0000000  0.000000 2.0430009   0.000000  0.0000000 4.1943407   0.000000
## X1213 0.0000000  4.894818 0.0000000   0.000000  2.3845982 0.0000000   0.000000
## X1214 0.0000000  5.850082 0.0000000   8.192629  3.3249771 0.0000000   0.000000
## X1302 0.0000000  5.217687 0.0000000   7.307003  2.9655491 0.0000000   0.000000
## X1507 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X1514 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X1517 1.9440463  0.000000 1.9902329   0.000000  0.6994397 2.0430009   0.000000
```

```
## X1601 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X1602 1.9201921  0.000000 0.9829061   0.000000  0.6908574 0.0000000   0.000000
## X1704 1.6796629  3.721415 0.8597844   0.000000  1.2086375 0.0000000   0.000000
## X1806 1.1745499  2.602299 1.2024565   0.000000  0.8451742 1.2343360   0.000000
## X1901 1.1265013  2.495844 1.1532665   0.000000  0.8106000 1.1838417   0.000000
## X1902 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X1905 1.0698448  2.370317 1.0952641   0.000000  1.1547477 1.1243013   0.000000
## X2001 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X2002 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X2003 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X2004 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X2005 1.5726715  3.484367 0.8050179   0.000000  1.1316499 0.0000000   0.000000
## X2006 3.6223945  0.000000 1.8542259   0.000000  2.6065655 0.0000000   0.000000
## X2007 2.3649893  0.000000 1.2105879   0.000000  0.8508883 0.0000000   0.000000
## X2008 1.1265013  2.495844 1.1532665   0.000000  0.8106000 1.1838417   0.000000
## X2101 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X2102 2.7691172  0.000000 1.4174521   0.000000  0.9962871 0.0000000   0.000000
## X2103 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X2104 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X2106 0.0000000  0.000000 1.0076334   0.000000  0.0000000 2.0686986   0.000000
## X2202 0.0000000  0.000000 1.1470680   0.000000  0.8062420 2.3549622   0.000000
## X2206 0.0000000 23.729708 0.0000000   0.000000  3.8534365 0.0000000   0.000000
## X2208 3.2698252  0.000000 1.6737534  20.290949  1.1764339 0.0000000   0.000000
## X2209 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X2302 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X2309 0.0000000  0.000000 2.0430009   0.000000  0.0000000 4.1943407   0.000000
## X2402 3.7978668  0.000000 1.9440463   0.000000  1.3664149 0.0000000   0.000000
## X2403 0.0000000  0.000000 1.9440463   0.000000  1.3664149 0.0000000   0.000000
## X2507 0.0000000  0.000000 0.0000000   0.000000  3.0273902 0.0000000   0.000000
## X2508 1.9440463  0.000000 0.0000000   0.000000  0.6994397 2.0430009   0.000000
## X2512 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X2517 1.3664149  3.027390 0.6994397   0.000000  0.0000000 0.0000000  24.229241
## X2519 0.0000000  0.000000 2.0430009   0.000000  0.0000000 0.0000000   0.000000
## X2520 0.0000000  0.000000 0.0000000   0.000000 24.2292414 0.0000000   0.000000
## X2522 0.0000000  0.000000 0.0000000   0.000000  3.3908506 0.0000000   0.000000
## X2525 0.0000000  0.000000 0.0000000   0.000000  8.9256498 0.0000000   0.000000
## X2530 3.0772452  6.817864 1.5751760   0.000000  3.3214400 0.0000000   0.000000
## X2602 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X2606 3.7978668  0.000000 1.9440463   0.000000  1.3664149 0.0000000   0.000000
## X2607 0.0000000  0.000000 0.0000000   0.000000 28.2676892 0.0000000   0.000000
## X2608 0.0000000  0.000000 0.0000000   0.000000 28.2676892 0.0000000   0.000000
## X2710 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X2713 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X2714 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X2716 1.8741945  4.152414 0.9593609  11.630333  1.3486163 0.0000000   0.000000
## X2804 1.6328933  0.000000 1.6716882   0.000000  0.5874918 1.7160098   0.000000
## X2811 1.6328933  0.000000 1.6716882   0.000000  0.5874918 1.7160098   0.000000
## X2825 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X2826 0.0000000  0.000000 2.0430009   0.000000  0.0000000 4.1943407   0.000000
## X2832 0.0000000  0.000000 2.0430009   0.000000  0.0000000 4.1943407   0.000000
## X2833 0.0000000  0.000000 2.0430009   0.000000  0.0000000 4.1943407   0.000000
## X2835 0.0000000  0.000000 2.0430009   0.000000  0.0000000 4.1943407   0.000000
## X2836 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X2901 1.6328933  0.000000 1.6716882   0.000000  0.5874918 1.7160098   0.000000
## X2903 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X2907 0.0000000  0.000000 2.0430009   0.000000  0.0000000 4.1943407   0.000000
## X2915 0.0000000  0.000000 2.0430009   0.000000  0.0000000 4.1943407   0.000000
## X2933 0.0000000  0.000000 2.0430009   0.000000  0.0000000 4.1943407   0.000000
## X3105 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X3202 0.0000000  0.000000 2.0430009   0.000000  0.0000000 4.1943407   0.000000
## X3204 1.8969151  0.000000 1.9419821   0.000000  1.3649653 1.9934707   0.000000
## X3205 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X3206 0.0000000  0.000000 1.1525662   0.000000  0.0000000 2.3662503   0.000000
## X3207 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X3208 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X3209 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X3210 0.0000000  0.000000 2.0430009   0.000000  0.0000000 4.1943407   0.000000
## X3211 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X3212 0.0000000  0.000000 0.0000000   0.000000 28.2676892 0.0000000   0.000000
## X3214 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X3215 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X3302 0.0000000  0.000000 1.2482869   0.000000  0.0000000 2.5627679   0.000000
## X3303 3.7978668  0.000000 1.9440463   0.000000  1.3664149 0.0000000   0.000000
## X3304 3.7978668  0.000000 1.9440463   0.000000  1.3664149 0.0000000   0.000000
## X3305 3.2249778  0.000000 1.6507970   0.000000  1.1602985 0.0000000   0.000000
## X3307 3.7978668  0.000000 1.9440463   0.000000  1.3664149 0.0000000   0.000000
## X3402 1.3866282  0.000000 1.4195729   0.000000  0.4988895 1.4572094   0.000000
## X3403 1.7953373  0.000000 1.8379912   0.000000  0.6459366 1.8867224   0.000000
## X3506 1.3990449  0.000000 0.7161423   0.000000  0.5033569 0.0000000   0.000000
```

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## X3507 0.0000000  0.000000 1.2482869   0.000000  0.0000000 2.5627679   0.000000
## X3605 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X3701 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X3707 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X3802 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X3808 3.7978668  0.000000 1.9440463   0.000000  1.3664149 0.0000000   0.000000
## X3809 1.5518568  0.000000 1.5887266   0.000000  1.1166723 1.6308484   0.000000
## X3810 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X3811 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X3814 0.0000000  0.000000 1.1525662   0.000000  0.0000000 2.3662503   0.000000
## X3815 0.0000000  0.000000 2.0430009   0.000000  0.0000000 4.1943407   0.000000
## X3816 3.7978668  0.000000 1.9440463   0.000000  1.3664149 0.0000000   0.000000
## X3819 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X3820 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X3823 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X3902 0.0000000  0.000000 2.0430009   0.000000  0.0000000 4.1943407   0.000000
## X3908 2.3649893  0.000000 1.2105879   0.000000  0.8508883 0.0000000   0.000000
## X3909 0.0000000  0.000000 2.0430009   0.000000  0.0000000 4.1943407   0.000000
## X3910 0.0000000  0.000000 2.0430009   0.000000  0.0000000 4.1943407   0.000000
## X3911 0.0000000  0.000000 2.0430009   0.000000  0.0000000 4.1943407   0.000000
## X3915 0.0000000  0.000000 2.0430009   0.000000  0.0000000 4.1943407   0.000000
## X3916 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X3917 1.4465342  3.204901 1.4809020   0.000000  1.5613282 1.5201647   0.000000
## X3919 0.0000000  0.000000 1.1525662   0.000000  0.0000000 2.3662503   0.000000
## X3920 0.0000000  0.000000 0.9442797   0.000000  0.0000000 1.9386314   0.000000
## X3921 0.0000000  0.000000 1.0517251   0.000000  0.0000000 2.1592202   0.000000
## X3923 0.0000000  7.194516 0.0000000   0.000000  1.1683105 0.0000000   0.000000
## X3924 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X3925 0.0000000  0.000000 2.0430009   0.000000  0.0000000 4.1943407   0.000000
## X3926 1.4245557  0.000000 1.4584014   0.000000  1.5376057 1.4970675   0.000000
## X4001 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X4005 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X4006 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X4008 3.7978668  0.000000 1.9440463   0.000000  1.3664149 0.0000000   0.000000
## X4009 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X4010 0.0000000  6.208328 0.0000000   0.000000  2.0163298 0.0000000   0.000000
## X4012 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X4013 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X4015 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X4016 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X4202 0.0000000  0.000000 0.9829061   0.000000  1.3817147 2.0179326   0.000000
## X4203 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X4409 0.0000000  4.398234 1.0161541   0.000000  0.7142264 2.0861918   0.000000
## X4415 0.0000000  0.000000 1.0076334   0.000000  0.0000000 2.0686986   0.000000
## X4416 0.0000000  4.552197 1.0517251  12.750068  1.4784565 2.1592202   0.000000
## X4418 0.0000000  0.000000 0.0000000   0.000000  8.9256498 0.0000000   0.000000
## X4420 0.0000000 23.729708 0.0000000   0.000000  3.8534365 0.0000000   0.000000
## X4421 2.8021309  6.208328 1.4343511   0.000000  2.0163298 0.0000000   0.000000
## X4602 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X4804 0.0000000  0.000000 2.0430009   0.000000  0.0000000 4.1943407   0.000000
## X4808 0.0000000  0.000000 0.9709911   0.000000  0.0000000 1.9934707   0.000000
## X4818 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X4819 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X4821 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X4822 0.0000000  0.000000 2.0430009   0.000000  0.0000000 4.1943407   0.000000
## X4823 0.0000000  0.000000 1.5349916   0.000000  0.0000000 3.1513815   0.000000
## X4901 3.7978668  0.000000 1.9440463   0.000000  1.3664149 0.0000000   0.000000
## X4902 3.7978668  0.000000 1.9440463   0.000000  1.3664149 0.0000000   0.000000
## X4907 3.7978668  0.000000 1.9440463   0.000000  1.3664149 0.0000000   0.000000
## X4911 2.3649893  0.000000 1.2105879   0.000000  0.8508883 0.0000000   0.000000
## X5111 0.0000000  0.000000 1.7466150  21.174254  0.0000000 3.5858510   0.000000
## X5112 0.0000000  0.000000 0.0000000 146.250000  0.0000000 0.0000000   0.000000
## X5205 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X5206 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X5208 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X5209 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X5210 0.0000000  0.000000 0.0000000   0.000000  6.2805846 0.0000000   0.000000
## X5211 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X5402 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X5407 1.4116854  0.000000 1.4452253   0.000000  0.5079047 1.4835421   0.000000
## X5408 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X5505 0.0000000 18.981981 0.0000000   0.000000  3.0824599 0.0000000   0.000000
## X5508 1.9767872  0.000000 1.0118758   0.000000  0.7112194 0.0000000   0.000000
## X5509 0.0000000  7.145177 0.0000000   0.000000  1.1602985 0.0000000   0.000000
## X5511 0.0000000 23.729708 0.0000000   0.000000  3.8534365 0.0000000   0.000000
## X5512 0.0000000  8.025684 0.0000000   0.000000  1.3032827 0.0000000   0.000000
## X5513 0.0000000  0.000000 0.0000000   0.000000  6.2805846 0.0000000   0.000000
## X5514 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X5515 0.0000000  0.000000 0.0000000  30.769724  0.0000000 0.0000000   0.000000
```

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## X5516 0.0000000  0.000000 0.0000000   0.000000  6.2805846 0.0000000   0.000000
## X5601 3.7978668  0.000000 1.9440463   0.000000  1.3664149 0.0000000   0.000000
## X5603 0.0000000  0.000000 1.0948347   0.000000  0.7695287 2.2477256   0.000000
## X5609 0.0000000 23.729708 0.0000000   0.000000  3.8534365 0.0000000   0.000000
## X5806 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X5807 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X5903 0.0000000  0.000000 2.0430009   0.000000  0.0000000 4.1943407   0.000000
## X5907 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X5911 0.0000000  5.730076 0.0000000  16.049145  1.8610046 0.0000000   0.000000
## X6002 1.1237967  0.000000 1.1504976   0.000000  0.4043269 1.1809994   0.000000
## X6101 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X6103 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X6104 2.1886896  0.000000 1.1203440   0.000000  0.7874585 0.0000000   0.000000
## X6105 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X6106 2.1886896  0.000000 1.1203440   0.000000  0.7874585 0.0000000   0.000000
## X6107 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X6109 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X6110 0.0000000  8.768380 0.0000000   0.000000  1.4238881 0.0000000   0.000000
## X6111 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X6112 0.0000000  0.000000 0.0000000   0.000000  1.2366176 0.0000000   0.000000
## X6114 0.0000000 11.335390 0.0000000  15.874425  1.8407448 0.0000000   0.000000
## X6115 2.0912350  0.000000 1.0704591   0.000000  0.7523959 0.0000000   0.000000
## X6117 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X6201 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X6202 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X6203 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X6204 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X6205 2.3649893  0.000000 1.2105879   0.000000  0.8508883 0.0000000   0.000000
## X6206 1.7749670  3.932568 0.9085685   0.000000  1.9158229 0.0000000   0.000000
## X6210 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X6211 0.0000000  0.000000 0.0000000   0.000000  0.7838061 0.0000000   0.000000
## X6212 0.0000000  0.000000 0.6834963   0.000000  0.4804109 1.4032349   0.000000
## X6217 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X6302 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X6303 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X6304 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X6305 0.0000000  0.000000 1.1525662   0.000000  0.0000000 2.3662503   0.000000
## X6306 0.0000000  0.000000 2.0430009   0.000000  0.0000000 4.1943407   0.000000
## X6307 0.0000000  0.000000 0.0000000   0.000000  0.0000000 0.0000000   0.000000
## X6401 3.7978668  0.000000 1.9440463   0.000000  1.3664149 0.0000000   0.000000
## X6403 3.2698252  0.000000 1.6737534   0.000000  1.1764339 0.0000000   0.000000
## X6404 0.0000000  0.000000 2.0430009   0.000000  0.0000000 4.1943407   0.000000
##           X2522      X2525       X2530     X2602     X2606      X2607
## X102   0.000000   0.000000   3.0772452   0.00000 3.7978668    0.00000
## X210   0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X401   0.000000   0.000000   1.5751760   0.00000 1.9440463    0.00000
## X403   0.000000   0.000000   1.4273811   0.00000 1.7616411    0.00000
## X406   0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X510   0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X602   0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X603   0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X702   0.000000   6.470421   2.4077959   0.00000 0.9905484   20.49193
## X703   0.000000   0.000000   8.6781713   0.00000 0.0000000  221.57195
## X709   6.121158   8.056284   0.9993100  34.01832 0.0000000    0.00000
## X712   0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X713   5.179495   6.816924   0.8455791  14.39251 0.0000000    0.00000
## X804   0.000000   0.000000   3.8945236   0.00000 0.0000000   99.43531
## X805   0.000000   0.000000   0.0000000 111.02934 0.0000000    0.00000
## X808   0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X809   0.000000   0.000000   3.0772452   0.00000 3.7978668    0.00000
## X813   0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X901   0.000000   0.000000   0.0000000 127.37356 0.0000000    0.00000
## X904   0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X1001  5.614509  14.778934   0.0000000   0.00000 0.0000000    0.00000
## X1003  0.000000   0.000000   2.1515574   0.00000 1.3277012    0.00000
## X1005  6.382888   0.000000   2.0840743   0.00000 0.0000000    0.00000
## X1102  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X1108  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X1202  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X1208  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X1213  0.000000  14.431391   3.5801641   0.00000 0.0000000    0.00000
## X1214  6.552427   0.000000   2.1394332   0.00000 0.0000000    0.00000
## X1302  5.844108   0.000000   1.9081606  32.47861 0.0000000    0.00000
## X1507  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X1514  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X1517  0.000000   0.000000   1.5751760   0.00000 1.9440463    0.00000
## X1601  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X1602  0.000000   0.000000   1.5558480   0.00000 1.9201921    0.00000
## X1704  0.000000   0.000000   1.3609578   0.00000 1.6796629    0.00000
```

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## X1806  0.000000   0.000000   0.9516869   0.00000 1.1745499    0.00000
## X1901  0.000000   0.000000   0.9127553   0.00000 1.1265013    0.00000
## X1902  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X1905  0.000000   0.000000   0.8668490   0.00000 1.0698448    0.00000
## X2001  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2002  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2003  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2004  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2005  0.000000   0.000000   1.2742674   0.00000 1.5726715    0.00000
## X2006  0.000000   0.000000   2.9350678   0.00000 3.6223945    0.00000
## X2007  0.000000   0.000000   1.9162476   0.00000 2.3649893    0.00000
## X2008  0.000000   0.000000   0.9127553   0.00000 1.1265013    0.00000
## X2101  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2102  0.000000   0.000000   2.2436947   0.00000 2.7691172    0.00000
## X2103  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2104  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2106  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2202  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2206  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2208  0.000000   0.000000   2.6493963   0.00000 3.2698252    0.00000
## X2209  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2302  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2309  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2402  0.000000   0.000000   3.0772452   0.00000 3.7978668    0.00000
## X2403  0.000000   0.000000   3.0772452   0.00000 3.7978668    0.00000
## X2507  0.000000   0.000000   6.8178641   0.00000 0.0000000    0.00000
## X2508  0.000000   0.000000   1.5751760   0.00000 1.9440463    0.00000
## X2512  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2517  3.390851   8.925650   3.3214400   0.00000 1.3664149   28.26769
## X2519  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2520  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2522  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2525  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2530  0.000000   0.000000   0.0000000   0.00000 3.0772452    0.00000
## X2602  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2606  0.000000   0.000000   3.0772452   0.00000 0.0000000    0.00000
## X2607  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2608  0.000000   0.000000   0.0000000   0.00000 0.0000000 1625.38889
## X2710  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2713  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2714  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2716  0.000000  12.242560   3.0371564   0.00000 1.8741945    0.00000
## X2804  0.000000   0.000000   1.3230624   0.00000 1.6328933    0.00000
## X2811  0.000000   0.000000   1.3230624   0.00000 1.6328933    0.00000
## X2825  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2826  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2832  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2833  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2835  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2836  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2901  0.000000   0.000000   1.3230624   0.00000 1.6328933    0.00000
## X2903  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2907  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2915  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X2933  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3105  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3202  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3204  0.000000   0.000000   1.5369877   0.00000 1.8969151    0.00000
## X3205  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3206  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3207  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3208  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3209  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3210  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3211  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3212  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3214  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3215  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3302  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3303  0.000000   0.000000   3.0772452   0.00000 3.7978668    0.00000
## X3304  0.000000   0.000000   3.0772452   0.00000 3.7978668    0.00000
## X3305  0.000000   0.000000   2.6130585   0.00000 3.2249778    0.00000
## X3307  0.000000   0.000000   3.0772452   0.00000 3.7978668    0.00000
## X3402  0.000000   0.000000   1.1235246   0.00000 1.3866282    0.00000
## X3403  0.000000   0.000000   1.4546837   0.00000 1.7953373    0.00000
## X3506  0.000000   0.000000   1.1335854   0.00000 1.3990449    0.00000
## X3507  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3605  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3701  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
```

```
## X3707  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3802  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3808  0.000000   0.000000   3.0772452   0.00000 3.7978668    0.00000
## X3809  3.851038   0.000000   1.2574021   0.00000 1.5518568    0.00000
## X3810  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3811  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3814  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3815  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3816  0.000000   0.000000   3.0772452   0.00000 3.7978668    0.00000
## X3819  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3820  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3823  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3902  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3908  0.000000   0.000000   1.9162476   0.00000 2.3649893    0.00000
## X3909  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3910  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3911  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3915  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3916  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3917  3.589672   0.000000   1.1720638   0.00000 1.4465342    0.00000
## X3919  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3920  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3921  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3923  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3924  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3925  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X3926  0.000000   0.000000   1.1542556   0.00000 1.4245557    0.00000
## X4001  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X4005  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X4006  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X4008  0.000000   0.000000   3.0772452   0.00000 3.7978668    0.00000
## X4009  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X4010  6.953683   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X4012  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X4013  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X4015  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X4016  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X4202  0.000000   0.000000   1.5558480   0.00000 0.0000000    0.00000
## X4203  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X4409  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X4415  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X4416  5.098722   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X4418  0.000000 162.052632   0.0000000   0.00000 0.0000000    0.00000
## X4420  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X4421  0.000000   0.000000   2.2704443   0.00000 2.8021309    0.00000
## X4602  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X4804  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X4808  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X4818  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X4819  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X4821  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X4822  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X4823  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X4901  0.000000   0.000000   3.0772452   0.00000 3.7978668    0.00000
## X4902  0.000000   0.000000   3.0772452   0.00000 3.7978668    0.00000
## X4907  0.000000   0.000000   3.0772452   0.00000 3.7978668    0.00000
## X4911  0.000000   0.000000   1.9162476   0.00000 2.3649893    0.00000
## X5111  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X5112  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X5205  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X5206  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X5208  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X5209  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X5210  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X5211  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X5402  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X5407  0.000000   0.000000   1.1438274   0.00000 1.4116854    0.00000
## X5408  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X5505  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X5508  0.000000   0.000000   1.6017045   0.00000 1.9767872    0.00000
## X5509  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X5511  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X5512  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X5513  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X5514  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X5515  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X5516  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X5601  0.000000   0.000000   3.0772452   0.00000 3.7978668    0.00000
## X5603  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
```

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## X5609  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X5806  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X5807  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X5903  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X5907  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X5911  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X6002  0.000000   0.000000   0.9105638   0.00000 1.1237967    0.00000
## X6101  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X6103  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X6104  0.000000   0.000000   1.7733997   0.00000 2.1886896    0.00000
## X6105  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X6106  0.000000   0.000000   1.7733997   0.00000 2.1886896    0.00000
## X6107  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X6109  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X6110  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X6111  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X6112  8.529411   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X6114  0.000000   0.000000   2.0727300   0.00000 0.0000000    0.00000
## X6115  0.000000   0.000000   1.6944365   0.00000 2.0912350    0.00000
## X6117  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X6201  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X6202  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X6203  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X6204  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X6205  0.000000   0.000000   1.9162476   0.00000 2.3649893    0.00000
## X6206  0.000000   0.000000   1.4381785   0.00000 1.7749670    0.00000
## X6210  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X6211  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X6212  0.000000   8.722193   0.0000000   0.00000 0.0000000    0.00000
## X6217  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X6302  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X6303  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X6304  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X6305  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X6306  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X6307  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
## X6401  0.000000   0.000000   3.0772452   0.00000 3.7978668    0.00000
## X6403  0.000000   0.000000   2.6493963   0.00000 3.2698252    0.00000
## X6404  0.000000   0.000000   0.0000000   0.00000 0.0000000    0.00000
##            X2608     X2710    X2713    X2714      X2716     X2804     X2811
## X102     0.00000  0.000000 0.000000 0.000000  1.8741945 1.6328933 1.6328933
## X210     0.00000 10.498828 0.000000 0.000000  0.0000000 1.6734212 1.6734212
## X401     0.00000  0.000000 0.000000 0.000000  0.9593609 1.6716882 1.6716882
## X403     0.00000  4.751937 0.000000 0.000000  1.7386931 1.5148382 1.5148382
## X406     0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X510     0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X602     0.00000  0.000000 0.000000 0.000000  5.0555448 0.0000000 0.0000000
## X603     0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X702    20.49193  0.000000 0.000000 0.000000  1.4664705 0.4258882 0.4258882
## X703   221.57195  0.000000 0.000000 0.000000  5.2854325 0.0000000 0.0000000
## X709     0.00000  0.000000 0.000000 0.000000  1.8258910 0.0000000 0.0000000
## X712     0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X713     0.00000  0.000000 0.000000 0.000000  2.0600028 0.0000000 0.0000000
## X804    99.43531  0.000000 0.000000 0.000000  2.3719571 0.0000000 0.0000000
## X805     0.00000  0.000000 0.000000 0.000000  1.9864448 0.0000000 0.0000000
## X808     0.00000  0.000000 0.000000 0.000000 15.5077720 0.0000000 0.0000000
## X809     0.00000  0.000000 0.000000 0.000000  1.8741945 1.6328933 1.6328933
## X813     0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X901     0.00000  0.000000 0.000000 0.000000  2.2788612 0.0000000 0.0000000
## X904     0.00000 27.634216 0.000000 0.000000  0.0000000 4.4046459 4.4046459
## X1001    0.00000  0.000000 0.000000 0.000000  3.3495149 0.0000000 0.0000000
## X1003    0.00000  0.000000 0.000000 0.000000  0.6552035 1.1416938 1.1416938
## X1005    0.00000  0.000000 0.000000 0.000000  1.2693049 0.0000000 0.0000000
## X1102    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
## X1108    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
## X1202    0.00000  0.000000 0.000000 0.000000  6.8405552 0.0000000 0.0000000
## X1208    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
## X1213    0.00000  0.000000 0.000000 0.000000  5.4512461 0.0000000 0.0000000
## X1214    0.00000  0.000000 0.000000 0.000000  2.6060456 0.0000000 0.0000000
## X1302    0.00000  0.000000 0.000000 0.000000  1.7432497 0.0000000 0.0000000
## X1507    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X1514    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X1517    0.00000  0.000000 0.000000 0.000000  0.9593609 1.6716882 1.6716882
## X1601    0.00000 10.498828 0.000000 0.000000  0.0000000 1.6734212 1.6734212
## X1602    0.00000  5.179621 0.000000 0.000000  0.9475892 1.6511761 1.6511761
## X1704    0.00000  4.530805 0.000000 0.000000  1.6577831 1.4443452 1.4443452
## X1806    0.00000  3.168286 0.000000 0.000000  1.1592511 1.5149986 1.5149986
## X1901    0.00000  0.000000 0.000000 0.000000  1.1118286 0.9686822 0.9686822
## X1902    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
```

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## X1905    0.00000  0.000000 1.458221 1.458221  1.0559103 0.9199633 0.9199633
## X2001    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X2002    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X2003    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X2004    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X2005    0.00000  0.000000 0.000000 0.000000  1.5521856 0.6761717 0.6761717
## X2006    0.00000  0.000000 0.000000 0.000000  1.7876015 1.5574491 1.5574491
## X2007    0.00000  0.000000 0.000000 0.000000  1.1670902 1.0168283 1.0168283
## X2008    0.00000  3.038677 0.000000 0.000000  1.1118286 1.4530233 1.4530233
## X2101    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X2102    0.00000  7.469557 0.000000 0.000000  1.3665215 2.3811659 2.3811659
## X2103    0.00000 10.498828 0.000000 0.000000  0.0000000 1.6734212 1.6734212
## X2104    0.00000 27.634216 0.000000 0.000000  0.0000000 4.4046459 4.4046459
## X2106    0.00000  5.309927 0.000000 0.000000  0.0000000 1.6927153 1.6927153
## X2202    0.00000  0.000000 0.000000 0.000000  0.0000000 0.9634751 0.9634751
## X2206    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X2208    0.00000  0.000000 0.000000 0.000000  3.2272273 1.4058621 1.4058621
## X2209    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X2302    0.00000 27.634216 0.000000 0.000000  0.0000000 4.4046459 4.4046459
## X2309    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
## X2402    0.00000  0.000000 0.000000 0.000000  1.8741945 1.6328933 1.6328933
## X2403    0.00000  0.000000 0.000000 0.000000  1.8741945 1.6328933 1.6328933
## X2507    0.00000  0.000000 0.000000 0.000000  4.1524144 0.0000000 0.0000000
## X2508    0.00000  0.000000 0.000000 0.000000  0.9593609 1.6716882 1.6716882
## X2512    0.00000  0.000000 0.000000 0.000000 11.6303330 0.0000000 0.0000000
## X2517   28.26769  0.000000 0.000000 0.000000  1.3486163 0.5874918 0.5874918
## X2519    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
## X2520    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X2522    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X2525    0.00000  0.000000 0.000000 0.000000 12.2425602 0.0000000 0.0000000
## X2530    0.00000  0.000000 0.000000 0.000000  3.0371564 1.3230624 1.3230624
## X2602    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X2606    0.00000  0.000000 0.000000 0.000000  1.8741945 1.6328933 1.6328933
## X2607 1625.38889  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X2608    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X2710    0.00000  0.000000 0.000000 0.000000  0.0000000 4.4046459 4.4046459
## X2713    0.00000  0.000000 0.000000 7.055790  0.0000000 0.0000000 0.0000000
## X2714    0.00000  0.000000 7.055790 0.000000  0.0000000 0.0000000 0.0000000
## X2716    0.00000  0.000000 0.000000 0.000000  0.0000000 0.8058114 0.8058114
## X2804    0.00000  4.404646 0.000000 0.000000  0.8058114 0.0000000 2.1061921
## X2811    0.00000  4.404646 0.000000 0.000000  0.8058114 2.1061921 0.0000000
## X2825    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X2826    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
## X2832    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
## X2833    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
## X2835    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
## X2836    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X2901    0.00000  4.404646 0.000000 0.000000  0.8058114 2.1061921 2.1061921
## X2903    0.00000  0.000000 4.937404 4.937404  1.7876015 0.0000000 0.0000000
## X2907    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
## X2915    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
## X2933    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
## X3105    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X3202    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
## X3204    0.00000  0.000000 0.000000 0.000000  0.9361024 1.6311602 1.6311602
## X3205    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X3206    0.00000  0.000000 3.069033 3.069033  0.0000000 0.9680933 0.9680933
## X3207    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X3208    0.00000  0.000000 4.551788 4.551788  0.0000000 0.0000000 0.0000000
## X3209    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X3210    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
## X3211    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X3212    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X3214    0.00000  0.000000 4.937404 4.937404  1.7876015 0.0000000 0.0000000
## X3215    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X3302    0.00000  0.000000 0.000000 0.000000  0.0000000 1.0484935 1.0484935
## X3303    0.00000  0.000000 0.000000 0.000000  1.8741945 1.6328933 1.6328933
## X3304    0.00000  0.000000 0.000000 0.000000  1.8741945 1.6328933 1.6328933
## X3305    0.00000  0.000000 0.000000 0.000000  3.1829642 1.3865799 1.3865799
## X3307    0.00000  0.000000 0.000000 0.000000  1.8741945 1.6328933 1.6328933
## X3402    0.00000  0.000000 0.000000 0.000000  1.3685662 1.1923650 1.1923650
## X3403    0.00000  0.000000 0.000000 0.000000  0.8859752 1.5438135 1.5438135
## X3506    0.00000  3.773851 1.906928 1.906928  0.6904106 1.2030421 1.2030421
## X3507    0.00000  0.000000 0.000000 0.000000  0.0000000 1.0484935 1.0484935
## X3605    0.00000 27.634216 0.000000 0.000000  0.0000000 4.4046459 4.4046459
## X3701    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X3707    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X3802    0.00000  0.000000 0.000000 0.000000  5.9633065 0.0000000 0.0000000
## X3808    0.00000  0.000000 0.000000 0.000000  1.8741945 1.6328933 1.6328933
```

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## X3809    0.00000  0.000000 0.000000 0.000000  1.5316421 1.3344449 1.3344449
## X3810    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X3811    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X3814    0.00000  0.000000 3.069033 3.069033  0.0000000 0.9680933 0.9680933
## X3815    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
## X3816    0.00000  0.000000 0.000000 0.000000  1.8741945 1.6328933 1.6328933
## X3819    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X3820    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X3823    0.00000 27.634216 0.000000 0.000000  0.0000000 4.4046459 4.4046459
## X3902    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
## X3908    0.00000  0.000000 0.000000 0.000000  1.1670902 1.0168283 1.0168283
## X3909    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
## X3910    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
## X3911    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
## X3915    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
## X3916    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X3917    0.00000  0.000000 0.000000 0.000000  0.7138459 1.2438781 1.2438781
## X3919    0.00000  0.000000 3.069033 3.069033  0.0000000 0.9680933 0.9680933
## X3920    0.00000  4.976071 2.514410 2.514410  0.0000000 1.5862880 1.5862880
## X3921    0.00000  0.000000 2.800514 2.800514  0.0000000 0.8833922 0.8833922
## X3923    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X3924    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X3925    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
## X3926    0.00000  0.000000 0.000000 0.000000  1.4059996 1.2249788 1.2249788
## X4001    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X4005    0.00000 27.634216 0.000000 0.000000  0.0000000 4.4046459 4.4046459
## X4006    0.00000 27.634216 0.000000 0.000000  0.0000000 4.4046459 4.4046459
## X4008    0.00000  0.000000 0.000000 0.000000  1.8741945 1.6328933 1.6328933
## X4009    0.00000 27.634216 0.000000 0.000000  0.0000000 4.4046459 4.4046459
## X4010    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X4012    0.00000 27.634216 0.000000 0.000000  0.0000000 4.4046459 4.4046459
## X4013    0.00000 27.634216 0.000000 0.000000  0.0000000 4.4046459 4.4046459
## X4015    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X4016    0.00000 21.183695 0.000000 0.000000  0.0000000 3.3764917 3.3764917
## X4202    0.00000  0.000000 2.617264 2.617264  0.0000000 0.8255880 0.8255880
## X4203    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X4409    0.00000  0.000000 0.000000 0.000000  0.0000000 0.8535145 0.8535145
## X4415    0.00000  5.309927 0.000000 0.000000  0.0000000 1.6927153 1.6927153
## X4416    0.00000  0.000000 0.000000 0.000000  1.0139355 0.8833922 0.8833922
## X4418    0.00000  0.000000 0.000000 0.000000 12.2425602 0.0000000 0.0000000
## X4420    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X4421    0.00000  0.000000 0.000000 0.000000  1.3828133 1.2047772 1.2047772
## X4602    0.00000  0.000000 0.000000 0.000000 15.5077720 0.0000000 0.0000000
## X4804    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
## X4808    0.00000  0.000000 2.585537 2.585537  0.9361024 0.8155801 0.8155801
## X4818    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X4819    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X4821    0.00000  0.000000 3.865449 3.865449  0.0000000 0.0000000 0.0000000
## X4822    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
## X4823    0.00000  0.000000 0.000000 0.000000  1.4798376 1.2893097 1.2893097
## X4901    0.00000  0.000000 0.000000 0.000000  1.8741945 1.6328933 1.6328933
## X4902    0.00000  0.000000 0.000000 0.000000  1.8741945 1.6328933 1.6328933
## X4907    0.00000  0.000000 0.000000 0.000000  1.8741945 1.6328933 1.6328933
## X4911    0.00000  0.000000 0.000000 0.000000  1.1670902 1.0168283 1.0168283
## X5111    0.00000  0.000000 0.000000 0.000000  1.6838572 1.4670618 1.4670618
## X5112    0.00000  0.000000 0.000000 0.000000 11.6303330 0.0000000 0.0000000
## X5205    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X5206    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X5208    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X5209    0.00000  0.000000 3.865449 3.865449  0.0000000 0.0000000 0.0000000
## X5210    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X5211    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X5402    0.00000  0.000000 4.937404 4.937404  1.7876015 0.0000000 0.0000000
## X5407    0.00000  0.000000 1.924158 1.924158  0.6966485 1.2139116 1.2139116
## X5408    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X5505    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X5508    0.00000  0.000000 0.000000 0.000000  1.9510362 0.8499211 0.8499211
## X5509    0.00000  0.000000 4.395716 4.395716  0.0000000 0.0000000 0.0000000
## X5511    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X5512    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X5513    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X5514    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X5515    0.00000  0.000000 0.000000 0.000000  2.4469237 0.0000000 0.0000000
## X5516    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X5601    0.00000  0.000000 0.000000 0.000000  1.8741945 1.6328933 1.6328933
## X5603    0.00000  0.000000 0.000000 0.000000  0.0000000 0.9196020 0.9196020
## X5609    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X5806    0.00000  0.000000 3.865449 3.865449  0.0000000 0.0000000 0.0000000
## X5807    0.00000  0.000000 3.865449 3.865449  0.0000000 0.0000000 0.0000000
```

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## X5903    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
## X5907    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X5911    0.00000  0.000000 3.525146 3.525146  1.2762900 0.0000000 0.0000000
## X6002    0.00000  0.000000 1.531759 1.531759  0.5545796 0.9663564 0.9663564
## X6101    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X6103    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X6104    0.00000  0.000000 2.983232 2.983232  1.0800888 0.9410284 0.9410284
## X6105    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X6106    0.00000  0.000000 2.983232 2.983232  1.0800888 0.9410284 0.9410284
## X6107    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X6109    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X6110    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X6111    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X6112    0.00000  0.000000 4.684847 4.684847  0.0000000 0.0000000 0.0000000
## X6114    0.00000  0.000000 3.486769 3.486769  2.5247913 0.0000000 0.0000000
## X6115    0.00000  0.000000 2.850399 2.850399  1.0319964 0.8991278 0.8991278
## X6117    0.00000  0.000000 0.000000 0.000000  0.0000000 0.0000000 0.0000000
## X6201    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X6202    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X6203    0.00000  0.000000 3.752264 3.752264  0.0000000 0.0000000 0.0000000
## X6204    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X6205    0.00000  0.000000 0.000000 0.000000  1.1670902 1.0168283 1.0168283
## X6206    0.00000  0.000000 2.419319 2.419319  0.8759227 0.7631486 0.7631486
## X6210    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X6211    0.00000  0.000000 2.969395 2.969395  0.0000000 0.0000000 0.0000000
## X6212    0.00000  0.000000 1.819999 1.819999  0.6589376 0.5741002 0.5741002
## X6217    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X6302    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X6303    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X6304    0.00000  0.000000 7.055790 7.055790  0.0000000 0.0000000 0.0000000
## X6305    0.00000  0.000000 3.069033 3.069033  0.0000000 0.9680933 0.9680933
## X6306    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
## X6307    0.00000  0.000000 6.114286 6.114286  0.0000000 0.0000000 0.0000000
## X6401    0.00000  0.000000 0.000000 0.000000  1.8741945 1.6328933 1.6328933
## X6403    0.00000  0.000000 0.000000 0.000000  1.6136136 1.4058621 1.4058621
## X6404    0.00000  0.000000 0.000000 0.000000  0.0000000 1.7160098 1.7160098
##           X2825     X2826     X2832     X2833     X2835      X2836     X2901
## X102   0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.6328933
## X210   0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.6734212
## X401   0.000000 2.0430009 2.0430009 2.0430009 2.0430009   0.000000 1.6716882
## X403   0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.5148382
## X406   0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X510   0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X602   0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X603   0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X702   0.000000 0.0000000 0.0000000 0.0000000 0.0000000   6.146848 0.4258882
## X703   0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X709   0.000000 0.0000000 0.0000000 0.0000000 0.0000000   7.653404 0.0000000
## X712  36.550000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X713   0.000000 0.0000000 0.0000000 0.0000000 0.0000000   6.476023 0.0000000
## X804   0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X805   0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X808   0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X809   0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.6328933
## X813   0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X901   0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X904   0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 4.4046459
## X1001  0.000000 0.0000000 0.0000000 0.0000000 0.0000000  14.039867 0.0000000
## X1003  0.000000 1.3952830 1.3952830 1.3952830 1.3952830   0.000000 1.1416938
## X1005  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X1102  0.000000 4.1943407 4.1943407 4.1943407 4.1943407   0.000000 1.7160098
## X1108  0.000000 4.1943407 4.1943407 4.1943407 4.1943407   0.000000 1.7160098
## X1202  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X1208  0.000000 4.1943407 4.1943407 4.1943407 4.1943407   0.000000 1.7160098
## X1213  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X1214  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   8.192629 0.0000000
## X1302  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   7.307003 0.0000000
## X1507  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X1514  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X1517  0.000000 2.0430009 2.0430009 2.0430009 2.0430009   0.000000 1.6716882
## X1601  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.6734212
## X1602  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.6511761
## X1704  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.4443452
## X1806  0.000000 1.2343360 1.2343360 1.2343360 1.2343360   0.000000 1.5149986
## X1901  0.000000 1.1838417 1.1838417 1.1838417 1.1838417   0.000000 0.9686822
## X1902  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X1905  0.000000 1.1243013 1.1243013 1.1243013 1.1243013   0.000000 0.9199633
## X2001  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X2002  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
```

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## X2003  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X2004  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X2005  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.6761717
## X2006  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.5574491
## X2007  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.0168283
## X2008  0.000000 1.1838417 1.1838417 1.1838417 1.1838417   6.990506 1.4530233
## X2101  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X2102  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 2.3811659
## X2103  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.6734212
## X2104  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 4.4046459
## X2106  0.000000 2.0686986 2.0686986 2.0686986 2.0686986   0.000000 1.6927153
## X2202  0.000000 2.3549622 2.3549622 2.3549622 2.3549622   0.000000 0.9634751
## X2206  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X2208  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.4058621
## X2209  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X2302  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 4.4046459
## X2309  0.000000 4.1943407 4.1943407 4.1943407 4.1943407   0.000000 1.7160098
## X2402  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.6328933
## X2403  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.6328933
## X2507  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X2508  0.000000 2.0430009 2.0430009 2.0430009 2.0430009   0.000000 1.6716882
## X2512  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X2517  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.5874918
## X2519  0.000000 4.1943407 4.1943407 4.1943407 4.1943407   0.000000 1.7160098
## X2520  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X2522  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X2525  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X2530  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.3230624
## X2602  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X2606  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.6328933
## X2607  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X2608  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X2710  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 4.4046459
## X2713  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X2714  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X2716  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.8058114
## X2804  0.000000 1.7160098 1.7160098 1.7160098 1.7160098   0.000000 2.1061921
## X2811  0.000000 1.7160098 1.7160098 1.7160098 1.7160098   0.000000 2.1061921
## X2825  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X2826  0.000000 0.0000000 4.1943407 4.1943407 4.1943407   0.000000 1.7160098
## X2832  0.000000 4.1943407 0.0000000 4.1943407 4.1943407   0.000000 1.7160098
## X2833  0.000000 4.1943407 4.1943407 0.0000000 4.1943407   0.000000 1.7160098
## X2835  0.000000 4.1943407 4.1943407 4.1943407 0.0000000   0.000000 1.7160098
## X2836  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X2901  0.000000 1.7160098 1.7160098 1.7160098 1.7160098   0.000000 0.0000000
## X2903  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X2907  0.000000 4.1943407 4.1943407 4.1943407 4.1943407   0.000000 1.7160098
## X2915  0.000000 4.1943407 4.1943407 4.1943407 4.1943407   0.000000 1.7160098
## X2933  0.000000 4.1943407 4.1943407 4.1943407 4.1943407   0.000000 1.7160098
## X3105  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X3202  0.000000 4.1943407 4.1943407 4.1943407 4.1943407   0.000000 1.7160098
## X3204  0.000000 1.9934707 1.9934707 1.9934707 1.9934707   0.000000 1.6311602
## X3205  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X3206  0.000000 2.3662503 2.3662503 2.3662503 2.3662503   0.000000 0.9680933
## X3207  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X3208 10.359833 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X3209  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X3210  0.000000 4.1943407 4.1943407 4.1943407 4.1943407   0.000000 1.7160098
## X3211  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X3212  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X3214  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X3215  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X3302  0.000000 2.5627679 2.5627679 2.5627679 2.5627679   0.000000 1.0484935
## X3303  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.6328933
## X3304  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.6328933
## X3305  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.3865799
## X3307  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.6328933
## X3402  0.000000 1.4572094 1.4572094 1.4572094 1.4572094   0.000000 1.1923650
## X3403  0.000000 1.8867224 1.8867224 1.8867224 1.8867224  11.140983 1.5438135
## X3506  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.2030421
## X3507  0.000000 2.5627679 2.5627679 2.5627679 2.5627679   0.000000 1.0484935
## X3605  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 4.4046459
## X3701  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X3707  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X3802  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X3808  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.6328933
## X3809  0.000000 1.6308484 1.6308484 1.6308484 1.6308484   0.000000 1.3344449
## X3810 36.550000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X3811  0.000000 0.0000000 0.0000000 0.0000000 0.0000000 146.250000 0.0000000
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## X3814  0.000000 2.3662503 2.3662503 2.3662503 2.3662503   0.000000 0.9680933
## X3815  0.000000 4.1943407 4.1943407 4.1943407 4.1943407   0.000000 1.7160098
## X3816  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.6328933
## X3819  0.000000 0.0000000 0.0000000 0.0000000 0.0000000 146.250000 0.0000000
## X3820  0.000000 0.0000000 0.0000000 0.0000000 0.0000000 146.250000 0.0000000
## X3823  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 4.4046459
## X3902  0.000000 4.1943407 4.1943407 4.1943407 4.1943407   0.000000 1.7160098
## X3908  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.0168283
## X3909  0.000000 4.1943407 4.1943407 4.1943407 4.1943407   0.000000 1.7160098
## X3910  0.000000 4.1943407 4.1943407 4.1943407 4.1943407   0.000000 1.7160098
## X3911  0.000000 4.1943407 4.1943407 4.1943407 4.1943407   0.000000 1.7160098
## X3915  0.000000 4.1943407 4.1943407 4.1943407 4.1943407   0.000000 1.7160098
## X3916  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X3917  0.000000 1.5201647 1.5201647 1.5201647 1.5201647   0.000000 1.2438781
## X3919  0.000000 2.3662503 2.3662503 2.3662503 2.3662503   0.000000 0.9680933
## X3920  0.000000 1.9386314 1.9386314 1.9386314 1.9386314   0.000000 1.5862880
## X3921  0.000000 2.1592202 2.1592202 2.1592202 2.1592202  12.750068 0.8833922
## X3923  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X3924  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X3925  0.000000 4.1943407 4.1943407 4.1943407 4.1943407   0.000000 1.7160098
## X3926  0.000000 1.4970675 1.4970675 1.4970675 1.4970675   0.000000 1.2249788
## X4001  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X4005  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 4.4046459
## X4006  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 4.4046459
## X4008  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.6328933
## X4009  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 4.4046459
## X4010  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X4012  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 4.4046459
## X4013  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 4.4046459
## X4015  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X4016  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 3.3764917
## X4202  0.000000 2.0179326 2.0179326 2.0179326 2.0179326   0.000000 0.8255880
## X4203  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X4409  0.000000 2.0861918 2.0861918 2.0861918 2.0861918   0.000000 0.8535145
## X4415  0.000000 2.0686986 2.0686986 2.0686986 2.0686986   0.000000 1.6927153
## X4416  0.000000 2.1592202 2.1592202 2.1592202 2.1592202   0.000000 0.8833922
## X4418  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X4420  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X4421  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.2047772
## X4602  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X4804  0.000000 4.1943407 4.1943407 4.1943407 4.1943407   0.000000 1.7160098
## X4808  0.000000 1.9934707 1.9934707 1.9934707 1.9934707   0.000000 0.8155801
## X4818  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X4819  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X4821  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X4822  0.000000 4.1943407 4.1943407 4.1943407 4.1943407   0.000000 1.7160098
## X4823  0.000000 3.1513815 3.1513815 3.1513815 3.1513815   0.000000 1.2893097
## X4901  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.6328933
## X4902  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.6328933
## X4907  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.6328933
## X4911  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.0168283
## X5111  0.000000 3.5858510 3.5858510 3.5858510 3.5858510   0.000000 1.4670618
## X5112  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X5205  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X5206  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X5208  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X5209  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X5210  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X5211  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X5402  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X5407  0.000000 1.4835421 1.4835421 1.4835421 1.4835421   0.000000 1.2139116
## X5408  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X5505  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X5508  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.8499211
## X5509  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X5511  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X5512  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X5513  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X5514  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X5515  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X5516  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X5601  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.6328933
## X5603  0.000000 2.2477256 2.2477256 2.2477256 2.2477256   0.000000 0.9196020
## X5609  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X5806  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X5807  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X5903  0.000000 4.1943407 4.1943407 4.1943407 4.1943407   0.000000 1.7160098
## X5907  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X5911  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
```

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## X6002  0.000000 1.1809994 1.1809994 1.1809994 1.1809994   0.000000 0.9663564
## X6101  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X6103  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X6104  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.9410284
## X6105  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X6106  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.9410284
## X6107  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X6109  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X6110  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X6111  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X6112  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X6114  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X6115  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.8991278
## X6117  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X6201  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X6202  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X6203  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X6204  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X6205  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.0168283
## X6206  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.7631486
## X6210  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X6211  0.000000 0.0000000 0.0000000 0.0000000 0.0000000  13.518943 0.0000000
## X6212  0.000000 1.4032349 1.4032349 1.4032349 1.4032349   8.286012 0.5741002
## X6217  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X6302  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X6303  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X6304  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X6305  0.000000 2.3662503 2.3662503 2.3662503 2.3662503   0.000000 0.9680933
## X6306  0.000000 4.1943407 4.1943407 4.1943407 4.1943407   0.000000 1.7160098
## X6307  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000
## X6401  0.000000 0.0000000 0.0000000 0.0000000 0.0000000   0.000000 1.6328933
## X6403  0.000000 0.0000000 0.0000000 0.0000000 0.0000000  20.290949 1.4058621
## X6404  0.000000 4.1943407 4.1943407 4.1943407 4.1943407   0.000000 1.7160098
##            X2903     X2907     X2915     X2933      X3105     X3202      X3204
## X102   0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.8969151
## X210   0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X401   0.0000000 2.0430009 2.0430009 2.0430009   0.000000 2.0430009  1.9419821
## X403   0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.8798855
## X406   0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X510   0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X602   0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X603   0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X702   0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.4947494
## X703   0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X709   1.1763422 0.0000000 0.0000000 0.0000000   8.503928 0.0000000  0.0000000
## X712   0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X713   0.9953771 0.0000000 0.0000000 0.0000000   7.195704 0.0000000  0.0000000
## X804   0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X805   0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X808   0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X809   0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.8969151
## X813   0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X901   0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X904   0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X1001  2.1579502 0.0000000 0.0000000 0.0000000  15.600119 0.0000000  0.0000000
## X1003  0.0000000 1.3952830 1.3952830 1.3952830   0.000000 1.3952830  1.9894393
## X1005  0.0000000 0.0000000 0.0000000 0.0000000  17.735089 0.0000000  0.0000000
## X1102  0.0000000 4.1943407 4.1943407 4.1943407   0.000000 4.1943407  1.9934707
## X1108  0.0000000 4.1943407 4.1943407 4.1943407   0.000000 4.1943407  1.9934707
## X1202  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X1208  0.0000000 4.1943407 4.1943407 4.1943407   0.000000 4.1943407  1.9934707
## X1213  2.1072037 0.0000000 0.0000000 0.0000000  15.233265 0.0000000  0.0000000
## X1214  1.2592217 0.0000000 0.0000000 0.0000000   9.103076 0.0000000  0.0000000
## X1302  1.1230999 0.0000000 0.0000000 0.0000000   8.119031 0.0000000  0.0000000
## X1507  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X1514  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X1517  0.0000000 2.0430009 2.0430009 2.0430009   0.000000 2.0430009  1.9419821
## X1601  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X1602  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.9590767
## X1704  0.0000000 0.0000000 0.0000000 0.0000000  11.581489 0.0000000  0.8389400
## X1806  0.0000000 1.2343360 1.2343360 1.2343360   8.098663 1.2343360  1.1733045
## X1901  0.0000000 1.1838417 1.1838417 1.1838417   7.767362 1.1838417  1.1253071
## X1902  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X1905  1.0204151 1.1243013 1.1243013 1.1243013   7.376707 1.1243013  1.6030663
## X2001  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2002  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2003  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2004  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2005  0.0000000 0.0000000 0.0000000 0.0000000  10.843768 0.0000000  0.7855013
```

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## X2006  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.8092723
## X2007  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.1812386
## X2008  0.0000000 1.1838417 1.1838417 1.1838417   7.767362 1.1838417  1.1253071
## X2101  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2102  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.3830876
## X2103  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2104  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2106  0.0000000 2.0686986 2.0686986 2.0686986   0.000000 2.0686986  0.9832045
## X2202  0.0000000 2.3549622 2.3549622 2.3549622   0.000000 2.3549622  1.1192587
## X2206  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2208  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.6331752
## X2209  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2302  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2309  0.0000000 4.1943407 4.1943407 4.1943407   0.000000 4.1943407  1.9934707
## X2402  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.8969151
## X2403  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.8969151
## X2507  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2508  0.0000000 2.0430009 2.0430009 2.0430009   0.000000 2.0430009  1.9419821
## X2512  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2517  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.3649653
## X2519  0.0000000 4.1943407 4.1943407 4.1943407   0.000000 4.1943407  1.9934707
## X2520  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2522  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2525  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2530  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.5369877
## X2602  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2606  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.8969151
## X2607  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2608  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2710  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2713  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2714  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2716  1.7876015 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.9361024
## X2804  0.0000000 1.7160098 1.7160098 1.7160098   0.000000 1.7160098  1.6311602
## X2811  0.0000000 1.7160098 1.7160098 1.7160098   0.000000 1.7160098  1.6311602
## X2825  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2826  0.0000000 4.1943407 4.1943407 4.1943407   0.000000 4.1943407  1.9934707
## X2832  0.0000000 4.1943407 4.1943407 4.1943407   0.000000 4.1943407  1.9934707
## X2833  0.0000000 4.1943407 4.1943407 4.1943407   0.000000 4.1943407  1.9934707
## X2835  0.0000000 4.1943407 4.1943407 4.1943407   0.000000 4.1943407  1.9934707
## X2836  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2901  0.0000000 1.7160098 1.7160098 1.7160098   0.000000 1.7160098  1.6311602
## X2903  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X2907  0.0000000 0.0000000 4.1943407 4.1943407   0.000000 4.1943407  1.9934707
## X2915  0.0000000 4.1943407 0.0000000 4.1943407   0.000000 4.1943407  1.9934707
## X2933  0.0000000 4.1943407 4.1943407 0.0000000   0.000000 4.1943407  1.9934707
## X3105  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3202  0.0000000 4.1943407 4.1943407 4.1943407   0.000000 0.0000000  1.9934707
## X3204  0.0000000 1.9934707 1.9934707 1.9934707   0.000000 1.9934707  0.0000000
## X3205  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3206  2.1476067 2.3662503 2.3662503 2.3662503   0.000000 2.3662503  1.1246237
## X3207  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3208  3.1851882 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3209  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3210  0.0000000 4.1943407 4.1943407 4.1943407   0.000000 4.1943407  1.9934707
## X3211  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3212  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000 39.2424390
## X3214  6.9100592 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3215  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3302  0.0000000 2.5627679 2.5627679 2.5627679   0.000000 2.5627679  1.2180237
## X3303  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.8969151
## X3304  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.8969151
## X3305  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.6107754
## X3307  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.8969151
## X3402  0.0000000 1.4572094 1.4572094 1.4572094   0.000000 1.4572094  1.3851571
## X3403  0.0000000 1.8867224 1.8867224 1.8867224   0.000000 1.8867224  1.7934314
## X3506  1.3344052 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.6987803
## X3507  0.0000000 2.5627679 2.5627679 2.5627679   0.000000 2.5627679  1.2180237
## X3605  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3701  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3707  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3802 11.5257327 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3808  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.8969151
## X3809  0.0000000 1.6308484 1.6308484 1.6308484   0.000000 1.6308484  1.5502099
## X3810  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3811  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3814  2.1476067 2.3662503 2.3662503 2.3662503   0.000000 2.3662503  1.1246237
## X3815  0.0000000 4.1943407 4.1943407 4.1943407   0.000000 4.1943407  1.9934707
## X3816  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.8969151
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## X3819  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3820  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3823  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3902  0.0000000 4.1943407 4.1943407 4.1943407   0.000000 4.1943407  1.9934707
## X3908  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.1812386
## X3909  0.0000000 4.1943407 4.1943407 4.1943407   0.000000 4.1943407  1.9934707
## X3910  0.0000000 4.1943407 4.1943407 4.1943407   0.000000 4.1943407  1.9934707
## X3911  0.0000000 4.1943407 4.1943407 4.1943407   0.000000 4.1943407  1.9934707
## X3915  0.0000000 4.1943407 4.1943407 4.1943407   0.000000 4.1943407  1.9934707
## X3916  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3917  0.0000000 1.5201647 1.5201647 1.5201647   0.000000 1.5201647  1.4449994
## X3919  2.1476067 2.3662503 2.3662503 2.3662503   0.000000 2.3662503  1.1246237
## X3920  1.7595002 1.9386314 1.9386314 1.9386314   0.000000 1.9386314  0.9213868
## X3921  1.9597063 2.1592202 2.1592202 2.1592202   0.000000 2.1592202  1.0262273
## X3923  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3924  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X3925  0.0000000 4.1943407 4.1943407 4.1943407   0.000000 4.1943407  1.9934707
## X3926  1.3587373 1.4970675 1.4970675 1.4970675   0.000000 1.4970675  1.4230443
## X4001  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4005  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4006  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4008  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.8969151
## X4009  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4010  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4012  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4013  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4015  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4016  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4202  1.8314739 2.0179326 2.0179326 2.0179326   0.000000 2.0179326  0.9590767
## X4203  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4409  0.0000000 2.0861918 2.0861918 2.0861918   0.000000 2.0861918  0.9915186
## X4415  0.0000000 2.0686986 2.0686986 2.0686986   0.000000 2.0686986  0.9832045
## X4416  0.0000000 2.1592202 2.1592202 2.1592202   0.000000 2.1592202  1.0262273
## X4418  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4420  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4421  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.3995769
## X4602  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4804  0.0000000 4.1943407 4.1943407 4.1943407   0.000000 4.1943407  1.9934707
## X4808  3.6185447 1.9934707 1.9934707 1.9934707   0.000000 1.9934707  0.9474506
## X4818  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4819  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4821  2.7049117 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X4822  0.0000000 4.1943407 4.1943407 4.1943407   0.000000 4.1943407  1.9934707
## X4823  2.8601909 3.1513815 3.1513815 3.1513815   0.000000 3.1513815  1.4977775
## X4901  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.8969151
## X4902  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.8969151
## X4907  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.8969151
## X4911  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.1812386
## X5111  0.0000000 3.5858510 3.5858510 3.5858510   0.000000 3.5858510  1.7042703
## X5112  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5205  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5206  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5208  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5209  2.7049117 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5210  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5211  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5402  6.9100592 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5407  1.3464616 1.4835421 1.4835421 1.4835421   0.000000 1.4835421  1.4101877
## X5408  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5505  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5508  1.8854541 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.9873441
## X5509  3.0759747 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5511  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5512  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5513  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5514  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5515  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5516  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5601  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.8969151
## X5603  0.0000000 2.2477256 2.2477256 2.2477256   0.000000 2.2477256  1.0682917
## X5609  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5806  2.7049117 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5807  2.7049117 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5903  0.0000000 4.1943407 4.1943407 4.1943407   0.000000 4.1943407  1.9934707
## X5907  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X5911  2.4667789 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6002  1.0718742 1.1809994 1.1809994 1.1809994   0.000000 1.1809994  1.1226053
## X6101  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6103  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
```

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## X6104  2.0875660 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.0931826
## X6105  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6106  2.0875660 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.0931826
## X6107  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6109  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6110  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6111  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6112  3.2782987 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6114  2.4399242 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6115  1.9946141 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.0445071
## X6117  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6201  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6202  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6203  2.6257082 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6204  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6205  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.1812386
## X6206  1.6929585 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.8865414
## X6210  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6211  2.0778835 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6212  1.2735749 1.4032349 1.4032349 1.4032349   9.206837 1.4032349  0.6669258
## X6217  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6302  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6303  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6304  4.9374044 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6305  2.1476067 2.3662503 2.3662503 2.3662503   0.000000 2.3662503  1.1246237
## X6306  0.0000000 4.1943407 4.1943407 4.1943407   0.000000 4.1943407  1.9934707
## X6307  4.2785712 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  0.0000000
## X6401  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.8969151
## X6403  0.0000000 0.0000000 0.0000000 0.0000000   0.000000 0.0000000  1.6331752
## X6404  0.0000000 4.1943407 4.1943407 4.1943407   0.000000 4.1943407  1.9934707
##          X3205     X3206     X3207      X3208    X3209     X3210    X3211
## X102  0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X210  0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X401  0.000000 1.1525662  0.000000  0.0000000 0.000000 2.0430009 0.000000
## X403  0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X406  0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X510  0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X602  0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X603  0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X702  0.000000 0.0000000 12.294742  0.8709942 0.000000 0.0000000 0.000000
## X703  0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X709  0.000000 0.0000000 15.308113  1.0844689 0.000000 0.0000000 0.000000
## X712  0.000000 0.0000000  0.000000 10.3598327 0.000000 0.0000000 0.000000
## X713  0.000000 0.0000000 12.953149  0.9176374 0.000000 0.0000000 0.000000
## X804  0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X805  0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X808  0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X809  0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X813  0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X901  0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X904  0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X1001 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X1003 0.000000 0.7871545  0.000000  0.0000000 0.000000 1.3952830 0.000000
## X1005 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X1102 0.000000 2.3662503  0.000000  0.0000000 0.000000 4.1943407 0.000000
## X1108 0.000000 2.3662503  0.000000  0.0000000 0.000000 4.1943407 0.000000
## X1202 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X1208 0.000000 2.3662503  0.000000  0.0000000 0.000000 4.1943407 0.000000
## X1213 0.000000 0.0000000 27.421748  1.9426290 0.000000 0.0000000 0.000000
## X1214 0.000000 0.0000000 16.386654  1.1608754 0.000000 0.0000000 0.000000
## X1302 0.000000 0.0000000 14.615251  1.0353848 0.000000 0.0000000 0.000000
## X1507 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X1514 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X1517 0.000000 1.1525662  0.000000  0.0000000 0.000000 2.0430009 0.000000
## X1601 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X1602 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X1704 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X1806 0.000000 0.6963558  0.000000  0.0000000 0.000000 1.2343360 0.000000
## X1901 0.000000 0.6678693  0.000000  0.0000000 0.000000 1.1838417 0.000000
## X1902 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X1905 1.458221 1.2685589  0.000000  0.9407199 1.458221 1.1243013 1.458221
## X2001 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2002 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2003 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2004 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2005 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2006 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2007 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2008 0.000000 0.6678693  0.000000  0.0000000 0.000000 1.1838417 0.000000
```

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## X2101 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2102 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2103 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2104 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2106 0.000000 1.1670636  0.000000  0.0000000 0.000000 2.0686986 0.000000
## X2202 0.000000 1.3285600  0.000000  0.0000000 0.000000 2.3549622 0.000000
## X2206 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2208 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2209 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2302 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2309 0.000000 2.3662503  0.000000  0.0000000 0.000000 4.1943407 0.000000
## X2402 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2403 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2507 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2508 0.000000 1.1525662  0.000000  0.0000000 0.000000 2.0430009 0.000000
## X2512 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2517 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2519 0.000000 2.3662503  0.000000  0.0000000 0.000000 4.1943407 0.000000
## X2520 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2522 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2525 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2530 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2602 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2606 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2607 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2608 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2710 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2713 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X2714 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X2716 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2804 0.000000 0.9680933  0.000000  0.0000000 0.000000 1.7160098 0.000000
## X2811 0.000000 0.9680933  0.000000  0.0000000 0.000000 1.7160098 0.000000
## X2825 0.000000 0.0000000  0.000000 10.3598327 0.000000 0.0000000 0.000000
## X2826 0.000000 2.3662503  0.000000  0.0000000 0.000000 4.1943407 0.000000
## X2832 0.000000 2.3662503  0.000000  0.0000000 0.000000 4.1943407 0.000000
## X2833 0.000000 2.3662503  0.000000  0.0000000 0.000000 4.1943407 0.000000
## X2835 0.000000 2.3662503  0.000000  0.0000000 0.000000 4.1943407 0.000000
## X2836 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X2901 0.000000 0.9680933  0.000000  0.0000000 0.000000 1.7160098 0.000000
## X2903 4.937404 2.1476067  0.000000  3.1851882 4.937404 0.0000000 4.937404
## X2907 0.000000 2.3662503  0.000000  0.0000000 0.000000 4.1943407 0.000000
## X2915 0.000000 2.3662503  0.000000  0.0000000 0.000000 4.1943407 0.000000
## X2933 0.000000 2.3662503  0.000000  0.0000000 0.000000 4.1943407 0.000000
## X3105 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X3202 0.000000 2.3662503  0.000000  0.0000000 0.000000 4.1943407 0.000000
## X3204 0.000000 1.1246237  0.000000  0.0000000 0.000000 1.9934707 0.000000
## X3205 0.000000 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X3206 3.069033 0.0000000  0.000000  1.9798765 3.069033 2.3662503 3.069033
## X3207 0.000000 0.0000000  0.000000 41.4499479 0.000000 0.0000000 0.000000
## X3208 4.551788 1.9798765 41.449948  0.0000000 4.551788 0.0000000 4.551788
## X3209 7.055790 3.0690331  0.000000  4.5517878 0.000000 0.0000000 7.055790
## X3210 0.000000 2.3662503  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X3211 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 0.000000
## X3212 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X3214 4.937404 2.1476067  0.000000  3.1851882 4.937404 0.0000000 4.937404
## X3215 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X3302 0.000000 1.4457942  0.000000  0.0000000 0.000000 2.5627679 0.000000
## X3303 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X3304 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X3305 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X3307 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X3402 0.000000 0.8220904  0.000000  0.0000000 0.000000 1.4572094 0.000000
## X3403 0.000000 1.0644013  0.000000  0.0000000 0.000000 1.8867224 0.000000
## X3506 1.906928 0.8294519  0.000000  1.2301869 1.906928 0.0000000 1.906928
## X3507 0.000000 1.4457942  0.000000  0.0000000 0.000000 2.5627679 0.000000
## X3605 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X3701 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X3707 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X3802 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X3808 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X3809 0.000000 0.9200493  0.000000  0.0000000 0.000000 1.6308484 0.000000
## X3810 0.000000 0.0000000  0.000000 10.3598327 0.000000 0.0000000 0.000000
## X3811 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X3814 3.069033 2.6698565  0.000000  1.9798765 3.069033 2.3662503 3.069033
## X3815 0.000000 2.3662503  0.000000  0.0000000 0.000000 4.1943407 0.000000
## X3816 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X3819 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X3820 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X3823 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
```

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## X3902 0.000000 2.3662503  0.000000  0.0000000 0.000000 4.1943407 0.000000
## X3908 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X3909 0.000000 2.3662503  0.000000  0.0000000 0.000000 4.1943407 0.000000
## X3910 0.000000 2.3662503  0.000000  0.0000000 0.000000 4.1943407 0.000000
## X3911 0.000000 2.3662503  0.000000  0.0000000 0.000000 4.1943407 0.000000
## X3915 0.000000 2.3662503  0.000000  0.0000000 0.000000 4.1943407 0.000000
## X3916 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X3917 0.000000 0.8576068  0.000000  0.0000000 0.000000 1.5201647 0.000000
## X3919 3.069033 2.6698565  0.000000  1.9798765 3.069033 2.3662503 3.069033
## X3920 2.514410 2.1873718  0.000000  1.6220816 2.514410 1.9386314 2.514410
## X3921 2.800514 2.4362633  0.000000  1.8066514 2.800514 2.1592202 2.800514
## X3923 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X3924 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X3925 0.000000 2.3662503  0.000000  0.0000000 0.000000 4.1943407 0.000000
## X3926 0.000000 0.8445764  0.000000  0.0000000 0.000000 1.4970675 0.000000
## X4001 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X4005 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X4006 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X4008 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X4009 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X4010 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X4012 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X4013 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X4015 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X4016 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X4202 2.617264 2.2768477  0.000000  1.6884340 2.617264 2.0179326 2.617264
## X4203 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X4409 0.000000 1.1769325  0.000000  0.0000000 0.000000 2.0861918 0.000000
## X4415 0.000000 1.1670636  0.000000  0.0000000 0.000000 2.0686986 0.000000
## X4416 0.000000 1.2181316  0.000000  0.0000000 0.000000 2.1592202 0.000000
## X4418 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X4420 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X4421 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X4602 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X4804 0.000000 2.3662503  0.000000  0.0000000 0.000000 4.1943407 0.000000
## X4808 2.585537 2.2492473  0.000000  1.6679665 2.585537 1.9934707 2.585537
## X4818 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X4819 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X4821 3.865449 1.6813424  0.000000  2.4936554 3.865449 0.0000000 3.865449
## X4822 0.000000 2.3662503  0.000000  0.0000000 0.000000 4.1943407 0.000000
## X4823 0.000000 1.7778621  0.000000  0.0000000 0.000000 3.1513815 0.000000
## X4901 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X4902 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X4907 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X4911 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X5111 0.000000 2.0229692  0.000000  0.0000000 0.000000 3.5858510 0.000000
## X5112 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X5205 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X5206 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X5208 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X5209 3.865449 1.6813424  0.000000  2.4936554 3.865449 0.0000000 3.865449
## X5210 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X5211 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X5402 4.937404 2.1476067  0.000000  3.1851882 4.937404 0.0000000 4.937404
## X5407 1.924158 1.6738921  0.000000  1.2413018 1.924158 1.4835421 1.924158
## X5408 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X5505 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X5508 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X5509 4.395716 1.9119907  0.000000  2.8357379 4.395716 0.0000000 4.395716
## X5511 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X5512 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X5513 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X5514 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X5515 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X5516 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X5601 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X5603 0.000000 1.2680622  0.000000  0.0000000 0.000000 2.2477256 0.000000
## X5609 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X5806 3.865449 1.6813424  0.000000  2.4936554 3.865449 0.0000000 3.865449
## X5807 3.865449 1.6813424  0.000000  2.4936554 3.865449 0.0000000 3.865449
## X5903 0.000000 2.3662503  0.000000  0.0000000 0.000000 4.1943407 0.000000
## X5907 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X5911 3.525146 1.5333219  0.000000  2.2741210 3.525146 0.0000000 3.525146
## X6002 1.531759 1.3325316  0.000000  0.9881599 1.531759 1.1809994 1.531759
## X6101 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X6103 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X6104 2.983232 1.2976077  0.000000  1.9245250 2.983232 0.0000000 2.983232
## X6105 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X6106 2.983232 1.2976077  0.000000  1.9245250 2.983232 0.0000000 2.983232
```

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## X6107 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X6109 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X6110 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X6111 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X6112 4.684847 2.0377529  0.000000  3.0222602 4.684847 0.0000000 4.684847
## X6114 3.486769 1.5166293  0.000000  2.2493637 3.486769 0.0000000 3.486769
## X6115 2.850399 1.2398299  0.000000  1.8388328 2.850399 0.0000000 2.850399
## X6117 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X6201 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X6202 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X6203 3.752264 1.6321104  0.000000  2.4206377 3.752264 0.0000000 3.752264
## X6204 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X6205 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X6206 2.419319 1.0523244  0.000000  1.5607369 2.419319 0.0000000 2.419319
## X6210 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X6211 2.969395 1.2915891  0.000000  1.9155988 2.969395 0.0000000 2.969395
## X6212 1.819999 1.5832811  0.000000  1.1741076 1.819999 1.4032349 1.819999
## X6217 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X6302 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X6303 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X6304 7.055790 3.0690331  0.000000  4.5517878 7.055790 0.0000000 7.055790
## X6305 3.069033 2.6698565  0.000000  1.9798765 3.069033 2.3662503 3.069033
## X6306 0.000000 2.3662503  0.000000  0.0000000 0.000000 4.1943407 0.000000
## X6307 6.114286 2.6595103  0.000000  3.9444103 6.114286 0.0000000 6.114286
## X6401 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X6403 0.000000 0.0000000  0.000000  0.0000000 0.000000 0.0000000 0.000000
## X6404 0.000000 2.3662503  0.000000  0.0000000 0.000000 4.1943407 0.000000
##            X3212      X3214    X3215     X3302     X3303     X3304      X3305
## X102    0.00000  0.0000000 0.000000 0.0000000 3.7978668 3.7978668  3.2249778
## X210    0.00000  0.0000000 0.000000 2.4991640 0.0000000 0.0000000  0.0000000
## X401    0.00000  0.0000000 0.000000 1.2482869 1.9440463 1.9440463  1.6507970
## X403    0.00000  0.0000000 0.000000 1.1311633 1.7616411 1.7616411  2.9918135
## X406    0.00000  0.0000000 0.000000 3.3986699 0.0000000 0.0000000  0.0000000
## X510    0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X602    0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X603    0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X702    0.00000  0.0000000 0.000000 0.6360394 0.9905484 0.9905484  0.8411297
## X703    0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X709    0.00000  1.1763422 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X712    0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X713    0.00000  0.9953771 0.000000 0.0000000 0.0000000 0.0000000  0.8861736
## X804    0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X805    0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  3.4181300
## X808    0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X809    0.00000  0.0000000 0.000000 0.0000000 3.7978668 3.7978668  3.2249778
## X813    0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X901    0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  3.9212995
## X904    0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X1001   0.00000  2.1579502 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X1003  27.46680  0.0000000 0.000000 0.8525276 1.3277012 1.3277012  1.1274246
## X1005   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X1102   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
## X1108   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
## X1202   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000 11.7707386
## X1208   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
## X1213   0.00000  2.1072037 0.000000 0.0000000 0.0000000 0.0000000  1.8760203
## X1214   0.00000  1.2592217 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X1302   0.00000  1.1230999 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X1507   0.00000  0.0000000 0.000000 4.0335710 0.0000000 0.0000000  0.0000000
## X1514   0.00000  0.0000000 0.000000 4.0335710 0.0000000 0.0000000  0.0000000
## X1517   0.00000  0.0000000 0.000000 1.2482869 1.9440463 1.9440463  1.6507970
## X1601   0.00000  0.0000000 0.000000 2.4991640 0.0000000 0.0000000  0.0000000
## X1602   0.00000  0.0000000 0.000000 1.2329700 1.9201921 1.9201921  1.6305412
## X1704   0.00000  0.0000000 0.000000 0.0000000 1.6796629 1.6796629  2.8525892
## X1806   0.00000  0.0000000 0.000000 0.7541880 1.1745499 1.1745499  1.9947508
## X1901   0.00000  0.0000000 0.000000 1.4466715 1.1265013 1.1265013  1.9131495
## X1902   0.00000  0.0000000 0.000000 4.0335710 0.0000000 0.0000000  0.0000000
## X1905  22.13238  1.0204151 1.458221 0.6869562 1.0698448 1.0698448  1.8169292
## X2001   0.00000  0.0000000 0.000000 4.0335710 0.0000000 0.0000000  0.0000000
## X2002   0.00000  0.0000000 0.000000 4.0335710 0.0000000 0.0000000  0.0000000
## X2003   0.00000  0.0000000 0.000000 4.0335710 0.0000000 0.0000000  0.0000000
## X2004   0.00000  0.0000000 0.000000 4.0335710 0.0000000 0.0000000  0.0000000
## X2005   0.00000  0.0000000 0.000000 1.0098247 1.5726715 1.5726715  2.6708847
## X2006   0.00000  0.0000000 0.000000 0.0000000 3.6223945 3.6223945  3.0759747
## X2007   0.00000  0.0000000 0.000000 1.5185773 2.3649893 2.3649893  2.0082429
## X2008   0.00000  0.0000000 0.000000 0.7233358 1.1265013 1.1265013  1.9131495
## X2101   0.00000  0.0000000 0.000000 4.0335710 0.0000000 0.0000000  0.0000000
## X2102   0.00000  0.0000000 0.000000 0.0000000 2.7691172 2.7691172  2.3514101
## X2103   0.00000  0.0000000 0.000000 2.4991640 0.0000000 0.0000000  0.0000000
```

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## X2104   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2106   0.00000  0.0000000 0.000000 2.5279767 0.0000000 0.0000000  0.0000000
## X2202   0.00000  0.0000000 0.000000 2.8777942 0.0000000 0.0000000  0.0000000
## X2206   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2208   0.00000  0.0000000 0.000000 0.0000000 3.2698252 3.2698252  2.7765887
## X2209   0.00000  0.0000000 0.000000 4.0335710 0.0000000 0.0000000  0.0000000
## X2302   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2309   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
## X2402   0.00000  0.0000000 0.000000 0.0000000 3.7978668 3.7978668  3.2249778
## X2403   0.00000  0.0000000 0.000000 0.0000000 3.7978668 3.7978668  3.2249778
## X2507   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2508   0.00000  0.0000000 0.000000 1.2482869 1.9440463 1.9440463  1.6507970
## X2512   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2517  28.26769  0.0000000 0.000000 0.0000000 1.3664149 1.3664149  1.1602985
## X2519   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
## X2520   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2522   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2525   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2530   0.00000  0.0000000 0.000000 0.0000000 3.0772452 3.0772452  2.6130585
## X2602   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2606   0.00000  0.0000000 0.000000 0.0000000 3.7978668 3.7978668  3.2249778
## X2607   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2608   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2710   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2713   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X2714   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X2716   0.00000  1.7876015 0.000000 0.0000000 1.8741945 1.8741945  3.1829642
## X2804   0.00000  0.0000000 0.000000 1.0484935 1.6328933 1.6328933  1.3865799
## X2811   0.00000  0.0000000 0.000000 1.0484935 1.6328933 1.6328933  1.3865799
## X2825   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2826   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
## X2832   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
## X2833   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
## X2835   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
## X2836   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2901   0.00000  0.0000000 0.000000 1.0484935 1.6328933 1.6328933  1.3865799
## X2903   0.00000  6.9100592 4.937404 0.0000000 0.0000000 0.0000000  0.0000000
## X2907   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
## X2915   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
## X2933   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
## X3105   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3202   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
## X3204  39.24244  0.0000000 0.000000 1.2180237 1.8969151 1.8969151  1.6107754
## X3205   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X3206   0.00000  2.1476067 3.069033 1.4457942 0.0000000 0.0000000  0.0000000
## X3207   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3208   0.00000  3.1851882 4.551788 0.0000000 0.0000000 0.0000000  0.0000000
## X3209   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X3210   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
## X3211   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X3212   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3214   0.00000  0.0000000 4.937404 0.0000000 0.0000000 0.0000000  0.0000000
## X3215   0.00000  4.9374044 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3302   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3303   0.00000  0.0000000 0.000000 0.0000000 0.0000000 3.7978668  3.2249778
## X3304   0.00000  0.0000000 0.000000 0.0000000 3.7978668 0.0000000  3.2249778
## X3305   0.00000  0.0000000 0.000000 0.0000000 3.2249778 3.2249778  0.0000000
## X3307   0.00000  0.0000000 0.000000 0.0000000 3.7978668 3.7978668  3.2249778
## X3402   0.00000  0.0000000 0.000000 1.7807299 1.3866282 1.3866282  2.3549255
## X3403   0.00000  0.0000000 0.000000 1.1527999 1.7953373 1.7953373  1.5245201
## X3506   0.00000  1.3344052 1.906928 0.8983378 1.3990449 1.3990449  1.1880065
## X3507   0.00000  0.0000000 0.000000 3.1317351 0.0000000 0.0000000  0.0000000
## X3605   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3701   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X3707   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X3802   0.00000 11.5257327 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3808   0.00000  0.0000000 0.000000 0.0000000 3.7978668 3.7978668  3.2249778
## X3809   0.00000  0.0000000 0.000000 0.9964594 1.5518568 1.5518568  2.6355348
## X3810   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3811   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3814   0.00000  2.1476067 3.069033 1.4457942 0.0000000 0.0000000  0.0000000
## X3815   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
## X3816   0.00000  0.0000000 0.000000 0.0000000 3.7978668 3.7978668  3.2249778
## X3819   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3820   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3823   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3902   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
## X3908   0.00000  0.0000000 0.000000 1.5185773 2.3649893 2.3649893  2.0082429
## X3909   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
```

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## X3910   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
## X3911   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
## X3915   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
## X3916   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X3917   0.00000  0.0000000 0.000000 0.9288310 1.4465342 1.4465342  1.2283322
## X3919   0.00000  2.1476067 3.069033 1.4457942 0.0000000 0.0000000  0.0000000
## X3920   0.00000  1.7595002 2.514410 1.1845166 0.0000000 0.0000000  0.0000000
## X3921   0.00000  1.9597063 2.800514 1.3192976 0.0000000 0.0000000  0.0000000
## X3923   0.00000  0.0000000 0.000000 2.0850809 0.0000000 0.0000000  0.0000000
## X3924   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3925   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
## X3926   0.00000  1.3587373 0.000000 0.9147185 1.4245557 1.4245557  1.2096690
## X4001   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X4005   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X4006   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X4008   0.00000  0.0000000 0.000000 0.0000000 3.7978668 3.7978668  3.2249778
## X4009   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X4010   0.00000  0.0000000 0.000000 1.7992690 0.0000000 0.0000000  0.0000000
## X4012   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X4013   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X4015   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X4016   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X4202   0.00000  1.8314739 2.617264 1.2329700 0.0000000 0.0000000  0.0000000
## X4203   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X4409   0.00000  0.0000000 0.000000 2.5493536 0.0000000 0.0000000  0.0000000
## X4415   0.00000  0.0000000 0.000000 2.5279767 0.0000000 0.0000000  0.0000000
## X4416   0.00000  0.0000000 0.000000 1.3192976 0.0000000 0.0000000  0.0000000
## X4418   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X4420   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X4421   0.00000  0.0000000 0.000000 0.0000000 2.8021309 2.8021309  2.3794438
## X4602   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X4804   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
## X4808   0.00000  3.6185447 2.585537 1.2180237 0.0000000 0.0000000  0.0000000
## X4818   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X4819   0.00000  0.0000000 0.000000 4.0335710 0.0000000 0.0000000  0.0000000
## X4821   0.00000  2.7049117 3.865449 1.8209781 0.0000000 0.0000000  0.0000000
## X4822   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
## X4823   0.00000  2.8601909 0.000000 1.9255138 0.0000000 0.0000000  0.0000000
## X4901   0.00000  0.0000000 0.000000 0.0000000 3.7978668 3.7978668  3.2249778
## X4902   0.00000  0.0000000 0.000000 0.0000000 3.7978668 3.7978668  3.2249778
## X4907   0.00000  0.0000000 0.000000 0.0000000 3.7978668 3.7978668  3.2249778
## X4911   0.00000  0.0000000 0.000000 1.5185773 2.3649893 2.3649893  2.0082429
## X5111   0.00000  0.0000000 0.000000 2.1909772 0.0000000 0.0000000  0.0000000
## X5112   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X5205   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X5206   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X5208   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X5209   0.00000  2.7049117 3.865449 1.8209781 0.0000000 0.0000000  0.0000000
## X5210   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X5211   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X5402   0.00000  6.9100592 4.937404 0.0000000 0.0000000 0.0000000  0.0000000
## X5407   0.00000  1.3464616 1.924158 0.9064544 1.4116854 1.4116854  1.1987402
## X5408   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X5505   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X5508   0.00000  1.8854541 0.000000 1.2693101 1.9767872 1.9767872  1.6785992
## X5509   0.00000  3.0759747 4.395716 0.0000000 0.0000000 0.0000000  0.0000000
## X5511   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X5512   0.00000  0.0000000 0.000000 2.3259658 0.0000000 0.0000000  0.0000000
## X5513   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X5514   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X5515   0.00000  0.0000000 0.000000 3.1838538 0.0000000 0.0000000  0.0000000
## X5516   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X5601   0.00000  0.0000000 0.000000 0.0000000 3.7978668 3.7978668  3.2249778
## X5603   0.00000  0.0000000 0.000000 2.7467497 0.0000000 0.0000000  0.0000000
## X5609   0.00000  0.0000000 0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X5806   0.00000  2.7049117 3.865449 1.8209781 0.0000000 0.0000000  0.0000000
## X5807   0.00000  2.7049117 3.865449 1.8209781 0.0000000 0.0000000  0.0000000
## X5903   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
## X5907   0.00000  0.0000000 0.000000 4.0335710 0.0000000 0.0000000  0.0000000
## X5911   0.00000  2.4667789 3.525146 0.0000000 0.0000000 0.0000000  0.0000000
## X6002   0.00000  1.0718742 1.531759 1.4431981 1.1237967 1.1237967  0.9542781
## X6101   0.00000  0.0000000 0.000000 4.0335710 0.0000000 0.0000000  0.0000000
## X6103   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X6104   0.00000  2.0875660 2.983232 0.0000000 2.1886896 2.1886896  1.8585371
## X6105   0.00000  0.0000000 0.000000 4.0335710 0.0000000 0.0000000  0.0000000
## X6106   0.00000  2.0875660 2.983232 0.0000000 2.1886896 2.1886896  1.8585371
## X6107   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X6109   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X6110   0.00000  0.0000000 0.000000 2.5412103 0.0000000 0.0000000  0.0000000
```

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## X6111   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X6112   0.00000  3.2782987 4.684847 0.0000000 0.0000000 0.0000000  0.0000000
## X6114   0.00000  2.4399242 3.486769 0.0000000 0.0000000 0.0000000  0.0000000
## X6115   0.00000  1.9946141 2.850399 0.0000000 2.0912350 2.0912350  1.7757831
## X6117   0.00000  0.0000000 0.000000 4.0335710 0.0000000 0.0000000  0.0000000
## X6201   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X6202   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X6203   0.00000  2.6257082 3.752264 1.7676574 0.0000000 0.0000000  0.0000000
## X6204   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X6205   0.00000  0.0000000 0.000000 1.5185773 2.3649893 2.3649893  2.0082429
## X6206   0.00000  1.6929585 2.419319 0.0000000 1.7749670 1.7749670  1.5072225
## X6210   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X6211   0.00000  2.0778835 2.969395 1.3988557 0.0000000 0.0000000  0.0000000
## X6212   0.00000  1.2735749 1.819999 1.7147725 0.0000000 0.0000000  0.0000000
## X6217   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X6302   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X6303   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X6304   0.00000  4.9374044 7.055790 0.0000000 0.0000000 0.0000000  0.0000000
## X6305   0.00000  2.1476067 3.069033 1.4457942 0.0000000 0.0000000  0.0000000
## X6306   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
## X6307   0.00000  4.2785712 6.114286 0.0000000 0.0000000 0.0000000  0.0000000
## X6401   0.00000  0.0000000 0.000000 0.0000000 3.7978668 3.7978668  3.2249778
## X6403   0.00000  0.0000000 0.000000 0.0000000 3.2698252 3.2698252  2.7765887
## X6404   0.00000  0.0000000 0.000000 2.5627679 0.0000000 0.0000000  0.0000000
##           X3307     X3402      X3403     X3506     X3507     X3605    X3701
## X102  3.7978668 1.3866282  1.7953373 1.3990449 0.0000000  0.000000 0.000000
## X210  0.0000000 1.4210438  0.0000000 2.8675375 2.4991640 10.498828 0.000000
## X401  1.9440463 1.4195729  1.8379912 0.7161423 1.2482869  0.000000 0.000000
## X403  1.7616411 1.9295674  0.8327687 1.9468459 1.1311633  4.751937 0.000000
## X406  0.0000000 1.9325091  0.0000000 1.9498140 3.3986699  0.000000 0.000000
## X510  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X602  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X603  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X702  0.9905484 0.7233166  0.9365125 0.7297935 0.6360394  0.000000 0.000000
## X703  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X709  0.0000000 0.0000000  0.5830222 0.0000000 0.0000000  0.000000 0.000000
## X712  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X713  0.0000000 0.3810255  0.4933320 0.0000000 0.0000000  0.000000 0.000000
## X804  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X805  0.0000000 1.4696767  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X808  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X809  3.7978668 1.3866282  1.7953373 1.3990449 0.0000000  0.000000 0.000000
## X813  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X901  0.0000000 1.6860217  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X904  0.0000000 0.0000000  0.0000000 3.7738509 0.0000000 27.634216 0.000000
## X1001 0.0000000 0.0000000  1.0695278 0.0000000 0.0000000  0.000000 0.000000
## X1003 1.3277012 0.9695098  1.2552716 0.4890957 0.8525276  0.000000 0.000000
## X1005 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X1102 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
## X1108 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
## X1202 0.0000000 5.0610013  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X1208 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
## X1213 0.0000000 0.8066245  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X1214 0.0000000 0.0000000  0.6240990 0.0000000 0.0000000  0.000000 0.000000
## X1302 0.0000000 0.0000000  0.5566341 0.0000000 0.0000000  0.000000 0.000000
## X1507 0.0000000 2.2935182  0.0000000 2.3140559 4.0335710  0.000000 0.000000
## X1514 0.0000000 2.2935182  0.0000000 2.3140559 4.0335710  0.000000 0.000000
## X1517 1.9440463 1.4195729  1.8379912 0.7161423 1.2482869  0.000000 0.000000
## X1601 0.0000000 1.4210438  0.0000000 2.8675375 2.4991640 10.498828 0.000000
## X1602 1.9201921 1.4021543  0.9077193 2.1220650 1.2329700  5.179621 0.000000
## X1704 1.6796629 1.2265168  0.7940158 1.2374997 0.0000000  4.530805 0.000000
## X1806 1.1745499 1.2865151  1.1104755 0.8653569 0.7541880  3.168286 0.000000
## X1901 1.1265013 1.6451822  1.0650484 0.8299571 1.4466715  0.000000 0.000000
## X1902 0.0000000 2.2935182  0.0000000 2.3140559 4.0335710  0.000000 0.000000
## X1905 1.0698448 1.1718297  1.0114828 0.7882153 0.6869562  0.000000 1.458221
## X2001 0.0000000 2.2935182  0.0000000 2.3140559 4.0335710  0.000000 0.000000
## X2002 0.0000000 2.2935182  0.0000000 2.3140559 4.0335710  0.000000 0.000000
## X2003 0.0000000 2.2935182  0.0000000 2.3140559 4.0335710  0.000000 0.000000
## X2004 0.0000000 2.2935182  0.0000000 2.3140559 4.0335710  0.000000 0.000000
## X2005 1.5726715 1.7225854  0.7434386 1.1586736 1.0098247  0.000000 0.000000
## X2006 3.6223945 1.3225621  1.7123877 1.3344052 0.0000000  0.000000 0.000000
## X2007 2.3649893 1.7269509  1.1179846 1.7424150 1.5185773  0.000000 0.000000
## X2008 1.1265013 1.2338867  1.5975725 0.8299571 0.7233358  3.038677 0.000000
## X2101 0.0000000 2.2935182  0.0000000 2.3140559 4.0335710  0.000000 0.000000
## X2102 2.7691172 1.0110251  1.3090248 2.0401569 0.0000000  7.469557 0.000000
## X2103 0.0000000 1.4210438  0.0000000 2.8675375 2.4991640 10.498828 0.000000
## X2104 0.0000000 0.0000000  0.0000000 3.7738509 0.0000000 27.634216 0.000000
## X2106 0.0000000 1.4374287  0.9305551 1.4503003 2.5279767  5.309927 0.000000
## X2202 0.0000000 1.6363374  1.0593237 0.8254951 2.8777942  0.000000 0.000000
```

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## X2206 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X2208 3.2698252 1.1938368  1.5457204 1.2045272 0.0000000  0.000000 0.000000
## X2209 0.0000000 2.2935182  0.0000000 2.3140559 4.0335710  0.000000 0.000000
## X2302 0.0000000 0.0000000  0.0000000 3.7738509 0.0000000 27.634216 0.000000
## X2309 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
## X2402 3.7978668 1.3866282  1.7953373 1.3990449 0.0000000  0.000000 0.000000
## X2403 3.7978668 1.3866282  1.7953373 1.3990449 0.0000000  0.000000 0.000000
## X2507 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X2508 1.9440463 1.4195729  1.8379912 0.7161423 1.2482869  0.000000 0.000000
## X2512 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X2517 1.3664149 0.4988895  0.6459366 0.5033569 0.0000000  0.000000 0.000000
## X2519 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
## X2520 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X2522 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X2525 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X2530 3.0772452 1.1235246  1.4546837 1.1335854 0.0000000  0.000000 0.000000
## X2602 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X2606 3.7978668 1.3866282  1.7953373 1.3990449 0.0000000  0.000000 0.000000
## X2607 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X2608 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X2710 0.0000000 0.0000000  0.0000000 3.7738509 0.0000000 27.634216 0.000000
## X2713 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X2714 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X2716 1.8741945 1.3685662  0.8859752 0.6904106 0.0000000  0.000000 0.000000
## X2804 1.6328933 1.1923650  1.5438135 1.2030421 1.0484935  4.404646 0.000000
## X2811 1.6328933 1.1923650  1.5438135 1.2030421 1.0484935  4.404646 0.000000
## X2825 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X2826 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
## X2832 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
## X2833 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
## X2835 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
## X2836 0.0000000 0.0000000 11.1409827 0.0000000 0.0000000  0.000000 0.000000
## X2901 1.6328933 1.1923650  1.5438135 1.2030421 1.0484935  4.404646 0.000000
## X2903 0.0000000 0.0000000  0.0000000 1.3344052 0.0000000  0.000000 4.937404
## X2907 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
## X2915 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
## X2933 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
## X3105 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X3202 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
## X3204 1.8969151 1.3851571  1.7934314 0.6987803 1.2180237  0.000000 0.000000
## X3205 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X3206 0.0000000 0.8220904  1.0644013 0.8294519 1.4457942  0.000000 3.069033
## X3207 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X3208 0.0000000 0.0000000  0.0000000 1.2301869 0.0000000  0.000000 4.551788
## X3209 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X3210 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
## X3211 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X3212 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X3214 0.0000000 0.0000000  0.0000000 1.3344052 0.0000000  0.000000 4.937404
## X3215 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X3302 0.0000000 1.7807299  1.1527999 0.8983378 3.1317351  0.000000 0.000000
## X3303 3.7978668 1.3866282  1.7953373 1.3990449 0.0000000  0.000000 0.000000
## X3304 3.7978668 1.3866282  1.7953373 1.3990449 0.0000000  0.000000 0.000000
## X3305 3.2249778 2.3549255  1.5245201 1.1880065 0.0000000  0.000000 0.000000
## X3307 0.0000000 1.3866282  1.7953373 1.3990449 0.0000000  0.000000 0.000000
## X3402 1.3866282 0.0000000  1.3109837 1.0216059 1.7807299  0.000000 0.000000
## X3403 1.7953373 1.3109837  0.0000000 0.6613615 1.1527999  0.000000 0.000000
## X3506 1.3990449 1.0216059  0.6613615 0.0000000 0.8983378  3.773851 1.906928
## X3507 0.0000000 1.7807299  1.1527999 0.8983378 0.0000000  0.000000 0.000000
## X3605 0.0000000 0.0000000  0.0000000 3.7738509 0.0000000  0.000000 0.000000
## X3701 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 0.000000
## X3707 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X3802 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X3808 3.7978668 1.3866282  1.7953373 1.3990449 0.0000000  0.000000 0.000000
## X3809 1.5518568 1.6997866  1.4671981 0.5716692 0.9964594  0.000000 0.000000
## X3810 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X3811 0.0000000 0.0000000 11.1409827 0.0000000 0.0000000  0.000000 0.000000
## X3814 0.0000000 0.8220904  1.0644013 0.8294519 1.4457942  0.000000 3.069033
## X3815 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
## X3816 3.7978668 1.3866282  1.7953373 1.3990449 0.0000000  0.000000 0.000000
## X3819 0.0000000 0.0000000 11.1409827 0.0000000 0.0000000  0.000000 0.000000
## X3820 0.0000000 0.0000000 11.1409827 0.0000000 0.0000000  0.000000 0.000000
## X3823 0.0000000 0.0000000  0.0000000 3.7738509 0.0000000 27.634216 0.000000
## X3902 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
## X3908 2.3649893 1.7269509  1.1179846 1.7424150 1.5185773  0.000000 0.000000
## X3909 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
## X3910 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
## X3911 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
## X3915 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
```

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## X3916 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X3917 1.4465342 1.0562832  1.3676214 0.5328709 0.9288310  0.000000 0.000000
## X3919 0.0000000 0.8220904  1.0644013 0.8294519 1.4457942  0.000000 3.069033
## X3920 0.0000000 0.6735262  0.8720476 1.3591147 1.1845166  4.976071 2.514410
## X3921 0.0000000 0.7501636  1.9425479 0.7568810 1.3192976  0.000000 2.800514
## X3923 0.0000000 1.1855933  0.0000000 1.1962098 2.0850809  0.000000 0.000000
## X3924 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X3925 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
## X3926 1.4245557 1.0402342  1.3468420 0.5247745 0.9147185  0.000000 0.000000
## X4001 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X4005 0.0000000 0.0000000  0.0000000 3.7738509 0.0000000 27.634216 0.000000
## X4006 0.0000000 0.0000000  0.0000000 3.7738509 0.0000000 27.634216 0.000000
## X4008 3.7978668 1.3866282  1.7953373 1.3990449 0.0000000  0.000000 0.000000
## X4009 0.0000000 0.0000000  0.0000000 3.7738509 0.0000000 27.634216 0.000000
## X4010 0.0000000 1.0230786  0.0000000 1.0322399 1.7992690  0.000000 0.000000
## X4012 0.0000000 0.0000000  0.0000000 3.7738509 0.0000000 27.634216 0.000000
## X4013 0.0000000 0.0000000  0.0000000 3.7738509 0.0000000 27.634216 0.000000
## X4015 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X4016 0.0000000 0.0000000  0.0000000 2.8929402 0.0000000 21.183695 0.000000
## X4202 0.0000000 0.7010771  0.9077193 0.7073550 1.2329700  0.000000 2.617264
## X4203 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X4409 0.0000000 1.4495838  0.9384240 0.7312821 2.5493536  0.000000 0.000000
## X4415 0.0000000 1.4374287  0.9305551 1.4503003 2.5279767  5.309927 0.000000
## X4416 0.0000000 0.7501636  0.9712740 0.0000000 1.3192976  0.000000 0.000000
## X4418 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X4420 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X4421 2.8021309 1.0230786  1.3246311 1.0322399 0.0000000  0.000000 0.000000
## X4602 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X4804 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
## X4808 0.0000000 0.6925786  0.8967157 0.6987803 1.2180237  0.000000 2.585537
## X4818 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X4819 0.0000000 2.2935182  0.0000000 2.3140559 4.0335710  0.000000 0.000000
## X4821 0.0000000 1.0354226  0.0000000 2.0893888 1.8209781  0.000000 3.865449
## X4822 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
## X4823 0.0000000 1.0948623  1.4175731 0.0000000 1.9255138  0.000000 0.000000
## X4901 3.7978668 1.3866282  1.7953373 1.3990449 0.0000000  0.000000 0.000000
## X4902 3.7978668 1.3866282  1.7953373 1.3990449 0.0000000  0.000000 0.000000
## X4907 3.7978668 1.3866282  1.7953373 1.3990449 0.0000000  0.000000 0.000000
## X4911 2.3649893 1.7269509  1.1179846 1.7424150 1.5185773  0.000000 0.000000
## X5111 0.0000000 1.2458066  1.6130085 0.0000000 2.1909772  0.000000 0.000000
## X5112 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X5205 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X5206 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X5208 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X5209 0.0000000 1.0354226  0.0000000 2.0893888 1.8209781  0.000000 3.865449
## X5210 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X5211 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X5402 0.0000000 0.0000000  0.0000000 1.3344052 0.0000000  0.000000 4.937404
## X5407 1.4116854 1.0308361  1.3346739 1.0400669 0.9064544  0.000000 1.924158
## X5408 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X5505 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X5508 1.9767872 1.4434807  0.9344730 1.4564065 1.2693101  0.000000 0.000000
## X5509 0.0000000 0.0000000  0.0000000 1.1880065 0.0000000  0.000000 4.395716
## X5511 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X5512 0.0000000 1.3225621  0.0000000 1.3344052 2.3259658  0.000000 0.000000
## X5513 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X5514 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X5515 0.0000000 1.8103631  0.0000000 1.8265743 3.1838538  0.000000 0.000000
## X5516 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X5601 3.7978668 1.3866282  1.7953373 1.3990449 0.0000000  0.000000 0.000000
## X5603 0.0000000 1.5618246  1.0110859 0.7879051 2.7467497  0.000000 0.000000
## X5609 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000  0.000000 0.000000
## X5806 0.0000000 1.0354226  0.0000000 2.0893888 1.8209781  0.000000 3.865449
## X5807 0.0000000 1.0354226  0.0000000 2.0893888 1.8209781  0.000000 3.865449
## X5903 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
## X5907 0.0000000 2.2935182  0.0000000 2.3140559 4.0335710  0.000000 0.000000
## X5911 0.0000000 0.0000000  0.0000000 0.9527227 0.0000000  0.000000 3.525146
## X6002 1.1237967 1.2309242  1.0624912 1.2419466 1.4431981  0.000000 1.531759
## X6101 0.0000000 2.2935182  0.0000000 2.3140559 4.0335710  0.000000 0.000000
## X6103 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X6104 2.1886896 0.7991073  1.0346439 1.6125259 0.0000000  0.000000 2.983232
## X6105 0.0000000 2.2935182  0.0000000 2.3140559 4.0335710  0.000000 0.000000
## X6106 2.1886896 0.7991073  1.0346439 1.6125259 0.0000000  0.000000 2.983232
## X6107 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X6109 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X6110 0.0000000 1.4449516  0.0000000 1.4578906 2.5412103  0.000000 0.000000
## X6111 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X6112 0.0000000 0.0000000  0.0000000 1.2661481 0.0000000  0.000000 4.684847
## X6114 0.0000000 0.0000000  0.0000000 0.9423509 0.0000000  0.000000 3.486769
```

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## X6115 2.0912350 0.7635260  0.9885750 1.5407261 0.0000000  0.000000 2.850399
## X6117 0.0000000 2.2935182  0.0000000 2.3140559 4.0335710  0.000000 0.000000
## X6201 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X6202 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X6203 0.0000000 1.0051041  0.0000000 2.0282088 1.7676574  0.000000 3.752264
## X6204 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X6205 2.3649893 1.7269509  1.1179846 1.7424150 1.5185773  0.000000 0.000000
## X6206 1.7749670 0.6480545  0.8390681 1.3077151 0.0000000  0.000000 2.419319
## X6210 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X6211 0.0000000 0.7954009  1.0298450 1.6050468 1.3988557  0.000000 2.969395
## X6212 0.0000000 0.9750352  1.2624255 0.9837662 1.7147725  0.000000 1.819999
## X6217 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X6302 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X6303 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X6304 0.0000000 0.0000000  0.0000000 1.9069284 0.0000000  0.000000 7.055790
## X6305 0.0000000 0.8220904  1.0644013 0.8294519 1.4457942  0.000000 3.069033
## X6306 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
## X6307 0.0000000 0.0000000  0.0000000 1.6524737 0.0000000  0.000000 6.114286
## X6401 3.7978668 1.3866282  1.7953373 1.3990449 0.0000000  0.000000 0.000000
## X6403 3.2698252 1.1938368  3.0914409 1.2045272 0.0000000  0.000000 0.000000
## X6404 0.0000000 1.4572094  1.8867224 0.0000000 2.5627679  0.000000 0.000000
##          X3707     X3802     X3808     X3809     X3810      X3811     X3814
## X102  0.000000  0.000000 3.7978668 1.5518568  0.000000   0.000000 0.0000000
## X210  0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X401  0.000000  0.000000 1.9440463 1.5887266  0.000000   0.000000 1.1525662
## X403  0.000000  0.000000 1.7616411 1.4396607  0.000000   0.000000 0.0000000
## X406  0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X510  0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X602  0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X603  0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X702  0.000000  0.000000 0.9905484 0.4047526  0.000000   6.146848 0.0000000
## X703  0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X709  0.000000  3.924187 0.0000000 0.5039541  0.000000   7.653404 0.0000000
## X712  0.000000  0.000000 0.0000000 0.0000000 36.550000   0.000000 0.0000000
## X713  0.000000  3.320500 0.0000000 0.8528553  0.000000   6.476023 0.0000000
## X804  0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X805  0.000000  0.000000 0.0000000 1.6448013  0.000000   0.000000 0.0000000
## X808  0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X809  0.000000  0.000000 3.7978668 1.5518568  0.000000   0.000000 0.0000000
## X813  0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X901  0.000000  0.000000 0.0000000 1.8869257  0.000000   0.000000 0.0000000
## X904  0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X1001 0.000000  7.198765 0.0000000 0.0000000  0.000000  14.039867 0.0000000
## X1003 0.000000  0.000000 1.3277012 1.0850346  0.000000   0.000000 0.7871545
## X1005 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X1102 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
## X1108 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
## X1202 0.000000  0.000000 0.0000000 5.6640643  0.000000   0.000000 0.0000000
## X1208 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
## X1213 0.000000  7.029478 0.0000000 0.9027404  0.000000   0.000000 0.0000000
## X1214 0.000000  4.200668 0.0000000 0.5394602  0.000000   8.192629 0.0000000
## X1302 0.000000  3.746574 0.0000000 0.4811448  0.000000   7.307003 0.0000000
## X1507 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X1514 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X1517 0.000000  0.000000 1.9440463 1.5887266  0.000000   0.000000 1.1525662
## X1601 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X1602 0.000000  0.000000 1.9201921 0.7846162  0.000000   0.000000 0.0000000
## X1704 0.000000  0.000000 1.6796629 1.3726661  0.000000   0.000000 0.0000000
## X1806 0.000000  0.000000 1.1745499 1.4398134  0.000000   0.000000 0.6963558
## X1901 0.000000  0.000000 1.1265013 1.3809137  0.000000   0.000000 0.6678693
## X1902 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X1905 1.458221  0.000000 1.0698448 1.3114622  0.000000   0.000000 1.2685589
## X2001 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X2002 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X2003 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X2004 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X2005 0.000000  0.000000 1.5726715 1.2852302  0.000000   0.000000 0.0000000
## X2006 0.000000  0.000000 3.6223945 1.4801567  0.000000   0.000000 0.0000000
## X2007 0.000000  0.000000 2.3649893 0.9663657  0.000000   0.000000 0.0000000
## X2008 0.000000  0.000000 1.1265013 1.3809137  0.000000   6.990506 0.6678693
## X2101 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X2102 0.000000  0.000000 2.7691172 1.1314973  0.000000   0.000000 0.0000000
## X2103 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X2104 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X2106 0.000000  0.000000 0.0000000 0.8043551  0.000000   0.000000 1.1670636
## X2202 0.000000  0.000000 0.0000000 0.9156603  0.000000   0.000000 1.3285600
## X2206 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X2208 0.000000  0.000000 3.2698252 1.3360926  0.000000   0.000000 0.0000000
## X2209 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
```

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## X2302 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X2309 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
## X2402 0.000000  0.000000 3.7978668 1.5518568  0.000000   0.000000 0.0000000
## X2403 0.000000  0.000000 3.7978668 1.5518568  0.000000   0.000000 0.0000000
## X2507 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X2508 0.000000  0.000000 1.9440463 1.5887266  0.000000   0.000000 1.1525662
## X2512 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X2517 0.000000  0.000000 1.3664149 1.1166723  0.000000   0.000000 0.0000000
## X2519 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
## X2520 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X2522 0.000000  0.000000 0.0000000 3.8510380  0.000000   0.000000 0.0000000
## X2525 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X2530 0.000000  0.000000 3.0772452 1.2574021  0.000000   0.000000 0.0000000
## X2602 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X2606 0.000000  0.000000 3.7978668 1.5518568  0.000000   0.000000 0.0000000
## X2607 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X2608 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X2710 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X2713 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X2714 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X2716 0.000000  5.963307 1.8741945 1.5316421  0.000000   0.000000 0.0000000
## X2804 0.000000  0.000000 1.6328933 1.3344449  0.000000   0.000000 0.9680933
## X2811 0.000000  0.000000 1.6328933 1.3344449  0.000000   0.000000 0.9680933
## X2825 0.000000  0.000000 0.0000000 0.0000000 36.550000   0.000000 0.0000000
## X2826 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
## X2832 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
## X2833 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
## X2835 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
## X2836 0.000000  0.000000 0.0000000 0.0000000  0.000000 146.250000 0.0000000
## X2901 0.000000  0.000000 1.6328933 1.3344449  0.000000   0.000000 0.9680933
## X2903 4.937404 11.525733 0.0000000 0.0000000  0.000000   0.000000 2.1476067
## X2907 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
## X2915 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
## X2933 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
## X3105 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X3202 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
## X3204 0.000000  0.000000 1.8969151 1.5502099  0.000000   0.000000 1.1246237
## X3205 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X3206 3.069033  0.000000 0.0000000 0.9200493  0.000000   0.000000 2.6698565
## X3207 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X3208 4.551788  0.000000 0.0000000 0.0000000 10.359833   0.000000 1.9798765
## X3209 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X3210 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
## X3211 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X3212 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X3214 4.937404 11.525733 0.0000000 0.0000000  0.000000   0.000000 2.1476067
## X3215 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X3302 0.000000  0.000000 0.0000000 0.9964594  0.000000   0.000000 1.4457942
## X3303 0.000000  0.000000 3.7978668 1.5518568  0.000000   0.000000 0.0000000
## X3304 0.000000  0.000000 3.7978668 1.5518568  0.000000   0.000000 0.0000000
## X3305 0.000000  0.000000 3.2249778 2.6355348  0.000000   0.000000 0.0000000
## X3307 0.000000  0.000000 3.7978668 1.5518568  0.000000   0.000000 0.0000000
## X3402 0.000000  0.000000 1.3866282 1.6997866  0.000000   0.000000 0.8220904
## X3403 0.000000  0.000000 1.7953373 1.4671981  0.000000  11.140983 1.0644013
## X3506 1.906928  0.000000 1.3990449 0.5716692  0.000000   0.000000 0.8294519
## X3507 0.000000  0.000000 0.0000000 0.9964594  0.000000   0.000000 1.4457942
## X3605 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X3701 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X3707 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X3802 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X3808 0.000000  0.000000 0.0000000 1.5518568  0.000000   0.000000 0.0000000
## X3809 0.000000  0.000000 1.5518568 0.0000000  0.000000   0.000000 0.9200493
## X3810 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X3811 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X3814 3.069033  0.000000 0.0000000 0.9200493  0.000000   0.000000 0.0000000
## X3815 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
## X3816 0.000000  0.000000 3.7978668 1.5518568  0.000000   0.000000 0.0000000
## X3819 0.000000  0.000000 0.0000000 0.0000000  0.000000 146.250000 0.0000000
## X3820 0.000000  0.000000 0.0000000 0.0000000  0.000000 146.250000 0.0000000
## X3823 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X3902 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
## X3908 0.000000  0.000000 2.3649893 0.9663657  0.000000   0.000000 0.0000000
## X3909 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
## X3910 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
## X3911 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
## X3915 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
## X3916 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X3917 0.000000  0.000000 1.4465342 1.7732216  0.000000   0.000000 0.8576068
## X3919 3.069033  0.000000 0.0000000 0.9200493  0.000000   0.000000 2.6698565
```

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## X3920 2.514410  0.000000 0.0000000 0.7537823  0.000000   0.000000 2.1873718
## X3921 2.800514  0.000000 0.0000000 0.8395517  0.000000  12.750068 2.4362633
## X3923 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X3924 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X3925 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
## X3926 0.000000  4.532645 1.4245557 1.1641864  0.000000   0.000000 0.8445764
## X4001 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X4005 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X4006 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X4008 0.000000  0.000000 3.7978668 1.5518568  0.000000   0.000000 0.0000000
## X4009 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X4010 0.000000  0.000000 0.0000000 1.1449871  0.000000   0.000000 0.0000000
## X4012 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X4013 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X4015 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X4016 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X4202 2.617264  0.000000 0.0000000 0.7846162  0.000000   0.000000 2.2768477
## X4203 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X4409 0.000000  0.000000 0.0000000 0.8111568  0.000000   0.000000 1.1769325
## X4415 0.000000  0.000000 0.0000000 0.8043551  0.000000   0.000000 1.1670636
## X4416 0.000000  0.000000 0.0000000 1.6791035  0.000000   0.000000 1.2181316
## X4418 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X4420 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X4421 0.000000  0.000000 2.8021309 1.1449871  0.000000   0.000000 0.0000000
## X4602 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X4804 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
## X4808 2.585537  6.035599 0.0000000 0.7751050  0.000000   0.000000 2.2492473
## X4818 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X4819 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X4821 3.865449  0.000000 0.0000000 0.0000000  0.000000   0.000000 1.6813424
## X4822 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
## X4823 0.000000  9.541392 0.0000000 1.2253244  0.000000   0.000000 1.7778621
## X4901 0.000000  0.000000 3.7978668 1.5518568  0.000000   0.000000 0.0000000
## X4902 0.000000  0.000000 3.7978668 1.5518568  0.000000   0.000000 0.0000000
## X4907 0.000000  0.000000 3.7978668 1.5518568  0.000000   0.000000 0.0000000
## X4911 0.000000  0.000000 2.3649893 0.9663657  0.000000   0.000000 0.0000000
## X5111 0.000000  0.000000 0.0000000 1.3942551  0.000000   0.000000 2.0229692
## X5112 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X5205 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X5206 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X5208 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X5209 3.865449  0.000000 0.0000000 0.0000000  0.000000   0.000000 1.6813424
## X5210 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X5211 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X5402 4.937404 11.525733 0.0000000 0.0000000  0.000000   0.000000 2.1476067
## X5407 1.924158  0.000000 1.4116854 1.1536684  0.000000   0.000000 1.6738921
## X5408 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X5505 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X5508 0.000000  6.289736 1.9767872 0.8077417  0.000000   0.000000 0.0000000
## X5509 4.395716  0.000000 0.0000000 0.0000000  0.000000   0.000000 1.9119907
## X5511 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X5512 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X5513 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X5514 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X5515 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X5516 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X5601 0.000000  0.000000 3.7978668 1.5518568  0.000000   0.000000 0.0000000
## X5603 0.000000  0.000000 0.0000000 0.8739645  0.000000   0.000000 1.2680622
## X5609 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X5806 3.865449  0.000000 0.0000000 0.0000000  0.000000   0.000000 1.6813424
## X5807 3.865449  0.000000 0.0000000 0.0000000  0.000000   0.000000 1.6813424
## X5903 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
## X5907 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X5911 3.525146  0.000000 0.0000000 0.0000000  0.000000   0.000000 1.5333219
## X6002 1.531759  0.000000 1.1237967 0.9183988  0.000000   0.000000 1.3325316
## X6101 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X6103 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X6104 2.983232  0.000000 2.1886896 0.8943275  0.000000   0.000000 1.2976077
## X6105 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X6106 2.983232  0.000000 2.1886896 0.8943275  0.000000   0.000000 1.2976077
## X6107 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X6109 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X6110 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X6111 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X6112 4.684847  0.000000 0.0000000 1.4044442  0.000000   0.000000 2.0377529
## X6114 3.486769  0.000000 0.0000000 0.0000000  0.000000   0.000000 1.5166293
## X6115 2.850399  0.000000 2.0912350 0.8545064  0.000000   0.000000 1.2398299
## X6117 0.000000  0.000000 0.0000000 0.0000000  0.000000   0.000000 0.0000000
## X6201 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
```

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## X6202 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X6203 3.752264  0.000000 0.0000000 0.0000000  0.000000   0.000000 1.6321104
## X6204 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X6205 0.000000  0.000000 2.3649893 0.9663657  0.000000   0.000000 0.0000000
## X6206 2.419319  0.000000 1.7749670 0.7252755  0.000000   0.000000 1.0523244
## X6210 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X6211 2.969395  0.000000 0.0000000 0.0000000  0.000000  13.518943 1.2915891
## X6212 1.819999  0.000000 0.0000000 0.5456092  0.000000   8.286012 1.5832811
## X6217 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X6302 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X6303 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X6304 7.055790  0.000000 0.0000000 0.0000000  0.000000   0.000000 3.0690331
## X6305 3.069033  0.000000 0.0000000 0.9200493  0.000000   0.000000 2.6698565
## X6306 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
## X6307 6.114286  0.000000 0.0000000 0.0000000  0.000000   0.000000 2.6595103
## X6401 0.000000  0.000000 3.7978668 1.5518568  0.000000   0.000000 0.0000000
## X6403 0.000000  0.000000 3.2698252 1.3360926  0.000000  20.290949 0.0000000
## X6404 0.000000  0.000000 0.0000000 1.6308484  0.000000   0.000000 2.3662503
##           X3815     X3816      X3819      X3820     X3823     X3902     X3908
## X102  0.0000000 3.7978668   0.000000   0.000000  0.000000 0.0000000 2.3649893
## X210  0.0000000 0.0000000   0.000000   0.000000 10.498828 0.0000000 2.4236876
## X401  2.0430009 1.9440463   0.000000   0.000000  0.000000 2.0430009 1.2105879
## X403  0.0000000 1.7616411   0.000000   0.000000  4.751937 0.0000000 2.1940030
## X406  0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 3.2960278
## X510  0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X602  0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X603  0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X702  0.0000000 0.9905484   6.146848   6.146848  0.000000 0.0000000 1.2336615
## X703  0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X709  0.0000000 0.0000000   7.653404   7.653404  0.000000 0.0000000 0.0000000
## X712  0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X713  0.0000000 0.0000000   6.476023   6.476023  0.000000 0.0000000 0.0000000
## X804  0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X805  0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X808  0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X809  0.0000000 3.7978668   0.000000   0.000000  0.000000 0.0000000 2.3649893
## X813  0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X901  0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X904  0.0000000 0.0000000   0.000000   0.000000 27.634216 0.0000000 0.0000000
## X1001 0.0000000 0.0000000  14.039867  14.039867  0.000000 0.0000000 0.0000000
## X1003 1.3952830 1.3277012   0.000000   0.000000  0.000000 1.3952830 0.8267808
## X1005 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X1102 4.1943407 0.0000000   0.000000   0.000000  0.000000 4.1943407 0.0000000
## X1108 4.1943407 0.0000000   0.000000   0.000000  0.000000 4.1943407 0.0000000
## X1202 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X1208 4.1943407 0.0000000   0.000000   0.000000  0.000000 4.1943407 0.0000000
## X1213 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X1214 0.0000000 0.0000000   8.192629   8.192629  0.000000 0.0000000 0.0000000
## X1302 0.0000000 0.0000000   7.307003   7.307003  0.000000 0.0000000 0.0000000
## X1507 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 3.9117544
## X1514 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 3.9117544
## X1517 2.0430009 1.9440463   0.000000   0.000000  0.000000 2.0430009 1.2105879
## X1601 0.0000000 0.0000000   0.000000   0.000000 10.498828 0.0000000 2.4236876
## X1602 0.0000000 1.9201921   0.000000   0.000000  5.179621 0.0000000 2.3914672
## X1704 0.0000000 1.6796629   0.000000   0.000000  4.530805 0.0000000 1.0459525
## X1806 1.2343360 1.1745499   0.000000   0.000000  3.168286 1.2343360 0.7314111
## X1901 1.1838417 1.1265013   0.000000   0.000000  0.000000 1.1838417 1.4029812
## X1902 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 3.9117544
## X1905 1.1243013 1.0698448   0.000000   0.000000  0.000000 1.1243013 0.6662098
## X2001 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 3.9117544
## X2002 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 3.9117544
## X2003 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 3.9117544
## X2004 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 3.9117544
## X2005 0.0000000 1.5726715   0.000000   0.000000  0.000000 0.0000000 1.9586547
## X2006 0.0000000 3.6223945   0.000000   0.000000  0.000000 0.0000000 2.2557201
## X2007 0.0000000 2.3649893   0.000000   0.000000  0.000000 0.0000000 2.9454307
## X2008 1.1838417 1.1265013   6.990506   6.990506  3.038677 1.1838417 0.7014906
## X2101 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 3.9117544
## X2102 0.0000000 2.7691172   0.000000   0.000000  7.469557 0.0000000 1.7243718
## X2103 0.0000000 0.0000000   0.000000   0.000000 10.498828 0.0000000 2.4236876
## X2104 0.0000000 0.0000000   0.000000   0.000000 27.634216 0.0000000 0.0000000
## X2106 2.0686986 0.0000000   0.000000   0.000000  5.309927 2.0686986 1.2258151
## X2202 2.3549622 0.0000000   0.000000   0.000000  0.000000 2.3549622 1.3954415
## X2206 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X2208 0.0000000 3.2698252   0.000000   0.000000  0.000000 0.0000000 2.0361700
## X2209 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 3.9117544
## X2302 0.0000000 0.0000000   0.000000   0.000000 27.634216 0.0000000 0.0000000
## X2309 4.1943407 0.0000000   0.000000   0.000000  0.000000 4.1943407 0.0000000
## X2402 0.0000000 3.7978668   0.000000   0.000000  0.000000 0.0000000 2.3649893
```

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## X2403 0.0000000 3.7978668   0.000000   0.000000  0.000000 0.0000000 2.3649893
## X2507 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X2508 2.0430009 1.9440463   0.000000   0.000000  0.000000 2.0430009 1.2105879
## X2512 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X2517 0.0000000 1.3664149   0.000000   0.000000  0.000000 0.0000000 0.8508883
## X2519 4.1943407 0.0000000   0.000000   0.000000  0.000000 4.1943407 0.0000000
## X2520 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X2522 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X2525 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X2530 0.0000000 3.0772452   0.000000   0.000000  0.000000 0.0000000 1.9162476
## X2602 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X2606 0.0000000 3.7978668   0.000000   0.000000  0.000000 0.0000000 2.3649893
## X2607 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X2608 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X2710 0.0000000 0.0000000   0.000000   0.000000 27.634216 0.0000000 0.0000000
## X2713 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X2714 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X2716 0.0000000 1.8741945   0.000000   0.000000  0.000000 0.0000000 1.1670902
## X2804 1.7160098 1.6328933   0.000000   0.000000  4.404646 1.7160098 1.0168283
## X2811 1.7160098 1.6328933   0.000000   0.000000  4.404646 1.7160098 1.0168283
## X2825 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X2826 4.1943407 0.0000000   0.000000   0.000000  0.000000 4.1943407 0.0000000
## X2832 4.1943407 0.0000000   0.000000   0.000000  0.000000 4.1943407 0.0000000
## X2833 4.1943407 0.0000000   0.000000   0.000000  0.000000 4.1943407 0.0000000
## X2835 4.1943407 0.0000000   0.000000   0.000000  0.000000 4.1943407 0.0000000
## X2836 0.0000000 0.0000000 146.250000 146.250000  0.000000 0.0000000 0.0000000
## X2901 1.7160098 1.6328933   0.000000   0.000000  4.404646 1.7160098 1.0168283
## X2903 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X2907 4.1943407 0.0000000   0.000000   0.000000  0.000000 4.1943407 0.0000000
## X2915 4.1943407 0.0000000   0.000000   0.000000  0.000000 4.1943407 0.0000000
## X2933 4.1943407 0.0000000   0.000000   0.000000  0.000000 4.1943407 0.0000000
## X3105 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X3202 4.1943407 0.0000000   0.000000   0.000000  0.000000 4.1943407 0.0000000
## X3204 1.9934707 1.8969151   0.000000   0.000000  0.000000 1.9934707 1.1812386
## X3205 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X3206 2.3662503 0.0000000   0.000000   0.000000  0.000000 2.3662503 0.0000000
## X3207 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X3208 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X3209 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X3210 4.1943407 0.0000000   0.000000   0.000000  0.000000 4.1943407 0.0000000
## X3211 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X3212 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X3214 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X3215 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X3302 2.5627679 0.0000000   0.000000   0.000000  0.000000 2.5627679 1.5185773
## X3303 0.0000000 3.7978668   0.000000   0.000000  0.000000 0.0000000 2.3649893
## X3304 0.0000000 3.7978668   0.000000   0.000000  0.000000 0.0000000 2.3649893
## X3305 0.0000000 3.2249778   0.000000   0.000000  0.000000 0.0000000 2.0082429
## X3307 0.0000000 3.7978668   0.000000   0.000000  0.000000 0.0000000 2.3649893
## X3402 1.4572094 1.3866282   0.000000   0.000000  0.000000 1.4572094 1.7269509
## X3403 1.8867224 1.7953373  11.140983  11.140983  0.000000 1.8867224 1.1179846
## X3506 0.0000000 1.3990449   0.000000   0.000000  3.773851 0.0000000 1.7424150
## X3507 2.5627679 0.0000000   0.000000   0.000000  0.000000 2.5627679 1.5185773
## X3605 0.0000000 0.0000000   0.000000   0.000000 27.634216 0.0000000 0.0000000
## X3701 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X3707 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X3802 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X3808 0.0000000 3.7978668   0.000000   0.000000  0.000000 0.0000000 2.3649893
## X3809 1.6308484 1.5518568   0.000000   0.000000  0.000000 1.6308484 0.9663657
## X3810 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X3811 0.0000000 0.0000000 146.250000 146.250000  0.000000 0.0000000 0.0000000
## X3814 2.3662503 0.0000000   0.000000   0.000000  0.000000 2.3662503 0.0000000
## X3815 0.0000000 0.0000000   0.000000   0.000000  0.000000 4.1943407 0.0000000
## X3816 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 2.3649893
## X3819 0.0000000 0.0000000   0.000000 146.250000  0.000000 0.0000000 0.0000000
## X3820 0.0000000 0.0000000 146.250000   0.000000  0.000000 0.0000000 0.0000000
## X3823 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X3902 4.1943407 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X3908 0.0000000 2.3649893   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X3909 4.1943407 0.0000000   0.000000   0.000000  0.000000 4.1943407 0.0000000
## X3910 4.1943407 0.0000000   0.000000   0.000000  0.000000 4.1943407 0.0000000
## X3911 4.1943407 0.0000000   0.000000   0.000000  0.000000 4.1943407 0.0000000
## X3915 4.1943407 0.0000000   0.000000   0.000000  0.000000 4.1943407 0.0000000
## X3916 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X3917 1.5201647 1.4465342   0.000000   0.000000  0.000000 1.5201647 0.9007798
## X3919 2.3662503 0.0000000   0.000000   0.000000  0.000000 2.3662503 0.0000000
## X3920 1.9386314 0.0000000   0.000000   0.000000  4.976071 1.9386314 0.0000000
## X3921 2.1592202 0.0000000  12.750068  12.750068  0.000000 2.1592202 0.0000000
## X3923 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 2.0221101
```

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## X3924 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X3925 4.1943407 0.0000000   0.000000   0.000000  0.000000 4.1943407 0.0000000
## X3926 1.4970675 1.4245557   0.000000   0.000000  0.000000 1.4970675 0.8870934
## X4001 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X4005 0.0000000 0.0000000   0.000000   0.000000 27.634216 0.0000000 0.0000000
## X4006 0.0000000 0.0000000   0.000000   0.000000 27.634216 0.0000000 0.0000000
## X4008 0.0000000 3.7978668   0.000000   0.000000  0.000000 0.0000000 2.3649893
## X4009 0.0000000 0.0000000   0.000000   0.000000 27.634216 0.0000000 0.0000000
## X4010 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 1.7449299
## X4012 0.0000000 0.0000000   0.000000   0.000000 27.634216 0.0000000 0.0000000
## X4013 0.0000000 0.0000000   0.000000   0.000000 27.634216 0.0000000 0.0000000
## X4015 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X4016 0.0000000 0.0000000   0.000000   0.000000 21.183695 0.0000000 0.0000000
## X4202 2.0179326 0.0000000   0.000000   0.000000  0.000000 2.0179326 0.0000000
## X4203 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X4409 2.0861918 0.0000000   0.000000   0.000000  0.000000 2.0861918 1.2361808
## X4415 2.0686986 0.0000000   0.000000   0.000000  5.309927 2.0686986 1.2258151
## X4416 2.1592202 0.0000000   0.000000   0.000000  0.000000 2.1592202 0.0000000
## X4418 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X4420 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X4421 0.0000000 2.8021309   0.000000   0.000000  0.000000 0.0000000 1.7449299
## X4602 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X4804 4.1943407 0.0000000   0.000000   0.000000  0.000000 4.1943407 0.0000000
## X4808 1.9934707 0.0000000   0.000000   0.000000  0.000000 1.9934707 0.0000000
## X4818 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X4819 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 3.9117544
## X4821 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 1.7659834
## X4822 4.1943407 0.0000000   0.000000   0.000000  0.000000 4.1943407 0.0000000
## X4823 3.1513815 0.0000000   0.000000   0.000000  0.000000 3.1513815 0.0000000
## X4901 0.0000000 3.7978668   0.000000   0.000000  0.000000 0.0000000 2.3649893
## X4902 0.0000000 3.7978668   0.000000   0.000000  0.000000 0.0000000 2.3649893
## X4907 0.0000000 3.7978668   0.000000   0.000000  0.000000 0.0000000 2.3649893
## X4911 0.0000000 2.3649893   0.000000   0.000000  0.000000 0.0000000 2.9454307
## X5111 3.5858510 0.0000000   0.000000   0.000000  0.000000 3.5858510 0.0000000
## X5112 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X5205 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X5206 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X5208 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X5209 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 1.7659834
## X5210 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X5211 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X5402 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X5407 1.4835421 1.4116854   0.000000   0.000000  0.000000 1.4835421 0.8790789
## X5408 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X5505 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X5508 0.0000000 1.9767872   0.000000   0.000000  0.000000 0.0000000 2.4619523
## X5509 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X5511 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X5512 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 2.2557201
## X5513 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X5514 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X5515 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 3.0876992
## X5516 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X5601 0.0000000 3.7978668   0.000000   0.000000  0.000000 0.0000000 2.3649893
## X5603 2.2477256 0.0000000   0.000000   0.000000  0.000000 2.2477256 1.3318981
## X5609 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X5806 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 1.7659834
## X5807 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 1.7659834
## X5903 4.1943407 0.0000000   0.000000   0.000000  0.000000 4.1943407 0.0000000
## X5907 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 3.9117544
## X5911 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X6002 1.1809994 1.1237967   0.000000   0.000000  0.000000 1.1809994 1.3996128
## X6101 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 3.9117544
## X6103 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X6104 0.0000000 2.1886896   0.000000   0.000000  0.000000 0.0000000 1.3629309
## X6105 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 3.9117544
## X6106 0.0000000 2.1886896   0.000000   0.000000  0.000000 0.0000000 1.3629309
## X6107 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X6109 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X6110 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 2.4644640
## X6111 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X6112 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X6114 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X6115 0.0000000 2.0912350   0.000000   0.000000  0.000000 0.0000000 1.3022445
## X6117 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 3.9117544
## X6201 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X6202 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X6203 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 1.7142730
## X6204 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
```

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## X6205 0.0000000 2.3649893   0.000000   0.000000  0.000000 0.0000000 2.9454307
## X6206 0.0000000 1.7749670   0.000000   0.000000  0.000000 0.0000000 1.1052997
## X6210 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X6211 0.0000000 0.0000000  13.518943  13.518943  0.000000 0.0000000 1.3566094
## X6212 1.4032349 0.0000000   8.286012   8.286012  0.000000 1.4032349 0.8314927
## X6217 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X6302 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X6303 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X6304 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X6305 2.3662503 0.0000000   0.000000   0.000000  0.000000 2.3662503 0.0000000
## X6306 4.1943407 0.0000000   0.000000   0.000000  0.000000 4.1943407 0.0000000
## X6307 0.0000000 0.0000000   0.000000   0.000000  0.000000 0.0000000 0.0000000
## X6401 0.0000000 3.7978668   0.000000   0.000000  0.000000 0.0000000 2.3649893
## X6403 0.0000000 3.2698252  20.290949  20.290949  0.000000 0.0000000 2.0361700
## X6404 4.1943407 0.0000000   0.000000   0.000000  0.000000 4.1943407 0.0000000
##           X3909     X3910     X3911     X3915    X3916     X3917     X3919
## X102  0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.4465342 0.0000000
## X210  0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X401  2.0430009 2.0430009 2.0430009 2.0430009 0.000000 1.4809020 1.1525662
## X403  0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.6709765 0.0000000
## X406  0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X510  0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X602  0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X603  0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X702  0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.7545655 0.0000000
## X703  0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X709  0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.9395031 0.0000000
## X712  0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X713  0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.3974867 0.0000000
## X804  0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X805  0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X808  0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X809  0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.4465342 0.0000000
## X813  0.0000000 0.0000000 0.0000000 0.0000000 0.000000 4.0793819 0.0000000
## X901  0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X904  0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X1001 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X1003 1.3952830 1.3952830 1.3952830 1.3952830 0.000000 1.0113950 0.7871545
## X1005 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X1102 4.1943407 4.1943407 4.1943407 4.1943407 0.000000 1.5201647 2.3662503
## X1108 4.1943407 4.1943407 4.1943407 4.1943407 0.000000 1.5201647 2.3662503
## X1202 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X1208 4.1943407 4.1943407 4.1943407 4.1943407 0.000000 1.5201647 2.3662503
## X1213 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X1214 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.0056957 0.0000000
## X1302 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.8969806 0.0000000
## X1507 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X1514 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X1517 2.0430009 2.0430009 2.0430009 2.0430009 0.000000 1.4809020 1.1525662
## X1601 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X1602 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.7313654 0.0000000
## X1704 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.2795053 0.0000000
## X1806 1.2343360 1.2343360 1.2343360 1.2343360 0.000000 1.3420956 0.6963558
## X1901 1.1838417 1.1838417 1.1838417 1.1838417 0.000000 1.2871934 0.6678693
## X1902 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X1905 1.1243013 1.1243013 1.1243013 1.1243013 1.458221 1.2224555 1.2685589
## X2001 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2002 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2003 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2004 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2005 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.1980035 0.0000000
## X2006 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.3797003 0.0000000
## X2007 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.9007798 0.0000000
## X2008 1.1838417 1.1838417 1.1838417 1.1838417 0.000000 1.2871934 0.6678693
## X2101 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2102 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.0547040 0.0000000
## X2103 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2104 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2106 2.0686986 2.0686986 2.0686986 2.0686986 0.000000 0.7497646 1.1670636
## X2202 2.3549622 2.3549622 2.3549622 2.3549622 0.000000 0.8535157 1.3285600
## X2206 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 4.0793819 0.0000000
## X2208 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.2454137 0.0000000
## X2209 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2302 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2309 4.1943407 4.1943407 4.1943407 4.1943407 0.000000 1.5201647 2.3662503
## X2402 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.4465342 0.0000000
## X2403 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.4465342 0.0000000
## X2507 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 3.2049005 0.0000000
## X2508 2.0430009 2.0430009 2.0430009 2.0430009 0.000000 1.4809020 1.1525662
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## X2512 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2517 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.5613282 0.0000000
## X2519 4.1943407 4.1943407 4.1943407 4.1943407 0.000000 1.5201647 2.3662503
## X2520 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2522 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 3.5896724 0.0000000
## X2525 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2530 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.1720638 0.0000000
## X2602 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2606 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.4465342 0.0000000
## X2607 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2608 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2710 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2713 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X2714 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X2716 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.7138459 0.0000000
## X2804 1.7160098 1.7160098 1.7160098 1.7160098 0.000000 1.2438781 0.9680933
## X2811 1.7160098 1.7160098 1.7160098 1.7160098 0.000000 1.2438781 0.9680933
## X2825 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2826 4.1943407 4.1943407 4.1943407 4.1943407 0.000000 1.5201647 2.3662503
## X2832 4.1943407 4.1943407 4.1943407 4.1943407 0.000000 1.5201647 2.3662503
## X2833 4.1943407 4.1943407 4.1943407 4.1943407 0.000000 1.5201647 2.3662503
## X2835 4.1943407 4.1943407 4.1943407 4.1943407 0.000000 1.5201647 2.3662503
## X2836 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2901 1.7160098 1.7160098 1.7160098 1.7160098 0.000000 1.2438781 0.9680933
## X2903 0.0000000 0.0000000 0.0000000 0.0000000 4.937404 0.0000000 2.1476067
## X2907 4.1943407 4.1943407 4.1943407 4.1943407 0.000000 1.5201647 2.3662503
## X2915 4.1943407 4.1943407 4.1943407 4.1943407 0.000000 1.5201647 2.3662503
## X2933 4.1943407 4.1943407 4.1943407 4.1943407 0.000000 1.5201647 2.3662503
## X3105 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X3202 4.1943407 4.1943407 4.1943407 4.1943407 0.000000 1.5201647 2.3662503
## X3204 1.9934707 1.9934707 1.9934707 1.9934707 0.000000 1.4449994 1.1246237
## X3205 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X3206 2.3662503 2.3662503 2.3662503 2.3662503 3.069033 0.8576068 2.6698565
## X3207 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X3208 0.0000000 0.0000000 0.0000000 0.0000000 4.551788 0.0000000 1.9798765
## X3209 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X3210 4.1943407 4.1943407 4.1943407 4.1943407 0.000000 1.5201647 2.3662503
## X3211 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X3212 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X3214 0.0000000 0.0000000 0.0000000 0.0000000 4.937404 0.0000000 2.1476067
## X3215 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X3302 2.5627679 2.5627679 2.5627679 2.5627679 0.000000 0.9288310 1.4457942
## X3303 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.4465342 0.0000000
## X3304 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.4465342 0.0000000
## X3305 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.2283322 0.0000000
## X3307 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.4465342 0.0000000
## X3402 1.4572094 1.4572094 1.4572094 1.4572094 0.000000 1.0562832 0.8220904
## X3403 1.8867224 1.8867224 1.8867224 1.8867224 0.000000 1.3676214 1.0644013
## X3506 0.0000000 0.0000000 0.0000000 0.0000000 1.906928 0.5328709 0.8294519
## X3507 2.5627679 2.5627679 2.5627679 2.5627679 0.000000 0.9288310 1.4457942
## X3605 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X3701 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X3707 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X3802 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X3808 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.4465342 0.0000000
## X3809 1.6308484 1.6308484 1.6308484 1.6308484 0.000000 1.7732216 0.9200493
## X3810 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X3811 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X3814 2.3662503 2.3662503 2.3662503 2.3662503 3.069033 0.8576068 2.6698565
## X3815 4.1943407 4.1943407 4.1943407 4.1943407 0.000000 1.5201647 2.3662503
## X3816 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.4465342 0.0000000
## X3819 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X3820 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X3823 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X3902 4.1943407 4.1943407 4.1943407 4.1943407 0.000000 1.5201647 2.3662503
## X3908 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.9007798 0.0000000
## X3909 0.0000000 4.1943407 4.1943407 4.1943407 0.000000 1.5201647 2.3662503
## X3910 4.1943407 0.0000000 4.1943407 4.1943407 0.000000 1.5201647 2.3662503
## X3911 4.1943407 4.1943407 0.0000000 4.1943407 0.000000 1.5201647 2.3662503
## X3915 4.1943407 4.1943407 4.1943407 0.0000000 0.000000 1.5201647 2.3662503
## X3916 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 3.0690331
## X3917 1.5201647 1.5201647 1.5201647 1.5201647 0.000000 0.0000000 0.8576068
## X3919 2.3662503 2.3662503 2.3662503 2.3662503 3.069033 0.8576068 0.0000000
## X3920 1.9386314 1.9386314 1.9386314 1.9386314 2.514410 0.7026242 2.1873718
## X3921 2.1592202 2.1592202 2.1592202 2.1592202 2.800514 0.7825725 2.4362633
## X3923 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.2368140 0.0000000
## X3924 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X3925 4.1943407 4.1943407 4.1943407 4.1943407 0.000000 1.5201647 2.3662503
## X3926 1.4970675 1.4970675 1.4970675 1.4970675 0.000000 1.0851748 0.8445764
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## X4001 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X4005 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X4006 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X4008 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.4465342 0.0000000
## X4009 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X4010 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 2.1345566 0.0000000
## X4012 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X4013 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X4015 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X4016 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X4202 2.0179326 2.0179326 2.0179326 2.0179326 2.617264 0.7313654 2.2768477
## X4203 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X4409 2.0861918 2.0861918 2.0861918 2.0861918 0.000000 1.5122095 1.1769325
## X4415 2.0686986 2.0686986 2.0686986 2.0686986 0.000000 0.7497646 1.1670636
## X4416 2.1592202 2.1592202 2.1592202 2.1592202 0.000000 2.3477176 1.2181316
## X4418 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X4420 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 4.0793819 0.0000000
## X4421 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 2.1345566 0.0000000
## X4602 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X4804 4.1943407 4.1943407 4.1943407 4.1943407 0.000000 1.5201647 2.3662503
## X4808 1.9934707 1.9934707 1.9934707 1.9934707 2.585537 0.7224997 2.2492473
## X4818 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X4819 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X4821 0.0000000 0.0000000 0.0000000 0.0000000 3.865449 0.0000000 1.6813424
## X4822 4.1943407 4.1943407 4.1943407 4.1943407 0.000000 1.5201647 2.3662503
## X4823 3.1513815 3.1513815 3.1513815 3.1513815 0.000000 1.1421632 1.7778621
## X4901 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.4465342 0.0000000
## X4902 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.4465342 0.0000000
## X4907 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.4465342 0.0000000
## X4911 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.9007798 0.0000000
## X5111 3.5858510 3.5858510 3.5858510 3.5858510 0.000000 1.2996288 2.0229692
## X5112 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X5205 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X5206 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X5208 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X5209 0.0000000 0.0000000 0.0000000 0.0000000 3.865449 0.0000000 1.6813424
## X5210 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X5211 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X5402 0.0000000 0.0000000 0.0000000 0.0000000 4.937404 0.0000000 2.1476067
## X5407 1.4835421 1.4835421 1.4835421 1.4835421 1.924158 1.0753708 1.6738921
## X5408 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X5505 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 3.2631993 0.0000000
## X5508 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.7529214 0.0000000
## X5509 0.0000000 0.0000000 0.0000000 0.0000000 4.395716 1.2283322 1.9119907
## X5511 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 4.0793819 0.0000000
## X5512 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.3797003 0.0000000
## X5513 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X5514 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X5515 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X5516 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X5601 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.4465342 0.0000000
## X5603 2.2477256 2.2477256 2.2477256 2.2477256 0.000000 0.8146497 1.2680622
## X5609 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 4.0793819 0.0000000
## X5806 0.0000000 0.0000000 0.0000000 0.0000000 3.865449 0.0000000 1.6813424
## X5807 0.0000000 0.0000000 0.0000000 0.0000000 3.865449 0.0000000 1.6813424
## X5903 4.1943407 4.1943407 4.1943407 4.1943407 0.000000 1.5201647 2.3662503
## X5907 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X5911 0.0000000 0.0000000 0.0000000 0.0000000 3.525146 0.9850619 1.5333219
## X6002 1.1809994 1.1809994 1.1809994 1.1809994 1.531759 0.8560686 1.3325316
## X6101 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X6103 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X6104 0.0000000 0.0000000 0.0000000 0.0000000 2.983232 0.8336307 1.2976077
## X6105 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X6106 0.0000000 0.0000000 0.0000000 0.0000000 2.983232 0.8336307 1.2976077
## X6107 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X6109 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X6110 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.5073773 0.0000000
## X6111 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X6112 0.0000000 0.0000000 0.0000000 0.0000000 4.684847 1.3091263 2.0377529
## X6114 0.0000000 0.0000000 0.0000000 0.0000000 3.486769 0.9743380 1.5166293
## X6115 0.0000000 0.0000000 0.0000000 0.0000000 2.850399 0.7965122 1.2398299
## X6117 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X6201 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X6202 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X6203 0.0000000 0.0000000 0.0000000 0.0000000 3.752264 0.0000000 1.6321104
## X6204 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X6205 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 0.9007798 0.0000000
## X6206 0.0000000 0.0000000 0.0000000 0.0000000 2.419319 1.3521041 1.0523244
## X6210 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
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## X6211 0.0000000 0.0000000 0.0000000 0.0000000 2.969395 0.0000000 1.2915891
## X6212 1.4032349 1.4032349 1.4032349 1.4032349 1.819999 0.5085795 1.5832811
## X6217 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X6302 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X6303 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X6304 0.0000000 0.0000000 0.0000000 0.0000000 7.055790 0.0000000 3.0690331
## X6305 2.3662503 2.3662503 2.3662503 2.3662503 3.069033 0.8576068 2.6698565
## X6306 4.1943407 4.1943407 4.1943407 4.1943407 0.000000 1.5201647 2.3662503
## X6307 0.0000000 0.0000000 0.0000000 0.0000000 6.114286 0.0000000 2.6595103
## X6401 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.4465342 0.0000000
## X6403 0.0000000 0.0000000 0.0000000 0.0000000 0.000000 1.2454137 0.0000000
## X6404 4.1943407 4.1943407 4.1943407 4.1943407 0.000000 1.5201647 2.3662503
##           X3920      X3921      X3923     X3924     X3925      X3926    X4001
## X102  0.0000000  0.0000000  0.0000000   0.00000 0.0000000  1.4245557 0.000000
## X210  1.8905177  0.0000000  3.3278425   0.00000 0.0000000  0.0000000 0.000000
## X401  0.9442797  1.0517251  0.0000000   0.00000 2.0430009  1.4584014 0.000000
## X403  0.8556804  0.0000000  1.5062362   0.00000 0.0000000  0.6607818 0.000000
## X406  0.0000000  0.0000000  4.5256092   0.00000 0.0000000  1.9853678 0.000000
## X510  0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X602  0.0000000  0.0000000  0.0000000   0.00000 0.0000000  7.6853300 0.000000
## X603  0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X702  0.0000000  0.5358856  2.5408134   0.00000 0.0000000  1.8577519 0.000000
## X703  0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X709  0.0000000  0.6672271  1.0545164   0.00000 0.0000000  0.4626142 0.000000
## X712  0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X713  0.0000000  0.5645831  0.8922927   0.00000 0.0000000  1.1743422 0.000000
## X804  0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X805  0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X808  0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X809  0.0000000  0.0000000  0.0000000   0.00000 0.0000000  1.4245557 0.000000
## X813  0.0000000  0.0000000  9.1575950   0.00000 0.0000000  0.0000000 0.000000
## X901  0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X904  4.9760710  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X1001 0.0000000  1.2239985  3.8689312  28.08213 0.0000000  1.6972883 0.000000
## X1003 0.6449037  0.7182843  2.2704193  16.47952 1.3952830  2.9880841 0.000000
## X1005 0.0000000  0.0000000  4.3984167  31.92534 0.0000000  0.9647857 0.000000
## X1102 1.9386314  2.1592202  0.0000000   0.00000 4.1943407  1.4970675 0.000000
## X1108 1.9386314  2.1592202  0.0000000   0.00000 4.1943407  1.4970675 0.000000
## X1202 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X1208 1.9386314  2.1592202  0.0000000   0.00000 4.1943407  1.4970675 0.000000
## X1213 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.8286875 0.000000
## X1214 0.0000000  0.7142367  1.1288126   0.00000 0.0000000  0.4952077 0.000000
## X1302 0.0000000  0.6370279  1.0067881   0.00000 0.0000000  0.8833520 0.000000
## X1507 0.0000000  0.0000000  5.3710326   0.00000 0.0000000  0.0000000 0.000000
## X1514 0.0000000  0.0000000  5.3710326   0.00000 0.0000000  0.0000000 0.000000
## X1517 0.9442797  1.0517251  0.0000000   0.00000 2.0430009  1.4584014 0.000000
## X1601 1.8905177  0.0000000  3.3278425   0.00000 0.0000000  0.0000000 0.000000
## X1602 0.9326931  0.0000000  1.6418003   0.00000 0.0000000  0.7202532 0.000000
## X1704 0.8158613  0.0000000  4.3084302  20.84810 0.0000000  1.2600647 0.000000
## X1806 1.1410276  0.6354299  3.0127873  14.57859 1.2343360  1.3217041 0.000000
## X1901 0.5471753  0.6094358  2.8895402   0.00000 1.1838417  1.2676361 0.000000
## X1902 0.0000000  0.0000000  5.3710326   0.00000 0.0000000  0.0000000 0.000000
## X1905 1.0393113  1.1575695  1.8294754   0.00000 1.1243013  1.2038817 1.458221
## X2001 0.0000000  0.0000000  5.3710326   0.00000 0.0000000  0.0000000 0.000000
## X2002 0.0000000  0.0000000  5.3710326   0.00000 0.0000000  0.0000000 0.000000
## X2003 0.0000000  0.0000000  5.3710326   0.00000 0.0000000  0.0000000 0.000000
## X2004 0.0000000  0.0000000  5.3710326   0.00000 0.0000000  0.0000000 0.000000
## X2005 0.0000000  0.0000000  4.0339913   0.00000 0.0000000  1.1798013 0.000000
## X2006 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  1.3587373 0.000000
## X2007 0.0000000  0.0000000  2.0221101   0.00000 0.0000000  0.8870934 0.000000
## X2008 1.0943506  1.2188715  1.9263601   0.00000 1.1838417  1.2676361 0.000000
## X2101 0.0000000  0.0000000  5.3710326   0.00000 0.0000000  0.0000000 0.000000
## X2102 1.3450397  0.0000000  0.0000000   0.00000 0.0000000  1.0386790 0.000000
## X2103 1.8905177  0.0000000  3.3278425   0.00000 0.0000000  0.0000000 0.000000
## X2104 4.9760710  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X2106 1.9123143  1.0649540  1.6831038   0.00000 2.0686986  0.7383728 0.000000
## X2202 1.0884686  1.2123206  1.9160093   0.00000 2.3549622  0.8405474 0.000000
## X2206 0.0000000  0.0000000  9.1575950   0.00000 0.0000000  0.0000000 0.000000
## X2208 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  1.2264910 0.000000
## X2209 0.0000000  0.0000000  5.3710326   0.00000 0.0000000  0.0000000 0.000000
## X2302 4.9760710  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X2309 1.9386314  2.1592202  0.0000000   0.00000 4.1943407  1.4970675 0.000000
## X2402 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  1.4245557 0.000000
## X2403 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  1.4245557 0.000000
## X2507 0.0000000  0.0000000  7.1945155   0.00000 0.0000000  0.0000000 0.000000
## X2508 0.9442797  1.0517251  0.0000000   0.00000 2.0430009  1.4584014 0.000000
## X2512 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X2517 0.0000000  0.0000000  1.1683105   0.00000 0.0000000  1.5376057 0.000000
## X2519 1.9386314  2.1592202  0.0000000   0.00000 4.1943407  1.4970675 0.000000
```

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## X2520 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X2522 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X2525 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X2530 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  1.1542556 0.000000
## X2602 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X2606 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  1.4245557 0.000000
## X2607 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X2608 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X2710 4.9760710  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X2713 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X2714 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X2716 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  1.4059996 0.000000
## X2804 1.5862880  0.8833922  0.0000000   0.00000 1.7160098  1.2249788 0.000000
## X2811 1.5862880  0.8833922  0.0000000   0.00000 1.7160098  1.2249788 0.000000
## X2825 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X2826 1.9386314  2.1592202  0.0000000   0.00000 4.1943407  1.4970675 0.000000
## X2832 1.9386314  2.1592202  0.0000000   0.00000 4.1943407  1.4970675 0.000000
## X2833 1.9386314  2.1592202  0.0000000   0.00000 4.1943407  1.4970675 0.000000
## X2835 1.9386314  2.1592202  0.0000000   0.00000 4.1943407  1.4970675 0.000000
## X2836 0.0000000 12.7500683  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X2901 1.5862880  0.8833922  0.0000000   0.00000 1.7160098  1.2249788 0.000000
## X2903 1.7595002  1.9597063  0.0000000   0.00000 0.0000000  1.3587373 4.937404
## X2907 1.9386314  2.1592202  0.0000000   0.00000 4.1943407  1.4970675 0.000000
## X2915 1.9386314  2.1592202  0.0000000   0.00000 4.1943407  1.4970675 0.000000
## X2933 1.9386314  2.1592202  0.0000000   0.00000 4.1943407  1.4970675 0.000000
## X3105 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X3202 1.9386314  2.1592202  0.0000000   0.00000 4.1943407  1.4970675 0.000000
## X3204 0.9213868  1.0262273  0.0000000   0.00000 1.9934707  1.4230443 0.000000
## X3205 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X3206 2.1873718  2.4362633  0.0000000   0.00000 2.3662503  0.8445764 3.069033
## X3207 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X3208 1.6220816  1.8066514  0.0000000   0.00000 0.0000000  0.0000000 4.551788
## X3209 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X3210 1.9386314  2.1592202  0.0000000   0.00000 4.1943407  1.4970675 0.000000
## X3211 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X3212 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X3214 1.7595002  1.9597063  0.0000000   0.00000 0.0000000  1.3587373 4.937404
## X3215 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X3302 1.1845166  1.3192976  2.0850809   0.00000 2.5627679  0.9147185 0.000000
## X3303 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  1.4245557 0.000000
## X3304 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  1.4245557 0.000000
## X3305 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  1.2096690 0.000000
## X3307 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  1.4245557 0.000000
## X3402 0.6735262  0.7501636  1.1855933   0.00000 1.4572094  1.0402342 0.000000
## X3403 0.8720476  1.9425479  0.0000000   0.00000 1.8867224  1.3468420 0.000000
## X3506 1.3591147  0.7568810  1.1962098   0.00000 0.0000000  0.5247745 1.906928
## X3507 1.1845166  1.3192976  2.0850809   0.00000 2.5627679  0.9147185 0.000000
## X3605 4.9760710  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X3701 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X3707 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X3802 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  4.5326447 0.000000
## X3808 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  1.4245557 0.000000
## X3809 0.7537823  0.8395517  0.0000000   0.00000 1.6308484  1.1641864 0.000000
## X3810 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X3811 0.0000000 12.7500683  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X3814 2.1873718  2.4362633  0.0000000   0.00000 2.3662503  0.8445764 3.069033
## X3815 1.9386314  2.1592202  0.0000000   0.00000 4.1943407  1.4970675 0.000000
## X3816 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  1.4245557 0.000000
## X3819 0.0000000 12.7500683  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X3820 0.0000000 12.7500683  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X3823 4.9760710  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X3902 1.9386314  2.1592202  0.0000000   0.00000 4.1943407  1.4970675 0.000000
## X3908 0.0000000  0.0000000  2.0221101   0.00000 0.0000000  0.8870934 0.000000
## X3909 1.9386314  2.1592202  0.0000000   0.00000 4.1943407  1.4970675 0.000000
## X3910 1.9386314  2.1592202  0.0000000   0.00000 4.1943407  1.4970675 0.000000
## X3911 1.9386314  2.1592202  0.0000000   0.00000 4.1943407  1.4970675 0.000000
## X3915 1.9386314  2.1592202  0.0000000   0.00000 4.1943407  1.4970675 0.000000
## X3916 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X3917 0.7026242  0.7825725  1.2368140   0.00000 1.5201647  1.0851748 0.000000
## X3919 2.1873718  2.4362633  0.0000000   0.00000 2.3662503  0.8445764 3.069033
## X3920 0.0000000  1.9959927  0.0000000   0.00000 1.9386314  0.6919486 2.514410
## X3921 1.9959927  0.0000000  0.0000000   0.00000 2.1592202  0.7706822 2.800514
## X3923 0.0000000  0.0000000  0.0000000  40.30512 0.0000000  1.2180220 0.000000
## X3924 0.0000000  0.0000000 40.3051186   0.00000 0.0000000  0.0000000 0.000000
## X3925 1.9386314  2.1592202  0.0000000   0.00000 0.0000000  1.4970675 0.000000
## X3926 0.6919486  0.7706822  1.2180220   0.00000 1.4970675  0.0000000 0.000000
## X4001 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X4005 4.9760710  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X4006 4.9760710  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
```

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## X4008 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  1.4245557 0.000000
## X4009 4.9760710  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X4010 0.0000000  0.0000000  4.7917486   0.00000 0.0000000  0.0000000 0.000000
## X4012 4.9760710  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X4013 4.9760710  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X4015 0.0000000  0.0000000  0.0000000   0.00000 0.0000000 12.6293446 0.000000
## X4016 3.8145318  0.0000000  0.0000000   0.00000 0.0000000  2.9456913 0.000000
## X4202 1.8653861  2.0776401  0.0000000   0.00000 2.0179326  0.7202532 2.617264
## X4203 0.0000000  0.0000000  0.0000000   0.00000 0.0000000 12.6293446 0.000000
## X4409 0.9642426  1.0739594  3.3946727   0.00000 2.0861918  0.7446166 0.000000
## X4415 1.9123143  1.0649540  1.6831038   0.00000 2.0686986  0.7383728 0.000000
## X4416 0.9979964  1.1115539  1.7567526   0.00000 2.1592202  0.7706822 0.000000
## X4418 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X4420 0.0000000  0.0000000  9.1575950   0.00000 0.0000000  0.0000000 0.000000
## X4421 0.0000000  0.0000000  2.3958743   0.00000 0.0000000  1.0510622 0.000000
## X4602 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X4804 1.9386314  2.1592202  0.0000000   0.00000 4.1943407  1.4970675 0.000000
## X4808 1.8427736  2.0524545  0.0000000   0.00000 1.9934707  1.4230443 2.585537
## X4818 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X4819 0.0000000  0.0000000  5.3710326   0.00000 0.0000000  0.0000000 0.000000
## X4821 1.3774974  1.5342369  2.4247818   0.00000 0.0000000  0.0000000 3.865449
## X4822 1.9386314  2.1592202  0.0000000   0.00000 4.1943407  1.4970675 0.000000
## X4823 1.4565745  1.6223118  0.0000000   0.00000 3.1513815  2.2496187 0.000000
## X4901 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  1.4245557 0.000000
## X4902 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  1.4245557 0.000000
## X4907 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  1.4245557 0.000000
## X4911 0.0000000  0.0000000  2.0221101   0.00000 0.0000000  0.8870934 0.000000
## X5111 1.6573868  1.8459738  0.0000000   0.00000 3.5858510  1.2798823 0.000000
## X5112 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X5205 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X5206 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X5208 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X5209 1.3774974  1.5342369  2.4247818   0.00000 0.0000000  0.0000000 3.865449
## X5210 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X5211 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X5402 1.7595002  1.9597063  0.0000000   0.00000 0.0000000  1.3587373 4.937404
## X5407 1.3713943  1.5274389  0.0000000   0.00000 1.4835421  1.0590318 1.924158
## X5408 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X5505 0.0000000  0.0000000  7.3253875   0.00000 0.0000000  0.0000000 0.000000
## X5508 0.0000000  0.0000000  1.6901902   0.00000 0.0000000  1.4829632 0.000000
## X5509 1.5664638  1.7447051  2.7574162   0.00000 0.0000000  0.0000000 4.395716
## X5511 0.0000000  0.0000000  9.1575950   0.00000 0.0000000  0.0000000 0.000000
## X5512 0.0000000  0.0000000  6.1944296   0.00000 0.0000000  0.0000000 0.000000
## X5513 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X5514 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X5515 0.0000000  0.0000000  4.2395637   0.00000 0.0000000  0.0000000 0.000000
## X5516 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  0.0000000 0.000000
## X5601 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  1.4245557 0.000000
## X5603 1.0389036  1.1571159  1.8287610   0.00000 2.2477256  0.8022720 0.000000
## X5609 0.0000000  0.0000000  9.1575950   0.00000 0.0000000  0.0000000 0.000000
## X5806 1.3774974  1.5342369  2.4247818   0.00000 0.0000000  0.0000000 3.865449
## X5807 1.3774974  1.5342369  2.4247818   0.00000 0.0000000  0.0000000 3.865449
## X5903 1.9386314  2.1592202  0.0000000   0.00000 4.1943407  1.4970675 0.000000
## X5907 0.0000000  0.0000000  5.3710326   0.00000 0.0000000  0.0000000 0.000000
## X5911 1.2562266  1.3991672  2.2113109   0.00000 0.0000000  0.0000000 3.525146
## X6002 1.0917232  1.2159451  0.9608675   0.00000 1.1809994  0.8430617 1.531759
## X6101 0.0000000  0.0000000  5.3710326   0.00000 0.0000000  0.0000000 0.000000
## X6103 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X6104 1.0631098  1.1840764  0.0000000   0.00000 0.0000000  0.8209647 2.983232
## X6105 0.0000000  0.0000000  5.3710326   0.00000 0.0000000  0.0000000 0.000000
## X6106 1.0631098  1.1840764  0.0000000   0.00000 0.0000000  0.8209647 2.983232
## X6107 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X6109 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X6110 0.0000000  0.0000000  6.7676612   0.00000 0.0000000  0.0000000 0.000000
## X6111 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X6112 1.6694988  1.8594640  0.0000000   0.00000 0.0000000  0.0000000 4.684847
## X6114 1.2425507  1.3839351  2.1872374   0.00000 0.0000000  0.0000000 3.486769
## X6115 1.0157734  1.1313537  1.7880451  25.95658 0.0000000  0.7844101 2.850399
## X6117 0.0000000  0.0000000  5.3710326   0.00000 0.0000000  0.0000000 0.000000
## X6201 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X6202 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X6203 1.3371625  1.4893124  2.3537809   0.00000 0.0000000  0.0000000 3.752264
## X6204 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X6205 0.0000000  0.0000000  2.0221101   0.00000 0.0000000  0.8870934 0.000000
## X6206 0.8621532  0.9602537  1.5176301   0.00000 0.0000000  0.6657802 2.419319
## X6210 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X6211 1.0581789  2.3571688  1.8626909   0.00000 0.0000000  0.0000000 2.969395
## X6212 1.2971582  2.1671336  1.1416794   0.00000 1.4032349  0.5008523 1.819999
## X6217 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
```

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## X6302 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X6303 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X6304 2.5144100  2.8005143  0.0000000   0.00000 0.0000000  0.0000000 7.055790
## X6305 2.1873718  2.4362633  0.0000000   0.00000 2.3662503  0.8445764 3.069033
## X6306 1.9386314  2.1592202  0.0000000   0.00000 4.1943407  1.4970675 0.000000
## X6307 2.1788946  2.4268220  0.0000000   0.00000 0.0000000  1.6826056 6.114286
## X6401 0.0000000  0.0000000  0.0000000   0.00000 0.0000000  1.4245557 0.000000
## X6403 0.0000000  1.7689674  0.0000000   0.00000 0.0000000  1.2264910 0.000000
## X6404 1.9386314  2.1592202  0.0000000   0.00000 4.1943407  1.4970675 0.000000
##           X4005     X4006     X4008     X4009     X4010     X4012     X4013
## X102   0.000000  0.000000 3.7978668  0.000000 0.0000000  0.000000  0.000000
## X210  10.498828 10.498828 0.0000000 10.498828 2.8716790 10.498828 10.498828
## X401   0.000000  0.000000 1.9440463  0.000000 0.0000000  0.000000  0.000000
## X403   4.751937  4.751937 1.7616411  4.751937 1.2997694  4.751937  4.751937
## X406   0.000000  0.000000 0.0000000  0.000000 3.9052617  0.000000  0.000000
## X510   0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X602   0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X603   0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X702   0.000000  0.000000 0.9905484  0.000000 1.4616887  0.000000  0.000000
## X703   0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X709   0.000000  0.000000 0.0000000  0.000000 3.6398766  0.000000  0.000000
## X712   0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X713   0.000000  0.000000 0.0000000  0.000000 2.3099468  0.000000  0.000000
## X804   0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X805   0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X808   0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X809   0.000000  0.000000 3.7978668  0.000000 0.0000000  0.000000  0.000000
## X813   0.000000  0.000000 0.0000000  0.000000 7.9023179  0.000000  0.000000
## X901   0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X904  27.634216 27.634216 0.0000000 27.634216 0.0000000 27.634216 27.634216
## X1001  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X1003  0.000000  0.000000 1.3277012  0.000000 0.0000000  0.000000  0.000000
## X1005  0.000000  0.000000 0.0000000  0.000000 1.8977524  0.000000  0.000000
## X1102  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X1108  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X1202  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X1208  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X1213  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X1214  0.000000  0.000000 0.0000000  0.000000 3.8963248  0.000000  0.000000
## X1302  0.000000  0.000000 0.0000000  0.000000 2.6063494  0.000000  0.000000
## X1507  0.000000  0.000000 0.0000000  0.000000 4.6347986  0.000000  0.000000
## X1514  0.000000  0.000000 0.0000000  0.000000 4.6347986  0.000000  0.000000
## X1517  0.000000  0.000000 1.9440463  0.000000 0.0000000  0.000000  0.000000
## X1601 10.498828 10.498828 0.0000000 10.498828 2.8716790 10.498828 10.498828
## X1602  5.179621  5.179621 1.9201921  5.179621 1.4167511  5.179621  5.179621
## X1704  4.530805  4.530805 1.6796629  4.530805 1.2392846  4.530805  4.530805
## X1806  3.168286  3.168286 1.1745499  3.168286 0.8666037  3.168286  3.168286
## X1901  0.000000  0.000000 1.1265013  0.000000 1.6623054  0.000000  0.000000
## X1902  0.000000  0.000000 0.0000000  0.000000 4.6347986  0.000000  0.000000
## X1905  0.000000  0.000000 1.0698448  0.000000 0.7893506  0.000000  0.000000
## X2001  0.000000  0.000000 0.0000000  0.000000 4.6347986  0.000000  0.000000
## X2002  0.000000  0.000000 0.0000000  0.000000 4.6347986  0.000000  0.000000
## X2003  0.000000  0.000000 0.0000000  0.000000 4.6347986  0.000000  0.000000
## X2004  0.000000  0.000000 0.0000000  0.000000 4.6347986  0.000000  0.000000
## X2005  0.000000  0.000000 1.5726715  0.000000 2.3206891  0.000000  0.000000
## X2006  0.000000  0.000000 3.6223945  0.000000 0.0000000  0.000000  0.000000
## X2007  0.000000  0.000000 2.3649893  0.000000 1.7449299  0.000000  0.000000
## X2008  3.038677  3.038677 1.1265013  3.038677 0.8311527  3.038677  3.038677
## X2101  0.000000  0.000000 0.0000000  0.000000 4.6347986  0.000000  0.000000
## X2102  7.469557  7.469557 2.7691172  7.469557 0.0000000  7.469557  7.469557
## X2103 10.498828 10.498828 0.0000000 10.498828 2.8716790 10.498828 10.498828
## X2104 27.634216 27.634216 0.0000000 27.634216 0.0000000 27.634216 27.634216
## X2106  5.309927  5.309927 0.0000000  5.309927 1.4523929  5.309927  5.309927
## X2202  0.000000  0.000000 0.0000000  0.000000 1.6533728  0.000000  0.000000
## X2206  0.000000  0.000000 0.0000000  0.000000 7.9023179  0.000000  0.000000
## X2208  0.000000  0.000000 3.2698252  0.000000 0.0000000  0.000000  0.000000
## X2209  0.000000  0.000000 0.0000000  0.000000 4.6347986  0.000000  0.000000
## X2302 27.634216 27.634216 0.0000000 27.634216 0.0000000 27.634216 27.634216
## X2309  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X2402  0.000000  0.000000 3.7978668  0.000000 0.0000000  0.000000  0.000000
## X2403  0.000000  0.000000 3.7978668  0.000000 0.0000000  0.000000  0.000000
## X2507  0.000000  0.000000 0.0000000  0.000000 6.2083276  0.000000  0.000000
## X2508  0.000000  0.000000 1.9440463  0.000000 0.0000000  0.000000  0.000000
## X2512  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X2517  0.000000  0.000000 1.3664149  0.000000 2.0163298  0.000000  0.000000
## X2519  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X2520  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X2522  0.000000  0.000000 0.0000000  0.000000 6.9536834  0.000000  0.000000
## X2525  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
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## X2530  0.000000  0.000000 3.0772452  0.000000 0.0000000  0.000000  0.000000
## X2602  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X2606  0.000000  0.000000 3.7978668  0.000000 0.0000000  0.000000  0.000000
## X2607  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X2608  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X2710 27.634216 27.634216 0.0000000 27.634216 0.0000000 27.634216 27.634216
## X2713  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X2714  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X2716  0.000000  0.000000 1.8741945  0.000000 0.0000000  0.000000  0.000000
## X2804  4.404646  4.404646 1.6328933  4.404646 0.0000000  4.404646  4.404646
## X2811  4.404646  4.404646 1.6328933  4.404646 0.0000000  4.404646  4.404646
## X2825  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X2826  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X2832  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X2833  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X2835  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X2836  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X2901  4.404646  4.404646 1.6328933  4.404646 0.0000000  4.404646  4.404646
## X2903  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X2907  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X2915  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X2933  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3105  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3202  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3204  0.000000  0.000000 1.8969151  0.000000 0.0000000  0.000000  0.000000
## X3205  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3206  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3207  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3208  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3209  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3210  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3211  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3212  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3214  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3215  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3302  0.000000  0.000000 0.0000000  0.000000 1.7992690  0.000000  0.000000
## X3303  0.000000  0.000000 3.7978668  0.000000 0.0000000  0.000000  0.000000
## X3304  0.000000  0.000000 3.7978668  0.000000 0.0000000  0.000000  0.000000
## X3305  0.000000  0.000000 3.2249778  0.000000 0.0000000  0.000000  0.000000
## X3307  0.000000  0.000000 3.7978668  0.000000 0.0000000  0.000000  0.000000
## X3402  0.000000  0.000000 1.3866282  0.000000 1.0230786  0.000000  0.000000
## X3403  0.000000  0.000000 1.7953373  0.000000 0.0000000  0.000000  0.000000
## X3506  3.773851  3.773851 1.3990449  3.773851 1.0322399  3.773851  3.773851
## X3507  0.000000  0.000000 0.0000000  0.000000 1.7992690  0.000000  0.000000
## X3605 27.634216 27.634216 0.0000000 27.634216 0.0000000 27.634216 27.634216
## X3701  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3707  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3802  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3808  0.000000  0.000000 3.7978668  0.000000 0.0000000  0.000000  0.000000
## X3809  0.000000  0.000000 1.5518568  0.000000 1.1449871  0.000000  0.000000
## X3810  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3811  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3814  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3815  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3816  0.000000  0.000000 3.7978668  0.000000 0.0000000  0.000000  0.000000
## X3819  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3820  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3823 27.634216 27.634216 0.0000000 27.634216 0.0000000 27.634216 27.634216
## X3902  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3908  0.000000  0.000000 2.3649893  0.000000 1.7449299  0.000000  0.000000
## X3909  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3910  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3911  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3915  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3916  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3917  0.000000  0.000000 1.4465342  0.000000 2.1345566  0.000000  0.000000
## X3919  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3920  4.976071  4.976071 0.0000000  4.976071 0.0000000  4.976071  4.976071
## X3921  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3923  0.000000  0.000000 0.0000000  0.000000 4.7917486  0.000000  0.000000
## X3924  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3925  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X3926  0.000000  0.000000 1.4245557  0.000000 0.0000000  0.000000  0.000000
## X4001  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X4005  0.000000 27.634216 0.0000000 27.634216 0.0000000 27.634216 27.634216
## X4006 27.634216  0.000000 0.0000000 27.634216 0.0000000 27.634216 27.634216
## X4008  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X4009 27.634216 27.634216 0.0000000  0.000000 0.0000000 27.634216 27.634216
## X4010  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
```

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## X4012 27.634216 27.634216 0.0000000 27.634216 0.0000000  0.000000 27.634216
## X4013 27.634216 27.634216 0.0000000 27.634216 0.0000000 27.634216  0.000000
## X4015  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X4016 21.183695 21.183695 0.0000000 21.183695 0.0000000 21.183695 21.183695
## X4202  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X4203  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X4409  0.000000  0.000000 0.0000000  0.000000 2.9293490  0.000000  0.000000
## X4415  5.309927  5.309927 0.0000000  5.309927 1.4523929  5.309927  5.309927
## X4416  0.000000  0.000000 0.0000000  0.000000 3.0318925  0.000000  0.000000
## X4418  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X4420  0.000000  0.000000 0.0000000  0.000000 7.9023179  0.000000  0.000000
## X4421  0.000000  0.000000 2.8021309  0.000000 2.0674603  0.000000  0.000000
## X4602  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X4804  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X4808  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X4818  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X4819  0.000000  0.000000 0.0000000  0.000000 4.6347986  0.000000  0.000000
## X4821  0.000000  0.000000 0.0000000  0.000000 2.0924053  0.000000  0.000000
## X4822  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X4823  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X4901  0.000000  0.000000 3.7978668  0.000000 0.0000000  0.000000  0.000000
## X4902  0.000000  0.000000 3.7978668  0.000000 0.0000000  0.000000  0.000000
## X4907  0.000000  0.000000 3.7978668  0.000000 0.0000000  0.000000  0.000000
## X4911  0.000000  0.000000 2.3649893  0.000000 1.7449299  0.000000  0.000000
## X5111  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X5112  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X5205  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X5206  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X5208  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X5209  0.000000  0.000000 0.0000000  0.000000 2.0924053  0.000000  0.000000
## X5210  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X5211  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X5402  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X5407  0.000000  0.000000 1.4116854  0.000000 0.0000000  0.000000  0.000000
## X5408  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X5505  0.000000  0.000000 0.0000000  0.000000 6.3212603  0.000000  0.000000
## X5508  0.000000  0.000000 1.9767872  0.000000 1.4585079  0.000000  0.000000
## X5509  0.000000  0.000000 0.0000000  0.000000 2.3794438  0.000000  0.000000
## X5511  0.000000  0.000000 0.0000000  0.000000 7.9023179  0.000000  0.000000
## X5512  0.000000  0.000000 0.0000000  0.000000 5.3453291  0.000000  0.000000
## X5513  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X5514  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X5515  0.000000  0.000000 0.0000000  0.000000 3.6584259  0.000000  0.000000
## X5516  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X5601  0.000000  0.000000 3.7978668  0.000000 0.0000000  0.000000  0.000000
## X5603  0.000000  0.000000 0.0000000  0.000000 1.5780841  0.000000  0.000000
## X5609  0.000000  0.000000 0.0000000  0.000000 7.9023179  0.000000  0.000000
## X5806  0.000000  0.000000 0.0000000  0.000000 2.0924053  0.000000  0.000000
## X5807  0.000000  0.000000 0.0000000  0.000000 2.0924053  0.000000  0.000000
## X5903  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X5907  0.000000  0.000000 0.0000000  0.000000 4.6347986  0.000000  0.000000
## X5911  0.000000  0.000000 0.0000000  0.000000 1.9081959  0.000000  0.000000
## X6002  0.000000  0.000000 1.1237967  0.000000 0.8291571  0.000000  0.000000
## X6101  0.000000  0.000000 0.0000000  0.000000 4.6347986  0.000000  0.000000
## X6103  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X6104  0.000000  0.000000 2.1886896  0.000000 0.0000000  0.000000  0.000000
## X6105  0.000000  0.000000 0.0000000  0.000000 4.6347986  0.000000  0.000000
## X6106  0.000000  0.000000 2.1886896  0.000000 0.0000000  0.000000  0.000000
## X6107  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X6109  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X6110  0.000000  0.000000 0.0000000  0.000000 5.8399850  0.000000  0.000000
## X6111  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X6112  0.000000  0.000000 0.0000000  0.000000 2.5359531  0.000000  0.000000
## X6114  0.000000  0.000000 0.0000000  0.000000 1.8874223  0.000000  0.000000
## X6115  0.000000  0.000000 2.0912350  0.000000 0.0000000  0.000000  0.000000
## X6117  0.000000  0.000000 0.0000000  0.000000 4.6347986  0.000000  0.000000
## X6201  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X6202  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X6203  0.000000  0.000000 0.0000000  0.000000 2.0311369  0.000000  0.000000
## X6204  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X6205  0.000000  0.000000 2.3649893  0.000000 1.7449299  0.000000  0.000000
## X6206  0.000000  0.000000 1.7749670  0.000000 1.3096015  0.000000  0.000000
## X6210  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X6211  0.000000  0.000000 0.0000000  0.000000 1.6073630  0.000000  0.000000
## X6212  0.000000  0.000000 0.0000000  0.000000 0.9851842  0.000000  0.000000
## X6217  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X6302  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X6303  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X6304  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
```

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## X6305  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X6306  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X6307  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
## X6401  0.000000  0.000000 3.7978668  0.000000 0.0000000  0.000000  0.000000
## X6403  0.000000  0.000000 3.2698252  0.000000 0.0000000  0.000000  0.000000
## X6404  0.000000  0.000000 0.0000000  0.000000 0.0000000  0.000000  0.000000
##            X4015     X4016     X4202      X4203     X4409     X4415      X4416
## X102    0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X210    0.000000  8.048138 0.0000000   0.000000 2.0344158 4.0347135  0.0000000
## X401    0.000000  0.000000 0.9829061   0.000000 1.0161541 1.0076334  1.0517251
## X403    0.000000  3.642716 0.0000000   0.000000 0.9208110 1.8261795  0.0000000
## X406   46.924941 10.944850 0.0000000  46.924941 2.7666480 2.7434490  0.0000000
## X510    0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X602    0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X603    0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X702    8.781659  2.048251 1.0016408   8.781659 1.0355224 0.5134197  1.0717713
## X703    0.000000  0.000000 5.4151509   0.000000 0.0000000 0.0000000  5.7942987
## X709    0.000000  0.000000 0.6235676   0.000000 0.6446605 0.0000000  2.0016814
## X712    0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X713    0.000000  0.000000 1.5829203   0.000000 0.0000000 0.0000000  1.1291662
## X804    0.000000  0.000000 2.4301711   0.000000 0.0000000 0.0000000  0.0000000
## X805    0.000000  0.000000 2.0351973   0.000000 0.0000000 0.0000000  0.0000000
## X808    0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X809    0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X813    0.000000  0.000000 0.0000000   0.000000 5.5983257 0.0000000  5.7942987
## X901    0.000000  0.000000 2.3347904   0.000000 0.0000000 0.0000000  0.0000000
## X904    0.000000 21.183695 0.0000000   0.000000 0.0000000 5.3099273  0.0000000
## X1001   0.000000  0.000000 1.1439069   0.000000 0.0000000 0.0000000  0.0000000
## X1003  11.770683  2.745416 1.3425677  11.770683 0.6939908 0.6881716  1.4365685
## X1005   0.000000  0.000000 2.6009137   0.000000 0.0000000 0.0000000  1.3915096
## X1102   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
## X1108   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
## X1202   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X1208   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
## X1213   0.000000  0.000000 1.1170067   0.000000 0.0000000 0.0000000  0.0000000
## X1214   0.000000  0.000000 1.3350022   0.000000 0.6900801 0.0000000  2.1427100
## X1302   0.000000  0.000000 1.1906889   0.000000 0.6154827 0.0000000  1.9110837
## X1507   0.000000  0.000000 0.0000000   0.000000 3.2834817 3.2559489  0.0000000
## X1514   0.000000  0.000000 0.0000000   0.000000 3.2834817 3.2559489  0.0000000
## X1517   0.000000  0.000000 0.9829061   0.000000 1.0161541 1.0076334  1.0517251
## X1601   0.000000  8.048138 0.0000000   0.000000 2.0344158 4.0347135  0.0000000
## X1602   0.000000  3.970568 0.0000000   0.000000 1.0036855 1.9905388  0.0000000
## X1704   0.000000  3.473202 0.0000000   0.000000 0.8779610 0.8705991  0.9086945
## X1806   0.000000  2.428729 0.5938510   0.000000 1.2278773 1.2175814  1.2708597
## X1901   0.000000  0.000000 0.5695578   0.000000 1.7664712 1.1677727  1.2188715
## X1902   0.000000  0.000000 0.0000000   0.000000 3.2834817 3.2559489  0.0000000
## X1905   0.000000  0.000000 1.0818249   0.000000 1.1184188 0.5545203  1.1575695
## X2001   0.000000  0.000000 0.0000000   0.000000 3.2834817 3.2559489  0.0000000
## X2002   0.000000  0.000000 0.0000000   0.000000 3.2834817 3.2559489  0.0000000
## X2003   0.000000  0.000000 0.0000000   0.000000 3.2834817 3.2559489  0.0000000
## X2004   0.000000  0.000000 0.0000000   0.000000 3.2834817 3.2559489  0.0000000
## X2005   0.000000  0.000000 0.0000000   0.000000 1.6440733 0.8151437  0.8508124
## X2006   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X2007   0.000000  0.000000 0.0000000   0.000000 1.2361808 1.2258151  0.0000000
## X2008   0.000000  2.329375 0.5695578   0.000000 1.1776475 1.1677727  1.2188715
## X2101   0.000000  0.000000 0.0000000   0.000000 3.2834817 3.2559489  0.0000000
## X2102   0.000000  5.725975 0.0000000   0.000000 0.0000000 1.4352813  0.0000000
## X2103   0.000000  8.048138 0.0000000   0.000000 2.0344158 4.0347135  0.0000000
## X2104   0.000000 21.183695 0.0000000   0.000000 0.0000000 5.3099273  0.0000000
## X2106   0.000000  4.070458 0.9952694   0.000000 2.0578712 3.0609233  1.0649540
## X2202   0.000000  0.000000 2.2659862   0.000000 2.3426360 2.3229925  1.2123206
## X2206   0.000000  0.000000 0.0000000   0.000000 5.5983257 0.0000000  5.7942987
## X2208   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  1.7689674
## X2209   0.000000  0.000000 0.0000000   0.000000 3.2834817 3.2559489  0.0000000
## X2302   0.000000 21.183695 0.0000000   0.000000 0.0000000 5.3099273  0.0000000
## X2309   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
## X2402   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X2403   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X2507   0.000000  0.000000 0.0000000   0.000000 4.3982339 0.0000000  4.5521968
## X2508   0.000000  0.000000 0.9829061   0.000000 1.0161541 1.0076334  1.0517251
## X2512   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 12.7500683
## X2517   0.000000  0.000000 1.3817147   0.000000 0.7142264 0.0000000  1.4784565
## X2519   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
## X2520   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X2522   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  5.0987216
## X2525   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X2530   0.000000  0.000000 1.5558480   0.000000 0.0000000 0.0000000  0.0000000
## X2602   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X2606   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
```

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## X2607   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X2608   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X2710   0.000000 21.183695 0.0000000   0.000000 0.0000000 5.3099273  0.0000000
## X2713   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X2714   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X2716   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  1.0139355
## X2804   0.000000  3.376492 0.8255880   0.000000 0.8535145 1.6927153  0.8833922
## X2811   0.000000  3.376492 0.8255880   0.000000 0.8535145 1.6927153  0.8833922
## X2825   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X2826   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
## X2832   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
## X2833   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
## X2835   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
## X2836   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X2901   0.000000  3.376492 0.8255880   0.000000 0.8535145 1.6927153  0.8833922
## X2903   0.000000  0.000000 1.8314739   0.000000 0.0000000 0.0000000  0.0000000
## X2907   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
## X2915   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
## X2933   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
## X3105   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X3202   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
## X3204   0.000000  0.000000 0.9590767   0.000000 0.9915186 0.9832045  1.0262273
## X3205   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X3206   0.000000  0.000000 2.2768477   0.000000 1.1769325 1.1670636  1.2181316
## X3207   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X3208   0.000000  0.000000 1.6884340   0.000000 0.0000000 0.0000000  0.0000000
## X3209   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X3210   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
## X3211   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X3212   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X3214   0.000000  0.000000 1.8314739   0.000000 0.0000000 0.0000000  0.0000000
## X3215   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X3302   0.000000  0.000000 1.2329700   0.000000 2.5493536 2.5279767  1.3192976
## X3303   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X3304   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X3305   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X3307   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X3402   0.000000  0.000000 0.7010771   0.000000 1.4495838 1.4374287  0.7501636
## X3403   0.000000  0.000000 0.9077193   0.000000 0.9384240 0.9305551  0.9712740
## X3506   0.000000  2.892940 0.7073550   0.000000 0.7312821 1.4503003  0.0000000
## X3507   0.000000  0.000000 1.2329700   0.000000 2.5493536 2.5279767  1.3192976
## X3605   0.000000 21.183695 0.0000000   0.000000 0.0000000 5.3099273  0.0000000
## X3701   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X3707   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X3802   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X3808   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X3809   0.000000  0.000000 0.7846162   0.000000 0.8111568 0.8043551  1.6791035
## X3810   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X3811   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X3814   0.000000  0.000000 2.2768477   0.000000 1.1769325 1.1670636  1.2181316
## X3815   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
## X3816   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X3819   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X3820   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X3823   0.000000 21.183695 0.0000000   0.000000 0.0000000 5.3099273  0.0000000
## X3902   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
## X3908   0.000000  0.000000 0.0000000   0.000000 1.2361808 1.2258151  0.0000000
## X3909   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
## X3910   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
## X3911   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
## X3915   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
## X3916   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X3917   0.000000  0.000000 0.7313654   0.000000 1.5122095 0.7497646  2.3477176
## X3919   0.000000  0.000000 2.2768477   0.000000 1.1769325 1.1670636  1.2181316
## X3920   0.000000  3.814532 1.8653861   0.000000 0.9642426 1.9123143  0.9979964
## X3921   0.000000  0.000000 2.0776401   0.000000 1.0739594 1.0649540  1.1115539
## X3923   0.000000  0.000000 0.0000000   0.000000 3.3946727 1.6831038  1.7567526
## X3924   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X3925   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
## X3926  12.629345  2.945691 0.7202532  12.629345 0.7446166 0.7383728  0.7706822
## X4001   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X4005   0.000000 21.183695 0.0000000   0.000000 0.0000000 5.3099273  0.0000000
## X4006   0.000000 21.183695 0.0000000   0.000000 0.0000000 5.3099273  0.0000000
## X4008   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X4009   0.000000 21.183695 0.0000000   0.000000 0.0000000 5.3099273  0.0000000
## X4010   0.000000  0.000000 0.0000000   0.000000 2.9293490 1.4523929  3.0318925
## X4012   0.000000 21.183695 0.0000000   0.000000 0.0000000 5.3099273  0.0000000
## X4013   0.000000 21.183695 0.0000000   0.000000 0.0000000 5.3099273  0.0000000
## X4015   0.000000 69.622608 0.0000000 298.500000 0.0000000 0.0000000  0.0000000
```

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## X4016  69.622608  0.000000 0.0000000  69.622608 0.0000000 4.0704577  0.0000000
## X4202   0.000000  0.000000 0.0000000   0.000000 1.0036855 0.9952694  1.0388200
## X4203 298.500000 69.622608 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X4409   0.000000  0.000000 1.0036855   0.000000 0.0000000 2.0578712  2.1479188
## X4415   0.000000  4.070458 0.9952694   0.000000 2.0578712 0.0000000  1.0649540
## X4416   0.000000  0.000000 1.0388200   0.000000 2.1479188 1.0649540  0.0000000
## X4418   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X4420   0.000000  0.000000 0.0000000   0.000000 5.5983257 0.0000000  5.7942987
## X4421   0.000000  0.000000 0.0000000   0.000000 1.4646745 0.0000000  1.5159462
## X4602   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X4804   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
## X4808   0.000000  0.000000 1.9181534   0.000000 0.9915186 0.9832045  1.0262273
## X4818   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X4819   0.000000  0.000000 0.0000000   0.000000 3.2834817 3.2559489  0.0000000
## X4821   0.000000  0.000000 1.4338449   0.000000 1.4823466 1.4699168  0.0000000
## X4822   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
## X4823   0.000000  0.000000 1.5161567   0.000000 1.5674426 1.5542993  1.6223118
## X4901   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X4902   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X4907   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X4911   0.000000  0.000000 0.0000000   0.000000 1.2361808 1.2258151  0.0000000
## X5111   0.000000  0.000000 1.7251834   0.000000 1.7835400 1.7685846  3.6919476
## X5112   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 12.7500683
## X5205   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X5206   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X5208   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X5209   0.000000  0.000000 1.4338449   0.000000 1.4823466 1.4699168  0.0000000
## X5210   0.000000  0.000000 8.8259707   0.000000 0.0000000 0.0000000  0.0000000
## X5211   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X5402   0.000000  0.000000 1.8314739   0.000000 0.0000000 0.0000000  0.0000000
## X5407   0.000000  0.000000 1.4274920   0.000000 0.7378893 0.7317019  0.7637194
## X5408   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X5505   0.000000  0.000000 0.0000000   0.000000 4.4782400 0.0000000  4.6350036
## X5508   0.000000  0.000000 0.0000000   0.000000 1.0332677 1.0246036  0.0000000
## X5509   0.000000  0.000000 1.6305412   0.000000 1.6856963 0.0000000  1.7447051
## X5511   0.000000  0.000000 0.0000000   0.000000 5.5983257 0.0000000  5.7942987
## X5512   0.000000  0.000000 0.0000000   0.000000 3.7868517 1.8775491  1.9597063
## X5513   0.000000  0.000000 8.8259707   0.000000 0.0000000 0.0000000  0.0000000
## X5514   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X5515   0.000000  0.000000 0.0000000   0.000000 2.5917794 2.5700467  2.6825062
## X5516   0.000000  0.000000 8.8259707   0.000000 0.0000000 0.0000000  0.0000000
## X5601   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X5603   0.000000  0.000000 2.1628014   0.000000 2.2359608 2.2172118  1.1571159
## X5609   0.000000  0.000000 0.0000000   0.000000 5.5983257 0.0000000  5.7942987
## X5806   0.000000  0.000000 1.4338449   0.000000 1.4823466 1.4699168  0.0000000
## X5807   0.000000  0.000000 1.4338449   0.000000 1.4823466 1.4699168  0.0000000
## X5903   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
## X5907   0.000000  0.000000 0.0000000   0.000000 3.2834817 3.2559489  0.0000000
## X5911   0.000000  0.000000 2.6152269   0.000000 1.3518451 0.0000000  2.7983344
## X6002   0.000000  0.000000 1.1363807   0.000000 1.1748200 1.1649689  0.6079725
## X6101   0.000000  0.000000 0.0000000   0.000000 3.2834817 3.2559489  0.0000000
## X6103   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X6104   0.000000  0.000000 1.1065970   0.000000 0.0000000 0.0000000  0.0000000
## X6105   0.000000  0.000000 0.0000000   0.000000 3.2834817 3.2559489  0.0000000
## X6106   0.000000  0.000000 1.1065970   0.000000 0.0000000 0.0000000  0.0000000
## X6107   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X6109   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X6110   0.000000  0.000000 0.0000000   0.000000 4.1372861 2.0512970  2.1410571
## X6111   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X6112   0.000000  0.000000 1.7377909   0.000000 0.0000000 0.0000000  1.8594640
## X6114   0.000000  0.000000 2.5867562   0.000000 1.3371282 0.0000000  2.7678703
## X6115   0.000000  0.000000 1.0573242   0.000000 0.0000000 0.0000000  0.0000000
## X6117   0.000000  0.000000 0.0000000   0.000000 3.2834817 3.2559489  0.0000000
## X6201   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X6202   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X6203   0.000000  0.000000 1.3918600   0.000000 1.4389415 1.4268756  0.0000000
## X6204   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X6205   0.000000  0.000000 0.0000000   0.000000 1.2361808 1.2258151  0.0000000
## X6206   0.000000  0.000000 0.8974201   0.000000 0.9277764 0.0000000  0.9602537
## X6210   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X6211   0.000000  0.000000 2.2029288   0.000000 1.1387228 1.1291744  0.0000000
## X6212   0.000000  0.000000 2.0253288   0.000000 1.3958919 1.3841871  0.7223779
## X6217   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X6302   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X6303   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X6304   0.000000  0.000000 2.6172639   0.000000 0.0000000 0.0000000  0.0000000
## X6305   0.000000  0.000000 2.2768477   0.000000 1.1769325 1.1670636  1.2181316
## X6306   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
## X6307  39.769024  9.275792 2.2680239  39.769024 0.0000000 0.0000000  0.0000000
```

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## X6401   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X6403   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000  0.0000000
## X6404   0.000000  0.000000 2.0179326   0.000000 2.0861918 2.0686986  2.1592202
##            X4418     X4420     X4421      X4602     X4804     X4808    X4818
## X102    0.000000  0.000000 2.8021309   0.000000 0.0000000 0.0000000 0.000000
## X210    0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X401    0.000000  0.000000 1.4343511   0.000000 2.0430009 0.9709911 0.000000
## X403    0.000000  0.000000 1.2997694   0.000000 0.0000000 0.0000000 0.000000
## X406    0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X510    0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X602    0.000000  0.000000 0.0000000  84.767385 0.0000000 0.0000000 0.000000
## X603    0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X702    6.470421  2.793451 1.4616887   0.000000 0.0000000 0.0000000 0.000000
## X703    0.000000  0.000000 0.0000000  88.621964 0.0000000 0.0000000 0.000000
## X709    8.056284  3.478109 0.9099691  10.204974 0.0000000 0.6160086 0.000000
## X712    0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X713    6.816924  0.000000 0.0000000   8.635065 0.0000000 0.5212439 0.000000
## X804    0.000000  0.000000 0.0000000  39.771068 0.0000000 0.0000000 0.000000
## X805    0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X808    0.000000  0.000000 0.0000000 260.022222 0.0000000 0.0000000 0.000000
## X809    0.000000  0.000000 2.8021309   0.000000 0.0000000 0.0000000 0.000000
## X813    0.000000 30.204545 7.9023179   0.000000 0.0000000 0.0000000 0.000000
## X901    0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X904    0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X1001  14.778934  0.000000 0.0000000  18.720622 0.0000000 1.1300402 0.000000
## X1003   0.000000  0.000000 0.9796014   0.000000 1.3952830 0.6631464 0.000000
## X1005   0.000000  0.000000 0.0000000  21.282652 0.0000000 0.0000000 0.000000
## X1102   0.000000  0.000000 0.0000000   0.000000 4.1943407 1.9934707 0.000000
## X1108   0.000000  0.000000 0.0000000   0.000000 4.1943407 1.9934707 0.000000
## X1202   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X1208   0.000000  0.000000 0.0000000   0.000000 4.1943407 1.9934707 0.000000
## X1213  14.431391  0.000000 0.0000000  18.280386 0.0000000 1.1034661 0.000000
## X1214   0.000000  3.723160 0.9740812  10.923970 0.0000000 0.6594095 0.000000
## X1302   0.000000  3.320686 0.8687831   0.000000 0.0000000 0.5881276 0.000000
## X1507   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X1514   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X1517   0.000000  0.000000 1.4343511   0.000000 2.0430009 0.9709911 0.000000
## X1601   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X1602   0.000000  0.000000 1.4167511   0.000000 0.0000000 0.0000000 0.000000
## X1704   0.000000  4.736831 2.4785691   0.000000 0.0000000 0.0000000 0.000000
## X1806   0.000000  3.312355 1.7332074   0.000000 1.2343360 0.5866522 0.000000
## X1901   0.000000  3.176853 1.6623054   0.000000 1.1838417 0.5626535 0.000000
## X1902   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X1905   0.000000  3.017076 1.5787012   0.000000 1.1243013 1.0687108 1.458221
## X2001   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X2002   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X2003   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X2004   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X2005   0.000000  4.435103 2.3206891   0.000000 0.0000000 0.0000000 0.000000
## X2006   0.000000  0.000000 2.6726646   0.000000 0.0000000 0.0000000 0.000000
## X2007   0.000000  0.000000 1.7449299   0.000000 0.0000000 0.0000000 0.000000
## X2008   0.000000  3.176853 1.6623054   0.000000 1.1838417 0.5626535 0.000000
## X2101   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X2102   0.000000  0.000000 2.0431022   0.000000 0.0000000 0.0000000 0.000000
## X2103   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X2104   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X2106   0.000000  0.000000 0.0000000   0.000000 2.0686986 0.9832045 0.000000
## X2202   0.000000  0.000000 0.0000000   0.000000 2.3549622 1.1192587 0.000000
## X2206   0.000000 30.204545 7.9023179   0.000000 0.0000000 0.0000000 0.000000
## X2208   0.000000  0.000000 2.4125330   0.000000 0.0000000 0.0000000 0.000000
## X2209   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X2302   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X2309   0.000000  0.000000 0.0000000   0.000000 4.1943407 1.9934707 0.000000
## X2402   0.000000  0.000000 2.8021309   0.000000 0.0000000 0.0000000 0.000000
## X2403   0.000000  0.000000 2.8021309   0.000000 0.0000000 0.0000000 0.000000
## X2507   0.000000 23.729708 6.2083276   0.000000 0.0000000 0.0000000 0.000000
## X2508   0.000000  0.000000 1.4343511   0.000000 2.0430009 0.9709911 0.000000
## X2512   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X2517   8.925650  3.853436 2.0163298   0.000000 0.0000000 0.0000000 0.000000
## X2519   0.000000  0.000000 0.0000000   0.000000 4.1943407 1.9934707 0.000000
## X2520   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X2522   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X2525 162.052632  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X2530   0.000000  0.000000 2.2704443   0.000000 0.0000000 0.0000000 0.000000
## X2602   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X2606   0.000000  0.000000 2.8021309   0.000000 0.0000000 0.0000000 0.000000
## X2607   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X2608   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X2710   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
```

```
## X2713   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X2714   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X2716  12.242560  0.000000 1.3828133  15.507772 0.0000000 0.9361024 0.000000
## X2804   0.000000  0.000000 1.2047772   0.000000 1.7160098 0.8155801 0.000000
## X2811   0.000000  0.000000 1.2047772   0.000000 1.7160098 0.8155801 0.000000
## X2825   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X2826   0.000000  0.000000 0.0000000   0.000000 4.1943407 1.9934707 0.000000
## X2832   0.000000  0.000000 0.0000000   0.000000 4.1943407 1.9934707 0.000000
## X2833   0.000000  0.000000 0.0000000   0.000000 4.1943407 1.9934707 0.000000
## X2835   0.000000  0.000000 0.0000000   0.000000 4.1943407 1.9934707 0.000000
## X2836   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X2901   0.000000  0.000000 1.2047772   0.000000 1.7160098 0.8155801 0.000000
## X2903   0.000000  0.000000 0.0000000   0.000000 0.0000000 3.6185447 4.937404
## X2907   0.000000  0.000000 0.0000000   0.000000 4.1943407 1.9934707 0.000000
## X2915   0.000000  0.000000 0.0000000   0.000000 4.1943407 1.9934707 0.000000
## X2933   0.000000  0.000000 0.0000000   0.000000 4.1943407 1.9934707 0.000000
## X3105   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X3202   0.000000  0.000000 0.0000000   0.000000 4.1943407 1.9934707 0.000000
## X3204   0.000000  0.000000 1.3995769   0.000000 1.9934707 0.9474506 0.000000
## X3205   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X3206   0.000000  0.000000 0.0000000   0.000000 2.3662503 2.2492473 3.069033
## X3207   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X3208   0.000000  0.000000 0.0000000   0.000000 0.0000000 1.6679665 4.551788
## X3209   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X3210   0.000000  0.000000 0.0000000   0.000000 4.1943407 1.9934707 0.000000
## X3211   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X3212   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X3214   0.000000  0.000000 0.0000000   0.000000 0.0000000 3.6185447 4.937404
## X3215   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X3302   0.000000  0.000000 0.0000000   0.000000 2.5627679 1.2180237 0.000000
## X3303   0.000000  0.000000 2.8021309   0.000000 0.0000000 0.0000000 0.000000
## X3304   0.000000  0.000000 2.8021309   0.000000 0.0000000 0.0000000 0.000000
## X3305   0.000000  0.000000 2.3794438   0.000000 0.0000000 0.0000000 0.000000
## X3307   0.000000  0.000000 2.8021309   0.000000 0.0000000 0.0000000 0.000000
## X3402   0.000000  0.000000 1.0230786   0.000000 1.4572094 0.6925786 0.000000
## X3403   0.000000  0.000000 1.3246311   0.000000 1.8867224 0.8967157 0.000000
## X3506   0.000000  0.000000 1.0322399   0.000000 0.0000000 0.6987803 1.906928
## X3507   0.000000  0.000000 0.0000000   0.000000 2.5627679 1.2180237 0.000000
## X3605   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X3701   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X3707   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X3802   0.000000  0.000000 0.0000000   0.000000 0.0000000 6.0355989 0.000000
## X3808   0.000000  0.000000 2.8021309   0.000000 0.0000000 0.0000000 0.000000
## X3809   0.000000  0.000000 1.1449871   0.000000 1.6308484 0.7751050 0.000000
## X3810   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X3811   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X3814   0.000000  0.000000 0.0000000   0.000000 2.3662503 2.2492473 3.069033
## X3815   0.000000  0.000000 0.0000000   0.000000 4.1943407 1.9934707 0.000000
## X3816   0.000000  0.000000 2.8021309   0.000000 0.0000000 0.0000000 0.000000
## X3819   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X3820   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X3823   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X3902   0.000000  0.000000 0.0000000   0.000000 4.1943407 1.9934707 0.000000
## X3908   0.000000  0.000000 1.7449299   0.000000 0.0000000 0.0000000 0.000000
## X3909   0.000000  0.000000 0.0000000   0.000000 4.1943407 1.9934707 0.000000
## X3910   0.000000  0.000000 0.0000000   0.000000 4.1943407 1.9934707 0.000000
## X3911   0.000000  0.000000 0.0000000   0.000000 4.1943407 1.9934707 0.000000
## X3915   0.000000  0.000000 0.0000000   0.000000 4.1943407 1.9934707 0.000000
## X3916   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X3917   0.000000  4.079382 2.1345566   0.000000 1.5201647 0.7224997 0.000000
## X3919   0.000000  0.000000 0.0000000   0.000000 2.3662503 2.2492473 3.069033
## X3920   0.000000  0.000000 0.0000000   0.000000 1.9386314 1.8427736 2.514410
## X3921   0.000000  0.000000 0.0000000   0.000000 2.1592202 2.0524545 2.800514
## X3923   0.000000  9.157595 2.3958743   0.000000 0.0000000 0.0000000 0.000000
## X3924   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X3925   0.000000  0.000000 0.0000000   0.000000 4.1943407 1.9934707 0.000000
## X3926   0.000000  0.000000 1.0510622   0.000000 1.4970675 1.4230443 0.000000
## X4001   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X4005   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X4006   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X4008   0.000000  0.000000 2.8021309   0.000000 0.0000000 0.0000000 0.000000
## X4009   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X4010   0.000000  7.902318 2.0674603   0.000000 0.0000000 0.0000000 0.000000
## X4012   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X4013   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X4015   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X4016   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X4202   0.000000  0.000000 0.0000000   0.000000 2.0179326 1.9181534 2.617264
## X4203   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
```

```
## X4409   0.000000  5.598326 1.4646745   0.000000 2.0861918 0.9915186 0.000000
## X4415   0.000000  0.000000 0.0000000   0.000000 2.0686986 0.9832045 0.000000
## X4416   0.000000  5.794299 1.5159462   0.000000 2.1592202 1.0262273 0.000000
## X4418   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X4420   0.000000  0.000000 7.9023179   0.000000 0.0000000 0.0000000 0.000000
## X4421   0.000000  7.902318 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X4602   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X4804   0.000000  0.000000 0.0000000   0.000000 0.0000000 1.9934707 0.000000
## X4808   0.000000  0.000000 0.0000000   0.000000 1.9934707 0.0000000 2.585537
## X4818   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 0.000000
## X4819   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X4821   0.000000  0.000000 0.0000000   0.000000 0.0000000 1.4164635 3.865449
## X4822   0.000000  0.000000 0.0000000   0.000000 4.1943407 1.9934707 0.000000
## X4823   0.000000  0.000000 0.0000000   0.000000 3.1513815 2.9955550 0.000000
## X4901   0.000000  0.000000 2.8021309   0.000000 0.0000000 0.0000000 0.000000
## X4902   0.000000  0.000000 2.8021309   0.000000 0.0000000 0.0000000 0.000000
## X4907   0.000000  0.000000 2.8021309   0.000000 0.0000000 0.0000000 0.000000
## X4911   0.000000  0.000000 1.7449299   0.000000 0.0000000 0.0000000 0.000000
## X5111   0.000000  0.000000 0.0000000   0.000000 3.5858510 1.7042703 0.000000
## X5112   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X5205   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X5206   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X5208   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X5209   0.000000  0.000000 0.0000000   0.000000 0.0000000 1.4164635 3.865449
## X5210   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X5211   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X5402   0.000000  0.000000 0.0000000   0.000000 0.0000000 3.6185447 4.937404
## X5407   0.000000  0.000000 1.0415663   0.000000 1.4835421 1.4101877 1.924158
## X5408   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X5505   0.000000 24.161363 6.3212603   0.000000 0.0000000 0.0000000 0.000000
## X5508   0.000000  0.000000 1.4585079   0.000000 0.0000000 0.9873441 0.000000
## X5509   0.000000  9.094794 2.3794438   0.000000 0.0000000 1.6107754 4.395716
## X5511   0.000000 30.204545 7.9023179   0.000000 0.0000000 0.0000000 0.000000
## X5512   0.000000 10.215554 2.6726646   0.000000 0.0000000 0.0000000 0.000000
## X5513   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X5514   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X5515   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X5516   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X5601   0.000000  0.000000 2.8021309   0.000000 0.0000000 0.0000000 0.000000
## X5603   0.000000  0.000000 0.0000000   0.000000 2.2477256 1.0682917 0.000000
## X5609   0.000000 30.204545 7.9023179   0.000000 0.0000000 0.0000000 0.000000
## X5806   0.000000  0.000000 0.0000000   0.000000 0.0000000 1.4164635 3.865449
## X5807   0.000000  0.000000 0.0000000   0.000000 0.0000000 1.4164635 3.865449
## X5903   0.000000  0.000000 0.0000000   0.000000 4.1943407 1.9934707 0.000000
## X5907   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X5911   0.000000  7.293571 1.9081959   0.000000 0.0000000 1.2917623 3.525146
## X6002   0.000000  0.000000 0.8291571   0.000000 1.1809994 1.1226053 1.531759
## X6101   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X6103   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X6104   0.000000  0.000000 1.6148530   0.000000 0.0000000 1.0931826 2.983232
## X6105   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X6106   0.000000  0.000000 1.6148530   0.000000 0.0000000 1.0931826 2.983232
## X6107   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X6109   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X6110   0.000000 11.160901 2.9199925   0.000000 0.0000000 0.0000000 0.000000
## X6111   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X6112   0.000000  0.000000 0.0000000   0.000000 0.0000000 1.7167250 4.684847
## X6114   0.000000  7.214169 1.8874223   0.000000 0.0000000 1.2776995 3.486769
## X6115   0.000000  0.000000 1.5429494   0.000000 0.0000000 1.0445071 2.850399
## X6117   0.000000  0.000000 0.0000000   0.000000 0.0000000 0.0000000 0.000000
## X6201   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X6202   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X6203   0.000000  0.000000 0.0000000   0.000000 0.0000000 1.3749876 3.752264
## X6204   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X6205   0.000000  0.000000 1.7449299   0.000000 0.0000000 0.0000000 0.000000
## X6206   0.000000  5.005600 2.6192030   0.000000 0.0000000 0.8865414 2.419319
## X6210   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X6211   0.000000  0.000000 0.0000000   0.000000 0.0000000 1.0881122 2.969395
## X6212   8.722193  0.000000 0.0000000   0.000000 1.4032349 1.3338516 1.819999
## X6217   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X6302   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X6303   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X6304   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.5855368 7.055790
## X6305   0.000000  0.000000 0.0000000   0.000000 2.3662503 2.2492473 3.069033
## X6306   0.000000  0.000000 0.0000000   0.000000 4.1943407 1.9934707 0.000000
## X6307   0.000000  0.000000 0.0000000   0.000000 0.0000000 2.2405304 6.114286
## X6401   0.000000  0.000000 2.8021309   0.000000 0.0000000 0.0000000 0.000000
## X6403   0.000000  0.000000 2.4125330   0.000000 0.0000000 0.0000000 0.000000
## X6404   0.000000  0.000000 0.0000000   0.000000 4.1943407 1.9934707 0.000000
```

```
##            X4819     X4821     X4822     X4823     X4901     X4902     X4907
## X102   0.0000000 0.0000000 0.0000000 0.0000000 3.7978668 3.7978668 3.7978668
## X210   6.4376850 2.9063274 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X401   0.0000000 0.0000000 2.0430009 1.5349916 1.9440463 1.9440463 1.9440463
## X403   2.9137999 1.3154518 0.0000000 0.0000000 1.7616411 1.7616411 1.7616411
## X406   8.7547564 3.9523808 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X510   0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X602   0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X603   0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X702   1.6383915 0.7396624 0.0000000 0.0000000 0.9905484 0.9905484 0.9905484
## X703   0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X709   0.0000000 0.0000000 0.0000000 0.9738166 0.0000000 0.0000000 0.0000000
## X712   0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X713   0.0000000 0.0000000 0.0000000 0.8240075 0.0000000 0.0000000 0.0000000
## X804   0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X805   0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X808   0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X809   0.0000000 0.0000000 0.0000000 0.0000000 3.7978668 3.7978668 3.7978668
## X813   0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X901   0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X904   0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X1001  0.0000000 0.0000000 0.0000000 1.7864248 0.0000000 0.0000000 0.0000000
## X1003  0.0000000 0.0000000 1.3952830 1.0483345 1.3277012 1.3277012 1.3277012
## X1005  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X1102  0.0000000 0.0000000 4.1943407 3.1513815 0.0000000 0.0000000 0.0000000
## X1108  0.0000000 0.0000000 4.1943407 3.1513815 0.0000000 0.0000000 0.0000000
## X1202  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X1208  0.0000000 0.0000000 4.1943407 3.1513815 0.0000000 0.0000000 0.0000000
## X1213  0.0000000 0.0000000 0.0000000 1.7444151 0.0000000 0.0000000 0.0000000
## X1214  0.0000000 0.0000000 0.0000000 1.0424270 0.0000000 0.0000000 0.0000000
## X1302  0.0000000 0.0000000 0.0000000 0.9297407 0.0000000 0.0000000 0.0000000
## X1507 10.3902222 4.6907200 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X1514 10.3902222 4.6907200 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X1517  0.0000000 0.0000000 2.0430009 1.5349916 1.9440463 1.9440463 1.9440463
## X1601  6.4376850 2.9063274 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X1602  3.1760477 1.4338449 0.0000000 0.0000000 1.9201921 1.9201921 1.9201921
## X1704  0.0000000 0.0000000 0.0000000 0.0000000 1.6796629 1.6796629 1.6796629
## X1806  0.0000000 0.0000000 1.2343360 0.9274084 1.1745499 1.1745499 1.1745499
## X1901  1.8632613 0.8411810 1.1838417 0.8894700 1.1265013 1.1265013 1.1265013
## X1902 10.3902222 4.6907200 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X1905  0.0000000 0.7988745 1.1243013 0.8447348 1.0698448 1.0698448 1.0698448
## X2001 10.3902222 4.6907200 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2002 10.3902222 4.6907200 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2003 10.3902222 4.6907200 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2004 10.3902222 4.6907200 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2005  2.6012390 1.1743447 0.0000000 0.0000000 1.5726715 1.5726715 1.5726715
## X2006  0.0000000 0.0000000 0.0000000 0.0000000 3.6223945 3.6223945 3.6223945
## X2007  3.9117544 1.7659834 0.0000000 0.0000000 2.3649893 2.3649893 2.3649893
## X2008  0.0000000 0.0000000 1.1838417 0.8894700 1.1265013 1.1265013 1.1265013
## X2101 10.3902222 4.6907200 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2102  0.0000000 0.0000000 0.0000000 0.0000000 2.7691172 2.7691172 2.7691172
## X2103  6.4376850 2.9063274 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2104  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2106  3.2559489 1.4699168 2.0686986 1.5542993 0.0000000 0.0000000 0.0000000
## X2202  3.7065030 1.6733216 2.3549622 1.7693809 0.0000000 0.0000000 0.0000000
## X2206  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2208  0.0000000 0.0000000 0.0000000 0.0000000 3.2698252 3.2698252 3.2698252
## X2209 10.3902222 4.6907200 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2302  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2309  0.0000000 0.0000000 4.1943407 3.1513815 0.0000000 0.0000000 0.0000000
## X2402  0.0000000 0.0000000 0.0000000 0.0000000 3.7978668 3.7978668 3.7978668
## X2403  0.0000000 0.0000000 0.0000000 0.0000000 3.7978668 3.7978668 3.7978668
## X2507  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2508  0.0000000 0.0000000 2.0430009 1.5349916 1.9440463 1.9440463 1.9440463
## X2512  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2517  0.0000000 0.0000000 0.0000000 0.0000000 1.3664149 1.3664149 1.3664149
## X2519  0.0000000 0.0000000 4.1943407 3.1513815 0.0000000 0.0000000 0.0000000
## X2520  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2522  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2525  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2530  0.0000000 0.0000000 0.0000000 0.0000000 3.0772452 3.0772452 3.0772452
## X2602  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2606  0.0000000 0.0000000 0.0000000 0.0000000 3.7978668 3.7978668 3.7978668
## X2607  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2608  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2710  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2713  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2714  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2716  0.0000000 0.0000000 0.0000000 1.4798376 1.8741945 1.8741945 1.8741945
```

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## X2804  0.0000000 0.0000000 1.7160098 1.2893097 1.6328933 1.6328933 1.6328933
## X2811  0.0000000 0.0000000 1.7160098 1.2893097 1.6328933 1.6328933 1.6328933
## X2825  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2826  0.0000000 0.0000000 4.1943407 3.1513815 0.0000000 0.0000000 0.0000000
## X2832  0.0000000 0.0000000 4.1943407 3.1513815 0.0000000 0.0000000 0.0000000
## X2833  0.0000000 0.0000000 4.1943407 3.1513815 0.0000000 0.0000000 0.0000000
## X2835  0.0000000 0.0000000 4.1943407 3.1513815 0.0000000 0.0000000 0.0000000
## X2836  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2901  0.0000000 0.0000000 1.7160098 1.2893097 1.6328933 1.6328933 1.6328933
## X2903  0.0000000 2.7049117 0.0000000 2.8601909 0.0000000 0.0000000 0.0000000
## X2907  0.0000000 0.0000000 4.1943407 3.1513815 0.0000000 0.0000000 0.0000000
## X2915  0.0000000 0.0000000 4.1943407 3.1513815 0.0000000 0.0000000 0.0000000
## X2933  0.0000000 0.0000000 4.1943407 3.1513815 0.0000000 0.0000000 0.0000000
## X3105  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3202  0.0000000 0.0000000 4.1943407 3.1513815 0.0000000 0.0000000 0.0000000
## X3204  0.0000000 0.0000000 1.9934707 1.4977775 1.8969151 1.8969151 1.8969151
## X3205  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3206  0.0000000 1.6813424 2.3662503 1.7778621 0.0000000 0.0000000 0.0000000
## X3207  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3208  0.0000000 2.4936554 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3209  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3210  0.0000000 0.0000000 4.1943407 3.1513815 0.0000000 0.0000000 0.0000000
## X3211  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3212  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3214  0.0000000 2.7049117 0.0000000 2.8601909 0.0000000 0.0000000 0.0000000
## X3215  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3302  4.0335710 1.8209781 2.5627679 1.9255138 0.0000000 0.0000000 0.0000000
## X3303  0.0000000 0.0000000 0.0000000 0.0000000 3.7978668 3.7978668 3.7978668
## X3304  0.0000000 0.0000000 0.0000000 0.0000000 3.7978668 3.7978668 3.7978668
## X3305  0.0000000 0.0000000 0.0000000 0.0000000 3.2249778 3.2249778 3.2249778
## X3307  0.0000000 0.0000000 0.0000000 0.0000000 3.7978668 3.7978668 3.7978668
## X3402  2.2935182 1.0354226 1.4572094 1.0948623 1.3866282 1.3866282 1.3866282
## X3403  0.0000000 0.0000000 1.8867224 1.4175731 1.7953373 1.7953373 1.7953373
## X3506  2.3140559 2.0893888 0.0000000 0.0000000 1.3990449 1.3990449 1.3990449
## X3507  4.0335710 1.8209781 2.5627679 1.9255138 0.0000000 0.0000000 0.0000000
## X3605  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3701  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3707  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3802  0.0000000 0.0000000 0.0000000 9.5413915 0.0000000 0.0000000 0.0000000
## X3808  0.0000000 0.0000000 0.0000000 0.0000000 3.7978668 3.7978668 3.7978668
## X3809  0.0000000 0.0000000 1.6308484 1.2253244 1.5518568 1.5518568 1.5518568
## X3810  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3811  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3814  0.0000000 1.6813424 2.3662503 1.7778621 0.0000000 0.0000000 0.0000000
## X3815  0.0000000 0.0000000 4.1943407 3.1513815 0.0000000 0.0000000 0.0000000
## X3816  0.0000000 0.0000000 0.0000000 0.0000000 3.7978668 3.7978668 3.7978668
## X3819  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3820  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3823  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3902  0.0000000 0.0000000 4.1943407 3.1513815 0.0000000 0.0000000 0.0000000
## X3908  3.9117544 1.7659834 0.0000000 0.0000000 2.3649893 2.3649893 2.3649893
## X3909  0.0000000 0.0000000 4.1943407 3.1513815 0.0000000 0.0000000 0.0000000
## X3910  0.0000000 0.0000000 4.1943407 3.1513815 0.0000000 0.0000000 0.0000000
## X3911  0.0000000 0.0000000 4.1943407 3.1513815 0.0000000 0.0000000 0.0000000
## X3915  0.0000000 0.0000000 4.1943407 3.1513815 0.0000000 0.0000000 0.0000000
## X3916  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3917  0.0000000 0.0000000 1.5201647 1.1421632 1.4465342 1.4465342 1.4465342
## X3919  0.0000000 1.6813424 2.3662503 1.7778621 0.0000000 0.0000000 0.0000000
## X3920  0.0000000 1.3774974 1.9386314 1.4565745 0.0000000 0.0000000 0.0000000
## X3921  0.0000000 1.5342369 2.1592202 1.6223118 0.0000000 0.0000000 0.0000000
## X3923  5.3710326 2.4247818 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3924  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3925  0.0000000 0.0000000 4.1943407 3.1513815 0.0000000 0.0000000 0.0000000
## X3926  0.0000000 0.0000000 1.4970675 2.2496187 1.4245557 1.4245557 1.4245557
## X4001  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4005  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4006  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4008  0.0000000 0.0000000 0.0000000 0.0000000 3.7978668 3.7978668 3.7978668
## X4009  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4010  4.6347986 2.0924053 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4012  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4013  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4015  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4016  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4202  0.0000000 1.4338449 2.0179326 1.5161567 0.0000000 0.0000000 0.0000000
## X4203  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4409  3.2834817 1.4823466 2.0861918 1.5674426 0.0000000 0.0000000 0.0000000
## X4415  3.2559489 1.4699168 2.0686986 1.5542993 0.0000000 0.0000000 0.0000000
## X4416  0.0000000 0.0000000 2.1592202 1.6223118 0.0000000 0.0000000 0.0000000
```

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## X4418  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4420  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4421  0.0000000 0.0000000 0.0000000 0.0000000 2.8021309 2.8021309 2.8021309
## X4602  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4804  0.0000000 0.0000000 4.1943407 3.1513815 0.0000000 0.0000000 0.0000000
## X4808  0.0000000 1.4164635 1.9934707 2.9955550 0.0000000 0.0000000 0.0000000
## X4818  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4819  0.0000000 4.6907200 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4821  4.6907200 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4822  0.0000000 0.0000000 0.0000000 3.1513815 0.0000000 0.0000000 0.0000000
## X4823  0.0000000 0.0000000 3.1513815 0.0000000 0.0000000 0.0000000 0.0000000
## X4901  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 3.7978668 3.7978668
## X4902  0.0000000 0.0000000 0.0000000 0.0000000 3.7978668 0.0000000 3.7978668
## X4907  0.0000000 0.0000000 0.0000000 0.0000000 3.7978668 3.7978668 0.0000000
## X4911  3.9117544 1.7659834 0.0000000 0.0000000 2.3649893 2.3649893 2.3649893
## X5111  0.0000000 0.0000000 3.5858510 2.6941982 0.0000000 0.0000000 0.0000000
## X5112  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5205  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5206  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5208  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5209  4.6907200 4.2353027 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5210  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5211  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5402  0.0000000 2.7049117 0.0000000 2.8601909 0.0000000 0.0000000 0.0000000
## X5407  0.0000000 1.0541333 1.4835421 1.1146471 1.4116854 1.4116854 1.4116854
## X5408  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5505  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5508  3.2696575 1.4761055 0.0000000 1.5608433 1.9767872 1.9767872 1.9767872
## X5509  0.0000000 2.4081531 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5511  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5512  5.9915371 2.7049117 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5513  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5514  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5515  8.2014033 3.7025668 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5516  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5601  0.0000000 0.0000000 0.0000000 0.0000000 3.7978668 3.7978668 3.7978668
## X5603  3.5377218 1.5971245 2.2477256 1.6888096 0.0000000 0.0000000 0.0000000
## X5609  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5806  4.6907200 4.2353027 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5807  4.6907200 4.2353027 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5903  0.0000000 0.0000000 4.1943407 3.1513815 0.0000000 0.0000000 0.0000000
## X5907 10.3902222 4.6907200 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5911  0.0000000 1.9312193 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6002  1.8587877 1.6783227 1.1809994 0.8873344 1.1237967 1.1237967 1.1237967
## X6101 10.3902222 4.6907200 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6103  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6104  0.0000000 1.6343371 0.0000000 0.0000000 2.1886896 2.1886896 2.1886896
## X6105 10.3902222 4.6907200 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6106  0.0000000 1.6343371 0.0000000 0.0000000 2.1886896 2.1886896 2.1886896
## X6107  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6109  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6110  6.5459935 2.9552238 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6111  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6112  0.0000000 2.5665507 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6114  0.0000000 1.9101951 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6115  0.0000000 1.5615659 0.0000000 0.0000000 2.0912350 2.0912350 2.0912350
## X6117 10.3902222 4.6907200 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6201  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6202  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6203  4.5533692 4.1112872 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6204  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6205  3.9117544 1.7659834 0.0000000 0.0000000 2.3649893 2.3649893 2.3649893
## X6206  0.0000000 1.3254025 0.0000000 0.0000000 1.7749670 1.7749670 1.7749670
## X6210  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6211  3.6033589 3.2535135 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6212  2.2085671 1.9941420 1.4032349 1.0543091 0.0000000 0.0000000 0.0000000
## X6217  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6302  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6303  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6304  0.0000000 3.8654492 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6305  0.0000000 1.6813424 2.3662503 1.7778621 0.0000000 0.0000000 0.0000000
## X6306  0.0000000 0.0000000 4.1943407 3.1513815 0.0000000 0.0000000 0.0000000
## X6307  0.0000000 3.3496549 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6401  0.0000000 0.0000000 0.0000000 0.0000000 3.7978668 3.7978668 3.7978668
## X6403  0.0000000 0.0000000 0.0000000 0.0000000 3.2698252 3.2698252 3.2698252
## X6404  0.0000000 0.0000000 4.1943407 3.1513815 0.0000000 0.0000000 0.0000000
##           X4911      X5111      X5112    X5205    X5206    X5208     X5209
## X102  2.3649893  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X210  2.4236876  0.0000000   0.000000 0.000000 0.000000 0.000000 2.9063274
```

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## X401  1.2105879  1.7466150   0.000000 0.000000 0.000000 0.000000 0.0000000
## X403  2.1940030  0.0000000   0.000000 0.000000 0.000000 0.000000 1.3154518
## X406  3.2960278  0.0000000   0.000000 0.000000 0.000000 0.000000 3.9523808
## X510  0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X602  0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X603  0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X702  1.2336615  0.0000000   0.000000 0.000000 0.000000 0.000000 0.7396624
## X703  0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X709  0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X712  0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X713  0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X804  0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X805  0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X808  0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X809  2.3649893  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X813  0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X901  0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X904  0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X1001 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X1003 0.8267808  1.1928642   0.000000 0.000000 0.000000 0.000000 0.0000000
## X1005 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X1102 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
## X1108 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
## X1202 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X1208 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
## X1213 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X1214 0.0000000  1.1861422   8.192629 0.000000 0.000000 0.000000 0.0000000
## X1302 0.0000000  1.0579203   7.307003 0.000000 0.000000 0.000000 0.0000000
## X1507 3.9117544  0.0000000   0.000000 0.000000 0.000000 0.000000 4.6907200
## X1514 3.9117544  0.0000000   0.000000 0.000000 0.000000 0.000000 4.6907200
## X1517 1.2105879  1.7466150   0.000000 0.000000 0.000000 0.000000 0.0000000
## X1601 2.4236876  0.0000000   0.000000 0.000000 0.000000 0.000000 2.9063274
## X1602 2.3914672  0.0000000   0.000000 0.000000 0.000000 0.000000 1.4338449
## X1704 1.0459525  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X1806 0.7314111  1.0552664   0.000000 0.000000 0.000000 0.000000 0.0000000
## X1901 1.4029812  1.0120976   0.000000 0.000000 0.000000 0.000000 0.8411810
## X1902 3.9117544  0.0000000   0.000000 0.000000 0.000000 0.000000 4.6907200
## X1905 0.6662098  0.9611949   0.000000 1.458221 1.458221 1.458221 0.7988745
## X2001 3.9117544  0.0000000   0.000000 0.000000 0.000000 0.000000 4.6907200
## X2002 3.9117544  0.0000000   0.000000 0.000000 0.000000 0.000000 4.6907200
## X2003 3.9117544  0.0000000   0.000000 0.000000 0.000000 0.000000 4.6907200
## X2004 3.9117544  0.0000000   0.000000 0.000000 0.000000 0.000000 4.6907200
## X2005 1.9586547  0.0000000   0.000000 0.000000 0.000000 0.000000 1.1743447
## X2006 2.2557201  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2007 2.9454307  0.0000000   0.000000 0.000000 0.000000 0.000000 1.7659834
## X2008 0.7014906  1.0120976   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2101 3.9117544  0.0000000   0.000000 0.000000 0.000000 0.000000 4.6907200
## X2102 1.7243718  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2103 2.4236876  0.0000000   0.000000 0.000000 0.000000 0.000000 2.9063274
## X2104 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2106 1.2258151  1.7685846   0.000000 0.000000 0.000000 0.000000 1.4699168
## X2202 1.3954415  2.0133188   0.000000 0.000000 0.000000 0.000000 1.6733216
## X2206 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2208 2.0361700  2.9377516  20.290949 0.000000 0.000000 0.000000 0.0000000
## X2209 3.9117544  0.0000000   0.000000 0.000000 0.000000 0.000000 4.6907200
## X2302 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2309 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2402 2.3649893  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2403 2.3649893  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2507 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2508 1.2105879  1.7466150   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2512 0.0000000 21.1742538 146.250000 0.000000 0.000000 0.000000 0.0000000
## X2517 0.8508883  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2519 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2520 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2522 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2525 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2530 1.9162476  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2602 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2606 2.3649893  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2607 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2608 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2710 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2713 0.0000000  0.0000000   0.000000 7.055790 7.055790 7.055790 3.8654492
## X2714 0.0000000  0.0000000   0.000000 7.055790 7.055790 7.055790 3.8654492
## X2716 1.1670902  1.6838572  11.630333 0.000000 0.000000 0.000000 0.0000000
## X2804 1.0168283  1.4670618   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2811 1.0168283  1.4670618   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2825 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
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## X2826 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2832 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2833 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2835 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2836 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2901 1.0168283  1.4670618   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2903 0.0000000  0.0000000   0.000000 4.937404 4.937404 4.937404 2.7049117
## X2907 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2915 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
## X2933 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3105 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3202 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3204 1.1812386  1.7042703   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3205 0.0000000  0.0000000   0.000000 7.055790 7.055790 7.055790 3.8654492
## X3206 0.0000000  2.0229692   0.000000 3.069033 3.069033 3.069033 1.6813424
## X3207 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3208 0.0000000  0.0000000   0.000000 4.551788 4.551788 4.551788 2.4936554
## X3209 0.0000000  0.0000000   0.000000 7.055790 7.055790 7.055790 3.8654492
## X3210 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3211 0.0000000  0.0000000   0.000000 7.055790 7.055790 7.055790 3.8654492
## X3212 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3214 0.0000000  0.0000000   0.000000 4.937404 4.937404 4.937404 2.7049117
## X3215 0.0000000  0.0000000   0.000000 7.055790 7.055790 7.055790 3.8654492
## X3302 1.5185773  2.1909772   0.000000 0.000000 0.000000 0.000000 1.8209781
## X3303 2.3649893  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3304 2.3649893  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3305 2.0082429  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3307 2.3649893  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3402 1.7269509  1.2458066   0.000000 0.000000 0.000000 0.000000 1.0354226
## X3403 1.1179846  1.6130085   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3506 1.7424150  0.0000000   0.000000 1.906928 1.906928 1.906928 2.0893888
## X3507 1.5185773  2.1909772   0.000000 0.000000 0.000000 0.000000 1.8209781
## X3605 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3701 0.0000000  0.0000000   0.000000 7.055790 7.055790 7.055790 3.8654492
## X3707 0.0000000  0.0000000   0.000000 7.055790 7.055790 7.055790 3.8654492
## X3802 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3808 2.3649893  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3809 0.9663657  1.3942551   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3810 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3811 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3814 0.0000000  2.0229692   0.000000 3.069033 3.069033 3.069033 1.6813424
## X3815 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3816 2.3649893  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3819 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3820 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3823 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3902 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3908 2.9454307  0.0000000   0.000000 0.000000 0.000000 0.000000 1.7659834
## X3909 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3910 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3911 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3915 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3916 0.0000000  0.0000000   0.000000 7.055790 7.055790 7.055790 3.8654492
## X3917 0.9007798  1.2996288   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3919 0.0000000  2.0229692   0.000000 3.069033 3.069033 3.069033 1.6813424
## X3920 0.0000000  1.6573868   0.000000 2.514410 2.514410 2.514410 1.3774974
## X3921 0.0000000  1.8459738   0.000000 2.800514 2.800514 2.800514 1.5342369
## X3923 2.0221101  0.0000000   0.000000 0.000000 0.000000 0.000000 2.4247818
## X3924 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3925 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
## X3926 0.8870934  1.2798823   0.000000 0.000000 0.000000 0.000000 0.0000000
## X4001 0.0000000  0.0000000   0.000000 7.055790 7.055790 7.055790 3.8654492
## X4005 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X4006 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X4008 2.3649893  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X4009 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X4010 1.7449299  0.0000000   0.000000 0.000000 0.000000 0.000000 2.0924053
## X4012 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X4013 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X4015 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X4016 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X4202 0.0000000  1.7251834   0.000000 2.617264 2.617264 2.617264 1.4338449
## X4203 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X4409 1.2361808  1.7835400   0.000000 0.000000 0.000000 0.000000 1.4823466
## X4415 1.2258151  1.7685846   0.000000 0.000000 0.000000 0.000000 1.4699168
## X4416 0.0000000  3.6919476  12.750068 0.000000 0.000000 0.000000 0.0000000
## X4418 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X4420 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X4421 1.7449299  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
```

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## X4602 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X4804 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
## X4808 0.0000000  1.7042703   0.000000 2.585537 2.585537 2.585537 1.4164635
## X4818 0.0000000  0.0000000   0.000000 7.055790 7.055790 7.055790 3.8654492
## X4819 3.9117544  0.0000000   0.000000 0.000000 0.000000 0.000000 4.6907200
## X4821 1.7659834  0.0000000   0.000000 3.865449 3.865449 3.865449 4.2353027
## X4822 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
## X4823 0.0000000  2.6941982   0.000000 0.000000 0.000000 0.000000 0.0000000
## X4901 2.3649893  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X4902 2.3649893  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X4907 2.3649893  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X4911 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 1.7659834
## X5111 0.0000000  0.0000000  21.174254 0.000000 0.000000 0.000000 0.0000000
## X5112 0.0000000 21.1742538   0.000000 0.000000 0.000000 0.000000 0.0000000
## X5205 0.0000000  0.0000000   0.000000 0.000000 7.055790 7.055790 3.8654492
## X5206 0.0000000  0.0000000   0.000000 7.055790 0.000000 7.055790 3.8654492
## X5208 0.0000000  0.0000000   0.000000 7.055790 7.055790 0.000000 3.8654492
## X5209 1.7659834  0.0000000   0.000000 3.865449 3.865449 3.865449 0.0000000
## X5210 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X5211 0.0000000  0.0000000   0.000000 7.055790 7.055790 7.055790 3.8654492
## X5402 0.0000000  0.0000000   0.000000 4.937404 4.937404 4.937404 2.7049117
## X5407 0.8790789  1.2683191   0.000000 1.924158 1.924158 1.924158 1.0541333
## X5408 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X5505 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X5508 2.4619523  0.0000000   0.000000 0.000000 0.000000 0.000000 1.4761055
## X5509 0.0000000  0.0000000   0.000000 4.395716 4.395716 4.395716 2.4081531
## X5511 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X5512 2.2557201  0.0000000   0.000000 0.000000 0.000000 0.000000 2.7049117
## X5513 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X5514 0.0000000  0.0000000   0.000000 7.055790 7.055790 7.055790 3.8654492
## X5515 3.0876992  4.4548812  30.769724 0.000000 0.000000 0.000000 3.7025668
## X5516 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X5601 2.3649893  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X5603 1.3318981  1.9216394   0.000000 0.000000 0.000000 0.000000 1.5971245
## X5609 0.0000000  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X5806 1.7659834  0.0000000   0.000000 3.865449 3.865449 3.865449 4.2353027
## X5807 1.7659834  0.0000000   0.000000 3.865449 3.865449 3.865449 4.2353027
## X5903 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
## X5907 3.9117544  0.0000000   0.000000 0.000000 0.000000 0.000000 4.6907200
## X5911 0.0000000  2.3236181  16.049145 3.525146 3.525146 3.525146 1.9312193
## X6002 1.3996128  1.0096676   0.000000 1.531759 1.531759 1.531759 1.6783227
## X6101 3.9117544  0.0000000   0.000000 0.000000 0.000000 0.000000 4.6907200
## X6103 0.0000000  0.0000000   0.000000 7.055790 7.055790 7.055790 3.8654492
## X6104 1.3629309  0.0000000   0.000000 2.983232 2.983232 2.983232 1.6343371
## X6105 3.9117544  0.0000000   0.000000 0.000000 0.000000 0.000000 4.6907200
## X6106 1.3629309  0.0000000   0.000000 2.983232 2.983232 2.983232 1.6343371
## X6107 0.0000000  0.0000000   0.000000 7.055790 7.055790 7.055790 3.8654492
## X6109 0.0000000  0.0000000   0.000000 7.055790 7.055790 7.055790 3.8654492
## X6110 2.4644640  0.0000000   0.000000 0.000000 0.000000 0.000000 2.9552238
## X6111 0.0000000  0.0000000   0.000000 7.055790 7.055790 7.055790 3.8654492
## X6112 0.0000000  0.0000000   0.000000 4.684847 4.684847 4.684847 2.5665507
## X6114 0.0000000  2.2983219  15.874425 3.486769 3.486769 3.486769 1.9101951
## X6115 1.3022445  0.0000000   0.000000 2.850399 2.850399 2.850399 1.5615659
## X6117 3.9117544  0.0000000   0.000000 0.000000 0.000000 0.000000 4.6907200
## X6201 0.0000000  0.0000000   0.000000 7.055790 7.055790 7.055790 3.8654492
## X6202 0.0000000  0.0000000   0.000000 7.055790 7.055790 7.055790 3.8654492
## X6203 1.7142730  0.0000000   0.000000 3.752264 3.752264 3.752264 4.1112872
## X6204 0.0000000  0.0000000   0.000000 7.055790 7.055790 7.055790 3.8654492
## X6205 2.9454307  0.0000000   0.000000 0.000000 0.000000 0.000000 1.7659834
## X6206 1.1052997  0.0000000   0.000000 2.419319 2.419319 2.419319 1.3254025
## X6210 0.0000000  0.0000000   0.000000 7.055790 7.055790 7.055790 3.8654492
## X6211 1.3566094  0.0000000   0.000000 2.969395 2.969395 2.969395 3.2535135
## X6212 0.8314927  1.1996625   0.000000 1.819999 1.819999 1.819999 1.9941420
## X6217 0.0000000  0.0000000   0.000000 7.055790 7.055790 7.055790 3.8654492
## X6302 0.0000000  0.0000000   0.000000 7.055790 7.055790 7.055790 3.8654492
## X6303 0.0000000  0.0000000   0.000000 7.055790 7.055790 7.055790 3.8654492
## X6304 0.0000000  0.0000000   0.000000 7.055790 7.055790 7.055790 3.8654492
## X6305 0.0000000  2.0229692   0.000000 3.069033 3.069033 3.069033 1.6813424
## X6306 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
## X6307 0.0000000  0.0000000   0.000000 6.114286 6.114286 6.114286 3.3496549
## X6401 2.3649893  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X6403 2.0361700  0.0000000   0.000000 0.000000 0.000000 0.000000 0.0000000
## X6404 0.0000000  3.5858510   0.000000 0.000000 0.000000 0.000000 0.0000000
##            X5210    X5211      X5402     X5407    X5408     X5505     X5508
## X102    0.000000 0.000000  0.0000000 1.4116854  0.00000  0.000000 1.9767872
## X210    0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 2.0258505
## X401    0.000000 0.000000  0.0000000 1.4452253  0.00000  0.000000 1.0118758
## X403    0.000000 0.000000  0.0000000 0.6548119  0.00000  0.000000 1.8338683
## X406    0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 2.7549998
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## X510    0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X602    0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X603    0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X702    9.105898 0.000000  0.0000000 0.3681936 11.17694  4.469102 1.0311627
## X703    0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X709    0.000000 0.000000  1.1763422 0.0000000  0.00000  2.782226 0.6419464
## X712    0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X713    0.000000 0.000000  0.9953771 0.0000000  0.00000  0.000000 0.5431915
## X804    0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X805    0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X808    0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X809    0.000000 0.000000  0.0000000 1.4116854  0.00000  0.000000 1.9767872
## X813    0.000000 0.000000  0.0000000 0.0000000  0.00000 24.161363 0.0000000
## X901    0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X904    0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X1001  10.399281 0.000000  2.1579502 0.0000000  0.00000  0.000000 1.1776219
## X1003   6.102641 0.000000  0.0000000 0.9870294  0.00000  0.000000 0.6910690
## X1005  11.822484 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X1102   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
## X1108   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
## X1202   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X1208   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
## X1213  10.154730 0.000000  2.1072037 0.0000000 24.92865  4.983858 1.1499289
## X1214   6.068252 0.000000  1.2592217 0.0000000 14.89683  5.956498 0.6871747
## X1302  10.824544 0.000000  1.1230999 0.0000000 13.28648  5.312599 0.6128914
## X1507   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 3.2696575
## X1514   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 3.2696575
## X1517   0.000000 0.000000  0.0000000 1.4452253  0.00000  0.000000 1.0118758
## X1601   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 2.0258505
## X1602   0.000000 0.000000  0.0000000 0.7137460  0.00000  0.000000 1.9989196
## X1704   0.000000 0.000000  0.0000000 0.6243403  0.00000  3.789109 0.8742646
## X1806   0.000000 0.000000  0.0000000 0.8731754  0.00000  2.649636 0.6113539
## X1901   0.000000 0.000000  0.0000000 0.8374557  0.00000  2.541244 1.1726893
## X1902   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 3.2696575
## X1905   0.000000 1.458221  1.0204151 1.1930052  0.00000  2.413434 0.5568550
## X2001   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 3.2696575
## X2002   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 3.2696575
## X2003   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 3.2696575
## X2004   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 3.2696575
## X2005   0.000000 0.000000  0.0000000 0.5845711  0.00000  3.547750 1.6371514
## X2006   0.000000 0.000000  0.0000000 1.3464616  0.00000  0.000000 1.8854541
## X2007   0.000000 0.000000  0.0000000 0.8790789  0.00000  0.000000 2.4619523
## X2008   0.000000 0.000000  0.0000000 0.8374557  0.00000  2.541244 0.5863447
## X2101   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 3.2696575
## X2102   0.000000 0.000000  0.0000000 1.0292949  0.00000  0.000000 1.4413243
## X2103   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 2.0258505
## X2104   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X2106   0.000000 0.000000  0.0000000 0.7317019  0.00000  0.000000 1.0246036
## X2202  10.300063 0.000000  0.0000000 0.8329535  0.00000  0.000000 1.1663865
## X2206   0.000000 0.000000  0.0000000 0.0000000  0.00000 24.161363 0.0000000
## X2208   0.000000 0.000000  0.0000000 1.2154101  0.00000  0.000000 1.7019422
## X2209   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 3.2696575
## X2302   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X2309   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
## X2402   0.000000 0.000000  0.0000000 1.4116854  0.00000  0.000000 1.9767872
## X2403   0.000000 0.000000  0.0000000 1.4116854  0.00000  0.000000 1.9767872
## X2507   0.000000 0.000000  0.0000000 0.0000000  0.00000 18.981981 0.0000000
## X2508   0.000000 0.000000  0.0000000 1.4452253  0.00000  0.000000 1.0118758
## X2512   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X2517   6.280585 0.000000  0.0000000 0.5079047  0.00000  3.082460 0.7112194
## X2519   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
## X2520   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X2522   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X2525   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X2530   0.000000 0.000000  0.0000000 1.1438274  0.00000  0.000000 1.6017045
## X2602   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X2606   0.000000 0.000000  0.0000000 1.4116854  0.00000  0.000000 1.9767872
## X2607   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X2608   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X2710   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X2713   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X2714   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X2716   0.000000 0.000000  1.7876015 0.6966485  0.00000  0.000000 1.9510362
## X2804   0.000000 0.000000  0.0000000 1.2139116  0.00000  0.000000 0.8499211
## X2811   0.000000 0.000000  0.0000000 1.2139116  0.00000  0.000000 0.8499211
## X2825   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X2826   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
## X2832   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
## X2833   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
```

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## X2835   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
## X2836   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X2901   0.000000 0.000000  0.0000000 1.2139116  0.00000  0.000000 0.8499211
## X2903   0.000000 4.937404  6.9100592 1.3464616  0.00000  0.000000 1.8854541
## X2907   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
## X2915   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
## X2933   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
## X3105   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X3202   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
## X3204   0.000000 0.000000  0.0000000 1.4101877  0.00000  0.000000 0.9873441
## X3205   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X3206   0.000000 3.069033  2.1476067 1.6738921  0.00000  0.000000 0.0000000
## X3207   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X3208   0.000000 4.551788  3.1851882 1.2413018  0.00000  0.000000 0.0000000
## X3209   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X3210   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
## X3211   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X3212   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X3214   0.000000 4.937404  6.9100592 1.3464616  0.00000  0.000000 1.8854541
## X3215   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X3302   0.000000 0.000000  0.0000000 0.9064544  0.00000  0.000000 1.2693101
## X3303   0.000000 0.000000  0.0000000 1.4116854  0.00000  0.000000 1.9767872
## X3304   0.000000 0.000000  0.0000000 1.4116854  0.00000  0.000000 1.9767872
## X3305   0.000000 0.000000  0.0000000 1.1987402  0.00000  0.000000 1.6785992
## X3307   0.000000 0.000000  0.0000000 1.4116854  0.00000  0.000000 1.9767872
## X3402   0.000000 0.000000  0.0000000 1.0308361  0.00000  0.000000 1.4434807
## X3403   0.000000 0.000000  0.0000000 1.3346739  0.00000  0.000000 0.9344730
## X3506   0.000000 1.906928  1.3344052 1.0400669  0.00000  0.000000 1.4564065
## X3507   0.000000 0.000000  0.0000000 0.9064544  0.00000  0.000000 1.2693101
## X3605   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X3701   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X3707   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X3802   0.000000 0.000000 11.5257327 0.0000000  0.00000  0.000000 6.2897361
## X3808   0.000000 0.000000  0.0000000 1.4116854  0.00000  0.000000 1.9767872
## X3809   0.000000 0.000000  0.0000000 1.1536684  0.00000  0.000000 0.8077417
## X3810   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X3811   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X3814   0.000000 3.069033  2.1476067 1.6738921  0.00000  0.000000 0.0000000
## X3815   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
## X3816   0.000000 0.000000  0.0000000 1.4116854  0.00000  0.000000 1.9767872
## X3819   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X3820   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X3823   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X3902   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
## X3908   0.000000 0.000000  0.0000000 0.8790789  0.00000  0.000000 2.4619523
## X3909   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
## X3910   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
## X3911   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
## X3915   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
## X3916   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X3917   0.000000 0.000000  0.0000000 1.0753708  0.00000  3.263199 0.7529214
## X3919   0.000000 3.069033  2.1476067 1.6738921  0.00000  0.000000 0.0000000
## X3920   0.000000 2.514410  1.7595002 1.3713943  0.00000  0.000000 0.0000000
## X3921   0.000000 2.800514  1.9597063 1.5274389  0.00000  0.000000 0.0000000
## X3923   0.000000 0.000000  0.0000000 0.0000000  0.00000  7.325388 1.6901902
## X3924   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X3925   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
## X3926   0.000000 0.000000  1.3587373 1.0590318  0.00000  0.000000 1.4829632
## X4001   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X4005   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X4006   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X4008   0.000000 0.000000  0.0000000 1.4116854  0.00000  0.000000 1.9767872
## X4009   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X4010   0.000000 0.000000  0.0000000 0.0000000  0.00000  6.321260 1.4585079
## X4012   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X4013   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X4015   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X4016   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X4202   8.825971 2.617264  1.8314739 1.4274920  0.00000  0.000000 0.0000000
## X4203   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X4409   0.000000 0.000000  0.0000000 0.7378893  0.00000  4.478240 1.0332677
## X4415   0.000000 0.000000  0.0000000 0.7317019  0.00000  0.000000 1.0246036
## X4416   0.000000 0.000000  0.0000000 0.7637194  0.00000  4.635004 0.0000000
## X4418   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X4420   0.000000 0.000000  0.0000000 0.0000000  0.00000 24.161363 0.0000000
## X4421   0.000000 0.000000  0.0000000 1.0415663  0.00000  6.321260 1.4585079
## X4602   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X4804   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
## X4808   0.000000 2.585537  3.6185447 1.4101877  0.00000  0.000000 0.9873441
```

```
## X4818   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X4819   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 3.2696575
## X4821   0.000000 3.865449  2.7049117 1.0541333  0.00000  0.000000 1.4761055
## X4822   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
## X4823   0.000000 0.000000  2.8601909 1.1146471  0.00000  0.000000 1.5608433
## X4901   0.000000 0.000000  0.0000000 1.4116854  0.00000  0.000000 1.9767872
## X4902   0.000000 0.000000  0.0000000 1.4116854  0.00000  0.000000 1.9767872
## X4907   0.000000 0.000000  0.0000000 1.4116854  0.00000  0.000000 1.9767872
## X4911   0.000000 0.000000  0.0000000 0.8790789  0.00000  0.000000 2.4619523
## X5111   0.000000 0.000000  0.0000000 1.2683191  0.00000  0.000000 0.0000000
## X5112   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X5205   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X5206   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X5208   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X5209   0.000000 3.865449  2.7049117 1.0541333  0.00000  0.000000 1.4761055
## X5210   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X5211   0.000000 0.000000  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X5402   0.000000 4.937404  0.0000000 1.3464616  0.00000  0.000000 1.8854541
## X5407   0.000000 1.924158  1.3464616 0.0000000  0.00000  0.000000 0.7347826
## X5408   0.000000 0.000000  0.0000000 0.0000000  0.00000 96.672714 0.0000000
## X5505   0.000000 0.000000  0.0000000 0.0000000 96.67271  0.000000 0.0000000
## X5508   0.000000 0.000000  1.8854541 0.7347826  0.00000  0.000000 0.0000000
## X5509   0.000000 4.395716  3.0759747 1.1987402 36.38943 14.550303 0.0000000
## X5511   0.000000 0.000000  0.0000000 0.0000000  0.00000 24.161363 0.0000000
## X5512   0.000000 0.000000  0.0000000 0.0000000 40.87373 16.343350 1.8854541
## X5513 160.474623 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X5514   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X5515   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 2.5808674
## X5516 160.474623 0.000000  0.0000000 0.0000000  0.00000  0.000000 0.0000000
## X5601   0.000000 0.000000  0.0000000 1.4116854  0.00000  0.000000 1.9767872
## X5603  19.662068 0.000000  0.0000000 0.7950238  0.00000  0.000000 1.1132735
## X5609   0.000000 0.000000  0.0000000 0.0000000  0.00000 24.161363 0.0000000
## X5806   0.000000 3.865449  2.7049117 1.0541333  0.00000  0.000000 1.4761055
## X5807   0.000000 3.865449  2.7049117 1.0541333  0.00000  0.000000 1.4761055
## X5903   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
## X5907   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 3.2696575
## X5911  23.775090 3.525146  2.4667789 0.9613306  0.00000  5.834309 0.0000000
## X6002   5.165412 1.531759  1.0718742 1.2531676  0.00000  0.000000 1.1698738
## X6101   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 3.2696575
## X6103   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X6104   0.000000 2.983232  2.0875660 1.6270952  0.00000  0.000000 1.1392124
## X6105   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 3.2696575
## X6106   0.000000 2.983232  2.0875660 1.6270952  0.00000  0.000000 1.1392124
## X6107   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X6109   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X6110   0.000000 0.000000  0.0000000 0.0000000  0.00000  8.927881 2.0599336
## X6111   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X6112   0.000000 4.684847  3.2782987 1.2775878  0.00000  0.000000 0.0000000
## X6114  11.758131 3.486769  2.4399242 0.9508651  0.00000  5.770793 0.0000000
## X6115   0.000000 2.850399  1.9946141 1.5546466  0.00000  0.000000 1.0884874
## X6117   0.000000 0.000000  0.0000000 0.0000000  0.00000  0.000000 3.2696575
## X6201   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X6202   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X6203   0.000000 3.752264  2.6257082 1.0232669  0.00000  0.000000 1.4328832
## X6204   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X6205   0.000000 0.000000  0.0000000 0.8790789  0.00000  0.000000 2.4619523
## X6206   0.000000 2.419319  1.6929585 1.3195304  0.00000  4.004104 0.9238703
## X6210   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X6211  10.013434 2.969395  2.0778835 0.8097742  0.00000  0.000000 1.1339285
## X6212   0.000000 1.819999  1.2735749 0.9926546  0.00000  0.000000 0.6950075
## X6217   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X6302   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X6303   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X6304   0.000000 7.055790  4.9374044 1.9241576  0.00000  0.000000 0.0000000
## X6305   0.000000 3.069033  2.1476067 1.6738921  0.00000  0.000000 0.0000000
## X6306   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
## X6307   0.000000 6.114286  4.2785712 1.6674039  0.00000  0.000000 0.0000000
## X6401   0.000000 0.000000  0.0000000 1.4116854  0.00000  0.000000 1.9767872
## X6403   0.000000 0.000000  0.0000000 1.2154101  0.00000  0.000000 1.7019422
## X6404   0.000000 0.000000  0.0000000 1.4835421  0.00000  0.000000 0.0000000
##            X5509     X5511      X5512      X5513    X5514      X5515      X5516
## X102   0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X210   0.0000000  0.000000  3.7123013   0.000000 0.000000  5.0815134   0.000000
## X401   0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X403   0.0000000  0.000000  1.6802483   0.000000 0.000000  2.2999753   0.000000
## X406   0.0000000  0.000000  5.0484436   0.000000 0.000000  6.9104672   0.000000
## X510   0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X602   0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X603   0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
```

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## X702   1.6822593  2.793451  2.8343472   9.105898 0.000000  1.2932464   9.105898
## X703   0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X709   1.0472848  3.478109  1.1763422   0.000000 0.000000  0.0000000   0.000000
## X712   0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X713   0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X804   0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X805   0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X808   0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X809   0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X813   9.0947938 30.204545 10.2155539   0.000000 0.000000  0.0000000   0.000000
## X901   0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X904   0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X1001  0.0000000  0.000000  0.0000000  10.399281 0.000000  0.0000000  10.399281
## X1003  0.0000000  0.000000  0.0000000   6.102641 0.000000  0.0000000   6.102641
## X1005  0.0000000  0.000000  0.0000000  11.822484 0.000000  0.0000000  11.822484
## X1102  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X1108  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X1202  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X1208  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X1213  1.8760203  0.000000  2.1072037  10.154730 0.000000  0.0000000  10.154730
## X1214  2.2421429  3.723160  2.5184434   6.068252 0.000000  1.7236608   6.068252
## X1302  1.9997674  3.320686  2.2461997  10.824544 0.000000  1.5373329  10.824544
## X1507  0.0000000  0.000000  5.9915371   0.000000 0.000000  8.2014033   0.000000
## X1514  0.0000000  0.000000  5.9915371   0.000000 0.000000  8.2014033   0.000000
## X1517  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X1601  0.0000000  0.000000  3.7123013   0.000000 0.000000  5.0815134   0.000000
## X1602  0.0000000  0.000000  1.8314739   0.000000 0.000000  2.5069776   0.000000
## X1704  1.4262946  4.736831  1.6020578   0.000000 0.000000  0.0000000   0.000000
## X1806  0.9973754  3.312355  1.1202824   0.000000 0.000000  0.0000000   0.000000
## X1901  0.9565748  3.176853  2.1489078   0.000000 0.000000  1.4707448   0.000000
## X1902  0.0000000  0.000000  5.9915371   0.000000 0.000000  8.2014033   0.000000
## X1905  1.8169292  3.017076  1.0204151   0.000000 1.458221  0.0000000   0.000000
## X2001  0.0000000  0.000000  5.9915371   0.000000 0.000000  8.2014033   0.000000
## X2002  0.0000000  0.000000  5.9915371   0.000000 0.000000  8.2014033   0.000000
## X2003  0.0000000  0.000000  5.9915371   0.000000 0.000000  8.2014033   0.000000
## X2004  0.0000000  0.000000  5.9915371   0.000000 0.000000  8.2014033   0.000000
## X2005  1.3354423  4.435103  3.0000194   0.000000 0.000000  2.0532590   0.000000
## X2006  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2007  0.0000000  0.000000  2.2557201   0.000000 0.000000  3.0876992   0.000000
## X2008  0.9565748  3.176853  1.0744539   0.000000 0.000000  0.0000000   0.000000
## X2101  0.0000000  0.000000  5.9915371   0.000000 0.000000  8.2014033   0.000000
## X2102  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2103  0.0000000  0.000000  3.7123013   0.000000 0.000000  5.0815134   0.000000
## X2104  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2106  0.0000000  0.000000  1.8775491   0.000000 0.000000  2.5700467   0.000000
## X2202  0.0000000  0.000000  2.1373616  10.300063 0.000000  2.9256864  10.300063
## X2206  9.0947938 30.204545 10.2155539   0.000000 0.000000  0.0000000   0.000000
## X2208  0.0000000  0.000000  0.0000000   0.000000 0.000000  4.2690416   0.000000
## X2209  0.0000000  0.000000  5.9915371   0.000000 0.000000  8.2014033   0.000000
## X2302  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2309  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2402  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2403  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2507  7.1451768 23.729708  8.0256836   0.000000 0.000000  0.0000000   0.000000
## X2508  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2512  0.0000000  0.000000  0.0000000   0.000000 0.000000 30.7697242   0.000000
## X2517  1.1602985  3.853436  1.3032827   6.280585 0.000000  0.0000000   6.280585
## X2519  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2520  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2522  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2525  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2530  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2602  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2606  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2607  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2608  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2710  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2713  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X2714  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X2716  0.0000000  0.000000  0.0000000   0.000000 0.000000  2.4469237   0.000000
## X2804  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2811  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2825  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2826  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2832  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2833  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2835  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2836  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2901  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
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## X2903  3.0759747  0.000000  0.0000000   0.000000 4.937404  0.0000000   0.000000
## X2907  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2915  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X2933  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3105  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3202  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3204  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3205  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X3206  1.9119907  0.000000  0.0000000   0.000000 3.069033  0.0000000   0.000000
## X3207  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3208  2.8357379  0.000000  0.0000000   0.000000 4.551788  0.0000000   0.000000
## X3209  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X3210  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3211  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X3212  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3214  3.0759747  0.000000  0.0000000   0.000000 4.937404  0.0000000   0.000000
## X3215  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X3302  0.0000000  0.000000  2.3259658   0.000000 0.000000  3.1838538   0.000000
## X3303  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3304  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3305  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3307  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3402  0.0000000  0.000000  1.3225621   0.000000 0.000000  1.8103631   0.000000
## X3403  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3506  1.1880065  0.000000  1.3344052   0.000000 1.906928  1.8265743   0.000000
## X3507  0.0000000  0.000000  2.3259658   0.000000 0.000000  3.1838538   0.000000
## X3605  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3701  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X3707  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X3802  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3808  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3809  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3810  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3811  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3814  1.9119907  0.000000  0.0000000   0.000000 3.069033  0.0000000   0.000000
## X3815  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3816  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3819  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3820  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3823  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3902  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3908  0.0000000  0.000000  2.2557201   0.000000 0.000000  3.0876992   0.000000
## X3909  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3910  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3911  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3915  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3916  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X3917  1.2283322  4.079382  1.3797003   0.000000 0.000000  0.0000000   0.000000
## X3919  1.9119907  0.000000  0.0000000   0.000000 3.069033  0.0000000   0.000000
## X3920  1.5664638  0.000000  0.0000000   0.000000 2.514410  0.0000000   0.000000
## X3921  1.7447051  0.000000  0.0000000   0.000000 2.800514  0.0000000   0.000000
## X3923  2.7574162  9.157595  6.1944296   0.000000 0.000000  4.2395637   0.000000
## X3924  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3925  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X3926  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X4001  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X4005  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X4006  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X4008  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X4009  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X4010  2.3794438  7.902318  5.3453291   0.000000 0.000000  3.6584259   0.000000
## X4012  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X4013  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X4015  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X4016  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X4202  1.6305412  0.000000  0.0000000   8.825971 2.617264  0.0000000   8.825971
## X4203  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X4409  1.6856963  5.598326  3.7868517   0.000000 0.000000  2.5917794   0.000000
## X4415  0.0000000  0.000000  1.8775491   0.000000 0.000000  2.5700467   0.000000
## X4416  1.7447051  5.794299  1.9597063   0.000000 0.000000  2.6825062   0.000000
## X4418  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X4420  9.0947938 30.204545 10.2155539   0.000000 0.000000  0.0000000   0.000000
## X4421  2.3794438  7.902318  2.6726646   0.000000 0.000000  0.0000000   0.000000
## X4602  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X4804  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X4808  1.6107754  0.000000  0.0000000   0.000000 2.585537  0.0000000   0.000000
## X4818  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X4819  0.0000000  0.000000  5.9915371   0.000000 0.000000  8.2014033   0.000000
## X4821  2.4081531  0.000000  2.7049117   0.000000 3.865449  3.7025668   0.000000
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## X4822  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X4823  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X4901  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X4902  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X4907  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X4911  0.0000000  0.000000  2.2557201   0.000000 0.000000  3.0876992   0.000000
## X5111  0.0000000  0.000000  0.0000000   0.000000 0.000000  4.4548812   0.000000
## X5112  0.0000000  0.000000  0.0000000   0.000000 0.000000 30.7697242   0.000000
## X5205  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X5206  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X5208  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X5209  2.4081531  0.000000  2.7049117   0.000000 3.865449  3.7025668   0.000000
## X5210  0.0000000  0.000000  0.0000000 160.474623 0.000000  0.0000000 160.474623
## X5211  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X5402  3.0759747  0.000000  0.0000000   0.000000 4.937404  0.0000000   0.000000
## X5407  1.1987402  0.000000  0.0000000   0.000000 1.924158  0.0000000   0.000000
## X5408 36.3894284  0.000000 40.8737339   0.000000 0.000000  0.0000000   0.000000
## X5505 14.5503025 24.161363 16.3433499   0.000000 0.000000  0.0000000   0.000000
## X5508  0.0000000  0.000000  1.8854541   0.000000 0.000000  2.5808674   0.000000
## X5509  0.0000000  9.094794  6.1519493   0.000000 4.395716  0.0000000   0.000000
## X5511  9.0947938  0.000000 10.2155539   0.000000 0.000000  0.0000000   0.000000
## X5512  6.1519493 10.215554  0.0000000   0.000000 0.000000  4.7293518   0.000000
## X5513  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000 160.474623
## X5514  4.3957163  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X5515  0.0000000  0.000000  4.7293518   0.000000 0.000000  0.0000000   0.000000
## X5516  0.0000000  0.000000  0.0000000 160.474623 0.000000  0.0000000   0.000000
## X5601  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X5603  0.0000000  0.000000  2.0400338  19.662068 0.000000  2.7924609  19.662068
## X5609  9.0947938 30.204545 10.2155539   0.000000 0.000000  0.0000000   0.000000
## X5806  2.4081531  0.000000  2.7049117   0.000000 3.865449  3.7025668   0.000000
## X5807  2.4081531  0.000000  2.7049117   0.000000 3.865449  3.7025668   0.000000
## X5903  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X5907  0.0000000  0.000000  5.9915371   0.000000 0.000000  8.2014033   0.000000
## X5911  4.3922922  7.293571  2.4667789  23.775090 3.525146  3.3766031  23.775090
## X6002  0.9542781  0.000000  1.0718742   5.165412 1.531759  1.4672136   5.165412
## X6101  0.0000000  0.000000  5.9915371   0.000000 0.000000  8.2014033   0.000000
## X6103  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X6104  1.8585371  0.000000  0.0000000   0.000000 2.983232  0.0000000   0.000000
## X6105  0.0000000  0.000000  5.9915371   0.000000 0.000000  8.2014033   0.000000
## X6106  1.8585371  0.000000  0.0000000   0.000000 2.983232  0.0000000   0.000000
## X6107  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X6109  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X6110  3.3606249 11.160901  7.5495151   0.000000 0.000000  5.1670055   0.000000
## X6111  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X6112  2.9186331  0.000000  0.0000000   0.000000 4.684847  0.0000000   0.000000
## X6114  4.3444754  7.214169  2.4399242  11.758131 3.486769  3.3398436  11.758131
## X6115  1.7757831  0.000000  0.0000000   0.000000 2.850399  0.0000000   0.000000
## X6117  0.0000000  0.000000  5.9915371   0.000000 0.000000  8.2014033   0.000000
## X6201  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X6202  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X6203  2.3376391  0.000000  2.6257082   0.000000 3.752264  3.5941505   0.000000
## X6204  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X6205  0.0000000  0.000000  2.2557201   0.000000 0.000000  3.0876992   0.000000
## X6206  3.0144450  5.005600  1.6929585   0.000000 2.419319  0.0000000   0.000000
## X6210  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X6211  1.8499169  0.000000  2.0778835  10.013434 2.969395  2.8442708  10.013434
## X6212  1.1338500  0.000000  1.2735749   0.000000 1.819999  1.7433079   0.000000
## X6217  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X6302  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X6303  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X6304  4.3957163  0.000000  0.0000000   0.000000 7.055790  0.0000000   0.000000
## X6305  1.9119907  0.000000  0.0000000   0.000000 3.069033  0.0000000   0.000000
## X6306  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X6307  3.8091646  0.000000  0.0000000   0.000000 6.114286  0.0000000   0.000000
## X6401  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X6403  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
## X6404  0.0000000  0.000000  0.0000000   0.000000 0.000000  0.0000000   0.000000
##           X5601      X5603     X5609     X5806     X5807     X5903      X5907
## X102  3.7978668  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X210  0.0000000  2.1919406  0.000000 2.9063274 2.9063274 0.0000000  6.4376850
## X401  1.9440463  1.0948347  0.000000 0.0000000 0.0000000 2.0430009  0.0000000
## X403  1.7616411  0.9921091  0.000000 1.3154518 1.3154518 0.0000000  2.9137999
## X406  0.0000000  2.9808696  0.000000 3.9523808 3.9523808 0.0000000  8.7547564
## X510  0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X602  0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X603  0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X702  0.9905484  1.6735536  2.793451 0.7396624 0.7396624 0.0000000  1.6383915
## X703  0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X709  0.0000000  0.0000000  3.478109 0.0000000 0.0000000 0.0000000  0.0000000
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## X712  0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X713  0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X804  0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X805  0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X808  0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X809  3.7978668  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X813  0.0000000  0.0000000 30.204545 0.0000000 0.0000000 0.0000000  0.0000000
## X901  0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X904  0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X1001 0.0000000  1.2741696  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X1003 1.3277012  1.4954526  0.000000 0.0000000 0.0000000 1.3952830  0.0000000
## X1005 0.0000000  1.4485468  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X1102 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 4.1943407  0.0000000
## X1108 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 4.1943407  0.0000000
## X1202 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X1208 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 4.1943407  0.0000000
## X1213 0.0000000  1.2442061  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X1214 0.0000000  0.7435128  3.723160 0.0000000 0.0000000 0.0000000  0.0000000
## X1302 0.0000000  1.3262785  3.320686 0.0000000 0.0000000 0.0000000  0.0000000
## X1507 0.0000000  3.5377218  0.000000 4.6907200 4.6907200 0.0000000 10.3902222
## X1514 0.0000000  3.5377218  0.000000 4.6907200 4.6907200 0.0000000 10.3902222
## X1517 1.9440463  1.0948347  0.000000 0.0000000 0.0000000 2.0430009  0.0000000
## X1601 0.0000000  2.1919406  0.000000 2.9063274 2.9063274 0.0000000  6.4376850
## X1602 1.9201921  1.0814007  0.000000 1.4338449 1.4338449 0.0000000  3.1760477
## X1704 1.6796629  0.0000000  4.736831 0.0000000 0.0000000 0.0000000  0.0000000
## X1806 1.1745499  0.6614757  3.312355 0.0000000 0.0000000 1.2343360  0.0000000
## X1901 1.1265013  1.2688322  3.176853 0.8411810 0.8411810 1.1838417  1.8632613
## X1902 0.0000000  3.5377218  0.000000 4.6907200 4.6907200 0.0000000 10.3902222
## X1905 1.0698448  0.6025087  3.017076 0.7988745 0.7988745 1.1243013  0.0000000
## X2001 0.0000000  3.5377218  0.000000 4.6907200 4.6907200 0.0000000 10.3902222
## X2002 0.0000000  3.5377218  0.000000 4.6907200 4.6907200 0.0000000 10.3902222
## X2003 0.0000000  3.5377218  0.000000 4.6907200 4.6907200 0.0000000 10.3902222
## X2004 0.0000000  3.5377218  0.000000 4.6907200 4.6907200 0.0000000 10.3902222
## X2005 1.5726715  0.8856867  4.435103 1.1743447 1.1743447 0.0000000  2.6012390
## X2006 3.6223945  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2007 2.3649893  1.3318981  0.000000 1.7659834 1.7659834 0.0000000  3.9117544
## X2008 1.1265013  0.6344161  3.176853 0.0000000 0.0000000 1.1838417  0.0000000
## X2101 0.0000000  3.5377218  0.000000 4.6907200 4.6907200 0.0000000 10.3902222
## X2102 2.7691172  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2103 0.0000000  2.1919406  0.000000 2.9063274 2.9063274 0.0000000  6.4376850
## X2104 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2106 0.0000000  2.2172118  0.000000 1.4699168 1.4699168 2.0686986  3.2559489
## X2202 0.0000000  3.7860389  0.000000 1.6733216 1.6733216 2.3549622  3.7065030
## X2206 0.0000000  0.0000000 30.204545 0.0000000 0.0000000 0.0000000  0.0000000
## X2208 3.2698252  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2209 0.0000000  3.5377218  0.000000 4.6907200 4.6907200 0.0000000 10.3902222
## X2302 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2309 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 4.1943407  0.0000000
## X2402 3.7978668  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2403 3.7978668  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2507 0.0000000  0.0000000 23.729708 0.0000000 0.0000000 0.0000000  0.0000000
## X2508 1.9440463  1.0948347  0.000000 0.0000000 0.0000000 2.0430009  0.0000000
## X2512 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2517 1.3664149  0.7695287  3.853436 0.0000000 0.0000000 0.0000000  0.0000000
## X2519 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 4.1943407  0.0000000
## X2520 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2522 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2525 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2530 3.0772452  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2602 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2606 3.7978668  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2607 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2608 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2710 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2713 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X2714 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X2716 1.8741945  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2804 1.6328933  0.9196020  0.000000 0.0000000 0.0000000 1.7160098  0.0000000
## X2811 1.6328933  0.9196020  0.000000 0.0000000 0.0000000 1.7160098  0.0000000
## X2825 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2826 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 4.1943407  0.0000000
## X2832 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 4.1943407  0.0000000
## X2833 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 4.1943407  0.0000000
## X2835 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 4.1943407  0.0000000
## X2836 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X2901 1.6328933  0.9196020  0.000000 0.0000000 0.0000000 1.7160098  0.0000000
## X2903 0.0000000  0.0000000  0.000000 2.7049117 2.7049117 0.0000000  0.0000000
## X2907 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 4.1943407  0.0000000
## X2915 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 4.1943407  0.0000000
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## X2933 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 4.1943407  0.0000000
## X3105 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3202 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 4.1943407  0.0000000
## X3204 1.8969151  1.0682917  0.000000 0.0000000 0.0000000 1.9934707  0.0000000
## X3205 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X3206 0.0000000  1.2680622  0.000000 1.6813424 1.6813424 2.3662503  0.0000000
## X3207 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3208 0.0000000  0.0000000  0.000000 2.4936554 2.4936554 0.0000000  0.0000000
## X3209 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X3210 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 4.1943407  0.0000000
## X3211 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X3212 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3214 0.0000000  0.0000000  0.000000 2.7049117 2.7049117 0.0000000  0.0000000
## X3215 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X3302 0.0000000  2.7467497  0.000000 1.8209781 1.8209781 2.5627679  4.0335710
## X3303 3.7978668  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3304 3.7978668  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3305 3.2249778  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3307 3.7978668  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3402 1.3866282  1.5618246  0.000000 1.0354226 1.0354226 1.4572094  2.2935182
## X3403 1.7953373  1.0110859  0.000000 0.0000000 0.0000000 1.8867224  0.0000000
## X3506 1.3990449  0.7879051  0.000000 2.0893888 2.0893888 0.0000000  2.3140559
## X3507 0.0000000  2.7467497  0.000000 1.8209781 1.8209781 2.5627679  4.0335710
## X3605 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3701 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X3707 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X3802 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3808 3.7978668  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3809 1.5518568  0.8739645  0.000000 0.0000000 0.0000000 1.6308484  0.0000000
## X3810 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3811 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3814 0.0000000  1.2680622  0.000000 1.6813424 1.6813424 2.3662503  0.0000000
## X3815 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 4.1943407  0.0000000
## X3816 3.7978668  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3819 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3820 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3823 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3902 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 4.1943407  0.0000000
## X3908 2.3649893  1.3318981  0.000000 1.7659834 1.7659834 0.0000000  3.9117544
## X3909 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 4.1943407  0.0000000
## X3910 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 4.1943407  0.0000000
## X3911 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 4.1943407  0.0000000
## X3915 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 4.1943407  0.0000000
## X3916 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X3917 1.4465342  0.8146497  4.079382 0.0000000 0.0000000 1.5201647  0.0000000
## X3919 0.0000000  1.2680622  0.000000 1.6813424 1.6813424 2.3662503  0.0000000
## X3920 0.0000000  1.0389036  0.000000 1.3774974 1.3774974 1.9386314  0.0000000
## X3921 0.0000000  1.1571159  0.000000 1.5342369 1.5342369 2.1592202  0.0000000
## X3923 0.0000000  1.8287610  9.157595 2.4247818 2.4247818 0.0000000  5.3710326
## X3924 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X3925 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 4.1943407  0.0000000
## X3926 1.4245557  0.8022720  0.000000 0.0000000 0.0000000 1.4970675  0.0000000
## X4001 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X4005 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X4006 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X4008 3.7978668  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X4009 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X4010 0.0000000  1.5780841  7.902318 2.0924053 2.0924053 0.0000000  4.6347986
## X4012 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X4013 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X4015 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X4016 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X4202 0.0000000  2.1628014  0.000000 1.4338449 1.4338449 2.0179326  0.0000000
## X4203 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X4409 0.0000000  2.2359608  5.598326 1.4823466 1.4823466 2.0861918  3.2834817
## X4415 0.0000000  2.2172118  0.000000 1.4699168 1.4699168 2.0686986  3.2559489
## X4416 0.0000000  1.1571159  5.794299 0.0000000 0.0000000 2.1592202  0.0000000
## X4418 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X4420 0.0000000  0.0000000 30.204545 0.0000000 0.0000000 0.0000000  0.0000000
## X4421 2.8021309  0.0000000  7.902318 0.0000000 0.0000000 0.0000000  0.0000000
## X4602 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X4804 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 4.1943407  0.0000000
## X4808 0.0000000  1.0682917  0.000000 1.4164635 1.4164635 1.9934707  0.0000000
## X4818 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X4819 0.0000000  3.5377218  0.000000 4.6907200 4.6907200 0.0000000 10.3902222
## X4821 0.0000000  1.5971245  0.000000 4.2353027 4.2353027 0.0000000  4.6907200
## X4822 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 4.1943407  0.0000000
## X4823 0.0000000  1.6888096  0.000000 0.0000000 0.0000000 3.1513815  0.0000000
## X4901 3.7978668  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
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## X4902 3.7978668  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X4907 3.7978668  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X4911 2.3649893  1.3318981  0.000000 1.7659834 1.7659834 0.0000000  3.9117544
## X5111 0.0000000  1.9216394  0.000000 0.0000000 0.0000000 3.5858510  0.0000000
## X5112 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X5205 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X5206 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X5208 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X5209 0.0000000  1.5971245  0.000000 4.2353027 4.2353027 0.0000000  4.6907200
## X5210 0.0000000 19.6620675  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X5211 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X5402 0.0000000  0.0000000  0.000000 2.7049117 2.7049117 0.0000000  0.0000000
## X5407 1.4116854  0.7950238  0.000000 1.0541333 1.0541333 1.4835421  0.0000000
## X5408 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X5505 0.0000000  0.0000000 24.161363 0.0000000 0.0000000 0.0000000  0.0000000
## X5508 1.9767872  1.1132735  0.000000 1.4761055 1.4761055 0.0000000  3.2696575
## X5509 0.0000000  0.0000000  9.094794 2.4081531 2.4081531 0.0000000  0.0000000
## X5511 0.0000000  0.0000000 30.204545 0.0000000 0.0000000 0.0000000  0.0000000
## X5512 0.0000000  2.0400338 10.215554 2.7049117 2.7049117 0.0000000  5.9915371
## X5513 0.0000000 19.6620675  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X5514 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X5515 0.0000000  2.7924609  0.000000 3.7025668 3.7025668 0.0000000  8.2014033
## X5516 0.0000000 19.6620675  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X5601 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X5603 0.0000000  0.0000000  0.000000 1.5971245 1.5971245 2.2477256  3.5377218
## X5609 0.0000000  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X5806 0.0000000  1.5971245  0.000000 0.0000000 4.2353027 0.0000000  4.6907200
## X5807 0.0000000  1.5971245  0.000000 4.2353027 0.0000000 0.0000000  4.6907200
## X5903 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X5907 0.0000000  3.5377218  0.000000 4.6907200 4.6907200 0.0000000  0.0000000
## X5911 0.0000000  2.9130367  7.293571 1.9312193 1.9312193 0.0000000  0.0000000
## X6002 1.1237967  1.8986787  0.000000 1.6783227 1.6783227 1.1809994  1.8587877
## X6101 0.0000000  3.5377218  0.000000 4.6907200 4.6907200 0.0000000 10.3902222
## X6103 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X6104 2.1886896  0.0000000  0.000000 1.6343371 1.6343371 0.0000000  0.0000000
## X6105 0.0000000  3.5377218  0.000000 4.6907200 4.6907200 0.0000000 10.3902222
## X6106 2.1886896  0.0000000  0.000000 1.6343371 1.6343371 0.0000000  0.0000000
## X6107 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X6109 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X6110 0.0000000  2.2288180 11.160901 2.9552238 2.9552238 0.0000000  6.5459935
## X6111 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X6112 0.0000000  0.0000000  0.000000 2.5665507 2.5665507 0.0000000  0.0000000
## X6114 0.0000000  1.4406619  7.214169 1.9101951 1.9101951 0.0000000  0.0000000
## X6115 2.0912350  0.0000000  0.000000 1.5615659 1.5615659 0.0000000  0.0000000
## X6117 0.0000000  3.5377218  0.000000 4.6907200 4.6907200 0.0000000 10.3902222
## X6201 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X6202 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X6203 0.0000000  1.5503586  0.000000 4.1112872 4.1112872 0.0000000  4.5533692
## X6204 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X6205 2.3649893  1.3318981  0.000000 1.7659834 1.7659834 0.0000000  3.9117544
## X6206 1.7749670  0.0000000  5.005600 1.3254025 1.3254025 0.0000000  0.0000000
## X6210 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X6211 0.0000000  2.4537879  0.000000 3.2535135 3.2535135 0.0000000  3.6033589
## X6212 0.0000000  1.5039753  0.000000 1.9941420 1.9941420 1.4032349  2.2085671
## X6217 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X6302 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X6303 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X6304 0.0000000  0.0000000  0.000000 3.8654492 3.8654492 0.0000000  0.0000000
## X6305 0.0000000  1.2680622  0.000000 1.6813424 1.6813424 2.3662503  0.0000000
## X6306 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 4.1943407  0.0000000
## X6307 0.0000000  0.0000000  0.000000 3.3496549 3.3496549 0.0000000  0.0000000
## X6401 3.7978668  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X6403 3.2698252  0.0000000  0.000000 0.0000000 0.0000000 0.0000000  0.0000000
## X6404 0.0000000  2.2477256  0.000000 0.0000000 0.0000000 4.1943407  0.0000000
##            X5911     X6002      X6101    X6103     X6104      X6105     X6106
## X102   0.0000000 1.1237967  0.0000000 0.000000 2.1886896  0.0000000 2.1886896
## X210   0.0000000 1.1516889  6.4376850 0.000000 0.0000000  6.4376850 0.0000000
## X401   0.0000000 1.1504976  0.0000000 0.000000 1.1203440  0.0000000 1.1203440
## X403   0.0000000 1.0425497  2.9137999 0.000000 1.0152250  2.9137999 1.0152250
## X406   0.0000000 1.5662071  8.7547564 0.000000 0.0000000  8.7547564 0.0000000
## X510   0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X602   0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X603   0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X702   2.0236345 0.8793227  1.6383915 0.000000 0.5708489  1.6383915 0.5708489
## X703   0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X709   0.8398709 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X712   0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X713   0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X804   0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
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## X805   0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X808   0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X809   0.0000000 1.1237967  0.0000000 0.000000 2.1886896  0.0000000 2.1886896
## X813   7.2935712 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X901   0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X904   0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X1001  1.5407068 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X1003  0.9041391 0.7857430  0.0000000 0.000000 0.7651480  0.0000000 0.7651480
## X1005  1.7515613 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X1102  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X1108  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X1202  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X1208  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X1213  1.5044755 0.6537314  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X1214  2.6971325 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X1302  3.2074305 0.3484279  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X1507  0.0000000 1.8587877 10.3902222 0.000000 0.0000000 10.3902222 0.0000000
## X1514  0.0000000 1.8587877 10.3902222 0.000000 0.0000000 10.3902222 0.0000000
## X1517  0.0000000 1.1504976  0.0000000 0.000000 1.1203440  0.0000000 1.1203440
## X1601  0.0000000 1.1516889  6.4376850 0.000000 0.0000000  6.4376850 0.0000000
## X1602  0.0000000 1.1363807  3.1760477 0.000000 1.1065970  3.1760477 1.1065970
## X1704  1.1438179 0.4970174  0.0000000 0.000000 0.9679814  0.0000000 0.9679814
## X1806  0.7998461 0.6951076  0.0000000 0.000000 0.6768878  0.0000000 0.6768878
## X1901  0.7671260 1.0000086  1.8632613 0.000000 0.6491978  1.8632613 0.6491978
## X1902  0.0000000 1.8587877 10.3902222 0.000000 0.0000000 10.3902222 0.0000000
## X1905  1.4570882 0.9497144  0.0000000 1.458221 1.2330939  0.0000000 1.2330939
## X2001  0.0000000 1.8587877 10.3902222 0.000000 0.0000000 10.3902222 0.0000000
## X2002  0.0000000 1.8587877 10.3902222 0.000000 0.0000000 10.3902222 0.0000000
## X2003  0.0000000 1.8587877 10.3902222 0.000000 0.0000000 10.3902222 0.0000000
## X2004  0.0000000 1.8587877 10.3902222 0.000000 0.0000000 10.3902222 0.0000000
## X2005  1.0709589 0.9307170  2.6012390 0.000000 0.9063229  2.6012390 0.9063229
## X2006  0.0000000 1.0718742  0.0000000 0.000000 2.0875660  0.0000000 2.0875660
## X2007  0.0000000 1.3996128  3.9117544 0.000000 1.3629309  3.9117544 1.3629309
## X2008  0.7671260 0.6666724  0.0000000 0.000000 0.6491978  0.0000000 0.6491978
## X2101  0.0000000 1.8587877 10.3902222 0.000000 0.0000000 10.3902222 0.0000000
## X2102  0.0000000 0.8193883  0.0000000 0.000000 1.5958274  0.0000000 1.5958274
## X2103  0.0000000 1.1516889  6.4376850 0.000000 0.0000000  6.4376850 0.0000000
## X2104  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X2106  0.0000000 1.1649689  3.2559489 0.000000 0.0000000  3.2559489 0.0000000
## X2202  1.5260072 1.3261749  3.7065030 0.000000 0.0000000  3.7065030 0.0000000
## X2206  7.2935712 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X2208  2.2266863 0.9675485  0.0000000 0.000000 1.8843824  0.0000000 1.8843824
## X2209  0.0000000 1.8587877 10.3902222 0.000000 0.0000000 10.3902222 0.0000000
## X2302  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X2309  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X2402  0.0000000 1.1237967  0.0000000 0.000000 2.1886896  0.0000000 2.1886896
## X2403  0.0000000 1.1237967  0.0000000 0.000000 2.1886896  0.0000000 2.1886896
## X2507  5.7300757 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X2508  0.0000000 1.1504976  0.0000000 0.000000 1.1203440  0.0000000 1.1203440
## X2512 16.0491450 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X2517  1.8610046 0.4043269  0.0000000 0.000000 0.7874585  0.0000000 0.7874585
## X2519  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X2520  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X2522  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X2525  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X2530  0.0000000 0.9105638  0.0000000 0.000000 1.7733997  0.0000000 1.7733997
## X2602  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X2606  0.0000000 1.1237967  0.0000000 0.000000 2.1886896  0.0000000 2.1886896
## X2607  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X2608  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X2710  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X2713  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X2714  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X2716  1.2762900 0.5545796  0.0000000 0.000000 1.0800888  0.0000000 1.0800888
## X2804  0.0000000 0.9663564  0.0000000 0.000000 0.9410284  0.0000000 0.9410284
## X2811  0.0000000 0.9663564  0.0000000 0.000000 0.9410284  0.0000000 0.9410284
## X2825  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X2826  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X2832  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X2833  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X2835  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X2836  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X2901  0.0000000 0.9663564  0.0000000 0.000000 0.9410284  0.0000000 0.9410284
## X2903  2.4667789 1.0718742  0.0000000 4.937404 2.0875660  0.0000000 2.0875660
## X2907  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X2915  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X2933  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X3105  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X3202  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
```

```
## X3204  0.0000000 1.1226053  0.0000000 0.000000 1.0931826  0.0000000 1.0931826
## X3205  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X3206  1.5333219 1.3325316  0.0000000 3.069033 1.2976077  0.0000000 1.2976077
## X3207  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X3208  2.2741210 0.9881599  0.0000000 4.551788 1.9245250  0.0000000 1.9245250
## X3209  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X3210  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X3211  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X3212  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X3214  2.4667789 1.0718742  0.0000000 4.937404 2.0875660  0.0000000 2.0875660
## X3215  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X3302  0.0000000 1.4431981  4.0335710 0.000000 0.0000000  4.0335710 0.0000000
## X3303  0.0000000 1.1237967  0.0000000 0.000000 2.1886896  0.0000000 2.1886896
## X3304  0.0000000 1.1237967  0.0000000 0.000000 2.1886896  0.0000000 2.1886896
## X3305  0.0000000 0.9542781  0.0000000 0.000000 1.8585371  0.0000000 1.8585371
## X3307  0.0000000 1.1237967  0.0000000 0.000000 2.1886896  0.0000000 2.1886896
## X3402  0.0000000 1.2309242  2.2935182 0.000000 0.7991073  2.2935182 0.7991073
## X3403  0.0000000 1.0624912  0.0000000 0.000000 1.0346439  0.0000000 1.0346439
## X3506  0.9527227 1.2419466  2.3140559 1.906928 1.6125259  2.3140559 1.6125259
## X3507  0.0000000 1.4431981  4.0335710 0.000000 0.0000000  4.0335710 0.0000000
## X3605  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X3701  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X3707  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X3802  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X3808  0.0000000 1.1237967  0.0000000 0.000000 2.1886896  0.0000000 2.1886896
## X3809  0.0000000 0.9183988  0.0000000 0.000000 0.8943275  0.0000000 0.8943275
## X3810  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X3811  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X3814  1.5333219 1.3325316  0.0000000 3.069033 1.2976077  0.0000000 1.2976077
## X3815  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X3816  0.0000000 1.1237967  0.0000000 0.000000 2.1886896  0.0000000 2.1886896
## X3819  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X3820  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X3823  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X3902  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X3908  0.0000000 1.3996128  3.9117544 0.000000 1.3629309  3.9117544 1.3629309
## X3909  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X3910  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X3911  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X3915  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X3916  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X3917  0.9850619 0.8560686  0.0000000 0.000000 0.8336307  0.0000000 0.8336307
## X3919  1.5333219 1.3325316  0.0000000 3.069033 1.2976077  0.0000000 1.2976077
## X3920  1.2562266 1.0917232  0.0000000 2.514410 1.0631098  0.0000000 1.0631098
## X3921  1.3991672 1.2159451  0.0000000 2.800514 1.1840764  0.0000000 1.1840764
## X3923  2.2113109 0.9608675  5.3710326 0.000000 0.0000000  5.3710326 0.0000000
## X3924  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X3925  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X3926  0.0000000 0.8430617  0.0000000 0.000000 0.8209647  0.0000000 0.8209647
## X4001  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X4005  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X4006  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X4008  0.0000000 1.1237967  0.0000000 0.000000 2.1886896  0.0000000 2.1886896
## X4009  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X4010  1.9081959 0.8291571  4.6347986 0.000000 0.0000000  4.6347986 0.0000000
## X4012  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X4013  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X4015  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X4016  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X4202  2.6152269 1.1363807  0.0000000 2.617264 1.1065970  0.0000000 1.1065970
## X4203  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X4409  1.3518451 1.1748200  3.2834817 0.000000 0.0000000  3.2834817 0.0000000
## X4415  0.0000000 1.1649689  3.2559489 0.000000 0.0000000  3.2559489 0.0000000
## X4416  2.7983344 0.6079725  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X4418  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X4420  7.2935712 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X4421  1.9081959 0.8291571  0.0000000 0.000000 1.6148530  0.0000000 1.6148530
## X4602  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X4804  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X4808  1.2917623 1.1226053  0.0000000 2.585537 1.0931826  0.0000000 1.0931826
## X4818  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X4819  0.0000000 1.8587877 10.3902222 0.000000 0.0000000 10.3902222 0.0000000
## X4821  1.9312193 1.6783227  4.6907200 3.865449 1.6343371  4.6907200 1.6343371
## X4822  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X4823  0.0000000 0.8873344  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X4901  0.0000000 1.1237967  0.0000000 0.000000 2.1886896  0.0000000 2.1886896
## X4902  0.0000000 1.1237967  0.0000000 0.000000 2.1886896  0.0000000 2.1886896
## X4907  0.0000000 1.1237967  0.0000000 0.000000 2.1886896  0.0000000 2.1886896
## X4911  0.0000000 1.3996128  3.9117544 0.000000 1.3629309  3.9117544 1.3629309
```

```
## X5111  2.3236181 1.0096676  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X5112 16.0491450 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X5205  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X5206  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X5208  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X5209  1.9312193 1.6783227  4.6907200 3.865449 1.6343371  4.6907200 1.6343371
## X5210 23.7750904 5.1654124  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X5211  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X5402  2.4667789 1.0718742  0.0000000 4.937404 2.0875660  0.0000000 2.0875660
## X5407  0.9613306 1.2531676  0.0000000 1.924158 1.6270952  0.0000000 1.6270952
## X5408  0.0000000 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X5505  5.8343088 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X5508  0.0000000 1.1698738  3.2696575 0.000000 1.1392124  3.2696575 1.1392124
## X5509  4.3922922 0.9542781  0.0000000 4.395716 1.8585371  0.0000000 1.8585371
## X5511  7.2935712 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X5512  2.4667789 1.0718742  5.9915371 0.000000 0.0000000  5.9915371 0.0000000
## X5513 23.7750904 5.1654124  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X5514  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X5515  3.3766031 1.4672136  8.2014033 0.000000 0.0000000  8.2014033 0.0000000
## X5516 23.7750904 5.1654124  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X5601  0.0000000 1.1237967  0.0000000 0.000000 2.1886896  0.0000000 2.1886896
## X5603  2.9130367 1.8986787  3.5377218 0.000000 0.0000000  3.5377218 0.0000000
## X5609  7.2935712 0.0000000  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X5806  1.9312193 1.6783227  4.6907200 3.865449 1.6343371  4.6907200 1.6343371
## X5807  1.9312193 1.6783227  4.6907200 3.865449 1.6343371  4.6907200 1.6343371
## X5903  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X5907  0.0000000 1.8587877 10.3902222 0.000000 0.0000000 10.3902222 0.0000000
## X5911  0.0000000 1.5305684  0.0000000 3.525146 1.4904548  0.0000000 1.4904548
## X6002  1.5305684 0.0000000  1.8587877 1.531759 1.2952781  1.8587877 1.2952781
## X6101  0.0000000 1.8587877  0.0000000 0.000000 0.0000000 10.3902222 0.0000000
## X6103  3.5251458 1.5317588  0.0000000 0.000000 2.9832320  0.0000000 2.9832320
## X6104  1.4904548 1.2952781  0.0000000 2.983232 0.0000000  0.0000000 2.5226609
## X6105  0.0000000 1.8587877 10.3902222 0.000000 0.0000000  0.0000000 0.0000000
## X6106  1.4904548 1.2952781  0.0000000 2.983232 2.5226609  0.0000000 0.0000000
## X6107  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X6109  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X6110  2.6950542 1.1710650  6.5459935 0.000000 0.0000000  6.5459935 0.0000000
## X6111  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X6112  2.3405988 1.0170461  0.0000000 4.684847 1.9807834  0.0000000 1.9807834
## X6114  6.9681080 0.7569529  0.0000000 3.486769 1.4742289  0.0000000 1.4742289
## X6115  1.4240902 1.2376043  0.0000000 2.850399 2.4103359  0.0000000 2.4103359
## X6117  0.0000000 1.8587877 10.3902222 0.000000 0.0000000 10.3902222 0.0000000
## X6201  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X6202  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X6203  1.8746706 1.6291793  4.5533692 3.752264 1.5864815  4.5533692 1.5864815
## X6204  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X6205  0.0000000 1.3996128  3.9117544 0.000000 1.3629309  3.9117544 1.3629309
## X6206  2.4174361 1.0504360  0.0000000 2.419319 2.0458092  0.0000000 2.0458092
## X6210  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X6211  2.9670836 1.2892704  3.6033589 2.969395 1.2554802  3.6033589 1.2554802
## X6212  0.9092919 1.1853316  2.2085671 1.819999 0.7695087  2.2085671 0.7695087
## X6217  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X6302  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X6303  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X6304  3.5251458 1.5317588  0.0000000 7.055790 2.9832320  0.0000000 2.9832320
## X6305  1.5333219 1.3325316  0.0000000 3.069033 1.2976077  0.0000000 1.2976077
## X6306  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
## X6307  3.0547606 1.3273657  0.0000000 6.114286 2.5851583  0.0000000 2.5851583
## X6401  0.0000000 1.1237967  0.0000000 0.000000 2.1886896  0.0000000 2.1886896
## X6403  0.0000000 0.9675485  0.0000000 0.000000 1.8843824  0.0000000 1.8843824
## X6404  0.0000000 1.1809994  0.0000000 0.000000 0.0000000  0.0000000 0.0000000
##          X6107    X6109     X6110    X6111      X6112      X6114      X6115
## X102  0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  2.0912350
## X210  0.000000 0.000000  4.055837 0.000000  0.0000000  0.0000000  0.0000000
## X401  0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  1.0704591
## X403  0.000000 0.000000  1.835738 0.000000  0.0000000  0.0000000  0.9700207
## X406  0.000000 0.000000  5.515626 0.000000  0.0000000  0.0000000  0.0000000
## X510  0.000000 0.000000  0.000000 0.000000 60.9467442  0.0000000  0.0000000
## X602  0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X603  0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X702  0.000000 0.000000  2.064424 0.000000  0.0000000  2.0016042  0.5454312
## X703  0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X709  0.000000 0.000000  1.285201 0.000000  1.1161704  0.8307277  0.0000000
## X712  0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X713  0.000000 0.000000  0.000000 0.000000  1.8889239  0.0000000  0.0000000
## X804  0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X805  0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X808  0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X809  0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  2.0912350
```

```
## X813  0.000000 0.000000 11.160901 0.000000  0.0000000  7.2141695  0.0000000
## X901  0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X904  0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X1001 0.000000 0.000000  0.000000 0.000000  2.0475673  1.5239339  1.2458013
## X1003 0.000000 0.000000  0.000000 0.000000  1.2015815  0.8942962  1.4621577
## X1005 0.000000 0.000000  0.000000 0.000000  0.0000000  1.7324929  1.4162961
## X1102 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X1108 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X1202 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X1208 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X1213 0.000000 0.000000  0.000000 0.000000  0.0000000  1.4880970  0.0000000
## X1214 0.000000 0.000000  1.375750 0.000000  1.1948104  3.5570269  0.0000000
## X1302 0.000000 0.000000  1.227031 0.000000  1.0656515  3.1725129  0.0000000
## X1507 0.000000 0.000000  6.545993 0.000000  0.0000000  0.0000000  0.0000000
## X1514 0.000000 0.000000  6.545993 0.000000  0.0000000  0.0000000  0.0000000
## X1517 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  1.0704591
## X1601 0.000000 0.000000  4.055837 0.000000  0.0000000  0.0000000  0.0000000
## X1602 0.000000 0.000000  2.000958 0.000000  0.0000000  0.0000000  1.0573242
## X1704 0.000000 0.000000  1.750312 0.000000  0.0000000  1.1313657  1.8497615
## X1806 0.000000 0.000000  1.223953 0.000000  0.0000000  0.7911386  1.2934971
## X1901 0.000000 0.000000  2.347767 0.000000  0.0000000  0.7587747  0.6202914
## X1902 0.000000 0.000000  6.545993 0.000000  0.0000000  0.0000000  0.0000000
## X1905 1.458221 1.458221  1.114844 1.458221  0.9682192  1.4412256  1.1781889
## X2001 0.000000 0.000000  6.545993 0.000000  0.0000000  0.0000000  0.0000000
## X2002 0.000000 0.000000  6.545993 0.000000  0.0000000  0.0000000  0.0000000
## X2003 0.000000 0.000000  6.545993 0.000000  0.0000000  0.0000000  0.0000000
## X2004 0.000000 0.000000  6.545993 0.000000  0.0000000  0.0000000  0.0000000
## X2005 0.000000 0.000000  3.277640 0.000000  0.0000000  1.0592999  0.8659677
## X2006 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  1.9946141
## X2007 0.000000 0.000000  2.464464 0.000000  0.0000000  0.0000000  1.3022445
## X2008 0.000000 0.000000  1.173883 0.000000  0.0000000  0.7587747  0.6202914
## X2101 0.000000 0.000000  6.545993 0.000000  0.0000000  0.0000000  0.0000000
## X2102 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  1.5247709
## X2103 0.000000 0.000000  4.055837 0.000000  0.0000000  0.0000000  0.0000000
## X2104 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X2106 0.000000 0.000000  2.051297 0.000000  0.0000000  0.0000000  0.0000000
## X2202 0.000000 0.000000  2.335153 0.000000  0.0000000  1.5093943  0.0000000
## X2206 0.000000 0.000000 11.160901 0.000000  0.0000000  7.2141695  0.0000000
## X2208 0.000000 0.000000  0.000000 0.000000  0.0000000  2.2024454  1.8004775
## X2209 0.000000 0.000000  6.545993 0.000000  0.0000000  0.0000000  0.0000000
## X2302 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X2309 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X2402 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  2.0912350
## X2403 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  2.0912350
## X2507 0.000000 0.000000  8.768380 0.000000  0.0000000 11.3353901  0.0000000
## X2508 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  1.0704591
## X2512 0.000000 0.000000  0.000000 0.000000  0.0000000 15.8744252  0.0000000
## X2517 0.000000 0.000000  1.423888 0.000000  1.2366176  1.8407448  0.7523959
## X2519 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X2520 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X2522 0.000000 0.000000  0.000000 0.000000  8.5294113  0.0000000  0.0000000
## X2525 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X2530 0.000000 0.000000  0.000000 0.000000  0.0000000  2.0727300  1.6944365
## X2602 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X2606 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  2.0912350
## X2607 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X2608 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X2710 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X2713 7.055790 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X2714 7.055790 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X2716 0.000000 0.000000  0.000000 0.000000  0.0000000  2.5247913  1.0319964
## X2804 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.8991278
## X2811 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.8991278
## X2825 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X2826 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X2832 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X2833 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X2835 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X2836 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X2901 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.8991278
## X2903 4.937404 4.937404  0.000000 4.937404  3.2782987  2.4399242  1.9946141
## X2907 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X2915 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X2933 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X3105 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X3202 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X3204 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  1.0445071
## X3205 7.055790 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X3206 3.069033 3.069033  0.000000 3.069033  2.0377529  1.5166293  1.2398299
```

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## X3207 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X3208 4.551788 4.551788  0.000000 4.551788  3.0222602  2.2493637  1.8388328
## X3209 7.055790 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X3210 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X3211 7.055790 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X3212 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X3214 4.937404 4.937404  0.000000 4.937404  3.2782987  2.4399242  1.9946141
## X3215 7.055790 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X3302 0.000000 0.000000  2.541210 0.000000  0.0000000  0.0000000  0.0000000
## X3303 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  2.0912350
## X3304 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  2.0912350
## X3305 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  1.7757831
## X3307 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  2.0912350
## X3402 0.000000 0.000000  1.444952 0.000000  0.0000000  0.0000000  0.7635260
## X3403 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.9885750
## X3506 1.906928 1.906928  1.457891 1.906928  1.2661481  0.9423509  1.5407261
## X3507 0.000000 0.000000  2.541210 0.000000  0.0000000  0.0000000  0.0000000
## X3605 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X3701 7.055790 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X3707 7.055790 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X3802 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X3808 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  2.0912350
## X3809 0.000000 0.000000  0.000000 0.000000  1.4044442  0.0000000  0.8545064
## X3810 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X3811 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X3814 3.069033 3.069033  0.000000 3.069033  2.0377529  1.5166293  1.2398299
## X3815 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X3816 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  2.0912350
## X3819 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X3820 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X3823 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X3902 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X3908 0.000000 0.000000  2.464464 0.000000  0.0000000  0.0000000  1.3022445
## X3909 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X3910 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X3911 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X3915 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X3916 7.055790 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X3917 0.000000 0.000000  1.507377 0.000000  1.3091263  0.9743380  0.7965122
## X3919 3.069033 3.069033  0.000000 3.069033  2.0377529  1.5166293  1.2398299
## X3920 2.514410 2.514410  0.000000 2.514410  1.6694988  1.2425507  1.0157734
## X3921 2.800514 2.800514  0.000000 2.800514  1.8594640  1.3839351  1.1313537
## X3923 0.000000 0.000000  6.767661 0.000000  0.0000000  2.1872374  1.7880451
## X3924 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000 25.9565787
## X3925 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X3926 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.7844101
## X4001 7.055790 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X4005 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X4006 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X4008 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  2.0912350
## X4009 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X4010 0.000000 0.000000  5.839985 0.000000  2.5359531  1.8874223  0.0000000
## X4012 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X4013 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X4015 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X4016 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X4202 2.617264 2.617264  0.000000 2.617264  1.7377909  2.5867562  1.0573242
## X4203 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X4409 0.000000 0.000000  4.137286 0.000000  0.0000000  1.3371282  0.0000000
## X4415 0.000000 0.000000  2.051297 0.000000  0.0000000  0.0000000  0.0000000
## X4416 0.000000 0.000000  2.141057 0.000000  1.8594640  2.7678703  0.0000000
## X4418 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X4420 0.000000 0.000000 11.160901 0.000000  0.0000000  7.2141695  0.0000000
## X4421 0.000000 0.000000  2.919992 0.000000  0.0000000  1.8874223  1.5429494
## X4602 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X4804 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X4808 2.585537 2.585537  0.000000 2.585537  1.7167250  1.2776995  1.0445071
## X4818 7.055790 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X4819 0.000000 0.000000  6.545993 0.000000  0.0000000  0.0000000  0.0000000
## X4821 3.865449 3.865449  2.955224 3.865449  2.5665507  1.9101951  1.5615659
## X4822 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X4823 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X4901 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  2.0912350
## X4902 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  2.0912350
## X4907 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  2.0912350
## X4911 0.000000 0.000000  2.464464 0.000000  0.0000000  0.0000000  1.3022445
## X5111 0.000000 0.000000  0.000000 0.000000  0.0000000  2.2983219  0.0000000
## X5112 0.000000 0.000000  0.000000 0.000000  0.0000000 15.8744252  0.0000000
## X5205 7.055790 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
```

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## X5206 7.055790 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X5208 7.055790 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X5209 3.865449 3.865449  2.955224 3.865449  2.5665507  1.9101951  1.5615659
## X5210 0.000000 0.000000  0.000000 0.000000  0.0000000 11.7581309  0.0000000
## X5211 7.055790 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X5402 4.937404 4.937404  0.000000 4.937404  3.2782987  2.4399242  1.9946141
## X5407 1.924158 1.924158  0.000000 1.924158  1.2775878  0.9508651  1.5546466
## X5408 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X5505 0.000000 0.000000  8.927881 0.000000  0.0000000  5.7707934  0.0000000
## X5508 0.000000 0.000000  2.059934 0.000000  0.0000000  0.0000000  1.0884874
## X5509 4.395716 4.395716  3.360625 4.395716  2.9186331  4.3444754  1.7757831
## X5511 0.000000 0.000000 11.160901 0.000000  0.0000000  7.2141695  0.0000000
## X5512 0.000000 0.000000  7.549515 0.000000  0.0000000  2.4399242  0.0000000
## X5513 0.000000 0.000000  0.000000 0.000000  0.0000000 11.7581309  0.0000000
## X5514 7.055790 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X5515 0.000000 0.000000  5.167006 0.000000  0.0000000  3.3398436  0.0000000
## X5516 0.000000 0.000000  0.000000 0.000000  0.0000000 11.7581309  0.0000000
## X5601 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  2.0912350
## X5603 0.000000 0.000000  2.228818 0.000000  0.0000000  1.4406619  0.0000000
## X5609 0.000000 0.000000 11.160901 0.000000  0.0000000  7.2141695  0.0000000
## X5806 3.865449 3.865449  2.955224 3.865449  2.5665507  1.9101951  1.5615659
## X5807 3.865449 3.865449  2.955224 3.865449  2.5665507  1.9101951  1.5615659
## X5903 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X5907 0.000000 0.000000  6.545993 0.000000  0.0000000  0.0000000  0.0000000
## X5911 3.525146 3.525146  2.695054 3.525146  2.3405988  6.9681080  1.4240902
## X6002 1.531759 1.531759  1.171065 1.531759  1.0170461  0.7569529  1.2376043
## X6101 0.000000 0.000000  6.545993 0.000000  0.0000000  0.0000000  0.0000000
## X6103 7.055790 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X6104 2.983232 2.983232  0.000000 2.983232  1.9807834  1.4742289  2.4103359
## X6105 0.000000 0.000000  6.545993 0.000000  0.0000000  0.0000000  0.0000000
## X6106 2.983232 2.983232  0.000000 2.983232  1.9807834  1.4742289  2.4103359
## X6107 0.000000 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X6109 7.055790 0.000000  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X6110 0.000000 0.000000  0.000000 0.000000  0.0000000  2.6657144  0.0000000
## X6111 7.055790 7.055790  0.000000 0.000000  4.6848473  3.4867692  2.8503992
## X6112 4.684847 4.684847  0.000000 4.684847  0.0000000  2.3151178  1.8925861
## X6114 3.486769 3.486769  2.665714 3.486769  2.3151178  0.0000000  1.4085868
## X6115 2.850399 2.850399  0.000000 2.850399  1.8925861  1.4085868  0.0000000
## X6117 0.000000 0.000000  6.545993 0.000000  0.0000000  0.0000000  0.0000000
## X6201 7.055790 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X6202 7.055790 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X6203 3.752264 3.752264  2.868691 3.752264  2.4913986  1.8542620  1.5158411
## X6204 7.055790 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X6205 0.000000 0.000000  2.464464 0.000000  0.0000000  0.0000000  1.3022445
## X6206 2.419319 2.419319  1.849625 2.419319  1.6063608  2.3911186  1.9547168
## X6210 7.055790 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X6211 2.969395 2.969395  2.270170 2.969395  1.9715961  2.9347824  1.1995782
## X6212 1.819999 1.819999  1.391431 1.819999  1.2084294  0.8993929  0.7352453
## X6217 7.055790 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X6302 7.055790 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X6303 7.055790 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X6304 7.055790 7.055790  0.000000 7.055790  4.6848473  3.4867692  2.8503992
## X6305 3.069033 3.069033  0.000000 3.069033  2.0377529  1.5166293  1.2398299
## X6306 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
## X6307 6.114286 6.114286  0.000000 6.114286  4.0597147  3.0215048  2.4700503
## X6401 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  2.0912350
## X6403 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  1.8004775
## X6404 0.000000 0.000000  0.000000 0.000000  0.0000000  0.0000000  0.0000000
##            X6117    X6201    X6202     X6203    X6204     X6205     X6206
## X102   0.0000000 0.000000 0.000000 0.0000000 0.000000 2.3649893 1.7749670
## X210   6.4376850 0.000000 0.000000 2.8212261 0.000000 2.4236876 0.0000000
## X401   0.0000000 0.000000 0.000000 0.0000000 0.000000 1.2105879 0.9085685
## X403   2.9137999 0.000000 0.000000 1.2769337 0.000000 2.1940030 0.8233199
## X406   8.7547564 0.000000 0.000000 3.8366497 0.000000 3.2960278 0.0000000
## X510   0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X602   0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X603   0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X702   1.6383915 0.000000 0.000000 0.7180041 0.000000 1.2336615 0.9258867
## X703   0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X709   0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.5764071
## X712   0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X713   0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.4877346
## X804   0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X805   0.0000000 0.000000 0.000000 2.9177782 0.000000 0.0000000 0.0000000
## X808   0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X809   0.0000000 0.000000 0.000000 0.0000000 0.000000 2.3649893 1.7749670
## X813   0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 5.0055996
## X901   0.0000000 0.000000 0.000000 3.3472927 0.000000 0.0000000 0.0000000
## X904   0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
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## X1001  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X1003  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.8267808 1.2410290
## X1005  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X1102  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X1108  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X1202  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X1208  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X1213  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X1214  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.6170179
## X1302  0.0000000 0.000000 0.000000 0.8535194 0.000000 0.0000000 0.5503185
## X1507 10.3902222 0.000000 0.000000 4.5533692 0.000000 3.9117544 0.0000000
## X1514 10.3902222 0.000000 0.000000 4.5533692 0.000000 3.9117544 0.0000000
## X1517  0.0000000 0.000000 0.000000 0.0000000 0.000000 1.2105879 0.9085685
## X1601  6.4376850 0.000000 0.000000 2.8212261 0.000000 2.4236876 0.0000000
## X1602  3.1760477 0.000000 0.000000 1.3918600 0.000000 2.3914672 0.8974201
## X1704  0.0000000 0.000000 0.000000 0.0000000 0.000000 1.0459525 1.5700135
## X1806  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.7314111 1.0978759
## X1901  1.8632613 0.000000 0.000000 0.8165501 0.000000 1.4029812 1.0529641
## X1902 10.3902222 0.000000 0.000000 4.5533692 0.000000 3.9117544 0.0000000
## X1905  0.0000000 1.458221 1.458221 0.7754824 1.458221 0.6662098 1.5000095
## X2001 10.3902222 0.000000 0.000000 4.5533692 0.000000 3.9117544 0.0000000
## X2002 10.3902222 0.000000 0.000000 4.5533692 0.000000 3.9117544 0.0000000
## X2003 10.3902222 0.000000 0.000000 4.5533692 0.000000 3.9117544 0.0000000
## X2004 10.3902222 0.000000 0.000000 4.5533692 0.000000 3.9117544 0.0000000
## X2005  2.6012390 0.000000 0.000000 1.1399583 0.000000 1.9586547 1.4700068
## X2006  0.0000000 0.000000 0.000000 0.0000000 0.000000 2.2557201 3.3859171
## X2007  3.9117544 0.000000 0.000000 1.7142730 0.000000 2.9454307 1.1052997
## X2008  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.7014906 1.0529641
## X2101 10.3902222 0.000000 0.000000 4.5533692 0.000000 3.9117544 0.0000000
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## X2103  6.4376850 0.000000 0.000000 2.8212261 0.000000 2.4236876 0.0000000
## X2104  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X2106  3.2559489 0.000000 0.000000 1.4268756 0.000000 1.2258151 0.0000000
## X2202  3.7065030 0.000000 0.000000 1.6243245 0.000000 1.3954415 0.0000000
## X2206  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 5.0055996
## X2208  0.0000000 0.000000 0.000000 0.0000000 0.000000 2.0361700 1.5281823
## X2209 10.3902222 0.000000 0.000000 4.5533692 0.000000 3.9117544 0.0000000
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## X2309  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X2402  0.0000000 0.000000 0.000000 0.0000000 0.000000 2.3649893 1.7749670
## X2403  0.0000000 0.000000 0.000000 0.0000000 0.000000 2.3649893 1.7749670
## X2507  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 3.9325683
## X2508  0.0000000 0.000000 0.000000 0.0000000 0.000000 1.2105879 0.9085685
## X2512  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X2517  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.8508883 1.9158229
## X2519  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X2520  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X2522  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X2525  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X2530  0.0000000 0.000000 0.000000 0.0000000 0.000000 1.9162476 1.4381785
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## X2608  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
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## X2714  0.0000000 7.055790 7.055790 3.7522635 7.055790 0.0000000 2.4193187
## X2716  0.0000000 0.000000 0.000000 0.0000000 0.000000 1.1670902 0.8759227
## X2804  0.0000000 0.000000 0.000000 0.0000000 0.000000 1.0168283 0.7631486
## X2811  0.0000000 0.000000 0.000000 0.0000000 0.000000 1.0168283 0.7631486
## X2825  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X2826  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X2832  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X2833  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X2835  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X2836  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
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## X2903  0.0000000 4.937404 4.937404 2.6257082 4.937404 0.0000000 1.6929585
## X2907  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X2915  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X2933  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X3105  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X3202  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X3204  0.0000000 0.000000 0.000000 0.0000000 0.000000 1.1812386 0.8865414
## X3205  0.0000000 7.055790 7.055790 3.7522635 7.055790 0.0000000 2.4193187
## X3206  0.0000000 3.069033 3.069033 1.6321104 3.069033 0.0000000 1.0523244
## X3207  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X3208  0.0000000 4.551788 4.551788 2.4206377 4.551788 0.0000000 1.5607369
## X3209  0.0000000 7.055790 7.055790 3.7522635 7.055790 0.0000000 2.4193187
```

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## X3210  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
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## X3212  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X3214  0.0000000 4.937404 4.937404 2.6257082 4.937404 0.0000000 1.6929585
## X3215  0.0000000 7.055790 7.055790 3.7522635 7.055790 0.0000000 2.4193187
## X3302  4.0335710 0.000000 0.000000 1.7676574 0.000000 1.5185773 0.0000000
## X3303  0.0000000 0.000000 0.000000 0.0000000 0.000000 2.3649893 1.7749670
## X3304  0.0000000 0.000000 0.000000 0.0000000 0.000000 2.3649893 1.7749670
## X3305  0.0000000 0.000000 0.000000 0.0000000 0.000000 2.0082429 1.5072225
## X3307  0.0000000 0.000000 0.000000 0.0000000 0.000000 2.3649893 1.7749670
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## X3403  0.0000000 0.000000 0.000000 0.0000000 0.000000 1.1179846 0.8390681
## X3506  2.3140559 1.906928 1.906928 2.0282088 1.906928 1.7424150 1.3077151
## X3507  4.0335710 0.000000 0.000000 1.7676574 0.000000 1.5185773 0.0000000
## X3605  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X3701  0.0000000 7.055790 7.055790 3.7522635 7.055790 0.0000000 2.4193187
## X3707  0.0000000 7.055790 7.055790 3.7522635 7.055790 0.0000000 2.4193187
## X3802  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X3808  0.0000000 0.000000 0.000000 0.0000000 0.000000 2.3649893 1.7749670
## X3809  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.9663657 0.7252755
## X3810  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X3811  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X3814  0.0000000 3.069033 3.069033 1.6321104 3.069033 0.0000000 1.0523244
## X3815  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X3816  0.0000000 0.000000 0.000000 0.0000000 0.000000 2.3649893 1.7749670
## X3819  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X3820  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X3823  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X3902  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X3908  3.9117544 0.000000 0.000000 1.7142730 0.000000 2.9454307 1.1052997
## X3909  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X3910  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X3911  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X3915  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X3916  0.0000000 7.055790 7.055790 3.7522635 7.055790 0.0000000 2.4193187
## X3917  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.9007798 1.3521041
## X3919  0.0000000 3.069033 3.069033 1.6321104 3.069033 0.0000000 1.0523244
## X3920  0.0000000 2.514410 2.514410 1.3371625 2.514410 0.0000000 0.8621532
## X3921  0.0000000 2.800514 2.800514 1.4893124 2.800514 0.0000000 0.9602537
## X3923  5.3710326 0.000000 0.000000 2.3537809 0.000000 2.0221101 1.5176301
## X3924  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X3925  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X3926  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.8870934 0.6657802
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## X4005  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X4006  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X4008  0.0000000 0.000000 0.000000 0.0000000 0.000000 2.3649893 1.7749670
## X4009  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
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## X4012  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X4013  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X4015  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X4016  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X4202  0.0000000 2.617264 2.617264 1.3918600 2.617264 0.0000000 0.8974201
## X4203  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X4409  3.2834817 0.000000 0.000000 1.4389415 0.000000 1.2361808 0.9277764
## X4415  3.2559489 0.000000 0.000000 1.4268756 0.000000 1.2258151 0.0000000
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## X4421  0.0000000 0.000000 0.000000 0.0000000 0.000000 1.7449299 2.6192030
## X4602  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X4804  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X4808  0.0000000 2.585537 2.585537 1.3749876 2.585537 0.0000000 0.8865414
## X4818  0.0000000 7.055790 7.055790 3.7522635 7.055790 0.0000000 2.4193187
## X4819 10.3902222 0.000000 0.000000 4.5533692 0.000000 3.9117544 0.0000000
## X4821  4.6907200 3.865449 3.865449 4.1112872 3.865449 1.7659834 1.3254025
## X4822  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X4823  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X4901  0.0000000 0.000000 0.000000 0.0000000 0.000000 2.3649893 1.7749670
## X4902  0.0000000 0.000000 0.000000 0.0000000 0.000000 2.3649893 1.7749670
## X4907  0.0000000 0.000000 0.000000 0.0000000 0.000000 2.3649893 1.7749670
## X4911  3.9117544 0.000000 0.000000 1.7142730 0.000000 2.9454307 1.1052997
## X5111  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X5112  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
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## X5206  0.0000000 7.055790 7.055790 3.7522635 7.055790 0.0000000 2.4193187
## X5208  0.0000000 7.055790 7.055790 3.7522635 7.055790 0.0000000 2.4193187
## X5209  4.6907200 3.865449 3.865449 4.1112872 3.865449 1.7659834 1.3254025
```

```
## X5210  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X5211  0.0000000 7.055790 7.055790 3.7522635 7.055790 0.0000000 2.4193187
## X5402  0.0000000 4.937404 4.937404 2.6257082 4.937404 0.0000000 1.6929585
## X5407  0.0000000 1.924158 1.924158 1.0232669 1.924158 0.8790789 1.3195304
## X5408  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X5505  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 4.0041037
## X5508  3.2696575 0.000000 0.000000 1.4328832 0.000000 2.4619523 0.9238703
## X5509  0.0000000 4.395716 4.395716 2.3376391 4.395716 0.0000000 3.0144450
## X5511  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 5.0055996
## X5512  5.9915371 0.000000 0.000000 2.6257082 0.000000 2.2557201 1.6929585
## X5513  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X5514  0.0000000 7.055790 7.055790 3.7522635 7.055790 0.0000000 2.4193187
## X5515  8.2014033 0.000000 0.000000 3.5941505 0.000000 3.0876992 0.0000000
## X5516  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X5601  0.0000000 0.000000 0.000000 0.0000000 0.000000 2.3649893 1.7749670
## X5603  3.5377218 0.000000 0.000000 1.5503586 0.000000 1.3318981 0.0000000
## X5609  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 5.0055996
## X5806  4.6907200 3.865449 3.865449 4.1112872 3.865449 1.7659834 1.3254025
## X5807  4.6907200 3.865449 3.865449 4.1112872 3.865449 1.7659834 1.3254025
## X5903  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X5907 10.3902222 0.000000 0.000000 4.5533692 0.000000 3.9117544 0.0000000
## X5911  0.0000000 3.525146 3.525146 1.8746706 3.525146 0.0000000 2.4174361
## X6002  1.8587877 1.531759 1.531759 1.6291793 1.531759 1.3996128 1.0504360
## X6101 10.3902222 0.000000 0.000000 4.5533692 0.000000 3.9117544 0.0000000
## X6103  0.0000000 7.055790 7.055790 3.7522635 7.055790 0.0000000 2.4193187
## X6104  0.0000000 2.983232 2.983232 1.5864815 2.983232 1.3629309 2.0458092
## X6105 10.3902222 0.000000 0.000000 4.5533692 0.000000 3.9117544 0.0000000
## X6106  0.0000000 2.983232 2.983232 1.5864815 2.983232 1.3629309 2.0458092
## X6107  0.0000000 7.055790 7.055790 3.7522635 7.055790 0.0000000 2.4193187
## X6109  0.0000000 7.055790 7.055790 3.7522635 7.055790 0.0000000 2.4193187
## X6110  6.5459935 0.000000 0.000000 2.8686908 0.000000 2.4644640 1.8496245
## X6111  0.0000000 7.055790 7.055790 3.7522635 7.055790 0.0000000 2.4193187
## X6112  0.0000000 4.684847 4.684847 2.4913986 4.684847 0.0000000 1.6063608
## X6114  0.0000000 3.486769 3.486769 1.8542620 3.486769 0.0000000 2.3911186
## X6115  0.0000000 2.850399 2.850399 1.5158411 2.850399 1.3022445 1.9547168
## X6117  0.0000000 0.000000 0.000000 4.5533692 0.000000 3.9117544 0.0000000
## X6201  0.0000000 0.000000 7.055790 3.7522635 7.055790 0.0000000 2.4193187
## X6202  0.0000000 7.055790 0.000000 3.7522635 7.055790 0.0000000 2.4193187
## X6203  4.5533692 3.752264 3.752264 0.0000000 3.752264 1.7142730 1.2865930
## X6204  0.0000000 7.055790 7.055790 3.7522635 0.000000 0.0000000 2.4193187
## X6205  3.9117544 0.000000 0.000000 1.7142730 0.000000 0.0000000 1.1052997
## X6206  0.0000000 2.419319 2.419319 1.2865930 2.419319 1.1052997 0.0000000
## X6210  0.0000000 7.055790 7.055790 3.7522635 7.055790 0.0000000 2.4193187
## X6211  3.6033589 2.969395 2.969395 4.7373693 2.969395 1.3566094 1.0181602
## X6212  2.2085671 1.819999 1.819999 1.9357509 1.819999 0.8314927 0.6240509
## X6217  0.0000000 7.055790 7.055790 3.7522635 7.055790 0.0000000 2.4193187
## X6302  0.0000000 7.055790 7.055790 3.7522635 7.055790 0.0000000 2.4193187
## X6303  0.0000000 7.055790 7.055790 3.7522635 7.055790 0.0000000 2.4193187
## X6304  0.0000000 7.055790 7.055790 3.7522635 7.055790 0.0000000 2.4193187
## X6305  0.0000000 3.069033 3.069033 1.6321104 3.069033 0.0000000 1.0523244
## X6306  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X6307  0.0000000 6.114286 6.114286 3.2515723 6.114286 0.0000000 2.0964920
## X6401  0.0000000 0.000000 0.000000 0.0000000 0.000000 2.3649893 1.7749670
## X6403  0.0000000 0.000000 0.000000 0.0000000 0.000000 2.0361700 1.5281823
## X6404  0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
##          X6210      X6211     X6212    X6217    X6302    X6303    X6304
## X102  0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X210  0.000000  2.2326087 1.3684089 0.000000 0.000000 0.000000 0.000000
## X401  0.000000  0.0000000 0.6834963 0.000000 0.000000 0.000000 0.000000
## X403  0.000000  1.0105162 0.6193657 0.000000 0.000000 0.000000 0.000000
## X406  0.000000  3.0361751 1.8609296 0.000000 0.000000 0.000000 0.000000
## X510  0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X602  0.000000  5.8764972 0.0000000 0.000000 0.000000 0.000000 0.000000
## X603  0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X702  0.000000  1.7046037 1.3930508 0.000000 0.000000 0.000000 0.000000
## X703  0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X709  0.000000  1.4149262 1.7344756 0.000000 0.000000 0.000000 0.000000
## X712  0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X713  0.000000  1.1972585 1.8345631 0.000000 0.000000 0.000000 0.000000
## X804  0.000000  0.0000000 1.6898981 0.000000 0.000000 0.000000 0.000000
## X805  0.000000  2.3090162 0.0000000 0.000000 0.000000 0.000000 0.000000
## X808  0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X809  0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X813  0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X901  0.000000  2.6489172 0.0000000 0.000000 0.000000 0.000000 0.000000
## X904  0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X1001 0.000000  2.5956196 2.3863600 0.000000 0.000000 0.000000 0.000000
## X1003 0.000000  0.7615992 0.4667999 0.000000 0.000000 0.000000 0.000000
## X1005 0.000000  2.9508447 1.8086307 0.000000 0.000000 0.000000 0.000000
```

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## X1102 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
## X1108 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
## X1202 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X1208 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
## X1213 0.000000  1.2672905 1.5534949 0.000000 0.000000 0.000000 0.000000
## X1214 0.000000  2.2719224 1.3925083 0.000000 0.000000 0.000000 0.000000
## X1302 0.000000  2.7017709 1.2419790 0.000000 0.000000 0.000000 0.000000
## X1507 0.000000  3.6033589 2.2085671 0.000000 0.000000 0.000000 0.000000
## X1514 0.000000  3.6033589 2.2085671 0.000000 0.000000 0.000000 0.000000
## X1517 0.000000  0.0000000 0.6834963 0.000000 0.000000 0.000000 0.000000
## X1601 0.000000  2.2326087 1.3684089 0.000000 0.000000 0.000000 0.000000
## X1602 0.000000  1.1014644 0.6751096 0.000000 0.000000 0.000000 0.000000
## X1704 0.000000  0.0000000 0.5905436 0.000000 0.000000 0.000000 0.000000
## X1806 0.000000  0.0000000 0.8259090 0.000000 0.000000 0.000000 0.000000
## X1901 0.000000  0.6461867 1.1881843 0.000000 0.000000 0.000000 0.000000
## X1902 0.000000  3.6033589 2.2085671 0.000000 0.000000 0.000000 0.000000
## X1905 1.458221  0.6136873 1.1284259 1.458221 1.458221 1.458221 1.458221
## X2001 0.000000  3.6033589 2.2085671 0.000000 0.000000 0.000000 0.000000
## X2002 0.000000  3.6033589 2.2085671 0.000000 0.000000 0.000000 0.000000
## X2003 0.000000  3.6033589 2.2085671 0.000000 0.000000 0.000000 0.000000
## X2004 0.000000  3.6033589 2.2085671 0.000000 0.000000 0.000000 0.000000
## X2005 0.000000  0.9021193 1.1058545 0.000000 0.000000 0.000000 0.000000
## X2006 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X2007 0.000000  1.3566094 0.8314927 0.000000 0.000000 0.000000 0.000000
## X2008 0.000000  0.6461867 1.1881843 0.000000 0.000000 0.000000 0.000000
## X2101 0.000000  3.6033589 2.2085671 0.000000 0.000000 0.000000 0.000000
## X2102 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X2103 0.000000  2.2326087 1.3684089 0.000000 0.000000 0.000000 0.000000
## X2104 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X2106 0.000000  1.1291744 1.3841871 0.000000 0.000000 0.000000 0.000000
## X2202 0.000000  2.5708554 1.5757282 0.000000 0.000000 0.000000 0.000000
## X2206 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X2208 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X2209 0.000000  3.6033589 2.2085671 0.000000 0.000000 0.000000 0.000000
## X2302 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X2309 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
## X2402 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X2403 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X2507 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X2508 0.000000  0.0000000 0.6834963 0.000000 0.000000 0.000000 0.000000
## X2512 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X2517 0.000000  0.7838061 0.4804109 0.000000 0.000000 0.000000 0.000000
## X2519 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
## X2520 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X2522 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X2525 0.000000  0.0000000 8.7221927 0.000000 0.000000 0.000000 0.000000
## X2530 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X2602 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X2606 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X2607 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X2608 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X2710 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X2713 7.055790  2.9693953 1.8199990 7.055790 7.055790 7.055790 7.055790
## X2714 7.055790  2.9693953 1.8199990 7.055790 7.055790 7.055790 7.055790
## X2716 0.000000  0.0000000 0.6589376 0.000000 0.000000 0.000000 0.000000
## X2804 0.000000  0.0000000 0.5741002 0.000000 0.000000 0.000000 0.000000
## X2811 0.000000  0.0000000 0.5741002 0.000000 0.000000 0.000000 0.000000
## X2825 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X2826 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
## X2832 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
## X2833 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
## X2835 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
## X2836 0.000000 13.5189434 8.2860124 0.000000 0.000000 0.000000 0.000000
## X2901 0.000000  0.0000000 0.5741002 0.000000 0.000000 0.000000 0.000000
## X2903 4.937404  2.0778835 1.2735749 4.937404 4.937404 4.937404 4.937404
## X2907 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
## X2915 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
## X2933 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
## X3105 0.000000  0.0000000 9.2068374 0.000000 0.000000 0.000000 0.000000
## X3202 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
## X3204 0.000000  0.0000000 0.6669258 0.000000 0.000000 0.000000 0.000000
## X3205 7.055790  2.9693953 1.8199990 7.055790 7.055790 7.055790 7.055790
## X3206 3.069033  1.2915891 1.5832811 3.069033 3.069033 3.069033 3.069033
## X3207 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X3208 4.551788  1.9155988 1.1741076 4.551788 4.551788 4.551788 4.551788
## X3209 7.055790  2.9693953 1.8199990 7.055790 7.055790 7.055790 7.055790
## X3210 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
## X3211 7.055790  2.9693953 1.8199990 7.055790 7.055790 7.055790 7.055790
## X3212 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
```

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## X3214 4.937404  2.0778835 1.2735749 4.937404 4.937404 4.937404 4.937404
## X3215 7.055790  2.9693953 1.8199990 7.055790 7.055790 7.055790 7.055790
## X3302 0.000000  1.3988557 1.7147725 0.000000 0.000000 0.000000 0.000000
## X3303 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X3304 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X3305 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X3307 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X3402 0.000000  0.7954009 0.9750352 0.000000 0.000000 0.000000 0.000000
## X3403 0.000000  1.0298450 1.2624255 0.000000 0.000000 0.000000 0.000000
## X3506 1.906928  1.6050468 0.9837662 1.906928 1.906928 1.906928 1.906928
## X3507 0.000000  1.3988557 1.7147725 0.000000 0.000000 0.000000 0.000000
## X3605 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X3701 7.055790  2.9693953 1.8199990 7.055790 7.055790 7.055790 7.055790
## X3707 7.055790  2.9693953 1.8199990 7.055790 7.055790 7.055790 7.055790
## X3802 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X3808 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X3809 0.000000  0.0000000 0.5456092 0.000000 0.000000 0.000000 0.000000
## X3810 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X3811 0.000000 13.5189434 8.2860124 0.000000 0.000000 0.000000 0.000000
## X3814 3.069033  1.2915891 1.5832811 3.069033 3.069033 3.069033 3.069033
## X3815 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
## X3816 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X3819 0.000000 13.5189434 8.2860124 0.000000 0.000000 0.000000 0.000000
## X3820 0.000000 13.5189434 8.2860124 0.000000 0.000000 0.000000 0.000000
## X3823 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X3902 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
## X3908 0.000000  1.3566094 0.8314927 0.000000 0.000000 0.000000 0.000000
## X3909 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
## X3910 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
## X3911 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
## X3915 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
## X3916 7.055790  2.9693953 1.8199990 7.055790 7.055790 7.055790 7.055790
## X3917 0.000000  0.0000000 0.5085795 0.000000 0.000000 0.000000 0.000000
## X3919 3.069033  1.2915891 1.5832811 3.069033 3.069033 3.069033 3.069033
## X3920 2.514410  1.0581789 1.2971582 2.514410 2.514410 2.514410 2.514410
## X3921 2.800514  2.3571688 2.1671336 2.800514 2.800514 2.800514 2.800514
## X3923 0.000000  1.8626909 1.1416794 0.000000 0.000000 0.000000 0.000000
## X3924 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X3925 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
## X3926 0.000000  0.0000000 0.5008523 0.000000 0.000000 0.000000 0.000000
## X4001 7.055790  2.9693953 1.8199990 7.055790 7.055790 7.055790 7.055790
## X4005 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X4006 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X4008 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X4009 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X4010 0.000000  1.6073630 0.9851842 0.000000 0.000000 0.000000 0.000000
## X4012 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X4013 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X4015 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X4016 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X4202 2.617264  2.2029288 2.0253288 2.617264 2.617264 2.617264 2.617264
## X4203 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X4409 0.000000  1.1387228 1.3958919 0.000000 0.000000 0.000000 0.000000
## X4415 0.000000  1.1291744 1.3841871 0.000000 0.000000 0.000000 0.000000
## X4416 0.000000  0.0000000 0.7223779 0.000000 0.000000 0.000000 0.000000
## X4418 0.000000  0.0000000 8.7221927 0.000000 0.000000 0.000000 0.000000
## X4420 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X4421 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X4602 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X4804 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
## X4808 2.585537  1.0881122 1.3338516 2.585537 2.585537 2.585537 2.585537
## X4818 7.055790  2.9693953 1.8199990 7.055790 7.055790 7.055790 7.055790
## X4819 0.000000  3.6033589 2.2085671 0.000000 0.000000 0.000000 0.000000
## X4821 3.865449  3.2535135 1.9941420 3.865449 3.865449 3.865449 3.865449
## X4822 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
## X4823 0.000000  0.0000000 1.0543091 0.000000 0.000000 0.000000 0.000000
## X4901 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X4902 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X4907 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X4911 0.000000  1.3566094 0.8314927 0.000000 0.000000 0.000000 0.000000
## X5111 0.000000  0.0000000 1.1996625 0.000000 0.000000 0.000000 0.000000
## X5112 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X5205 7.055790  2.9693953 1.8199990 7.055790 7.055790 7.055790 7.055790
## X5206 7.055790  2.9693953 1.8199990 7.055790 7.055790 7.055790 7.055790
## X5208 7.055790  2.9693953 1.8199990 7.055790 7.055790 7.055790 7.055790
## X5209 3.865449  3.2535135 1.9941420 3.865449 3.865449 3.865449 3.865449
## X5210 0.000000 10.0134340 0.0000000 0.000000 0.000000 0.000000 0.000000
## X5211 7.055790  2.9693953 1.8199990 7.055790 7.055790 7.055790 7.055790
## X5402 4.937404  2.0778835 1.2735749 4.937404 4.937404 4.937404 4.937404
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## X5407 1.924158  0.8097742 0.9926546 1.924158 1.924158 1.924158 1.924158
## X5408 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X5505 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X5508 0.000000  1.1339285 0.6950075 0.000000 0.000000 0.000000 0.000000
## X5509 4.395716  1.8499169 1.1338500 4.395716 4.395716 4.395716 4.395716
## X5511 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X5512 0.000000  2.0778835 1.2735749 0.000000 0.000000 0.000000 0.000000
## X5513 0.000000 10.0134340 0.0000000 0.000000 0.000000 0.000000 0.000000
## X5514 7.055790  2.9693953 1.8199990 7.055790 7.055790 7.055790 7.055790
## X5515 0.000000  2.8442708 1.7433079 0.000000 0.000000 0.000000 0.000000
## X5516 0.000000 10.0134340 0.0000000 0.000000 0.000000 0.000000 0.000000
## X5601 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X5603 0.000000  2.4537879 1.5039753 0.000000 0.000000 0.000000 0.000000
## X5609 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X5806 3.865449  3.2535135 1.9941420 3.865449 3.865449 3.865449 3.865449
## X5807 3.865449  3.2535135 1.9941420 3.865449 3.865449 3.865449 3.865449
## X5903 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
## X5907 0.000000  3.6033589 2.2085671 0.000000 0.000000 0.000000 0.000000
## X5911 3.525146  2.9670836 0.9092919 3.525146 3.525146 3.525146 3.525146
## X6002 1.531759  1.2892704 1.1853316 1.531759 1.531759 1.531759 1.531759
## X6101 0.000000  3.6033589 2.2085671 0.000000 0.000000 0.000000 0.000000
## X6103 7.055790  2.9693953 1.8199990 7.055790 7.055790 7.055790 7.055790
## X6104 2.983232  1.2554802 0.7695087 2.983232 2.983232 2.983232 2.983232
## X6105 0.000000  3.6033589 2.2085671 0.000000 0.000000 0.000000 0.000000
## X6106 2.983232  1.2554802 0.7695087 2.983232 2.983232 2.983232 2.983232
## X6107 7.055790  2.9693953 1.8199990 7.055790 7.055790 7.055790 7.055790
## X6109 7.055790  2.9693953 1.8199990 7.055790 7.055790 7.055790 7.055790
## X6110 0.000000  2.2701704 1.3914311 0.000000 0.000000 0.000000 0.000000
## X6111 7.055790  2.9693953 1.8199990 7.055790 7.055790 7.055790 7.055790
## X6112 4.684847  1.9715961 1.2084294 4.684847 4.684847 4.684847 4.684847
## X6114 3.486769  2.9347824 0.8993929 3.486769 3.486769 3.486769 3.486769
## X6115 2.850399  1.1995782 0.7352453 2.850399 2.850399 2.850399 2.850399
## X6117 0.000000  3.6033589 2.2085671 0.000000 0.000000 0.000000 0.000000
## X6201 7.055790  2.9693953 1.8199990 7.055790 7.055790 7.055790 7.055790
## X6202 7.055790  2.9693953 1.8199990 7.055790 7.055790 7.055790 7.055790
## X6203 3.752264  4.7373693 1.9357509 3.752264 3.752264 3.752264 3.752264
## X6204 7.055790  2.9693953 1.8199990 7.055790 7.055790 7.055790 7.055790
## X6205 0.000000  1.3566094 0.8314927 0.000000 0.000000 0.000000 0.000000
## X6206 2.419319  1.0181602 0.6240509 2.419319 2.419319 2.419319 2.419319
## X6210 0.000000  2.9693953 1.8199990 7.055790 7.055790 7.055790 7.055790
## X6211 2.969395  0.0000000 2.2978188 2.969395 2.969395 2.969395 2.969395
## X6212 1.819999  2.2978188 0.0000000 1.819999 1.819999 1.819999 1.819999
## X6217 7.055790  2.9693953 1.8199990 0.000000 7.055790 7.055790 7.055790
## X6302 7.055790  2.9693953 1.8199990 7.055790 0.000000 7.055790 7.055790
## X6303 7.055790  2.9693953 1.8199990 7.055790 7.055790 0.000000 7.055790
## X6304 7.055790  2.9693953 1.8199990 7.055790 7.055790 7.055790 0.000000
## X6305 3.069033  1.2915891 1.5832811 3.069033 3.069033 3.069033 3.069033
## X6306 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
## X6307 6.114286  2.5731679 1.5771439 6.114286 6.114286 6.114286 6.114286
## X6401 0.000000  0.0000000 0.0000000 0.000000 0.000000 0.000000 0.000000
## X6403 0.000000  1.8756423 1.1496176 0.000000 0.000000 0.000000 0.000000
## X6404 0.000000  0.0000000 1.4032349 0.000000 0.000000 0.000000 0.000000
##           X6305     X6306      X6307     X6401      X6403     X6404     X6406
## X102  0.0000000 0.0000000  0.0000000 3.7978668  3.2698252 0.0000000 2.6898843
## X210  0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X401  1.1525662 2.0430009  0.0000000 1.9440463  1.6737534 2.0430009 1.3768945
## X403  0.0000000 0.0000000  0.0000000 1.7616411  1.5167092 0.0000000 1.2477039
## X406  0.0000000 0.0000000  6.2517923 0.0000000  0.0000000 0.0000000 0.0000000
## X510  0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X602  0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 7.2558297
## X603  0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X702  0.0000000 0.0000000  1.1699802 0.9905484  1.7056532 0.0000000 2.1047058
## X703  0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X709  0.0000000 0.0000000  0.0000000 0.0000000  1.0618486 0.0000000 0.8735181
## X712  0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X713  0.0000000 0.0000000  0.0000000 0.0000000  0.8984969 0.0000000 0.0000000
## X804  0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X805  0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X808  0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X809  0.0000000 0.0000000  0.0000000 3.7978668  3.2698252 0.0000000 2.6898843
## X813  0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 7.5857697
## X901  0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X904  0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X1001 0.0000000 0.0000000  0.0000000 0.0000000  1.9479161 0.0000000 0.0000000
## X1003 0.7871545 1.3952830  1.5682065 1.3277012  1.1431028 1.3952830 1.8807220
## X1005 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X1102 2.3662503 4.1943407  0.0000000 0.0000000  0.0000000 4.1943407 0.0000000
## X1108 2.3662503 4.1943407  0.0000000 0.0000000  0.0000000 4.1943407 0.0000000
## X1202 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
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## X1208 2.3662503 4.1943407  0.0000000 0.0000000  0.0000000 4.1943407 0.0000000
## X1213 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X1214 0.0000000 0.0000000  0.0000000 0.0000000  1.1366613 0.0000000 0.9350619
## X1302 0.0000000 0.0000000  0.0000000 0.0000000  1.0137883 0.0000000 0.8339819
## X1507 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X1514 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X1517 1.1525662 2.0430009  0.0000000 1.9440463  1.6737534 2.0430009 1.3768945
## X1601 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X1602 0.0000000 0.0000000  0.0000000 1.9201921  1.6532159 0.0000000 1.3599995
## X1704 0.0000000 0.0000000  0.0000000 1.6796629  1.4461290 0.0000000 2.3792838
## X1806 0.6963558 1.2343360  0.0000000 1.1745499  1.0112451 1.2343360 1.6637795
## X1901 0.6678693 1.1838417  0.0000000 1.1265013  0.9698771 1.1838417 1.5957177
## X1902 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X1905 1.2685589 1.1243013  1.2636408 1.0698448  0.9210979 1.1243013 1.5154624
## X2001 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X2002 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X2003 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X2004 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X2005 0.0000000 0.0000000  0.0000000 1.5726715  1.3540133 0.0000000 2.2277280
## X2006 0.0000000 0.0000000  0.0000000 3.6223945  3.1187500 0.0000000 2.5656040
## X2007 0.0000000 0.0000000  0.0000000 2.3649893  2.0361700 0.0000000 1.6750322
## X2008 0.6678693 1.1838417  0.0000000 1.1265013  1.9397542 1.1838417 1.5957177
## X2101 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X2102 0.0000000 0.0000000  0.0000000 2.7691172  2.3841094 0.0000000 1.9612605
## X2103 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X2104 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X2106 1.1670636 2.0686986  0.0000000 0.0000000  0.0000000 2.0686986 0.0000000
## X2202 1.3285600 2.3549622  0.0000000 0.0000000  0.0000000 2.3549622 0.0000000
## X2206 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 7.5857697
## X2208 0.0000000 0.0000000  0.0000000 3.2698252  2.8152006 0.0000000 2.3158927
## X2209 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X2302 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X2309 2.3662503 4.1943407  0.0000000 0.0000000  0.0000000 4.1943407 0.0000000
## X2402 0.0000000 0.0000000  0.0000000 3.7978668  3.2698252 0.0000000 2.6898843
## X2403 0.0000000 0.0000000  0.0000000 3.7978668  3.2698252 0.0000000 2.6898843
## X2507 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 5.9596367
## X2508 1.1525662 2.0430009  0.0000000 1.9440463  1.6737534 2.0430009 1.3768945
## X2512 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X2517 0.0000000 0.0000000  0.0000000 1.3664149  1.1764339 0.0000000 2.9033411
## X2519 2.3662503 4.1943407  0.0000000 0.0000000  0.0000000 4.1943407 0.0000000
## X2520 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X2522 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X2525 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X2530 0.0000000 0.0000000  0.0000000 3.0772452  2.6493963 0.0000000 2.1794957
## X2602 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X2606 0.0000000 0.0000000  0.0000000 3.7978668  3.2698252 0.0000000 2.6898843
## X2607 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X2608 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X2710 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X2713 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X2714 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X2716 0.0000000 0.0000000  0.0000000 1.8741945  1.6136136 0.0000000 1.3274212
## X2804 0.9680933 1.7160098  0.0000000 1.6328933  1.4058621 1.7160098 1.1565168
## X2811 0.9680933 1.7160098  0.0000000 1.6328933  1.4058621 1.7160098 1.1565168
## X2825 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X2826 2.3662503 4.1943407  0.0000000 0.0000000  0.0000000 4.1943407 0.0000000
## X2832 2.3662503 4.1943407  0.0000000 0.0000000  0.0000000 4.1943407 0.0000000
## X2833 2.3662503 4.1943407  0.0000000 0.0000000  0.0000000 4.1943407 0.0000000
## X2835 2.3662503 4.1943407  0.0000000 0.0000000  0.0000000 4.1943407 0.0000000
## X2836 0.0000000 0.0000000  0.0000000 0.0000000 20.2909494 0.0000000 0.0000000
## X2901 0.9680933 1.7160098  0.0000000 1.6328933  1.4058621 1.7160098 1.1565168
## X2903 2.1476067 0.0000000  4.2785712 0.0000000  0.0000000 0.0000000 0.0000000
## X2907 2.3662503 4.1943407  0.0000000 0.0000000  0.0000000 4.1943407 0.0000000
## X2915 2.3662503 4.1943407  0.0000000 0.0000000  0.0000000 4.1943407 0.0000000
## X2933 2.3662503 4.1943407  0.0000000 0.0000000  0.0000000 4.1943407 0.0000000
## X3105 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X3202 2.3662503 4.1943407  0.0000000 0.0000000  0.0000000 4.1943407 0.0000000
## X3204 1.1246237 1.9934707  0.0000000 1.8969151  1.6331752 1.9934707 1.3435133
## X3205 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X3206 2.6698565 2.3662503  2.6595103 0.0000000  0.0000000 2.3662503 0.0000000
## X3207 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X3208 1.9798765 0.0000000  3.9444103 0.0000000  0.0000000 0.0000000 0.0000000
## X3209 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X3210 2.3662503 4.1943407  0.0000000 0.0000000  0.0000000 4.1943407 0.0000000
## X3211 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X3212 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X3214 2.1476067 0.0000000  4.2785712 0.0000000  0.0000000 0.0000000 0.0000000
## X3215 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X3302 1.4457942 2.5627679  0.0000000 0.0000000  0.0000000 2.5627679 0.0000000
```

```
## X3303 0.0000000 0.0000000  0.0000000 3.7978668  3.2698252 0.0000000 2.6898843
## X3304 0.0000000 0.0000000  0.0000000 3.7978668  3.2698252 0.0000000 2.6898843
## X3305 0.0000000 0.0000000  0.0000000 3.2249778  2.7765887 0.0000000 2.2841290
## X3307 0.0000000 0.0000000  0.0000000 3.7978668  3.2698252 0.0000000 2.6898843
## X3402 0.8220904 1.4572094  0.0000000 1.3866282  1.1938368 1.4572094 0.9820967
## X3403 1.0644013 1.8867224  0.0000000 1.7953373  3.0914409 1.8867224 1.2715696
## X3506 0.8294519 0.0000000  1.6524737 1.3990449  1.2045272 0.0000000 0.9908910
## X3507 1.4457942 2.5627679  0.0000000 0.0000000  0.0000000 2.5627679 0.0000000
## X3605 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X3701 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X3707 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X3802 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X3808 0.0000000 0.0000000  0.0000000 3.7978668  3.2698252 0.0000000 2.6898843
## X3809 0.9200493 1.6308484  0.0000000 1.5518568  1.3360926 1.6308484 1.0991217
## X3810 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X3811 0.0000000 0.0000000  0.0000000 0.0000000 20.2909494 0.0000000 0.0000000
## X3814 2.6698565 2.3662503  2.6595103 0.0000000  0.0000000 2.3662503 0.0000000
## X3815 2.3662503 4.1943407  0.0000000 0.0000000  0.0000000 4.1943407 0.0000000
## X3816 0.0000000 0.0000000  0.0000000 3.7978668  3.2698252 0.0000000 2.6898843
## X3819 0.0000000 0.0000000  0.0000000 0.0000000 20.2909494 0.0000000 0.0000000
## X3820 0.0000000 0.0000000  0.0000000 0.0000000 20.2909494 0.0000000 0.0000000
## X3823 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X3902 2.3662503 4.1943407  0.0000000 0.0000000  0.0000000 4.1943407 0.0000000
## X3908 0.0000000 0.0000000  0.0000000 2.3649893  2.0361700 0.0000000 1.6750322
## X3909 2.3662503 4.1943407  0.0000000 0.0000000  0.0000000 4.1943407 0.0000000
## X3910 2.3662503 4.1943407  0.0000000 0.0000000  0.0000000 4.1943407 0.0000000
## X3911 2.3662503 4.1943407  0.0000000 0.0000000  0.0000000 4.1943407 0.0000000
## X3915 2.3662503 4.1943407  0.0000000 0.0000000  0.0000000 4.1943407 0.0000000
## X3916 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X3917 0.8576068 1.5201647  0.0000000 1.4465342  1.2454137 1.5201647 2.0490516
## X3919 2.6698565 2.3662503  2.6595103 0.0000000  0.0000000 2.3662503 0.0000000
## X3920 2.1873718 1.9386314  2.1788946 0.0000000  0.0000000 1.9386314 0.0000000
## X3921 2.4362633 2.1592202  2.4268220 0.0000000  1.7689674 2.1592202 0.0000000
## X3923 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 2.2999013
## X3924 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X3925 2.3662503 4.1943407  0.0000000 0.0000000  0.0000000 4.1943407 0.0000000
## X3926 0.8445764 1.4970675  1.6826056 1.4245557  1.2264910 1.4970675 2.0179185
## X4001 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X4005 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X4006 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X4008 0.0000000 0.0000000  0.0000000 3.7978668  3.2698252 0.0000000 2.6898843
## X4009 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X4010 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 1.9846429
## X4012 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X4013 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X4015 0.0000000 0.0000000 39.7690235 0.0000000  0.0000000 0.0000000 0.0000000
## X4016 0.0000000 0.0000000  9.2757923 0.0000000  0.0000000 0.0000000 0.0000000
## X4202 2.2768477 2.0179326  2.2680239 0.0000000  0.0000000 2.0179326 0.0000000
## X4203 0.0000000 0.0000000 39.7690235 0.0000000  0.0000000 0.0000000 0.0000000
## X4409 1.1769325 2.0861918  0.0000000 0.0000000  0.0000000 2.0861918 1.4060032
## X4415 1.1670636 2.0686986  0.0000000 0.0000000  0.0000000 2.0686986 0.0000000
## X4416 1.2181316 2.1592202  0.0000000 0.0000000  0.0000000 2.1592202 1.4552211
## X4418 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X4420 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 7.5857697
## X4421 0.0000000 0.0000000  0.0000000 2.8021309  2.4125330 0.0000000 3.9692857
## X4602 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X4804 2.3662503 4.1943407  0.0000000 0.0000000  0.0000000 4.1943407 0.0000000
## X4808 2.2492473 1.9934707  2.2405304 0.0000000  0.0000000 1.9934707 0.0000000
## X4818 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X4819 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X4821 1.6813424 0.0000000  3.3496549 0.0000000  0.0000000 0.0000000 0.0000000
## X4822 2.3662503 4.1943407  0.0000000 0.0000000  0.0000000 4.1943407 0.0000000
## X4823 1.7778621 3.1513815  0.0000000 0.0000000  0.0000000 3.1513815 0.0000000
## X4901 0.0000000 0.0000000  0.0000000 3.7978668  3.2698252 0.0000000 2.6898843
## X4902 0.0000000 0.0000000  0.0000000 3.7978668  3.2698252 0.0000000 2.6898843
## X4907 0.0000000 0.0000000  0.0000000 3.7978668  3.2698252 0.0000000 2.6898843
## X4911 0.0000000 0.0000000  0.0000000 2.3649893  2.0361700 0.0000000 1.6750322
## X5111 2.0229692 3.5858510  0.0000000 0.0000000  0.0000000 3.5858510 0.0000000
## X5112 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X5205 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X5206 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X5208 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X5209 1.6813424 0.0000000  3.3496549 0.0000000  0.0000000 0.0000000 0.0000000
## X5210 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X5211 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X5402 2.1476067 0.0000000  4.2785712 0.0000000  0.0000000 0.0000000 0.0000000
## X5407 1.6738921 1.4835421  1.6674039 1.4116854  1.2154101 1.4835421 0.9998437
## X5408 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X5505 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 6.0680455
```

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## X5508 0.0000000 0.0000000  0.0000000 1.9767872  1.7019422 0.0000000 1.4000836
## X5509 1.9119907 0.0000000  3.8091646 0.0000000  0.0000000 0.0000000 2.2841290
## X5511 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 7.5857697
## X5512 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 2.5656040
## X5513 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X5514 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X5515 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X5516 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X5601 0.0000000 0.0000000  0.0000000 3.7978668  3.2698252 0.0000000 2.6898843
## X5603 1.2680622 2.2477256  0.0000000 0.0000000  0.0000000 2.2477256 0.0000000
## X5609 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 7.5857697
## X5806 1.6813424 0.0000000  3.3496549 0.0000000  0.0000000 0.0000000 0.0000000
## X5807 1.6813424 0.0000000  3.3496549 0.0000000  0.0000000 0.0000000 0.0000000
## X5903 2.3662503 4.1943407  0.0000000 0.0000000  0.0000000 4.1943407 0.0000000
## X5907 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X5911 1.5333219 0.0000000  3.0547606 0.0000000  0.0000000 0.0000000 1.8317582
## X6002 1.3325316 1.1809994  1.3273657 1.1237967  0.9675485 1.1809994 0.7959432
## X6101 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X6103 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X6104 1.2976077 0.0000000  2.5851583 2.1886896  1.8843824 0.0000000 1.5501659
## X6105 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X6106 1.2976077 0.0000000  2.5851583 2.1886896  1.8843824 0.0000000 1.5501659
## X6107 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X6109 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X6110 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 2.8030246
## X6111 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X6112 2.0377529 0.0000000  4.0597147 0.0000000  0.0000000 0.0000000 0.0000000
## X6114 1.5166293 0.0000000  3.0215048 0.0000000  0.0000000 0.0000000 1.8118168
## X6115 1.2398299 0.0000000  2.4700503 2.0912350  1.8004775 0.0000000 1.4811426
## X6117 0.0000000 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X6201 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X6202 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X6203 1.6321104 0.0000000  3.2515723 0.0000000  0.0000000 0.0000000 0.0000000
## X6204 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X6205 0.0000000 0.0000000  0.0000000 2.3649893  2.0361700 0.0000000 1.6750322
## X6206 1.0523244 0.0000000  2.0964920 1.7749670  1.5281823 0.0000000 2.5142842
## X6210 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X6211 1.2915891 0.0000000  2.5731679 0.0000000  1.8756423 0.0000000 0.0000000
## X6212 1.5832811 1.4032349  1.5771439 0.0000000  1.1496176 1.4032349 0.0000000
## X6217 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X6302 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X6303 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X6304 3.0690331 0.0000000  6.1142856 0.0000000  0.0000000 0.0000000 0.0000000
## X6305 0.0000000 2.3662503  2.6595103 0.0000000  0.0000000 2.3662503 0.0000000
## X6306 2.3662503 0.0000000  0.0000000 0.0000000  0.0000000 4.1943407 0.0000000
## X6307 2.6595103 0.0000000  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
## X6401 0.0000000 0.0000000  0.0000000 0.0000000  3.2698252 0.0000000 2.6898843
## X6403 0.0000000 0.0000000  0.0000000 3.2698252  0.0000000 0.0000000 2.3158927
## X6404 2.3662503 4.1943407  0.0000000 0.0000000  0.0000000 0.0000000 0.0000000
##           X6504     X6505      X6802     X6805      X6806     X6807     X6809
## X102  3.7978668  0.000000  3.2927193  0.000000  2.6296849  0.000000 2.8882097
## X210  0.0000000 10.498828  0.0000000  0.000000  0.0000000  5.679824 0.0000000
## X401  1.9440463  0.000000  1.6854724  0.000000  1.3460798  0.000000 1.4784128
## X403  1.7616411  4.751937  1.5273286  0.000000  1.2197804  2.570780 1.3396970
## X406  0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X510  0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X602  0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X603  0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X702  0.9905484  0.000000  1.7175955  0.000000  2.0576029  0.000000 0.7532951
## X703  0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X709  0.0000000  0.000000  1.0692832  0.000000  0.8539689  1.799803 0.9379224
## X712  0.0000000  0.000000  0.0000000 36.550000  0.0000000  0.000000 0.0000000
## X713  0.0000000  0.000000  0.9047878  0.000000  0.0000000  1.522926 0.7936353
## X804  0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X805  0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X808  0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X809  3.7978668  0.000000  3.2927193  0.000000  2.6296849  0.000000 2.8882097
## X813  0.0000000  0.000000  0.0000000  0.000000  7.4160008  0.000000 0.0000000
## X901  0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X904  0.0000000 27.634216  0.0000000  0.000000  0.0000000 14.949998 0.0000000
## X1001 0.0000000  0.000000  1.9615547  0.000000  0.0000000  0.000000 1.7205784
## X1003 1.3277012  0.000000  1.1511064  0.000000  0.9193159  0.000000 1.0096937
## X1005 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X1102 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X1108 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X1202 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X1208 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X1213 0.0000000  0.000000  1.9154266  0.000000  1.5297295  0.000000 1.6801172
## X1214 0.0000000  0.000000  0.0000000  0.000000  1.8282708  1.926609 1.0040039
```

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## X1302 0.0000000  0.000000  0.0000000  0.000000  1.6306350  1.718342 0.8954712
## X1507 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X1514 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X1517 1.9440463  0.000000  1.6854724  0.000000  1.3460798  0.000000 1.4784128
## X1601 0.0000000 10.498828  0.0000000  0.000000  0.0000000  5.679824 0.0000000
## X1602 1.9201921  5.179621  1.6647911  0.000000  1.3295629  2.802156 1.4602722
## X1704 1.6796629  4.530805  1.4562542  0.000000  2.3260358  2.451149 1.2773541
## X1806 1.1745499  3.168286  1.0183255  0.000000  1.6265444  1.714032 0.8932248
## X1901 1.1265013  0.000000  0.9766678  0.000000  1.5600058  0.000000 0.8566848
## X1902 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X1905 1.0698448  0.000000  0.9275471  0.000000  1.4815467  0.000000 0.8135986
## X2001 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2002 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2003 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2004 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2005 1.5726715  0.000000  1.3634936  0.000000  2.1778718  0.000000 1.1959891
## X2006 3.6223945  0.000000  3.1405863  0.000000  2.5081861  0.000000 2.7547662
## X2007 2.3649893  0.000000  2.0504265  0.000000  1.6375452  0.000000 1.7985324
## X2008 1.1265013  3.038677  0.9766678  0.000000  1.5600058  1.643914 0.8566848
## X2101 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2102 2.7691172  7.469557  2.4008020  0.000000  1.9173677  4.041001 2.1058643
## X2103 0.0000000 10.498828  0.0000000  0.000000  0.0000000  5.679824 0.0000000
## X2104 0.0000000 27.634216  0.0000000  0.000000  0.0000000 14.949998 0.0000000
## X2106 0.0000000  5.309927  0.0000000  0.000000  0.0000000  2.872651 0.0000000
## X2202 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2206 0.0000000  0.000000  0.0000000  0.000000  7.4160008  0.000000 0.0000000
## X2208 3.2698252  0.000000  2.8349116  0.000000  2.2640633  0.000000 2.4866436
## X2209 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2302 0.0000000 27.634216  0.0000000  0.000000  0.0000000 14.949998 0.0000000
## X2309 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2402 3.7978668  0.000000  3.2927193  0.000000  2.6296849  0.000000 2.8882097
## X2403 3.7978668  0.000000  3.2927193  0.000000  2.6296849  0.000000 2.8882097
## X2507 0.0000000  0.000000  0.0000000  0.000000  5.8262605  0.000000 0.0000000
## X2508 1.9440463  0.000000  1.6854724  0.000000  1.3460798  0.000000 1.4784128
## X2512 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2517 1.3664149  0.000000  2.3693416  0.000000  1.8922432  1.994022 1.0391347
## X2519 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2520 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2522 0.0000000  0.000000  0.0000000  0.000000  0.0000000 13.753528 0.0000000
## X2525 0.0000000  0.000000 21.5086250  0.000000  0.0000000  0.000000 0.0000000
## X2530 3.0772452  0.000000  2.6679464  0.000000  2.1307188  0.000000 2.3401900
## X2602 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2606 3.7978668  0.000000  3.2927193  0.000000  2.6296849  0.000000 2.8882097
## X2607 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2608 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2710 0.0000000 27.634216  0.0000000  0.000000  0.0000000 14.949998 0.0000000
## X2713 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2714 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2716 1.8741945  0.000000  3.2498231  0.000000  1.2977137  0.000000 2.8505838
## X2804 1.6328933  4.404646  1.4157054  0.000000  1.1306341  2.382897 1.2417867
## X2811 1.6328933  4.404646  1.4157054  0.000000  1.1306341  2.382897 1.2417867
## X2825 0.0000000  0.000000  0.0000000 36.550000  0.0000000  0.000000 0.0000000
## X2826 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2832 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2833 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2835 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2836 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2901 1.6328933  4.404646  1.4157054  0.000000  1.1306341  2.382897 1.2417867
## X2903 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 2.7547662
## X2907 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2915 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2933 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3105 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3202 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3204 1.8969151  0.000000  1.6446101  0.000000  1.3134457  0.000000 1.4425705
## X3205 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3206 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3207 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3208 0.0000000  0.000000  0.0000000 10.359833  0.0000000  0.000000 0.0000000
## X3209 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3210 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3211 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3212 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3214 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 2.7547662
## X3215 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3302 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3303 3.7978668  0.000000  3.2927193  0.000000  2.6296849  0.000000 2.8882097
## X3304 3.7978668  0.000000  3.2927193  0.000000  2.6296849  0.000000 2.8882097
## X3305 3.2249778  0.000000  2.7960293  0.000000  2.2330105  0.000000 2.4525380
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## X3307 3.7978668  0.000000  3.2927193  0.000000  2.6296849  0.000000 2.8882097
## X3402 1.3866282  0.000000  1.2021956  0.000000  0.9601175  0.000000 1.0545065
## X3403 1.7953373  0.000000  1.5565430  0.000000  1.2431121  0.000000 1.3653224
## X3506 1.3990449  3.773851  1.2129608  0.000000  0.9687150  2.041640 1.0639492
## X3507 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3605 0.0000000 27.634216  0.0000000  0.000000  0.0000000 14.949998 0.0000000
## X3701 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3707 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3802 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 9.1897018
## X3808 3.7978668  0.000000  3.2927193  0.000000  2.6296849  0.000000 2.8882097
## X3809 1.5518568  0.000000  1.3454474  0.000000  1.0745236  2.264640 1.1801599
## X3810 0.0000000  0.000000  0.0000000 36.550000  0.0000000  0.000000 0.0000000
## X3811 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3814 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3815 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3816 3.7978668  0.000000  3.2927193  0.000000  2.6296849  0.000000 2.8882097
## X3819 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3820 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3823 0.0000000 27.634216  0.0000000  0.000000  0.0000000 14.949998 0.0000000
## X3902 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3908 2.3649893  0.000000  2.0504265  0.000000  1.6375452  0.000000 1.7985324
## X3909 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3910 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3911 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3915 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3916 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3917 1.4465342  0.000000  1.2541336  0.000000  2.0031941  2.110941 1.1000639
## X3919 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3920 0.0000000  4.976071  0.0000000  0.000000  0.0000000  2.692036 0.0000000
## X3921 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3923 0.0000000  0.000000  0.0000000  0.000000  2.2484298  0.000000 0.0000000
## X3924 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3925 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3926 1.4245557  0.000000  1.2350784  0.000000  0.9863789  0.000000 2.1666994
## X4001 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X4005 0.0000000 27.634216  0.0000000  0.000000  0.0000000 14.949998 0.0000000
## X4006 0.0000000 27.634216  0.0000000  0.000000  0.0000000 14.949998 0.0000000
## X4008 3.7978668  0.000000  3.2927193  0.000000  2.6296849  0.000000 2.8882097
## X4009 0.0000000 27.634216  0.0000000  0.000000  0.0000000 14.949998 0.0000000
## X4010 0.0000000  0.000000  0.0000000  0.000000  1.9402268  4.089179 0.0000000
## X4012 0.0000000 27.634216  0.0000000  0.000000  0.0000000 14.949998 0.0000000
## X4013 0.0000000 27.634216  0.0000000  0.000000  0.0000000 14.949998 0.0000000
## X4015 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X4016 0.0000000 21.183695  0.0000000  0.000000  0.0000000 11.460294 0.0000000
## X4202 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X4203 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X4409 0.0000000  0.000000  0.0000000  0.000000  1.3745371  0.000000 0.0000000
## X4415 0.0000000  5.309927  0.0000000  0.000000  0.0000000  2.872651 0.0000000
## X4416 0.0000000  0.000000  0.0000000  0.000000  1.4226535  2.998351 0.0000000
## X4418 0.0000000  0.000000 21.5086250  0.000000  0.0000000  0.000000 0.0000000
## X4420 0.0000000  0.000000  0.0000000  0.000000  7.4160008  0.000000 0.0000000
## X4421 2.8021309  0.000000  2.4294246  0.000000  3.8804535  0.000000 2.1309706
## X4602 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X4804 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X4808 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 1.4425705
## X4818 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X4819 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X4821 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X4822 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X4823 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 2.2804892
## X4901 3.7978668  0.000000  3.2927193  0.000000  2.6296849  0.000000 2.8882097
## X4902 3.7978668  0.000000  3.2927193  0.000000  2.6296849  0.000000 2.8882097
## X4907 3.7978668  0.000000  3.2927193  0.000000  2.6296849  0.000000 2.8882097
## X4911 2.3649893  0.000000  2.0504265  0.000000  1.6375452  0.000000 1.7985324
## X5111 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5112 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5205 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5206 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5208 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5209 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5210 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5211 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5402 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 2.7547662
## X5407 1.4116854  0.000000  1.2239200  0.000000  0.9774674  0.000000 1.0735621
## X5408 0.0000000  0.000000  0.0000000  0.000000 29.6723612  0.000000 0.0000000
## X5505 0.0000000  0.000000  0.0000000  0.000000 11.8644864  0.000000 0.0000000
## X5508 1.9767872  0.000000  1.7138585  0.000000  1.3687499  0.000000 3.0066235
## X5509 0.0000000  0.000000  0.0000000  0.000000  4.4660209  0.000000 0.0000000
## X5511 0.0000000  0.000000  0.0000000  0.000000  7.4160008  0.000000 0.0000000
```

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## X5512 0.0000000  0.000000  0.0000000  0.000000  5.0163721  0.000000 0.0000000
## X5513 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5514 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5515 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5516 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5601 3.7978668  0.000000  3.2927193  0.000000  2.6296849  0.000000 2.8882097
## X5603 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5609 0.0000000  0.000000  0.0000000  0.000000  7.4160008  0.000000 0.0000000
## X5806 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5807 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5903 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5907 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5911 0.0000000  0.000000  0.0000000  0.000000  1.7907637  0.000000 0.0000000
## X6002 1.1237967  0.000000  0.9743229  0.000000  0.7781302  0.000000 0.8546280
## X6101 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6103 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6104 2.1886896  0.000000  1.8975761  0.000000  1.5154734  0.000000 1.6644596
## X6105 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6106 2.1886896  0.000000  1.8975761  0.000000  1.5154734  0.000000 1.6644596
## X6107 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6109 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6110 0.0000000  0.000000  0.0000000  0.000000  2.7402932  0.000000 0.0000000
## X6111 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6112 0.0000000  0.000000  0.0000000  0.000000  0.0000000  5.015800 0.0000000
## X6114 0.0000000  0.000000  0.0000000  0.000000  1.7712685  0.000000 0.0000000
## X6115 2.0912350  0.000000  1.8130838  0.000000  1.4479948  0.000000 1.5903472
## X6117 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6201 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6202 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6203 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6204 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6205 2.3649893  0.000000  2.0504265  0.000000  1.6375452  0.000000 1.7985324
## X6206 1.7749670  0.000000  1.5388821  0.000000  2.4580149  0.000000 1.3498311
## X6210 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6211 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6212 0.0000000  0.000000  1.1576667  0.000000  0.0000000  0.000000 0.0000000
## X6217 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6302 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6303 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6304 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6305 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6306 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6307 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6401 3.7978668  0.000000  3.2927193  0.000000  2.6296849  0.000000 2.8882097
## X6403 3.2698252  0.000000  2.8349116  0.000000  2.2640633  0.000000 2.4866436
## X6404 0.0000000  0.000000  0.0000000  0.000000  0.0000000  0.000000 0.0000000
##            X6810     X6812     X6813      X6815     X6902     X6903     X6905
## X102   0.7102488  0.000000 0.0000000  2.3769541 3.7978668 3.7978668 3.7978668
## X210   0.7278769  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X401   0.7271256  0.000000 2.0430009  1.2167124 1.9440463 1.9440463 1.9440463
## X403   0.9883527  0.000000 0.0000000  1.1025513 1.7616411 1.7616411 1.7616411
## X406   1.9797105  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X510   0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X602   5.7475672  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X603   0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X702   2.4082184  4.469102 0.0000000  2.4798053 0.9905484 0.9905484 0.9905484
## X703   6.0089224  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X709   3.6903946  2.782226 0.0000000  1.5437937 0.0000000 0.0000000 0.0000000
## X712   0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X713   3.7081865  0.000000 0.0000000  0.6531507 0.0000000 0.0000000 0.0000000
## X804   3.5955252  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X805   2.2583618  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X808   5.8768396  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X809   0.7102488  0.000000 0.0000000  2.3769541 3.7978668 3.7978668 3.7978668
## X813   2.0029741 24.161363 0.0000000  6.7032712 0.0000000 0.0000000 0.0000000
## X901   2.5908049  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X904   0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X1001  3.3849138  0.000000 0.0000000  1.4160111 0.0000000 0.0000000 0.0000000
## X1003  1.2414954  0.000000 1.3952830  0.8309635 1.3277012 1.3277012 1.3277012
## X1005  4.3291744  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X1102  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
## X1108  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
## X1202  5.1846093  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X1208  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
## X1213  4.1316432  4.983858 0.0000000  2.7654241 0.0000000 0.0000000 0.0000000
## X1214  3.4565987  5.956498 0.0000000  1.6525619 0.0000000 0.0000000 0.0000000
## X1302  3.0829456  5.312599 0.0000000  1.4739203 0.0000000 0.0000000 0.0000000
## X1507  1.1747683  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X1514  1.1747683  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
```

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## X1517  0.7271256  0.000000 2.0430009  1.2167124 1.9440463 1.9440463 1.9440463
## X1601  0.7278769  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X1602  0.7182036  0.000000 0.0000000  1.2017829 1.9201921 1.9201921 1.9201921
## X1704  1.2564800  3.789109 0.0000000  2.1024881 1.6796629 1.6796629 1.6796629
## X1806  1.0982899  2.649636 1.2343360  1.4702228 1.1745499 1.1745499 1.1745499
## X1901  1.2640341  2.541244 1.1838417  1.4100791 1.1265013 1.1265013 1.1265013
## X1902  1.1747683  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X1905  1.0003846  2.413434 1.1243013  1.3391604 1.0698448 1.0698448 1.0698448
## X2001  1.1747683  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2002  1.1747683  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2003  1.1747683  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2004  1.1747683  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2005  1.4705569  3.547750 0.0000000  1.9685638 1.5726715 1.5726715 1.5726715
## X2006  0.6774335  0.000000 0.0000000  2.2671321 3.6223945 3.6223945 3.6223945
## X2007  0.8845681  0.000000 0.0000000  1.4801660 2.3649893 2.3649893 2.3649893
## X2008  1.4747065  2.541244 1.1838417  1.4100791 1.1265013 1.1265013 1.1265013
## X2101  1.1747683  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2102  0.5178607  0.000000 0.0000000  1.7330956 2.7691172 2.7691172 2.7691172
## X2103  0.7278769  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2104  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2106  0.7362715  0.000000 2.0686986  0.0000000 0.0000000 0.0000000 0.0000000
## X2202  0.8381548  0.000000 2.3549622  0.0000000 0.0000000 0.0000000 0.0000000
## X2206  2.0029741 24.161363 0.0000000  6.7032712 0.0000000 0.0000000 0.0000000
## X2208  0.6114989  0.000000 0.0000000  2.0464712 3.2698252 3.2698252 3.2698252
## X2209  1.1747683  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2302  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2309  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
## X2402  0.7102488  0.000000 0.0000000  2.3769541 3.7978668 3.7978668 3.7978668
## X2403  0.7102488  0.000000 0.0000000  2.3769541 3.7978668 3.7978668 3.7978668
## X2507  1.5736048 18.981981 0.0000000  5.2663162 0.0000000 0.0000000 0.0000000
## X2508  0.7271256  0.000000 2.0430009  1.2167124 1.9440463 1.9440463 1.9440463
## X2512  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2517  2.2998508  3.082460 0.0000000  2.5655791 1.3664149 1.3664149 1.3664149
## X2519  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
## X2520 12.5940840  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2522  3.5250546  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2525  4.6394525  0.000000 0.0000000 15.5266781 0.0000000 0.0000000 0.0000000
## X2530  1.1509684  0.000000 0.0000000  1.9259421 3.0772452 3.0772452 3.0772452
## X2602  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2606  0.7102488  0.000000 0.0000000  2.3769541 3.7978668 3.7978668 3.7978668
## X2607  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2608  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2710  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2713  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2714  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2716  1.7524985  0.000000 0.0000000  2.3459893 1.8741945 1.8741945 1.8741945
## X2804  0.6107471  0.000000 1.7160098  1.0219726 1.6328933 1.6328933 1.6328933
## X2811  0.6107471  0.000000 1.7160098  1.0219726 1.6328933 1.6328933 1.6328933
## X2825  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2826  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
## X2832  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
## X2833  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
## X2835  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
## X2836  4.4074424  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2901  0.6107471  0.000000 1.7160098  1.0219726 1.6328933 1.6328933 1.6328933
## X2903  0.6774335  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2907  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
## X2915  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
## X2933  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
## X3105  4.8972415  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3202  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
## X3204  0.7094974  0.000000 1.9934707  1.1872147 1.8969151 1.8969151 1.8969151
## X3205  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3206  0.4210862  0.000000 2.3662503  0.0000000 0.0000000 0.0000000 0.0000000
## X3207  8.8156340  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3208  0.6245255  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3209  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3210  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
## X3211  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3212  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3214  0.6774335  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3215  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3302  0.9121143  0.000000 2.5627679  0.0000000 0.0000000 0.0000000 0.0000000
## X3303  0.7102488  0.000000 0.0000000  2.3769541 3.7978668 3.7978668 3.7978668
## X3304  0.7102488  0.000000 0.0000000  2.3769541 3.7978668 3.7978668 3.7978668
## X3305  1.2062238  0.000000 0.0000000  2.0184028 3.2249778 3.2249778 3.2249778
## X3307  0.7102488  0.000000 0.0000000  2.3769541 3.7978668 3.7978668 3.7978668
## X3402  1.0372764  0.000000 1.4572094  0.8678438 1.3866282 1.3866282 1.3866282
## X3403  1.0072574  0.000000 1.8867224  1.1236407 1.7953373 1.7953373 1.7953373
```

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## X3506  0.5232824  0.000000 0.0000000  0.8756151 1.3990449 1.3990449 1.3990449
## X3507  0.9121143  0.000000 2.5627679  0.0000000 0.0000000 0.0000000 0.0000000
## X3605  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3701  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3707  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3802  2.2598618  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3808  0.7102488  0.000000 0.0000000  2.3769541 3.7978668 3.7978668 3.7978668
## X3809  1.1608751  0.000000 1.6308484  0.9712547 1.5518568 1.5518568 1.5518568
## X3810  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3811  4.4074424  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3814  0.4210862  0.000000 2.3662503  0.0000000 0.0000000 0.0000000 0.0000000
## X3815  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
## X3816  0.7102488  0.000000 0.0000000  2.3769541 3.7978668 3.7978668 3.7978668
## X3819  4.4074424  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3820  4.4074424  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3823  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3902  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
## X3908  0.8845681  0.000000 0.0000000  1.4801660 2.3649893 2.3649893 2.3649893
## X3909  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
## X3910  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
## X3911  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
## X3915  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
## X3916  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3917  1.0820889  3.263199 1.5201647  1.8106738 1.4465342 1.4465342 1.4465342
## X3919  0.4210862  0.000000 2.3662503  0.0000000 0.0000000 0.0000000 0.0000000
## X3920  0.3449899  0.000000 1.9386314  0.0000000 0.0000000 0.0000000 0.0000000
## X3921  0.7684888  0.000000 2.1592202  0.0000000 0.0000000 0.0000000 0.0000000
## X3923  1.2145530  7.325388 0.0000000  2.0323402 0.0000000 0.0000000 0.0000000
## X3924  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3925  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
## X3926  1.3320599  0.000000 1.4970675  0.8915813 1.4245557 1.4245557 1.4245557
## X4001  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4005  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4006  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4008  0.7102488  0.000000 0.0000000  2.3769541 3.7978668 3.7978668 3.7978668
## X4009  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4010  1.5721039  6.321260 0.0000000  1.7537577 0.0000000 0.0000000 0.0000000
## X4012  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4013  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4015  6.2966674  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4016  1.4686478  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4202  0.7182036  0.000000 2.0179326  0.0000000 0.0000000 0.0000000 0.0000000
## X4203  6.2966674  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4409  1.1137463  4.478240 2.0861918  1.2424348 0.0000000 0.0000000 0.0000000
## X4415  0.7362715  0.000000 2.0686986  0.0000000 0.0000000 0.0000000 0.0000000
## X4416  1.5369776  4.635004 2.1592202  1.2859269 0.0000000 0.0000000 0.0000000
## X4418  4.6394525  0.000000 0.0000000 15.5266781 0.0000000 0.0000000 0.0000000
## X4420  2.0029741 24.161363 0.0000000  6.7032712 0.0000000 0.0000000 0.0000000
## X4421  1.0480692  6.321260 0.0000000  3.5075154 2.8021309 2.8021309 2.8021309
## X4602  5.8768396  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4804  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
## X4808  0.7094974  0.000000 1.9934707  0.0000000 0.0000000 0.0000000 0.0000000
## X4818  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4819  1.1747683  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4821  0.5303573  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4822  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
## X4823  1.1216061  0.000000 3.1513815  0.0000000 0.0000000 0.0000000 0.0000000
## X4901  0.7102488  0.000000 0.0000000  2.3769541 3.7978668 3.7978668 3.7978668
## X4902  0.7102488  0.000000 0.0000000  2.3769541 3.7978668 3.7978668 3.7978668
## X4907  0.7102488  0.000000 0.0000000  2.3769541 3.7978668 3.7978668 3.7978668
## X4911  0.8845681  0.000000 0.0000000  1.4801660 2.3649893 2.3649893 2.3649893
## X5111  0.6381184  0.000000 3.5858510  0.0000000 0.0000000 0.0000000 0.0000000
## X5112  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X5205  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X5206  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X5208  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X5209  0.5303573  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X5210  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X5211  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X5402  0.6774335  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X5407  0.5280102  0.000000 1.4835421  0.8835263 1.4116854 1.4116854 1.4116854
## X5408  0.0000000 96.672714 0.0000000 26.8206384 0.0000000 0.0000000 0.0000000
## X5505  1.6022294 38.654545 0.0000000 10.7242263 0.0000000 0.0000000 0.0000000
## X5508  1.1090572  0.000000 0.0000000  1.2372038 1.9767872 1.9767872 1.9767872
## X5509  0.6031119 14.550303 0.0000000  4.0368056 0.0000000 0.0000000 0.0000000
## X5511  2.0029741 24.161363 0.0000000  6.7032712 0.0000000 0.0000000 0.0000000
## X5512  1.3548669 16.343350 0.0000000  4.5342642 0.0000000 0.0000000 0.0000000
## X5513  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X5514  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
```

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## X5515  0.9272907  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X5516  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X5601  0.7102488  0.000000 0.0000000  2.3769541 3.7978668 3.7978668 3.7978668
## X5603  0.7999885  0.000000 2.2477256  0.0000000 0.0000000 0.0000000 0.0000000
## X5609  2.0029741 24.161363 0.0000000  6.7032712 0.0000000 0.0000000 0.0000000
## X5806  0.5303573  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X5807  0.5303573  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X5903  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
## X5907  1.1747683  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X5911  0.4836665  5.834309 0.0000000  1.6186591 0.0000000 0.0000000 0.0000000
## X6002  0.6304996  0.000000 1.1809994  0.7033468 1.1237967 1.1237967 1.1237967
## X6101  1.1747683  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X6103  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X6104  0.4093139  0.000000 0.0000000  1.3698261 2.1886896 2.1886896 2.1886896
## X6105  1.1747683  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X6106  0.4093139  0.000000 0.0000000  1.3698261 2.1886896 2.1886896 2.1886896
## X6107  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X6109  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X6110  1.4802455  8.927881 0.0000000  2.4769321 0.0000000 0.0000000 0.0000000
## X6111  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X6112  0.6427817  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X6114  0.4784011  5.770793 0.0000000  1.6010375 0.0000000 0.0000000 0.0000000
## X6115  0.3910888  0.000000 0.0000000  1.3088327 2.0912350 2.0912350 2.0912350
## X6117  1.1747683  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X6201  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X6202  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X6203  0.5148279  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X6204  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X6205  0.8845681  0.000000 0.0000000  1.4801660 2.3649893 2.3649893 2.3649893
## X6206  0.6638860  4.004104 0.0000000  2.2217831 1.7749670 1.7749670 1.7749670
## X6210  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X6211  1.2222465  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X6212  1.4982849  0.000000 1.4032349  0.8356993 0.0000000 0.0000000 0.0000000
## X6217  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X6302  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X6303  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X6304  0.0000000  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X6305  0.4210862  0.000000 2.3662503  0.0000000 0.0000000 0.0000000 0.0000000
## X6306  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
## X6307  0.8389059  0.000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X6401  0.7102488  0.000000 0.0000000  2.3769541 3.7978668 3.7978668 3.7978668
## X6403  1.2229978  0.000000 0.0000000  2.0464712 3.2698252 3.2698252 3.2698252
## X6404  0.7464013  0.000000 4.1943407  0.0000000 0.0000000 0.0000000 0.0000000
##            X6910      X6911      X6912     X6913    X7006    X7007     X7010
## X102   0.0000000  0.0000000  0.0000000 3.7978668 0.000000 0.000000 3.7978668
## X210   6.4376850  6.4376850  7.9774606 0.0000000 0.000000 0.000000 0.0000000
## X401   0.0000000  0.0000000  0.0000000 1.9440463 0.000000 0.000000 1.9440463
## X403   2.9137999  2.9137999  3.6107289 1.7616411 0.000000 0.000000 1.7616411
## X406   8.7547564  8.7547564  5.4243658 0.0000000 0.000000 0.000000 0.0000000
## X510   0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X602   0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X603   0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X702   1.6383915  1.6383915  1.0151335 0.9905484 0.000000 0.000000 0.9905484
## X703   0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X709   0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X712   0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X713   0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X804   0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X805   0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X808   0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X809   0.0000000  0.0000000  0.0000000 3.7978668 0.000000 0.000000 3.7978668
## X813   0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X901   0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X904   0.0000000  0.0000000 10.4988279 0.0000000 0.000000 0.000000 0.0000000
## X1001  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X1003  0.0000000  0.0000000  0.0000000 1.3277012 0.000000 0.000000 1.3277012
## X1005  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X1102  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X1108  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X1202  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X1208  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X1213  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X1214  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X1302  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X1507 10.3902222 10.3902222  6.4376850 0.0000000 0.000000 0.000000 0.0000000
## X1514 10.3902222 10.3902222  6.4376850 0.0000000 0.000000 0.000000 0.0000000
## X1517  0.0000000  0.0000000  0.0000000 1.9440463 0.000000 0.000000 1.9440463
## X1601  6.4376850  6.4376850  7.9774606 0.0000000 0.000000 0.000000 0.0000000
## X1602  3.1760477  3.1760477  3.9357014 1.9201921 0.000000 0.000000 1.9201921
```

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## X1704  0.0000000  0.0000000  1.7213516 1.6796629 0.000000 0.000000 1.6796629
## X1806  0.0000000  0.0000000  1.2037018 1.1745499 0.000000 0.000000 1.1745499
## X1901  1.8632613  1.8632613  1.1544607 1.1265013 0.000000 0.000000 1.1265013
## X1902 10.3902222 10.3902222  6.4376850 0.0000000 0.000000 0.000000 0.0000000
## X1905  0.0000000  0.0000000  0.0000000 1.0698448 1.458221 1.458221 1.0698448
## X2001 10.3902222 10.3902222  6.4376850 0.0000000 0.000000 0.000000 0.0000000
## X2002 10.3902222 10.3902222  6.4376850 0.0000000 0.000000 0.000000 0.0000000
## X2003 10.3902222 10.3902222  6.4376850 0.0000000 0.000000 0.000000 0.0000000
## X2004 10.3902222 10.3902222  6.4376850 0.0000000 0.000000 0.000000 0.0000000
## X2005  2.6012390  2.6012390  1.6117047 1.5726715 0.000000 0.000000 1.5726715
## X2006  0.0000000  0.0000000  0.0000000 3.6223945 0.000000 0.000000 3.6223945
## X2007  3.9117544  3.9117544  2.4236876 2.3649893 0.000000 0.000000 2.3649893
## X2008  0.0000000  0.0000000  1.1544607 1.1265013 0.000000 0.000000 1.1265013
## X2101 10.3902222 10.3902222  6.4376850 0.0000000 0.000000 0.000000 0.0000000
## X2102  0.0000000  0.0000000  2.8378459 2.7691172 0.000000 0.000000 2.7691172
## X2103  6.4376850  6.4376850  7.9774606 0.0000000 0.000000 0.000000 0.0000000
## X2104  0.0000000  0.0000000 10.4988279 0.0000000 0.000000 0.000000 0.0000000
## X2106  3.2559489  3.2559489  4.0347135 0.0000000 0.000000 0.000000 0.0000000
## X2202  3.7065030  3.7065030  2.2965158 0.0000000 0.000000 0.000000 0.0000000
## X2206  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X2208  0.0000000  0.0000000  0.0000000 3.2698252 0.000000 0.000000 3.2698252
## X2209 10.3902222 10.3902222  6.4376850 0.0000000 0.000000 0.000000 0.0000000
## X2302  0.0000000  0.0000000 10.4988279 0.0000000 0.000000 0.000000 0.0000000
## X2309  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X2402  0.0000000  0.0000000  0.0000000 3.7978668 0.000000 0.000000 3.7978668
## X2403  0.0000000  0.0000000  0.0000000 3.7978668 0.000000 0.000000 3.7978668
## X2507  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X2508  0.0000000  0.0000000  0.0000000 1.9440463 0.000000 0.000000 1.9440463
## X2512  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X2517  0.0000000  0.0000000  0.0000000 1.3664149 0.000000 0.000000 1.3664149
## X2519  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X2520  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X2522  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X2525  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X2530  0.0000000  0.0000000  0.0000000 3.0772452 0.000000 0.000000 3.0772452
## X2602  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X2606  0.0000000  0.0000000  0.0000000 3.7978668 0.000000 0.000000 3.7978668
## X2607  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X2608  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X2710  0.0000000  0.0000000 10.4988279 0.0000000 0.000000 0.000000 0.0000000
## X2713  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X2714  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X2716  0.0000000  0.0000000  0.0000000 1.8741945 0.000000 0.000000 1.8741945
## X2804  0.0000000  0.0000000  1.6734212 1.6328933 0.000000 0.000000 1.6328933
## X2811  0.0000000  0.0000000  1.6734212 1.6328933 0.000000 0.000000 1.6328933
## X2825  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X2826  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X2832  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X2833  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X2835  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X2836  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X2901  0.0000000  0.0000000  1.6734212 1.6328933 0.000000 0.000000 1.6328933
## X2903  0.0000000  0.0000000  0.0000000 0.0000000 4.937404 4.937404 0.0000000
## X2907  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X2915  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X2933  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X3105  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X3202  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X3204  0.0000000  0.0000000  0.0000000 1.8969151 0.000000 0.000000 1.8969151
## X3205  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X3206  0.0000000  0.0000000  0.0000000 0.0000000 3.069033 3.069033 0.0000000
## X3207  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X3208  0.0000000  0.0000000  0.0000000 0.0000000 4.551788 4.551788 0.0000000
## X3209  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X3210  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X3211  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X3212  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X3214  0.0000000  0.0000000  0.0000000 0.0000000 4.937404 4.937404 0.0000000
## X3215  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X3302  4.0335710  4.0335710  2.4991640 0.0000000 0.000000 0.000000 0.0000000
## X3303  0.0000000  0.0000000  0.0000000 3.7978668 0.000000 0.000000 3.7978668
## X3304  0.0000000  0.0000000  0.0000000 3.7978668 0.000000 0.000000 3.7978668
## X3305  0.0000000  0.0000000  0.0000000 3.2249778 0.000000 0.000000 3.2249778
## X3307  0.0000000  0.0000000  0.0000000 3.7978668 0.000000 0.000000 3.7978668
## X3402  2.2935182  2.2935182  1.4210438 1.3866282 0.000000 0.000000 1.3866282
## X3403  0.0000000  0.0000000  0.0000000 1.7953373 0.000000 0.000000 1.7953373
## X3506  2.3140559  2.3140559  2.8675375 1.3990449 1.906928 1.906928 1.3990449
## X3507  4.0335710  4.0335710  2.4991640 0.0000000 0.000000 0.000000 0.0000000
## X3605  0.0000000  0.0000000 10.4988279 0.0000000 0.000000 0.000000 0.0000000
```

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## X3701  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X3707  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X3802  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X3808  0.0000000  0.0000000  0.0000000 3.7978668 0.000000 0.000000 3.7978668
## X3809  0.0000000  0.0000000  0.0000000 1.5518568 0.000000 0.000000 1.5518568
## X3810  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X3811  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X3814  0.0000000  0.0000000  0.0000000 0.0000000 3.069033 3.069033 0.0000000
## X3815  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X3816  0.0000000  0.0000000  0.0000000 3.7978668 0.000000 0.000000 3.7978668
## X3819  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X3820  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X3823  0.0000000  0.0000000 10.4988279 0.0000000 0.000000 0.000000 0.0000000
## X3902  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X3908  3.9117544  3.9117544  2.4236876 2.3649893 0.000000 0.000000 2.3649893
## X3909  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X3910  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X3911  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X3915  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X3916  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X3917  0.0000000  0.0000000  0.0000000 1.4465342 0.000000 0.000000 1.4465342
## X3919  0.0000000  0.0000000  0.0000000 0.0000000 3.069033 3.069033 0.0000000
## X3920  0.0000000  0.0000000  1.8905177 0.0000000 2.514410 2.514410 0.0000000
## X3921  0.0000000  0.0000000  0.0000000 0.0000000 2.800514 2.800514 0.0000000
## X3923  5.3710326  5.3710326  3.3278425 0.0000000 0.000000 0.000000 0.0000000
## X3924  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X3925  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X3926  0.0000000  0.0000000  0.0000000 1.4245557 0.000000 0.000000 1.4245557
## X4001  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X4005  0.0000000  0.0000000 10.4988279 0.0000000 0.000000 0.000000 0.0000000
## X4006  0.0000000  0.0000000 10.4988279 0.0000000 0.000000 0.000000 0.0000000
## X4008  0.0000000  0.0000000  0.0000000 3.7978668 0.000000 0.000000 3.7978668
## X4009  0.0000000  0.0000000 10.4988279 0.0000000 0.000000 0.000000 0.0000000
## X4010  4.6347986  4.6347986  2.8716790 0.0000000 0.000000 0.000000 0.0000000
## X4012  0.0000000  0.0000000 10.4988279 0.0000000 0.000000 0.000000 0.0000000
## X4013  0.0000000  0.0000000 10.4988279 0.0000000 0.000000 0.000000 0.0000000
## X4015  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X4016  0.0000000  0.0000000  8.0481383 0.0000000 0.000000 0.000000 0.0000000
## X4202  0.0000000  0.0000000  0.0000000 0.0000000 2.617264 2.617264 0.0000000
## X4203  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X4409  3.2834817  3.2834817  2.0344158 0.0000000 0.000000 0.000000 0.0000000
## X4415  3.2559489  3.2559489  4.0347135 0.0000000 0.000000 0.000000 0.0000000
## X4416  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X4418  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X4420  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X4421  0.0000000  0.0000000  0.0000000 2.8021309 0.000000 0.000000 2.8021309
## X4602  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X4804  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X4808  0.0000000  0.0000000  0.0000000 0.0000000 2.585537 2.585537 0.0000000
## X4818  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X4819 10.3902222 10.3902222  6.4376850 0.0000000 0.000000 0.000000 0.0000000
## X4821  4.6907200  4.6907200  2.9063274 0.0000000 3.865449 3.865449 0.0000000
## X4822  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X4823  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X4901  0.0000000  0.0000000  0.0000000 3.7978668 0.000000 0.000000 3.7978668
## X4902  0.0000000  0.0000000  0.0000000 3.7978668 0.000000 0.000000 3.7978668
## X4907  0.0000000  0.0000000  0.0000000 3.7978668 0.000000 0.000000 3.7978668
## X4911  3.9117544  3.9117544  2.4236876 2.3649893 0.000000 0.000000 2.3649893
## X5111  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X5112  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X5205  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X5206  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X5208  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X5209  4.6907200  4.6907200  2.9063274 0.0000000 3.865449 3.865449 0.0000000
## X5210  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X5211  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X5402  0.0000000  0.0000000  0.0000000 0.0000000 4.937404 4.937404 0.0000000
## X5407  0.0000000  0.0000000  0.0000000 1.4116854 1.924158 1.924158 1.4116854
## X5408  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X5505  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X5508  3.2696575  3.2696575  2.0258505 1.9767872 0.000000 0.000000 1.9767872
## X5509  0.0000000  0.0000000  0.0000000 0.0000000 4.395716 4.395716 0.0000000
## X5511  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X5512  5.9915371  5.9915371  3.7123013 0.0000000 0.000000 0.000000 0.0000000
## X5513  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X5514  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X5515  8.2014033  8.2014033  5.0815134 0.0000000 0.000000 0.000000 0.0000000
## X5516  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X5601  0.0000000  0.0000000  0.0000000 3.7978668 0.000000 0.000000 3.7978668
```

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## X5603  3.5377218  3.5377218  2.1919406 0.0000000 0.000000 0.000000 0.0000000
## X5609  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X5806  4.6907200  4.6907200  2.9063274 0.0000000 3.865449 3.865449 0.0000000
## X5807  4.6907200  4.6907200  2.9063274 0.0000000 3.865449 3.865449 0.0000000
## X5903  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X5907 10.3902222 10.3902222  6.4376850 0.0000000 0.000000 0.000000 0.0000000
## X5911  0.0000000  0.0000000  0.0000000 0.0000000 3.525146 3.525146 0.0000000
## X6002  1.8587877  1.8587877  1.1516889 1.1237967 1.531759 1.531759 1.1237967
## X6101 10.3902222 10.3902222  6.4376850 0.0000000 0.000000 0.000000 0.0000000
## X6103  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X6104  0.0000000  0.0000000  0.0000000 2.1886896 2.983232 2.983232 2.1886896
## X6105 10.3902222 10.3902222  6.4376850 0.0000000 0.000000 0.000000 0.0000000
## X6106  0.0000000  0.0000000  0.0000000 2.1886896 2.983232 2.983232 2.1886896
## X6107  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X6109  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X6110  6.5459935  6.5459935  4.0558372 0.0000000 0.000000 0.000000 0.0000000
## X6111  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X6112  0.0000000  0.0000000  0.0000000 0.0000000 4.684847 4.684847 0.0000000
## X6114  0.0000000  0.0000000  0.0000000 0.0000000 3.486769 3.486769 0.0000000
## X6115  0.0000000  0.0000000  0.0000000 2.0912350 2.850399 2.850399 2.0912350
## X6117 10.3902222 10.3902222  6.4376850 0.0000000 0.000000 0.000000 0.0000000
## X6201  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X6202  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X6203  4.5533692  4.5533692  2.8212261 0.0000000 3.752264 3.752264 0.0000000
## X6204  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X6205  3.9117544  3.9117544  2.4236876 2.3649893 0.000000 0.000000 2.3649893
## X6206  0.0000000  0.0000000  0.0000000 1.7749670 2.419319 2.419319 1.7749670
## X6210  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X6211  3.6033589  3.6033589  2.2326087 0.0000000 2.969395 2.969395 0.0000000
## X6212  2.2085671  2.2085671  1.3684089 0.0000000 1.819999 1.819999 0.0000000
## X6217  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X6302  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X6303  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X6304  0.0000000  0.0000000  0.0000000 0.0000000 7.055790 7.055790 0.0000000
## X6305  0.0000000  0.0000000  0.0000000 0.0000000 3.069033 3.069033 0.0000000
## X6306  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
## X6307  0.0000000  0.0000000  0.0000000 0.0000000 6.114286 6.114286 0.0000000
## X6401  0.0000000  0.0000000  0.0000000 3.7978668 0.000000 0.000000 3.7978668
## X6403  0.0000000  0.0000000  0.0000000 3.2698252 0.000000 0.000000 3.2698252
## X6404  0.0000000  0.0000000  0.0000000 0.0000000 0.000000 0.000000 0.0000000
##           X7013      X7018      X7019      X7103     X7106     X7112     X7113
## X102  0.0000000  0.0000000  0.0000000    0.00000 3.7978668 3.7978668 3.7978668
## X210  6.1115172  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X401  0.0000000  0.0000000  1.0336342    0.00000 1.9440463 1.9440463 1.9440463
## X403  2.7661712  0.0000000  0.0000000    0.00000 1.7616411 1.7616411 1.7616411
## X406  8.3111932  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X510  0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X602  0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X603  0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X702  1.5553819  1.1480918  1.0533357   20.49193 0.9905484 0.9905484 0.9905484
## X703  0.0000000  0.0000000  0.0000000  221.57195 0.0000000 0.0000000 0.0000000
## X709  0.0000000  0.0000000  0.6557501    0.00000 0.0000000 0.0000000 0.0000000
## X712  0.0000000  0.0000000  6.2643069    0.00000 0.0000000 0.0000000 0.0000000
## X713  1.6386754  1.2095741  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X804  0.0000000  0.0000000  0.0000000   99.43531 0.0000000 0.0000000 0.0000000
## X805  0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X808  0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X809  0.0000000  0.0000000  0.0000000    0.00000 3.7978668 3.7978668 3.7978668
## X813  0.0000000  0.0000000  5.6946300    0.00000 0.0000000 0.0000000 0.0000000
## X901  0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X904  0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X1001 3.5526064  2.6223246  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X1003 0.0000000  1.5388679  0.7059290    0.00000 1.3277012 1.3277012 1.3277012
## X1005 0.0000000  2.9812050  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X1102 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
## X1108 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
## X1202 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X1208 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
## X1213 0.0000000  0.0000000  1.1746559    0.00000 0.0000000 0.0000000 0.0000000
## X1214 0.0000000  0.0000000  2.1058531    0.00000 0.0000000 0.0000000 0.0000000
## X1302 0.0000000  0.0000000  1.8782110    0.00000 0.0000000 0.0000000 0.0000000
## X1507 9.8637975  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X1514 9.8637975  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X1517 0.0000000  0.0000000  1.0336342    0.00000 1.9440463 1.9440463 1.9440463
## X1601 6.1115172  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X1602 3.0151321  0.0000000  0.0000000    0.00000 1.9201921 1.9201921 1.9201921
## X1704 0.0000000  1.9468081  0.8930639    0.00000 1.6796629 1.6796629 1.6796629
## X1806 0.0000000  1.3613582  1.2489996    0.00000 1.1745499 1.1745499 1.1745499
## X1901 1.7688586  1.3056677  1.1979056    0.00000 1.1265013 1.1265013 1.1265013
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## X1902 9.8637975  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X1905 0.0000000  2.4800003  1.1376581    0.00000 1.0698448 1.0698448 1.0698448
## X2001 9.8637975  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X2002 9.8637975  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X2003 9.8637975  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X2004 9.8637975  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X2005 2.4694464  1.8228000  0.8361775    0.00000 1.5726715 1.5726715 1.5726715
## X2006 0.0000000  0.0000000  0.0000000    0.00000 3.6223945 3.6223945 3.6223945
## X2007 3.7135639  0.0000000  0.0000000    0.00000 2.3649893 2.3649893 2.3649893
## X2008 0.0000000  1.3056677  1.1979056    0.00000 1.1265013 1.1265013 1.1265013
## X2101 9.8637975  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X2102 0.0000000  0.0000000  0.0000000    0.00000 2.7691172 2.7691172 2.7691172
## X2103 6.1115172  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X2104 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X2106 3.0909851  0.0000000  1.0466357    0.00000 0.0000000 0.0000000 0.0000000
## X2202 3.5187117  0.0000000  1.1914674    0.00000 0.0000000 0.0000000 0.0000000
## X2206 0.0000000  0.0000000  5.6946300    0.00000 0.0000000 0.0000000 0.0000000
## X2208 0.0000000  0.0000000  1.7385392    0.00000 3.2698252 3.2698252 3.2698252
## X2209 9.8637975  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X2302 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X2309 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
## X2402 0.0000000  0.0000000  0.0000000    0.00000 3.7978668 3.7978668 3.7978668
## X2403 0.0000000  0.0000000  0.0000000    0.00000 3.7978668 3.7978668 3.7978668
## X2507 0.0000000  0.0000000  4.4738938    0.00000 0.0000000 0.0000000 0.0000000
## X2508 0.0000000  0.0000000  1.0336342    0.00000 1.9440463 1.9440463 1.9440463
## X2512 0.0000000  0.0000000 12.5307523    0.00000 0.0000000 0.0000000 0.0000000
## X2517 0.0000000  0.0000000  0.7265127   28.26769 1.3664149 1.3664149 1.3664149
## X2519 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
## X2520 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X2522 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X2525 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X2530 0.0000000  0.0000000  0.0000000    0.00000 3.0772452 3.0772452 3.0772452
## X2602 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X2606 0.0000000  0.0000000  0.0000000    0.00000 3.7978668 3.7978668 3.7978668
## X2607 0.0000000  0.0000000  0.0000000 1625.38889 0.0000000 0.0000000 0.0000000
## X2608 0.0000000  0.0000000  0.0000000 1625.38889 0.0000000 0.0000000 0.0000000
## X2710 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X2713 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X2714 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X2716 0.0000000  0.0000000  0.9964947    0.00000 1.8741945 1.8741945 1.8741945
## X2804 0.0000000  0.0000000  0.8681969    0.00000 1.6328933 1.6328933 1.6328933
## X2811 0.0000000  0.0000000  0.8681969    0.00000 1.6328933 1.6328933 1.6328933
## X2825 0.0000000  0.0000000  6.2643069    0.00000 0.0000000 0.0000000 0.0000000
## X2826 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
## X2832 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
## X2833 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
## X2835 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
## X2836 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X2901 0.0000000  0.0000000  0.8681969    0.00000 1.6328933 1.6328933 1.6328933
## X2903 0.0000000  4.1985261  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X2907 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
## X2915 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
## X2933 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
## X3105 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X3202 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
## X3204 0.0000000  0.0000000  1.0085750    0.00000 1.8969151 1.8969151 1.8969151
## X3205 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X3206 0.0000000  2.6097552  1.1971784    0.00000 0.0000000 0.0000000 0.0000000
## X3207 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X3208 0.0000000  3.8706168  1.7755749    0.00000 0.0000000 0.0000000 0.0000000
## X3209 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X3210 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
## X3211 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X3212 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X3214 0.0000000  4.1985261  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X3215 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X3302 3.8292087  0.0000000  1.2966042    0.00000 0.0000000 0.0000000 0.0000000
## X3303 0.0000000  0.0000000  0.0000000    0.00000 3.7978668 3.7978668 3.7978668
## X3304 0.0000000  0.0000000  0.0000000    0.00000 3.7978668 3.7978668 3.7978668
## X3305 0.0000000  0.0000000  0.0000000    0.00000 3.2249778 3.2249778 3.2249778
## X3307 0.0000000  0.0000000  0.0000000    0.00000 3.7978668 3.7978668 3.7978668
## X3402 2.1773164  0.0000000  0.7372600    0.00000 1.3866282 1.3866282 1.3866282
## X3403 0.0000000  0.0000000  0.9545670    0.00000 1.7953373 1.7953373 1.7953373
## X3506 2.1968135  1.6215586  0.0000000    0.00000 1.3990449 1.3990449 1.3990449
## X3507 3.8292087  0.0000000  1.2966042    0.00000 0.0000000 0.0000000 0.0000000
## X3605 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X3701 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X3707 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X3802 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
```

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## X3808 0.0000000  0.0000000  0.0000000    0.00000 3.7978668 3.7978668 3.7978668
## X3809 0.0000000  0.0000000  0.8251105    0.00000 1.5518568 1.5518568 1.5518568
## X3810 0.0000000  0.0000000  6.2643069    0.00000 0.0000000 0.0000000 0.0000000
## X3811 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X3814 0.0000000  2.6097552  1.1971784    0.00000 0.0000000 0.0000000 0.0000000
## X3815 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
## X3816 0.0000000  0.0000000  0.0000000    0.00000 3.7978668 3.7978668 3.7978668
## X3819 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X3820 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X3823 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X3902 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
## X3908 3.7135639  0.0000000  0.0000000    0.00000 2.3649893 2.3649893 2.3649893
## X3909 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
## X3910 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
## X3911 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
## X3915 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
## X3916 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X3917 0.0000000  0.0000000  1.5382229    0.00000 1.4465342 1.4465342 1.4465342
## X3919 0.0000000  2.6097552  1.1971784    0.00000 0.0000000 0.0000000 0.0000000
## X3920 0.0000000  2.1381311  0.9808297    0.00000 0.0000000 0.0000000 0.0000000
## X3921 0.0000000  2.3814201  1.0924340    0.00000 0.0000000 0.0000000 0.0000000
## X3923 5.0989071  3.7637121  1.7265345    0.00000 0.0000000 0.0000000 0.0000000
## X3924 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X3925 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
## X3926 0.0000000  1.6511268  0.7574257    0.00000 1.4245557 1.4245557 1.4245557
## X4001 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X4005 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X4006 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X4008 0.0000000  0.0000000  0.0000000    0.00000 3.7978668 3.7978668 3.7978668
## X4009 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X4010 4.3999748  0.0000000  1.4898703    0.00000 0.0000000 0.0000000 0.0000000
## X4012 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X4013 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X4015 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X4016 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X4202 0.0000000  2.2255929  1.0209512    0.00000 0.0000000 0.0000000 0.0000000
## X4203 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X4409 3.1171230  0.0000000  2.1109723    0.00000 0.0000000 0.0000000 0.0000000
## X4415 3.0909851  0.0000000  1.0466357    0.00000 0.0000000 0.0000000 0.0000000
## X4416 0.0000000  0.0000000  3.2773019    0.00000 0.0000000 0.0000000 0.0000000
## X4418 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X4420 0.0000000  0.0000000  5.6946300    0.00000 0.0000000 0.0000000 0.0000000
## X4421 0.0000000  0.0000000  1.4898703    0.00000 2.8021309 2.8021309 2.8021309
## X4602 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X4804 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
## X4808 0.0000000  2.1986138  1.0085750    0.00000 0.0000000 0.0000000 0.0000000
## X4818 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X4819 9.8637975  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X4821 4.4530630  3.2869882  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X4822 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
## X4823 0.0000000  0.0000000  1.5944063    0.00000 0.0000000 0.0000000 0.0000000
## X4901 0.0000000  0.0000000  0.0000000    0.00000 3.7978668 3.7978668 3.7978668
## X4902 0.0000000  0.0000000  0.0000000    0.00000 3.7978668 3.7978668 3.7978668
## X4907 0.0000000  0.0000000  0.0000000    0.00000 3.7978668 3.7978668 3.7978668
## X4911 3.7135639  0.0000000  0.0000000    0.00000 2.3649893 2.3649893 2.3649893
## X5111 0.0000000  0.0000000  3.6284420    0.00000 0.0000000 0.0000000 0.0000000
## X5112 0.0000000  0.0000000 12.5307523    0.00000 0.0000000 0.0000000 0.0000000
## X5205 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X5206 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X5208 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X5209 4.4530630  3.2869882  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X5210 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X5211 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X5402 0.0000000  4.1985261  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X5407 0.0000000  1.6362095  0.7505826    0.00000 1.4116854 1.4116854 1.4116854
## X5408 0.0000000  0.0000000 22.7849352    0.00000 0.0000000 0.0000000 0.0000000
## X5505 0.0000000  0.0000000  9.1105524    0.00000 0.0000000 0.0000000 0.0000000
## X5508 3.1039991  0.0000000  0.0000000    0.00000 1.9767872 1.9767872 1.9767872
## X5509 0.0000000  3.7379013  3.4293884    0.00000 0.0000000 0.0000000 0.0000000
## X5511 0.0000000  0.0000000  5.6946300    0.00000 0.0000000 0.0000000 0.0000000
## X5512 5.6879736  0.0000000  3.8519944    0.00000 0.0000000 0.0000000 0.0000000
## X5513 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X5514 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X5515 7.7858759  0.0000000  2.6363641    0.00000 0.0000000 0.0000000 0.0000000
## X5516 0.0000000  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X5601 0.0000000  0.0000000  0.0000000    0.00000 3.7978668 3.7978668 3.7978668
## X5603 3.3584819  0.0000000  1.1372122    0.00000 0.0000000 0.0000000 0.0000000
## X5609 0.0000000  0.0000000  5.6946300    0.00000 0.0000000 0.0000000 0.0000000
## X5806 4.4530630  3.2869882  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
```

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## X5807 4.4530630  3.2869882  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X5903 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
## X5907 9.8637975  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X5911 0.0000000  2.9976110  2.7501999    0.00000 0.0000000 0.0000000 0.0000000
## X6002 1.7646117  1.3025329  0.5975148    0.00000 1.1237967 1.1237967 1.1237967
## X6101 9.8637975  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X6103 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X6104 0.0000000  2.5367942  0.0000000    0.00000 2.1886896 2.1886896 2.1886896
## X6105 9.8637975  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X6106 0.0000000  2.5367942  0.0000000    0.00000 2.1886896 2.1886896 2.1886896
## X6107 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X6109 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X6110 6.2143382  0.0000000  2.1042285    0.00000 0.0000000 0.0000000 0.0000000
## X6111 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X6112 0.0000000  3.9837640  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X6114 0.0000000  2.9649774  2.7202598    0.00000 0.0000000 0.0000000 0.0000000
## X6115 0.0000000  2.4238397  0.0000000    0.00000 2.0912350 2.0912350 2.0912350
## X6117 9.8637975  0.0000000  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X6201 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X6202 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X6203 4.3226711  3.1907407  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X6204 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X6205 3.7135639  0.0000000  0.0000000    0.00000 2.3649893 2.3649893 2.3649893
## X6206 0.0000000  2.0572701  0.9437363    0.00000 1.7749670 1.7749670 1.7749670
## X6210 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X6211 3.4207935  2.5250281  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X6212 2.0966693  1.5476381  0.7099522    0.00000 0.0000000 0.0000000 0.0000000
## X6217 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X6302 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X6303 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X6304 0.0000000  5.9998972  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X6305 0.0000000  2.6097552  1.1971784    0.00000 0.0000000 0.0000000 0.0000000
## X6306 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
## X6307 0.0000000  5.1992879  0.0000000    0.00000 0.0000000 0.0000000 0.0000000
## X6401 0.0000000  0.0000000  0.0000000    0.00000 3.7978668 3.7978668 3.7978668
## X6403 0.0000000  0.0000000  0.0000000    0.00000 3.2698252 3.2698252 3.2698252
## X6404 0.0000000  0.0000000  2.1220791    0.00000 0.0000000 0.0000000 0.0000000
##            X7117     X7118     X7202      X7204      X7205     X7208     X7210
## X102    0.000000 3.7978668  0.000000   0.000000   0.000000  0.000000  0.000000
## X210    0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  4.233906
## X401    0.000000 1.9440463  0.000000   0.000000   0.000000  0.000000  0.000000
## X403    0.000000 1.7616411  0.000000   0.000000   0.000000  0.000000  1.916335
## X406    0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  5.757786
## X510    0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X602    0.000000 0.0000000  0.000000 105.961948 105.961948  0.000000  0.000000
## X603    0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X702    5.587948 0.9905484  0.000000  10.245444  10.245444  0.000000  1.077531
## X703    0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X709    0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  1.341626
## X712    0.000000 0.0000000 36.550000   0.000000   0.000000 36.550000  0.000000
## X713    5.887193 0.0000000  0.000000  10.794107  10.794107  0.000000  1.135234
## X804    0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X805    0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X808    0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X809    0.000000 3.7978668  0.000000   0.000000   0.000000  0.000000  0.000000
## X813    0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X901    0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X904    0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X1001  12.763298 0.0000000  0.000000   0.000000   0.000000  0.000000  2.461157
## X1003  14.979848 1.3277012  0.000000  13.732697  13.732697  0.000000  0.000000
## X1005  14.510032 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X1102   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X1108   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X1202   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X1208   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X1213   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  2.403281
## X1214   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  1.436151
## X1302   0.000000 0.0000000  0.000000  12.179168  12.179168  0.000000  1.280903
## X1507   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  6.833391
## X1514   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  6.833391
## X1517   0.000000 1.9440463  0.000000   0.000000   0.000000  0.000000  0.000000
## X1601   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  4.233906
## X1602   0.000000 1.9201921  0.000000   0.000000   0.000000  0.000000  2.088809
## X1704   9.475441 1.6796629  0.000000   0.000000   0.000000  0.000000  0.000000
## X1806   6.625953 1.1745499  0.000000   0.000000   0.000000  0.000000  0.000000
## X1901   6.354898 1.1265013  0.000000   0.000000   0.000000  0.000000  1.225422
## X1902   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  6.833391
## X1905  12.070564 1.0698448  0.000000   0.000000   0.000000  0.000000  0.000000
## X2001   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  6.833391
```

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## X2002   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  6.833391
## X2003   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  6.833391
## X2004   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  6.833391
## X2005   8.871872 1.5726715  0.000000   0.000000   0.000000  0.000000  1.710771
## X2006   0.000000 3.6223945  0.000000   0.000000   0.000000  0.000000  0.000000
## X2007   0.000000 2.3649893  0.000000   0.000000   0.000000  0.000000  2.572665
## X2008   6.354898 1.1265013  0.000000   0.000000   0.000000  0.000000  0.000000
## X2101   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  6.833391
## X2102   0.000000 2.7691172  0.000000   0.000000   0.000000  0.000000  0.000000
## X2103   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  4.233906
## X2104   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X2106   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  2.141358
## X2202   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  2.437676
## X2206   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X2208   0.000000 3.2698252  0.000000   0.000000   0.000000  0.000000  0.000000
## X2209   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  6.833391
## X2302   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X2309   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X2402   0.000000 3.7978668  0.000000   0.000000   0.000000  0.000000  0.000000
## X2403   0.000000 3.7978668  0.000000   0.000000   0.000000  0.000000  0.000000
## X2507   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X2508   0.000000 1.9440463  0.000000   0.000000   0.000000  0.000000  0.000000
## X2512   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X2517   7.708319 1.3664149  0.000000  14.133122  14.133122  0.000000  0.000000
## X2519   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X2520   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X2522   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X2525   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X2530   0.000000 3.0772452  0.000000   0.000000   0.000000  0.000000  0.000000
## X2602   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X2606   0.000000 3.7978668  0.000000   0.000000   0.000000  0.000000  0.000000
## X2607   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X2608   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X2710   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X2713   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X2714   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X2716   0.000000 1.8741945  0.000000   0.000000   0.000000  0.000000  2.038772
## X2804   0.000000 1.6328933  0.000000   0.000000   0.000000  0.000000  0.000000
## X2811   0.000000 1.6328933  0.000000   0.000000   0.000000  0.000000  0.000000
## X2825   0.000000 0.0000000 36.550000   0.000000   0.000000 36.550000  0.000000
## X2826   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X2832   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X2833   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X2835   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X2836   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X2901   0.000000 1.6328933  0.000000   0.000000   0.000000  0.000000  0.000000
## X2903   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  3.940486
## X2907   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X2915   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X2933   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3105   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3202   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3204  10.701023 1.8969151  0.000000   0.000000   0.000000  0.000000  0.000000
## X3205   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3206   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3207   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3208   0.000000 0.0000000 10.359833   0.000000   0.000000 10.359833  0.000000
## X3209   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3210   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3211   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3212 443.227264 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3214   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  3.940486
## X3215   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3302   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  2.652780
## X3303   0.000000 3.7978668  0.000000   0.000000   0.000000  0.000000  0.000000
## X3304   0.000000 3.7978668  0.000000   0.000000   0.000000  0.000000  0.000000
## X3305   0.000000 3.2249778  0.000000   0.000000   0.000000  0.000000  0.000000
## X3307   0.000000 3.7978668  0.000000   0.000000   0.000000  0.000000  0.000000
## X3402   0.000000 1.3866282  0.000000   0.000000   0.000000  0.000000  1.508391
## X3403   0.000000 1.7953373  0.000000   0.000000   0.000000  0.000000  0.000000
## X3506   0.000000 1.3990449  0.000000   0.000000   0.000000  0.000000  1.521898
## X3507   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  2.652780
## X3605   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3701   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3707   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3802   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000 13.145181
## X3808   0.000000 3.7978668  0.000000   0.000000   0.000000  0.000000  0.000000
## X3809   0.000000 1.5518568  0.000000   0.000000   0.000000  0.000000  0.000000
## X3810   0.000000 0.0000000 36.550000   0.000000   0.000000 36.550000  0.000000
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## X3811   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3814   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3815   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3816   0.000000 3.7978668  0.000000   0.000000   0.000000  0.000000  0.000000
## X3819   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3820   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3823   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3902   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3908   0.000000 2.3649893  0.000000   0.000000   0.000000  0.000000  2.572665
## X3909   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3910   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3911   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3915   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3916   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3917   0.000000 1.4465342  0.000000   0.000000   0.000000  0.000000  0.000000
## X3919   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3920   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3921   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3923  18.318632 0.0000000  0.000000   0.000000   0.000000  0.000000  3.532395
## X3924   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3925   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X3926   8.036308 1.4245557  0.000000  14.734487  14.734487  0.000000  1.549649
## X4001   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X4005   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X4006   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X4008   0.000000 3.7978668  0.000000   0.000000   0.000000  0.000000  0.000000
## X4009   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X4010   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  3.048193
## X4012   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X4013   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X4015   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X4016   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X4202   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X4203   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X4409   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  2.159465
## X4415   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  2.141358
## X4416   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X4418   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X4420   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X4421   0.000000 2.8021309  0.000000   0.000000   0.000000  0.000000  0.000000
## X4602   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X4804   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X4808   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  2.063488
## X4818   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X4819   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  6.833391
## X4821   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  3.084971
## X4822   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X4823   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  3.262068
## X4901   0.000000 3.7978668  0.000000   0.000000   0.000000  0.000000  0.000000
## X4902   0.000000 3.7978668  0.000000   0.000000   0.000000  0.000000  0.000000
## X4907   0.000000 3.7978668  0.000000   0.000000   0.000000  0.000000  0.000000
## X4911   0.000000 2.3649893  0.000000   0.000000   0.000000  0.000000  2.572665
## X5111   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X5112   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X5205   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X5206   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X5208   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X5209   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  3.084971
## X5210   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X5211   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X5402   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  3.940486
## X5407   0.000000 1.4116854  0.000000   0.000000   0.000000  0.000000  0.000000
## X5408   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X5505   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X5508   0.000000 1.9767872  0.000000   0.000000   0.000000  0.000000  4.300747
## X5509   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X5511   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X5512   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  3.940486
## X5513   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X5514   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X5515   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  5.393860
## X5516   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X5601   0.000000 3.7978668  0.000000   0.000000   0.000000  0.000000  0.000000
## X5603   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  2.326673
## X5609   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X5806   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  3.084971
## X5807   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  3.084971
## X5903   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X5907   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  6.833391
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## X5911   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X6002   0.000000 1.1237967  0.000000   0.000000   0.000000  0.000000  1.222480
## X6101   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  6.833391
## X6103   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X6104   0.000000 2.1886896  0.000000   0.000000   0.000000  0.000000  0.000000
## X6105   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  6.833391
## X6106   0.000000 2.1886896  0.000000   0.000000   0.000000  0.000000  0.000000
## X6107   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X6109   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X6110   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  4.305138
## X6111   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X6112   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X6114   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X6115   0.000000 2.0912350  0.000000   0.000000   0.000000  0.000000  0.000000
## X6117   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  6.833391
## X6201   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X6202   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X6203   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  2.994639
## X6204   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X6205   0.000000 2.3649893  0.000000   0.000000   0.000000  0.000000  2.572665
## X6206   0.000000 1.7749670  0.000000   0.000000   0.000000  0.000000  0.000000
## X6210   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X6211   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  2.369841
## X6212   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  1.452521
## X6217   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X6302   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X6303   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X6304   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X6305   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X6306   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X6307   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
## X6401   0.000000 3.7978668  0.000000   0.000000   0.000000  0.000000  0.000000
## X6403   0.000000 3.2698252  0.000000   0.000000   0.000000  0.000000  0.000000
## X6404   0.000000 0.0000000  0.000000   0.000000   0.000000  0.000000  0.000000
##          X7211     X7216     X7219     X7225    X7304    X7306     X7307
## X102  0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X210  0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X401  0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 2.0430009
## X403  0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X406  0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X510  0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X602  0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X603  0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X702  0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X703  0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X709  0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X712  0.000000 36.550000 36.550000 36.550000 0.000000 0.000000 0.0000000
## X713  0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X804  0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X805  0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X808  0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X809  0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X813  0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X901  0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X904  0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X1001 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X1003 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 1.3952830
## X1005 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X1102 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
## X1108 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
## X1202 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X1208 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
## X1213 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X1214 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X1302 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X1507 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X1514 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X1517 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 2.0430009
## X1601 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X1602 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X1704 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X1806 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 1.2343360
## X1901 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 1.1838417
## X1902 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X1905 1.458221  0.000000  0.000000  0.000000 1.458221 1.458221 1.1243013
## X2001 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2002 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2003 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2004 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
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## X2005 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2006 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2007 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2008 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 1.1838417
## X2101 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2102 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2103 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2104 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2106 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 2.0686986
## X2202 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 2.3549622
## X2206 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2208 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2209 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2302 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2309 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
## X2402 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2403 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2507 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2508 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 2.0430009
## X2512 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2517 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2519 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
## X2520 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2522 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2525 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2530 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2602 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2606 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2607 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2608 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2710 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2713 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X2714 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X2716 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2804 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 1.7160098
## X2811 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 1.7160098
## X2825 0.000000 36.550000 36.550000 36.550000 0.000000 0.000000 0.0000000
## X2826 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
## X2832 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
## X2833 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
## X2835 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
## X2836 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X2901 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 1.7160098
## X2903 4.937404  0.000000  0.000000  0.000000 4.937404 4.937404 0.0000000
## X2907 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
## X2915 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
## X2933 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
## X3105 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X3202 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
## X3204 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 1.9934707
## X3205 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X3206 3.069033  0.000000  0.000000  0.000000 3.069033 3.069033 2.3662503
## X3207 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X3208 4.551788 10.359833 10.359833 10.359833 4.551788 4.551788 0.0000000
## X3209 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X3210 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
## X3211 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X3212 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X3214 4.937404  0.000000  0.000000  0.000000 4.937404 4.937404 0.0000000
## X3215 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X3302 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 2.5627679
## X3303 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X3304 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X3305 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X3307 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X3402 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 1.4572094
## X3403 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 1.8867224
## X3506 1.906928  0.000000  0.000000  0.000000 1.906928 1.906928 0.0000000
## X3507 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 2.5627679
## X3605 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X3701 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X3707 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X3802 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X3808 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X3809 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 1.6308484
## X3810 0.000000 36.550000 36.550000 36.550000 0.000000 0.000000 0.0000000
## X3811 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X3814 3.069033  0.000000  0.000000  0.000000 3.069033 3.069033 2.3662503
## X3815 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
```

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## X3816 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X3819 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X3820 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X3823 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X3902 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
## X3908 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X3909 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
## X3910 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
## X3911 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
## X3915 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
## X3916 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X3917 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 1.5201647
## X3919 3.069033  0.000000  0.000000  0.000000 3.069033 3.069033 2.3662503
## X3920 2.514410  0.000000  0.000000  0.000000 2.514410 2.514410 1.9386314
## X3921 2.800514  0.000000  0.000000  0.000000 2.800514 2.800514 2.1592202
## X3923 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X3924 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X3925 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
## X3926 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 1.4970675
## X4001 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X4005 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X4006 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X4008 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X4009 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X4010 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X4012 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X4013 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X4015 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X4016 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X4202 2.617264  0.000000  0.000000  0.000000 2.617264 2.617264 2.0179326
## X4203 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X4409 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 2.0861918
## X4415 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 2.0686986
## X4416 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 2.1592202
## X4418 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X4420 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X4421 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X4602 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X4804 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
## X4808 2.585537  0.000000  0.000000  0.000000 2.585537 2.585537 1.9934707
## X4818 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X4819 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X4821 3.865449  0.000000  0.000000  0.000000 3.865449 3.865449 0.0000000
## X4822 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
## X4823 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 3.1513815
## X4901 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X4902 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X4907 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X4911 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X5111 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 3.5858510
## X5112 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X5205 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X5206 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X5208 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X5209 3.865449  0.000000  0.000000  0.000000 3.865449 3.865449 0.0000000
## X5210 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X5211 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X5402 4.937404  0.000000  0.000000  0.000000 4.937404 4.937404 0.0000000
## X5407 1.924158  0.000000  0.000000  0.000000 1.924158 1.924158 1.4835421
## X5408 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X5505 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X5508 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X5509 4.395716  0.000000  0.000000  0.000000 4.395716 4.395716 0.0000000
## X5511 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X5512 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X5513 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X5514 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X5515 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X5516 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X5601 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X5603 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 2.2477256
## X5609 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X5806 3.865449  0.000000  0.000000  0.000000 3.865449 3.865449 0.0000000
## X5807 3.865449  0.000000  0.000000  0.000000 3.865449 3.865449 0.0000000
## X5903 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
## X5907 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X5911 3.525146  0.000000  0.000000  0.000000 3.525146 3.525146 0.0000000
## X6002 1.531759  0.000000  0.000000  0.000000 1.531759 1.531759 1.1809994
## X6101 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
```

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## X6103 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X6104 2.983232  0.000000  0.000000  0.000000 2.983232 2.983232 0.0000000
## X6105 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X6106 2.983232  0.000000  0.000000  0.000000 2.983232 2.983232 0.0000000
## X6107 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X6109 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X6110 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X6111 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X6112 4.684847  0.000000  0.000000  0.000000 4.684847 4.684847 0.0000000
## X6114 3.486769  0.000000  0.000000  0.000000 3.486769 3.486769 0.0000000
## X6115 2.850399  0.000000  0.000000  0.000000 2.850399 2.850399 0.0000000
## X6117 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X6201 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X6202 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X6203 3.752264  0.000000  0.000000  0.000000 3.752264 3.752264 0.0000000
## X6204 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X6205 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X6206 2.419319  0.000000  0.000000  0.000000 2.419319 2.419319 0.0000000
## X6210 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X6211 2.969395  0.000000  0.000000  0.000000 2.969395 2.969395 0.0000000
## X6212 1.819999  0.000000  0.000000  0.000000 1.819999 1.819999 1.4032349
## X6217 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X6302 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X6303 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X6304 7.055790  0.000000  0.000000  0.000000 7.055790 7.055790 0.0000000
## X6305 3.069033  0.000000  0.000000  0.000000 3.069033 3.069033 2.3662503
## X6306 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
## X6307 6.114286  0.000000  0.000000  0.000000 6.114286 6.114286 0.0000000
## X6401 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X6403 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 0.0000000
## X6404 0.000000  0.000000  0.000000  0.000000 0.000000 0.000000 4.1943407
##            X7308      X7309     X7310     X7314      X7315     X7317     X7318
## X102   0.0000000  1.8447320  0.000000  0.000000  0.0000000 3.7978668 1.9440463
## X210   4.6414096  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X401   0.0000000  0.9442797  0.000000  0.000000  0.0000000 1.9440463 0.9951165
## X403   2.1007774  1.7113608  0.000000  0.000000  0.0000000 1.7616411 0.9017473
## X406   0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X510   0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X602   0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X603   0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X702   1.1812401  0.4811392  0.000000  0.000000  0.0000000 0.9905484 0.5070420
## X703   0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X709   2.9415087  1.7971880  3.924187  0.000000  1.9365962 0.0000000 1.2626281
## X712   0.0000000  0.0000000  0.000000 36.550000 18.5001562 0.0000000 6.0308704
## X713   2.4889951  2.0276196  3.320500  0.000000  1.6386754 0.0000000 1.0683896
## X804   0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X805   0.0000000  1.9552176  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X808   0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X809   0.0000000  1.8447320  0.000000  0.000000  0.0000000 3.7978668 1.9440463
## X813   0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X901   0.0000000  2.2430373  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X904  12.2167612  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X1001  5.3960756  2.1979069  7.198765  0.000000  0.0000000 0.0000000 1.1581174
## X1003  0.0000000  0.6449037  0.000000  0.000000  0.0000000 1.3277012 0.6796230
## X1005  0.0000000  1.2493513  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X1102  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X1108  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X1202  0.0000000  6.7330209  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X1208  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X1213  5.2691810  2.1462208  7.029478  0.000000  0.0000000 0.0000000 1.1308830
## X1214  1.5743768  2.5650785  4.200668  0.000000  2.0730398 0.0000000 1.3515866
## X1302  1.4041866  2.2877944  3.746574  0.000000  1.8489439 0.0000000 1.2054805
## X1507  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X1514  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X1517  0.0000000  0.9442797  0.000000  0.000000  0.0000000 1.9440463 0.9951165
## X1601  4.6414096  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X1602  2.2898514  0.9326931  0.000000  0.000000  0.0000000 1.9201921 0.9829061
## X1704  2.0030174  1.6317226  0.000000  0.000000  0.0000000 1.6796629 0.8597844
## X1806  1.4006640  1.1410276  0.000000  0.000000  0.0000000 1.1745499 0.6012282
## X1901  0.0000000  1.0943506  0.000000  0.000000  0.0000000 1.1265013 0.5766333
## X1902  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X1905  0.0000000  1.0393113  0.000000  0.000000  0.0000000 1.0698448 0.5476320
## X2001  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2002  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2003  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2004  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2005  0.0000000  1.5277852  0.000000  0.000000  0.0000000 1.5726715 0.8050179
## X2006  0.0000000  1.7595002  0.000000  0.000000  0.0000000 3.6223945 1.8542259
## X2007  0.0000000  1.1487435  0.000000  0.000000  0.0000000 2.3649893 1.2105879
```

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## X2008  1.3433656  1.0943506  0.000000  0.000000  0.0000000 1.1265013 0.5766333
## X2101  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2102  3.3022048  1.3450397  0.000000  0.000000  0.0000000 2.7691172 1.4174521
## X2103  4.6414096  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2104 12.2167612  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2106  2.3474582  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2202  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2206  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2208  0.0000000  3.1764949  0.000000  0.000000  0.0000000 3.2698252 1.6737534
## X2209  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2302 12.2167612  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2309  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2402  0.0000000  1.8447320  0.000000  0.000000  0.0000000 3.7978668 1.9440463
## X2403  0.0000000  1.8447320  0.000000  0.000000  0.0000000 3.7978668 1.9440463
## X2507  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2508  0.0000000  0.9442797  0.000000  0.000000  0.0000000 1.9440463 0.9951165
## X2512  0.0000000 11.4475027  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2517  1.6294654  1.3274160  0.000000  0.000000  2.1455769 1.3664149 1.3988794
## X2519  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2520  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2522  0.0000000  9.1556580  0.000000  0.000000 14.7988598 0.0000000 4.8242845
## X2525 29.5842455  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2530  0.0000000  1.4947060  0.000000  0.000000  0.0000000 3.0772452 1.5751760
## X2602  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2606  0.0000000  1.8447320  0.000000  0.000000  0.0000000 3.7978668 1.9440463
## X2607  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2608  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2710 12.2167612  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2713  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2714  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2716  4.4699975  3.6414030  5.963307  0.000000  0.0000000 1.8741945 1.9187218
## X2804  1.9472441  0.7931440  0.000000  0.000000  0.0000000 1.6328933 0.8358441
## X2811  1.9472441  0.7931440  0.000000  0.000000  0.0000000 1.6328933 0.8358441
## X2825  0.0000000  0.0000000  0.000000 36.550000 18.5001562 0.0000000 6.0308704
## X2826  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2832  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2833  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2835  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2836  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2901  1.9472441  0.7931440  0.000000  0.000000  0.0000000 1.6328933 0.8358441
## X2903  4.3197483  1.7595002 11.525733  0.000000  0.0000000 0.0000000 1.8542259
## X2907  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2915  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X2933  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3105  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3202  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3204  0.0000000  0.9213868  0.000000  0.000000  0.0000000 1.8969151 0.9709911
## X3205  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3206  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3207  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3208  0.0000000  0.0000000  0.000000 10.359833  5.2437367 0.0000000 1.7094091
## X3209  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3210  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3211  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3212  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3214  4.3197483  1.7595002 11.525733  0.000000  0.0000000 0.0000000 1.8542259
## X3215  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3302  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3303  0.0000000  1.8447320  0.000000  0.000000  0.0000000 3.7978668 1.9440463
## X3304  0.0000000  1.8447320  0.000000  0.000000  0.0000000 3.7978668 1.9440463
## X3305  0.0000000  3.1329277  0.000000  0.000000  0.0000000 3.2249778 1.6507970
## X3307  0.0000000  1.8447320  0.000000  0.000000  0.0000000 3.7978668 1.9440463
## X3402  0.0000000  1.3470523  0.000000  0.000000  0.0000000 1.3866282 0.7097864
## X3403  0.0000000  0.8720476  0.000000  0.000000  0.0000000 1.7953373 0.9189956
## X3506  1.6683771  0.6795573  0.000000  0.000000  0.0000000 1.3990449 0.7161423
## X3507  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3605 12.2167612  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3701  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3707  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3802 14.4103752  5.8695626 38.449047  0.000000  0.0000000 0.0000000 6.1855609
## X3808  0.0000000  1.8447320  0.000000  0.000000  0.0000000 3.7978668 1.9440463
## X3809  0.0000000  2.2613469  0.000000  0.000000  2.4367625 1.5518568 1.5887266
## X3810  0.0000000  0.0000000  0.000000 36.550000 18.5001562 0.0000000 6.0308704
## X3811  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3814  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3815  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3816  0.0000000  1.8447320  0.000000  0.000000  0.0000000 3.7978668 1.9440463
## X3819  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3820  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
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## X3823 12.2167612  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3902  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3908  0.0000000  1.1487435  0.000000  0.000000  0.0000000 2.3649893 1.2105879
## X3909  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3910  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3911  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3915  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3916  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3917  0.0000000  1.4052484  0.000000  0.000000  2.2713823 1.4465342 1.4809020
## X3919  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3920  2.1998643  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3921  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3923  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3924  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3925  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X3926  1.6987990  1.3838972  4.532645  0.000000  0.0000000 1.4245557 1.4584014
## X4001  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X4005 12.2167612  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X4006 12.2167612  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X4008  0.0000000  1.8447320  0.000000  0.000000  0.0000000 3.7978668 1.9440463
## X4009 12.2167612  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X4010  0.0000000  1.3610753  0.000000  0.000000  4.3999748 0.0000000 1.4343511
## X4012 12.2167612  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X4013 12.2167612  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X4015  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X4016  9.3650628  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X4202  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X4203  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X4409  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X4415  2.3474582  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X4416  0.0000000  1.9959927  0.000000  0.000000  3.2262398 0.0000000 1.0517251
## X4418 29.5842455  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X4420  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X4421  0.0000000  1.3610753  0.000000  0.000000  0.0000000 2.8021309 1.4343511
## X4602  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X4804  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X4808  2.2620933  0.9213868  6.035599  0.000000  0.0000000 0.0000000 0.9709911
## X4818  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X4819  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X4821  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X4822  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X4823  3.5760343  1.4565745  9.541392  0.000000  0.0000000 0.0000000 1.5349916
## X4901  0.0000000  1.8447320  0.000000  0.000000  0.0000000 3.7978668 1.9440463
## X4902  0.0000000  1.8447320  0.000000  0.000000  0.0000000 3.7978668 1.9440463
## X4907  0.0000000  1.8447320  0.000000  0.000000  0.0000000 3.7978668 1.9440463
## X4911  0.0000000  1.1487435  0.000000  0.000000  0.0000000 2.3649893 1.2105879
## X5111  0.0000000  1.6573868  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X5112  0.0000000 11.4475027  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X5205  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X5206  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X5208  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X5209  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X5210  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X5211  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X5402  4.3197483  1.7595002 11.525733  0.000000  0.0000000 0.0000000 1.8542259
## X5407  0.0000000  0.6856972  0.000000  0.000000  0.0000000 1.4116854 0.7226127
## X5408  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X5505  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X5508  2.3573418  1.9203658  6.289736  0.000000  0.0000000 1.9767872 2.0237516
## X5509  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X5511  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X5512  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X5513  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X5514  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X5515  0.0000000  2.4084578  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X5516  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X5601  0.0000000  1.8447320  0.000000  0.000000  0.0000000 3.7978668 1.9440463
## X5603  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X5609  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X5806  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X5807  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X5903  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X5907  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X5911  0.0000000  1.2562266  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X6002  0.0000000  0.5458616  0.000000  0.000000  0.0000000 1.1237967 0.5752488
## X6101  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X6103  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X6104  0.0000000  1.0631098  0.000000  0.000000  0.0000000 2.1886896 1.1203440
## X6105  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
```

```
## X6106  0.0000000  1.0631098  0.000000  0.000000  0.0000000 2.1886896 1.1203440
## X6107  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X6109  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X6110  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X6111  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X6112  0.0000000  1.6694988  0.000000  0.000000  5.3970235 0.0000000 1.7593790
## X6114  0.0000000  1.2425507  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X6115  0.0000000  1.0157734  0.000000  0.000000  0.0000000 2.0912350 1.0704591
## X6117  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X6201  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X6202  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X6203  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X6204  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X6205  0.0000000  1.1487435  0.000000  0.000000  0.0000000 2.3649893 1.2105879
## X6206  0.0000000  0.8621532  0.000000  0.000000  0.0000000 1.7749670 0.9085685
## X6210  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X6211  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X6212  1.5923223  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X6217  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X6302  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X6303  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X6304  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X6305  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X6306  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X6307  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
## X6401  0.0000000  1.8447320  0.000000  0.000000  0.0000000 3.7978668 1.9440463
## X6403  0.0000000  1.5882475  0.000000  0.000000  0.0000000 3.2698252 1.6737534
## X6404  0.0000000  0.0000000  0.000000  0.000000  0.0000000 0.0000000 0.0000000
##           X7319      X7320     X7322     X7326     X7418     X7419     X7605
## X102  2.8021309   0.000000 0.0000000 1.8969151 3.7978668 0.0000000 1.6328933
## X210  0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 1.6734212
## X401  1.4343511   0.000000 2.0430009 1.9419821 1.9440463 1.0898713 1.6716882
## X403  1.2997694   0.000000 0.0000000 0.8798855 1.7616411 0.0000000 1.5148382
## X406  0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X510  0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X602  0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X603  0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X702  1.4616887   0.000000 0.0000000 0.4947494 0.9905484 0.5553222 0.4258882
## X703  0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X709  0.9099691   6.377620 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X712  0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X713  0.0000000   5.396502 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X804  0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X805  0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X808  0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X809  2.8021309   0.000000 0.0000000 1.8969151 3.7978668 0.0000000 1.6328933
## X813  7.9023179   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X901  0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X904  0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 4.4046459
## X1001 0.0000000  11.699490 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X1003 0.9796014   0.000000 1.3952830 1.3262929 1.3277012 0.7443365 1.1416938
## X1005 0.0000000  13.300636 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X1102 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
## X1108 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
## X1202 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X1208 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
## X1213 0.0000000  11.424364 0.0000000 0.0000000 0.0000000 1.2385656 0.0000000
## X1214 0.9740812   6.826958 0.0000000 0.0000000 0.0000000 0.7401421 0.0000000
## X1302 0.8687831   6.088962 0.0000000 0.0000000 0.0000000 0.6601330 0.0000000
## X1507 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X1514 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X1517 1.4343511   0.000000 2.0430009 1.9419821 1.9440463 1.0898713 1.6716882
## X1601 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 1.6734212
## X1602 1.4167511   0.000000 0.0000000 0.9590767 1.9201921 0.0000000 1.6511761
## X1704 2.4785691   8.685673 0.0000000 0.8389400 1.6796629 0.0000000 1.4443452
## X1806 1.7332074   6.073687 1.2343360 1.1733045 1.1745499 0.6584770 1.5149986
## X1901 1.6623054   5.825224 1.1838417 1.1253071 1.1265013 0.6315400 0.9686822
## X1902 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X1905 1.5787012   5.532248 1.1243013 1.0687108 1.0698448 1.1995546 0.9199633
## X2001 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2002 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2003 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2004 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2005 2.3206891   8.132410 0.0000000 0.7855013 1.5726715 0.0000000 0.6761717
## X2006 2.6726646   0.000000 0.0000000 1.8092723 3.6223945 0.0000000 1.5574491
## X2007 1.7449299   0.000000 0.0000000 1.1812386 2.3649893 0.0000000 1.0168283
## X2008 1.6623054   5.825224 1.1838417 1.1253071 1.1265013 0.6315400 1.4530233
## X2101 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2102 2.0431022   0.000000 0.0000000 1.3830876 2.7691172 0.0000000 2.3811659
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## X2103 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 1.6734212
## X2104 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 4.4046459
## X2106 0.0000000   0.000000 2.0686986 0.9832045 0.0000000 1.1035801 1.6927153
## X2202 0.0000000   0.000000 2.3549622 1.1192587 0.0000000 1.2562917 0.9634751
## X2206 7.9023179   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2208 2.4125330   0.000000 0.0000000 1.6331752 3.2698252 0.0000000 1.4058621
## X2209 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2302 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 4.4046459
## X2309 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
## X2402 2.8021309   0.000000 0.0000000 1.8969151 3.7978668 0.0000000 1.6328933
## X2403 2.8021309   0.000000 0.0000000 1.8969151 3.7978668 0.0000000 1.6328933
## X2507 6.2083276   0.000000 0.0000000 0.0000000 0.0000000 4.7173064 0.0000000
## X2508 1.4343511   0.000000 2.0430009 1.9419821 1.9440463 1.0898713 1.6716882
## X2512 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2517 2.0163298   0.000000 0.0000000 0.6824827 1.3664149 0.0000000 0.5874918
## X2519 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
## X2520 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2522 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2525 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2530 2.2704443   0.000000 0.0000000 1.5369877 3.0772452 1.7251643 1.3230624
## X2602 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2606 2.8021309   0.000000 0.0000000 1.8969151 3.7978668 0.0000000 1.6328933
## X2607 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2608 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2710 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 4.4046459
## X2713 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X2714 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X2716 1.3828133   0.000000 0.0000000 0.9361024 1.8741945 1.0507111 0.8058114
## X2804 1.2047772   0.000000 1.7160098 1.6311602 1.6328933 0.9154330 2.1061921
## X2811 1.2047772   0.000000 1.7160098 1.6311602 1.6328933 0.9154330 2.1061921
## X2825 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2826 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
## X2832 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
## X2833 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
## X2835 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
## X2836 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2901 1.2047772   0.000000 1.7160098 1.6311602 1.6328933 0.9154330 2.1061921
## X2903 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.0307854 0.0000000
## X2907 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
## X2915 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
## X2933 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
## X3105 0.0000000 135.414351 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3202 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
## X3204 1.3995769   0.000000 1.9934707 1.8949011 1.8969151 1.0634487 1.6311602
## X3205 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X3206 0.0000000   0.000000 2.3662503 1.1246237 0.0000000 2.5246270 0.9680933
## X3207 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3208 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 1.8721791 0.0000000
## X3209 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X3210 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
## X3211 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X3212 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3214 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.0307854 0.0000000
## X3215 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X3302 0.0000000   0.000000 2.5627679 1.2180237 0.0000000 1.3671488 1.0484935
## X3303 2.8021309   0.000000 0.0000000 1.8969151 3.7978668 0.0000000 1.6328933
## X3304 2.8021309   0.000000 0.0000000 1.8969151 3.7978668 0.0000000 1.6328933
## X3305 2.3794438   0.000000 0.0000000 1.6107754 3.2249778 0.0000000 1.3865799
## X3307 2.8021309   0.000000 0.0000000 1.8969151 3.7978668 0.0000000 1.6328933
## X3402 1.0230786   0.000000 1.4572094 1.3851571 1.3866282 0.7773721 1.1923650
## X3403 1.3246311   0.000000 1.8867224 1.7934314 1.7953373 1.0065022 1.5438135
## X3506 1.0322399   0.000000 0.0000000 0.6987803 1.3990449 0.7843332 1.2030421
## X3507 0.0000000   0.000000 2.5627679 1.2180237 0.0000000 1.3671488 1.0484935
## X3605 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 4.4046459
## X3701 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X3707 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X3802 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3808 2.8021309   0.000000 0.0000000 1.8969151 3.7978668 0.0000000 1.6328933
## X3809 1.1449871   0.000000 1.6308484 1.5502099 1.5518568 0.8700024 1.3344449
## X3810 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3811 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3814 0.0000000   0.000000 2.3662503 1.1246237 0.0000000 2.5246270 0.9680933
## X3815 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
## X3816 2.8021309   0.000000 0.0000000 1.8969151 3.7978668 0.0000000 1.6328933
## X3819 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3820 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3823 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 4.4046459
## X3902 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
## X3908 1.7449299   0.000000 0.0000000 1.1812386 2.3649893 0.0000000 1.0168283
```

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## X3909 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
## X3910 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
## X3911 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
## X3915 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
## X3916 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X3917 2.1345566   0.000000 1.5201647 1.4449994 1.4465342 0.8109565 1.2438781
## X3919 0.0000000   0.000000 2.3662503 1.1246237 0.0000000 2.5246270 0.9680933
## X3920 0.0000000   0.000000 1.9386314 0.9213868 0.0000000 2.0683877 1.5862880
## X3921 0.0000000   0.000000 2.1592202 1.0262273 0.0000000 2.3037404 0.8833922
## X3923 2.3958743   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3924 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3925 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
## X3926 1.0510622   0.000000 1.4970675 1.4230443 1.4245557 0.7986350 1.2249788
## X4001 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X4005 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 4.4046459
## X4006 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 4.4046459
## X4008 2.8021309   0.000000 0.0000000 1.8969151 3.7978668 0.0000000 1.6328933
## X4009 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 4.4046459
## X4010 2.0674603   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4012 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 4.4046459
## X4013 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 4.4046459
## X4015 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4016 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 3.3764917
## X4202 0.0000000   0.000000 2.0179326 0.9590767 0.0000000 2.1529965 0.8255880
## X4203 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4409 1.4646745   0.000000 2.0861918 0.9915186 0.0000000 1.1129121 0.8535145
## X4415 0.0000000   0.000000 2.0686986 0.9832045 0.0000000 1.1035801 1.6927153
## X4416 1.5159462   0.000000 2.1592202 1.0262273 0.0000000 1.1518702 0.8833922
## X4418 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4420 7.9023179   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4421 4.1349206   0.000000 0.0000000 1.3995769 2.8021309 0.0000000 1.2047772
## X4602 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4804 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
## X4808 0.0000000   0.000000 1.9934707 0.9474506 0.0000000 2.1268974 0.8155801
## X4818 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X4819 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4821 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 1.5898841 0.0000000
## X4822 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
## X4823 0.0000000   0.000000 3.1513815 1.4977775 0.0000000 1.6811535 1.2893097
## X4901 2.8021309   0.000000 0.0000000 1.8969151 3.7978668 0.0000000 1.6328933
## X4902 2.8021309   0.000000 0.0000000 1.8969151 3.7978668 0.0000000 1.6328933
## X4907 2.8021309   0.000000 0.0000000 1.8969151 3.7978668 0.0000000 1.6328933
## X4911 1.7449299   0.000000 0.0000000 1.1812386 2.3649893 0.0000000 1.0168283
## X5111 0.0000000   0.000000 3.5858510 1.7042703 0.0000000 1.9129277 1.4670618
## X5112 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5205 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X5206 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X5208 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X5209 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 1.5898841 0.0000000
## X5210 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5211 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X5402 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.0307854 0.0000000
## X5407 1.0415663   0.000000 1.4835421 1.4101877 1.4116854 1.5828393 1.2139116
## X5408 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5505 6.3212603   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5508 1.4585079   0.000000 0.0000000 0.9873441 1.9767872 0.0000000 0.8499211
## X5509 2.3794438   0.000000 0.0000000 0.0000000 0.0000000 1.8079860 0.0000000
## X5511 7.9023179   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5512 2.6726646   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5513 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5514 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X5515 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5516 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5601 2.8021309   0.000000 0.0000000 1.8969151 3.7978668 0.0000000 1.6328933
## X5603 0.0000000   0.000000 2.2477256 1.0682917 0.0000000 1.1990847 0.9196020
## X5609 7.9023179   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5806 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 1.5898841 0.0000000
## X5807 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 1.5898841 0.0000000
## X5903 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
## X5907 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5911 1.9081959   0.000000 0.0000000 0.0000000 0.0000000 1.4499153 0.0000000
## X6002 0.8291571   0.000000 1.1809994 1.1226053 1.1237967 1.2600475 0.9663564
## X6101 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6103 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X6104 1.6148530   0.000000 0.0000000 1.0931826 2.1886896 1.2270230 0.9410284
## X6105 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6106 1.6148530   0.000000 0.0000000 1.0931826 2.1886896 1.2270230 0.9410284
## X6107 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X6109 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
```

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## X6110 2.9199925   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6111 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X6112 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 1.9269072 0.0000000
## X6114 1.8874223   0.000000 0.0000000 0.0000000 0.0000000 2.8682616 0.0000000
## X6115 1.5429494   0.000000 0.0000000 1.0445071 2.0912350 1.1723881 0.8991278
## X6117 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6201 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X6202 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X6203 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 1.5433301 0.0000000
## X6204 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X6205 1.7449299   0.000000 0.0000000 1.1812386 2.3649893 0.0000000 1.0168283
## X6206 2.6192030   0.000000 0.0000000 0.8865414 1.7749670 0.9950822 0.7631486
## X6210 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X6211 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 1.2213319 0.0000000
## X6212 0.0000000   6.904775 1.4032349 0.6669258 0.0000000 1.4971572 0.5741002
## X6217 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X6302 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X6303 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X6304 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.9020898 0.0000000
## X6305 0.0000000   0.000000 2.3662503 1.1246237 0.0000000 2.5246270 0.9680933
## X6306 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
## X6307 0.0000000   0.000000 0.0000000 0.0000000 0.0000000 2.5148435 0.0000000
## X6401 2.8021309   0.000000 0.0000000 1.8969151 3.7978668 0.0000000 1.6328933
## X6403 2.4125330   0.000000 0.0000000 1.6331752 3.2698252 0.0000000 1.4058621
## X6404 0.0000000   0.000000 4.1943407 1.9934707 0.0000000 2.2375356 1.7160098
##           X7606     X7608     X7609     X7615      X7616     X8204     X8205
## X102  0.0000000  0.000000  0.000000 3.7978668  0.0000000  0.000000 1.8969151
## X210  0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X401  2.0430009  0.000000  0.000000 1.9440463  1.8261003  0.000000 1.9419821
## X403  0.0000000  0.000000  0.000000 1.7616411  0.0000000  0.000000 0.8798855
## X406  0.0000000  0.000000  0.000000 0.0000000  4.9718669  0.000000 0.0000000
## X510  0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X602  0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X603  0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X702  0.0000000  0.000000  0.000000 0.9905484  0.9304516  0.000000 0.4947494
## X703  0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X709  0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X712  0.0000000 36.550000 36.550000 0.0000000  0.0000000 36.550000 0.0000000
## X713  0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.5212439
## X804  0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X805  0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X808  0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X809  0.0000000  0.000000  0.000000 3.7978668  0.0000000  0.000000 1.8969151
## X813  0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X901  0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X904  0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X1001 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 1.1300402
## X1003 1.3952830  0.000000  0.000000 1.3277012  2.4942984  0.000000 1.9894393
## X1005 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X1102 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
## X1108 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
## X1202 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X1208 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
## X1213 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X1214 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X1302 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X1507 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X1514 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X1517 2.0430009  0.000000  0.000000 1.9440463  1.8261003  0.000000 1.9419821
## X1601 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X1602 0.0000000  0.000000  0.000000 1.9201921  0.0000000  0.000000 0.9590767
## X1704 0.0000000  0.000000  0.000000 1.6796629  0.0000000  0.000000 0.8389400
## X1806 1.2343360  0.000000  0.000000 1.1745499  1.1032896  0.000000 1.1733045
## X1901 1.1838417  0.000000  0.000000 1.1265013  1.0581562  0.000000 1.1253071
## X1902 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X1905 1.1243013  0.000000  0.000000 1.0698448  1.0049371  0.000000 1.0687108
## X2001 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X2002 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X2003 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X2004 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X2005 0.0000000  0.000000  0.000000 1.5726715  0.0000000  0.000000 0.7855013
## X2006 0.0000000  0.000000  0.000000 3.6223945  0.0000000  0.000000 1.8092723
## X2007 0.0000000  0.000000  0.000000 2.3649893  0.0000000  0.000000 1.1812386
## X2008 1.1838417  0.000000  0.000000 1.1265013  1.0581562  0.000000 1.1253071
## X2101 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X2102 0.0000000  0.000000  0.000000 2.7691172  0.0000000  0.000000 1.3830876
## X2103 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X2104 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X2106 2.0686986  0.000000  0.000000 0.0000000  1.8490697  0.000000 0.9832045
```

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## X2202 2.3549622  0.000000  0.000000 0.0000000  2.1049413  0.000000 1.1192587
## X2206 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X2208 0.0000000  0.000000  0.000000 3.2698252  0.0000000  0.000000 1.6331752
## X2209 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X2302 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X2309 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
## X2402 0.0000000  0.000000  0.000000 3.7978668  0.0000000  0.000000 1.8969151
## X2403 0.0000000  0.000000  0.000000 3.7978668  0.0000000  0.000000 1.8969151
## X2507 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X2508 2.0430009  0.000000  0.000000 1.9440463  1.8261003  0.000000 1.9419821
## X2512 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X2517 0.0000000  0.000000  0.000000 1.3664149  0.0000000  0.000000 1.3649653
## X2519 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
## X2520 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X2522 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X2525 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X2530 0.0000000  0.000000  0.000000 3.0772452  0.0000000  0.000000 1.5369877
## X2602 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X2606 0.0000000  0.000000  0.000000 3.7978668  0.0000000  0.000000 1.8969151
## X2607 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X2608 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X2710 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X2713 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X2714 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X2716 0.0000000  0.000000  0.000000 1.8741945  0.0000000  0.000000 0.9361024
## X2804 1.7160098  0.000000  0.000000 1.6328933  1.5338251  0.000000 1.6311602
## X2811 1.7160098  0.000000  0.000000 1.6328933  1.5338251  0.000000 1.6311602
## X2825 0.0000000 36.550000 36.550000 0.0000000  0.0000000 36.550000 0.0000000
## X2826 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
## X2832 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
## X2833 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
## X2835 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
## X2836 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X2901 1.7160098  0.000000  0.000000 1.6328933  1.5338251  0.000000 1.6311602
## X2903 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X2907 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
## X2915 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
## X2933 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
## X3105 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X3202 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
## X3204 1.9934707  0.000000  0.000000 1.8969151  1.7818286  0.000000 1.8949011
## X3205 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X3206 2.3662503  0.000000  0.000000 0.0000000  2.1150310  0.000000 1.1246237
## X3207 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X3208 0.0000000 10.359833 10.359833 0.0000000  0.0000000 10.359833 0.0000000
## X3209 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X3210 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
## X3211 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X3212 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X3214 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X3215 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X3302 2.5627679  0.000000  0.000000 0.0000000  2.2906847  0.000000 1.2180237
## X3303 0.0000000  0.000000  0.000000 3.7978668  0.0000000  0.000000 1.8969151
## X3304 0.0000000  0.000000  0.000000 3.7978668  0.0000000  0.000000 1.8969151
## X3305 0.0000000  0.000000  0.000000 3.2249778  0.0000000  0.000000 1.6107754
## X3307 0.0000000  0.000000  0.000000 3.7978668  0.0000000  0.000000 1.8969151
## X3402 1.4572094  0.000000  0.000000 1.3866282  1.3025010  0.000000 1.3851571
## X3403 1.8867224  0.000000  0.000000 1.7953373  1.6864136  0.000000 1.7934314
## X3506 0.0000000  0.000000  0.000000 1.3990449  0.0000000  0.000000 0.6987803
## X3507 2.5627679  0.000000  0.000000 0.0000000  2.2906847  0.000000 1.2180237
## X3605 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X3701 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X3707 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X3802 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X3808 0.0000000  0.000000  0.000000 3.7978668  0.0000000  0.000000 1.8969151
## X3809 1.6308484  0.000000  0.000000 1.5518568  1.4577051  0.000000 1.5502099
## X3810 0.0000000 36.550000 36.550000 0.0000000  0.0000000 36.550000 0.0000000
## X3811 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X3814 2.3662503  0.000000  0.000000 0.0000000  2.1150310  0.000000 1.1246237
## X3815 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
## X3816 0.0000000  0.000000  0.000000 3.7978668  0.0000000  0.000000 1.8969151
## X3819 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X3820 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X3823 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X3902 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
## X3908 0.0000000  0.000000  0.000000 2.3649893  0.0000000  0.000000 1.1812386
## X3909 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
## X3910 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
## X3911 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
```

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## X3915 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
## X3916 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X3917 1.5201647  0.000000  0.000000 1.4465342  1.3587725  0.000000 1.4449994
## X3919 2.3662503  0.000000  0.000000 0.0000000  2.1150310  0.000000 1.1246237
## X3920 1.9386314  0.000000  0.000000 0.0000000  1.7328115  0.000000 0.9213868
## X3921 2.1592202  0.000000  0.000000 0.0000000  1.9299808  0.000000 1.0262273
## X3923 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X3924 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X3925 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
## X3926 1.4970675  0.000000  0.000000 1.4245557  2.6762549  0.000000 1.4230443
## X4001 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X4005 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X4006 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X4008 0.0000000  0.000000  0.000000 3.7978668  0.0000000  0.000000 1.8969151
## X4009 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X4010 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X4012 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X4013 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X4015 0.0000000  0.000000  0.000000 0.0000000 31.6271323  0.000000 0.0000000
## X4016 0.0000000  0.000000  0.000000 0.0000000  7.3767649  0.000000 0.0000000
## X4202 2.0179326  0.000000  0.000000 0.0000000  1.8036934  0.000000 0.9590767
## X4203 0.0000000  0.000000  0.000000 0.0000000 31.6271323  0.000000 0.0000000
## X4409 2.0861918  0.000000  0.000000 0.0000000  1.8647057  0.000000 0.9915186
## X4415 2.0686986  0.000000  0.000000 0.0000000  1.8490697  0.000000 0.9832045
## X4416 2.1592202  0.000000  0.000000 0.0000000  1.9299808  0.000000 1.0262273
## X4418 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X4420 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X4421 0.0000000  0.000000  0.000000 2.8021309  0.0000000  0.000000 1.3995769
## X4602 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X4804 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
## X4808 1.9934707  0.000000  0.000000 0.0000000  1.7818286  0.000000 0.9474506
## X4818 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X4819 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X4821 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X4822 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
## X4823 3.1513815  0.000000  0.000000 0.0000000  2.8168065  0.000000 1.4977775
## X4901 0.0000000  0.000000  0.000000 3.7978668  0.0000000  0.000000 1.8969151
## X4902 0.0000000  0.000000  0.000000 3.7978668  0.0000000  0.000000 1.8969151
## X4907 0.0000000  0.000000  0.000000 3.7978668  0.0000000  0.000000 1.8969151
## X4911 0.0000000  0.000000  0.000000 2.3649893  0.0000000  0.000000 1.1812386
## X5111 3.5858510  0.000000  0.000000 0.0000000  3.2051493  0.000000 1.7042703
## X5112 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X5205 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X5206 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X5208 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X5209 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X5210 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X5211 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X5402 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X5407 1.4835421  0.000000  0.000000 1.4116854  1.3260380  0.000000 1.4101877
## X5408 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X5505 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X5508 0.0000000  0.000000  0.000000 1.9767872  0.0000000  0.000000 0.9873441
## X5509 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X5511 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X5512 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X5513 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X5514 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X5515 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X5516 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X5601 0.0000000  0.000000  0.000000 3.7978668  0.0000000  0.000000 1.8969151
## X5603 2.2477256  0.000000  0.000000 0.0000000  2.0090898  0.000000 1.0682917
## X5609 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X5806 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X5807 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X5903 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
## X5907 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X5911 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X6002 1.1809994  0.000000  0.000000 1.1237967  1.0556156  0.000000 1.1226053
## X6101 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X6103 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X6104 0.0000000  0.000000  0.000000 2.1886896  0.0000000  0.000000 1.0931826
## X6105 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X6106 0.0000000  0.000000  0.000000 2.1886896  0.0000000  0.000000 1.0931826
## X6107 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X6109 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X6110 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X6111 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X6112 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
```

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## X6114 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X6115 0.0000000  0.000000  0.000000 2.0912350  0.0000000  0.000000 1.0445071
## X6117 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X6201 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X6202 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X6203 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X6204 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X6205 0.0000000  0.000000  0.000000 2.3649893  0.0000000  0.000000 1.1812386
## X6206 0.0000000  0.000000  0.000000 1.7749670  0.0000000  0.000000 0.8865414
## X6210 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X6211 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X6212 1.4032349  0.000000  0.000000 0.0000000  1.2542569  0.000000 0.6669258
## X6217 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X6302 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X6303 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X6304 0.0000000  0.000000  0.000000 0.0000000  0.0000000  0.000000 0.0000000
## X6305 2.3662503  0.000000  0.000000 0.0000000  2.1150310  0.000000 1.1246237
## X6306 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
## X6307 0.0000000  0.000000  0.000000 0.0000000  4.2136722  0.000000 0.0000000
## X6401 0.0000000  0.000000  0.000000 3.7978668  0.0000000  0.000000 1.8969151
## X6403 0.0000000  0.000000  0.000000 3.2698252  0.0000000  0.000000 1.6331752
## X6404 4.1943407  0.000000  0.000000 0.0000000  3.7490369  0.000000 1.9934707
##           X8207     X8208     X8209      X8301      X8302      X8306     X8307
## X102  3.7978668 0.0000000 3.7978668   0.000000  0.5565119  2.5305664 0.0000000
## X210  0.0000000 3.5224105 0.0000000   0.000000  0.5703243  0.0000000 0.0000000
## X401  1.9440463 0.0000000 1.9440463   0.000000  0.5697365  1.2953432 2.0430009
## X403  1.7616411 1.5943008 1.7616411   0.000000  0.7744202  1.1738044 0.0000000
## X406  0.0000000 0.0000000 0.0000000   0.000000  1.5511915  0.0000000 0.0000000
## X510  0.0000000 0.0000000 0.0000000   0.000000  9.8680154  0.0000000 0.0000000
## X602  0.0000000 0.0000000 0.0000000   0.000000  4.5034725  6.8260772 0.0000000
## X603  0.0000000 0.0000000 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X702  0.9905484 0.0000000 0.9905484   6.470421  2.9030097  1.9800478 0.0000000
## X703  0.0000000 0.0000000 0.0000000   0.000000  4.7082558  0.0000000 0.0000000
## X709  0.0000000 0.0000000 0.0000000   8.056284  4.5181251  0.8217811 0.0000000
## X712  0.0000000 0.0000000 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X713  0.0000000 0.0000000 0.0000000   6.816924  5.6581637  1.3907216 0.0000000
## X804  0.0000000 0.0000000 0.0000000   0.000000  4.9301956  0.0000000 0.0000000
## X805  0.0000000 0.0000000 0.0000000   0.000000  7.0781112  0.0000000 0.0000000
## X808  0.0000000 0.0000000 0.0000000   0.000000  4.6047613  0.0000000 0.0000000
## X809  3.7978668 0.0000000 3.7978668   0.000000  0.5565119  2.5305664 0.0000000
## X813  0.0000000 0.0000000 0.0000000   0.000000  1.5694186  7.1364753 0.0000000
## X901  0.0000000 0.0000000 0.0000000   0.000000  7.4433754  0.0000000 0.0000000
## X904  0.0000000 9.2714161 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X1001 0.0000000 0.0000000 0.0000000  14.778934  3.9783527  1.5075217 0.0000000
## X1003 1.3277012 0.0000000 1.3277012   0.000000  2.3346491  2.6539948 1.3952830
## X1005 0.0000000 0.0000000 0.0000000   0.000000  5.2766085  0.0000000 0.0000000
## X1102 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
## X1108 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
## X1202 0.0000000 0.0000000 0.0000000   0.000000  6.0935543  0.0000000 0.0000000
## X1208 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
## X1213 0.0000000 0.0000000 0.0000000  14.431391  3.8847984  0.0000000 0.0000000
## X1214 0.0000000 0.0000000 0.0000000   0.000000  4.0626133  0.8796798 0.0000000
## X1302 0.0000000 0.0000000 0.0000000   0.000000  4.1410892  1.5691731 0.0000000
## X1507 0.0000000 0.0000000 0.0000000   0.000000  0.9204831  0.0000000 0.0000000
## X1514 0.0000000 0.0000000 0.0000000   0.000000  0.9204831  0.0000000 0.0000000
## X1517 1.9440463 0.0000000 1.9440463   0.000000  0.5697365  1.2953432 2.0430009
## X1601 0.0000000 3.5224105 0.0000000   0.000000  0.5703243  0.0000000 0.0000000
## X1602 1.9201921 1.7377909 1.9201921   0.000000  0.5627457  1.2794489 0.0000000
## X1704 1.6796629 1.5201098 1.6796629   0.000000  1.2306383  2.2383626 0.0000000
## X1806 1.1745499 1.0629782 1.1745499   0.000000  1.0326753  1.5652366 1.2343360
## X1901 1.1265013 0.0000000 1.1265013   0.000000  1.1555034  1.5012060 1.1838417
## X1902 0.0000000 0.0000000 0.0000000   0.000000  0.9204831  0.0000000 0.0000000
## X1905 1.0698448 0.9682192 1.0698448   0.000000  1.0973895  1.4257042 1.1243013
## X2001 0.0000000 0.0000000 0.0000000   0.000000  0.9204831  0.0000000 0.0000000
## X2002 0.0000000 0.0000000 0.0000000   0.000000  0.9204831  0.0000000 0.0000000
## X2003 0.0000000 0.0000000 0.0000000   0.000000  0.9204831  0.0000000 0.0000000
## X2004 0.0000000 0.0000000 0.0000000   0.000000  0.9204831  0.0000000 0.0000000
## X2005 1.5726715 0.0000000 1.5726715   0.000000  1.3827001  2.0957833 0.0000000
## X2006 3.6223945 0.0000000 3.6223945   0.000000  1.0615992  2.4136471 0.0000000
## X2007 2.3649893 0.0000000 2.3649893   0.000000  0.6930995  1.5758226 0.0000000
## X2008 1.1265013 1.0194938 1.1265013   0.000000  1.3205753  1.5012060 1.1838417
## X2101 0.0000000 0.0000000 0.0000000   0.000000  0.9204831  0.0000000 0.0000000
## X2102 2.7691172 2.5060754 2.7691172   0.000000  0.4057674  1.8450980 0.0000000
## X2103 0.0000000 3.5224105 0.0000000   0.000000  0.5703243  0.0000000 0.0000000
## X2104 0.0000000 9.2714161 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X2106 0.0000000 1.7815092 0.0000000   0.000000  0.5769027  0.0000000 2.0686986
## X2202 0.0000000 0.0000000 0.0000000   0.000000  0.9850991  0.0000000 2.3549622
## X2206 0.0000000 0.0000000 0.0000000   0.000000  1.5694186  7.1364753 0.0000000
## X2208 3.2698252 0.0000000 3.2698252   0.000000  0.9582740  2.1787258 0.0000000
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## X2209 0.0000000 0.0000000 0.0000000   0.000000  0.9204831  0.0000000 0.0000000
## X2302 0.0000000 9.2714161 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X2309 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
## X2402 3.7978668 0.0000000 3.7978668   0.000000  0.5565119  2.5305664 0.0000000
## X2403 3.7978668 0.0000000 3.7978668   0.000000  0.5565119  2.5305664 0.0000000
## X2507 0.0000000 0.0000000 0.0000000   0.000000  2.4659779  5.6066559 0.0000000
## X2508 1.9440463 0.0000000 1.9440463   0.000000  0.5697365  1.2953432 2.0430009
## X2512 0.0000000 0.0000000 0.0000000   0.000000  3.4534244  0.0000000 0.0000000
## X2517 1.3664149 0.0000000 1.3664149   8.925650  3.2036299  3.6418413 0.0000000
## X2519 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
## X2520 0.0000000 0.0000000 0.0000000   0.000000  9.8680154  0.0000000 0.0000000
## X2522 0.0000000 0.0000000 0.0000000   0.000000  2.7620360  0.0000000 0.0000000
## X2525 0.0000000 0.0000000 0.0000000 162.052632  3.6352145  0.0000000 0.0000000
## X2530 3.0772452 0.0000000 3.0772452   0.000000  1.3527537  2.0504075 0.0000000
## X2602 0.0000000 0.0000000 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X2606 3.7978668 0.0000000 3.7978668   0.000000  0.5565119  2.5305664 0.0000000
## X2607 0.0000000 0.0000000 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X2608 0.0000000 0.0000000 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X2710 0.0000000 9.2714161 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X2713 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X2714 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X2716 1.8741945 0.0000000 1.8741945  12.242560  1.9224292  1.2488001 0.0000000
## X2804 1.6328933 1.4777829 1.6328933   0.000000  0.4785489  1.0880181 1.7160098
## X2811 1.6328933 1.4777829 1.6328933   0.000000  0.4785489  1.0880181 1.7160098
## X2825 0.0000000 0.0000000 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X2826 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
## X2832 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
## X2833 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
## X2835 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
## X2836 0.0000000 0.0000000 0.0000000   0.000000  3.4534244  0.0000000 0.0000000
## X2901 1.6328933 1.4777829 1.6328933   0.000000  0.4785489  1.0880181 1.7160098
## X2903 0.0000000 3.2782987 0.0000000   0.000000  0.5307996  0.0000000 0.0000000
## X2907 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
## X2915 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
## X2933 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
## X3105 0.0000000 0.0000000 0.0000000   0.000000  3.8372034  0.0000000 0.0000000
## X3202 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
## X3204 1.8969151 0.0000000 1.8969151   0.000000  0.8338861  1.2639391 1.9934707
## X3205 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X3206 0.0000000 2.0377529 0.0000000   0.000000  0.3299403  0.0000000 2.3662503
## X3207 0.0000000 0.0000000 0.0000000   0.000000  6.9074350  0.0000000 0.0000000
## X3208 0.0000000 3.0222602 0.0000000   0.000000  0.4893439  0.0000000 0.0000000
## X3209 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X3210 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
## X3211 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X3212 0.0000000 0.0000000 0.0000000   0.000000 11.5127823  0.0000000 0.0000000
## X3214 0.0000000 3.2782987 0.0000000   0.000000  0.5307996  0.0000000 0.0000000
## X3215 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X3302 0.0000000 0.0000000 0.0000000   0.000000  0.7146832  0.0000000 2.5627679
## X3303 3.7978668 0.0000000 3.7978668   0.000000  0.5565119  2.5305664 0.0000000
## X3304 3.7978668 0.0000000 3.7978668   0.000000  0.5565119  2.5305664 0.0000000
## X3305 3.2249778 0.0000000 3.2249778   0.000000  0.9451309  2.1488435 0.0000000
## X3307 3.7978668 0.0000000 3.7978668   0.000000  0.5565119  2.5305664 0.0000000
## X3402 1.3866282 0.0000000 1.3866282   0.000000  0.8127550  0.9239287 1.4572094
## X3403 1.7953373 0.0000000 1.7953373   0.000000  0.7892329  1.1962566 1.8867224
## X3506 1.3990449 2.5322962 1.3990449   0.000000  0.4100164  0.9322021 0.0000000
## X3507 0.0000000 0.0000000 0.0000000   0.000000  0.7146832  0.0000000 2.5627679
## X3605 0.0000000 9.2714161 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X3701 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X3707 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X3802 0.0000000 0.0000000 0.0000000   0.000000  1.7707013  0.0000000 0.0000000
## X3808 3.7978668 0.0000000 3.7978668   0.000000  0.5565119  2.5305664 0.0000000
## X3809 1.5518568 0.0000000 1.5518568   0.000000  0.9096000  1.0340225 1.6308484
## X3810 0.0000000 0.0000000 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X3811 0.0000000 0.0000000 0.0000000   0.000000  3.4534244  0.0000000 0.0000000
## X3814 0.0000000 2.0377529 0.0000000   0.000000  0.3299403  0.0000000 2.3662503
## X3815 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
## X3816 3.7978668 0.0000000 3.7978668   0.000000  0.5565119  2.5305664 0.0000000
## X3819 0.0000000 0.0000000 0.0000000   0.000000  3.4534244  0.0000000 0.0000000
## X3820 0.0000000 0.0000000 0.0000000   0.000000  3.4534244  0.0000000 0.0000000
## X3823 0.0000000 9.2714161 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X3902 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
## X3908 2.3649893 0.0000000 2.3649893   0.000000  0.6930995  1.5758226 0.0000000
## X3909 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
## X3910 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
## X3911 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
## X3915 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
## X3916 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X3917 1.4465342 0.0000000 1.4465342   0.000000  0.8478676  1.9276896 1.5201647
```

```
## X3919 0.0000000 2.0377529 0.0000000   0.000000  0.3299403  0.0000000 2.3662503
## X3920 0.0000000 3.3389976 0.0000000   0.000000  0.2703155  0.0000000 1.9386314
## X3921 0.0000000 1.8594640 0.0000000   0.000000  0.6021464  0.0000000 2.1592202
## X3923 0.0000000 0.0000000 0.0000000   0.000000  1.4274857  2.1636816 0.0000000
## X3924 0.0000000 0.0000000 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X3925 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
## X3926 1.4245557 0.0000000 1.4245557   0.000000  1.4612244  1.8984005 1.4970675
## X4001 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X4005 0.0000000 9.2714161 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X4006 0.0000000 9.2714161 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X4008 3.7978668 0.0000000 3.7978668   0.000000  0.5565119  2.5305664 0.0000000
## X4009 0.0000000 9.2714161 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X4010 0.0000000 0.0000000 0.0000000   0.000000  2.0530246  1.8670954 0.0000000
## X4012 0.0000000 9.2714161 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X4013 0.0000000 9.2714161 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X4015 0.0000000 0.0000000 0.0000000   0.000000  4.9337147  0.0000000 0.0000000
## X4016 0.0000000 7.1072354 0.0000000   0.000000  1.1507506  0.0000000 0.0000000
## X4202 0.0000000 1.7377909 0.0000000   0.000000  0.8441185  0.0000000 2.0179326
## X4203 0.0000000 0.0000000 0.0000000   0.000000  4.9337147  0.0000000 0.0000000
## X4409 0.0000000 0.0000000 0.0000000   0.000000  0.8726716  1.3227278 2.0861918
## X4415 0.0000000 1.7815092 0.0000000   0.000000  0.5769027  0.0000000 2.0686986
## X4416 0.0000000 0.0000000 0.0000000   0.000000  1.5053660  1.3690307 2.1592202
## X4418 0.0000000 0.0000000 0.0000000 162.052632  3.6352145  0.0000000 0.0000000
## X4420 0.0000000 0.0000000 0.0000000   0.000000  1.5694186  7.1364753 0.0000000
## X4421 2.8021309 0.0000000 2.8021309   0.000000  0.8212098  3.7341909 0.0000000
## X4602 0.0000000 0.0000000 0.0000000   0.000000  4.6047613  0.0000000 0.0000000
## X4804 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
## X4808 0.0000000 1.7167250 0.0000000   0.000000  0.5559241  0.0000000 1.9934707
## X4818 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X4819 0.0000000 0.0000000 0.0000000   0.000000  0.9204831  0.0000000 0.0000000
## X4821 0.0000000 2.5665507 0.0000000   0.000000  0.4155590  0.0000000 0.0000000
## X4822 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
## X4823 0.0000000 0.0000000 0.0000000   0.000000  0.8788292  0.0000000 3.1513815
## X4901 3.7978668 0.0000000 3.7978668   0.000000  0.5565119  2.5305664 0.0000000
## X4902 3.7978668 0.0000000 3.7978668   0.000000  0.5565119  2.5305664 0.0000000
## X4907 3.7978668 0.0000000 3.7978668   0.000000  0.5565119  2.5305664 0.0000000
## X4911 2.3649893 0.0000000 2.3649893   0.000000  0.6930995  1.5758226 0.0000000
## X5111 0.0000000 0.0000000 0.0000000   0.000000  0.9999892  0.0000000 3.5858510
## X5112 0.0000000 0.0000000 0.0000000   0.000000  3.4534244  0.0000000 0.0000000
## X5205 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X5206 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X5208 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X5209 0.0000000 2.5665507 0.0000000   0.000000  0.4155590  0.0000000 0.0000000
## X5210 0.0000000 0.0000000 0.0000000   0.000000  5.1158804  0.0000000 0.0000000
## X5211 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X5402 0.0000000 3.2782987 0.0000000   0.000000  0.5307996  0.0000000 0.0000000
## X5407 1.4116854 1.2775878 1.4116854   0.000000  0.4137209  0.9406246 1.4835421
## X5408 0.0000000 0.0000000 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X5505 0.0000000 0.0000000 0.0000000   0.000000  1.2554176  5.7086438 0.0000000
## X5508 1.9767872 0.0000000 1.9767872   0.000000  0.8689975  1.3171589 0.0000000
## X5509 0.0000000 2.9186331 0.0000000   0.000000  0.4725654  2.1488435 0.0000000
## X5511 0.0000000 0.0000000 0.0000000   0.000000  1.5694186  7.1364753 0.0000000
## X5512 0.0000000 0.0000000 0.0000000   0.000000  1.0615992  2.4136471 0.0000000
## X5513 0.0000000 0.0000000 0.0000000   0.000000  5.1158804  0.0000000 0.0000000
## X5514 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X5515 0.0000000 0.0000000 0.0000000   0.000000  1.4531473  0.0000000 0.0000000
## X5516 0.0000000 0.0000000 0.0000000   0.000000  5.1158804  0.0000000 0.0000000
## X5601 3.7978668 0.0000000 3.7978668   0.000000  0.5565119  2.5305664 0.0000000
## X5603 0.0000000 0.0000000 0.0000000   0.000000  1.2536555  0.0000000 2.2477256
## X5609 0.0000000 0.0000000 0.0000000   0.000000  1.5694186  7.1364753 0.0000000
## X5806 0.0000000 2.5665507 0.0000000   0.000000  0.4155590  0.0000000 0.0000000
## X5807 0.0000000 2.5665507 0.0000000   0.000000  0.4155590  0.0000000 0.0000000
## X5903 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
## X5907 0.0000000 0.0000000 0.0000000   0.000000  0.9204831  0.0000000 0.0000000
## X5911 0.0000000 2.3405988 0.0000000   0.000000  1.5158989  1.7232660 0.0000000
## X6002 1.1237967 1.0170461 1.1237967   0.000000  0.6587024  0.7488009 1.1809994
## X6101 0.0000000 0.0000000 0.0000000   0.000000  0.9204831  0.0000000 0.0000000
## X6103 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X6104 2.1886896 1.9807834 2.1886896   0.000000  0.3207163  1.4583520 0.0000000
## X6105 0.0000000 0.0000000 0.0000000   0.000000  0.9204831  0.0000000 0.0000000
## X6106 2.1886896 1.9807834 2.1886896   0.000000  0.3207163  1.4583520 0.0000000
## X6107 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X6109 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X6110 0.0000000 0.0000000 0.0000000   0.000000  1.1598388  2.6370055 0.0000000
## X6111 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X6112 0.0000000 3.1106079 0.0000000   0.000000  1.0072969  0.0000000 0.0000000
## X6114 0.0000000 2.3151178 0.0000000   0.000000  1.4993962  1.7045056 0.0000000
## X6115 2.0912350 1.8925861 2.0912350   0.000000  0.3064361  1.3934168 0.0000000
## X6117 0.0000000 0.0000000 0.0000000   0.000000  0.9204831  0.0000000 0.0000000
```

```
## X6201 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X6202 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X6203 0.0000000 2.4913986 0.0000000   0.000000  0.8067820  0.0000000 0.0000000
## X6204 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X6205 2.3649893 0.0000000 2.3649893   0.000000  0.6930995  1.5758226 0.0000000
## X6206 1.7749670 1.6063608 1.7749670   0.000000  0.7802782  2.3653671 0.0000000
## X6210 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X6211 0.0000000 1.9715961 0.0000000   0.000000  1.2769150  0.0000000 0.0000000
## X6212 0.0000000 1.2084294 0.0000000   8.722193  1.1739772  0.0000000 1.4032349
## X6217 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X6302 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X6303 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X6304 0.0000000 4.6848473 0.0000000   0.000000  0.0000000  0.0000000 0.0000000
## X6305 0.0000000 2.0377529 0.0000000   0.000000  0.3299403  0.0000000 2.3662503
## X6306 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
## X6307 0.0000000 4.0597147 0.0000000   0.000000  0.6573203  0.0000000 0.0000000
## X6401 3.7978668 0.0000000 3.7978668   0.000000  0.5565119  2.5305664 0.0000000
## X6403 3.2698252 0.0000000 3.2698252   0.000000  0.9582740  2.1787258 0.0000000
## X6404 0.0000000 0.0000000 0.0000000   0.000000  0.5848390  0.0000000 4.1943407
##          X8308     X8309     X8311     X8402      X8406     X8408     X8409
## X102  0.000000 0.0000000 1.6328933  0.000000  1.9935739  0.000000 0.0000000
## X210  0.000000 2.4991640 1.6734212  0.000000  0.0000000  0.000000 0.0000000
## X401  0.000000 1.2482869 1.6716882  0.000000  1.0204686  0.000000 1.9759497
## X403  0.000000 1.1311633 1.5148382  0.000000  1.8494412  0.000000 0.0000000
## X406  0.000000 3.3986699 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X510  0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X602  0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X603  0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X702  0.000000 0.6360394 0.4258882  0.000000  1.5598787  0.000000 0.0000000
## X703  0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X709  0.000000 0.0000000 0.0000000  0.000000  1.2947954  0.000000 0.0000000
## X712  0.000000 0.0000000 0.0000000 36.550000  0.0000000 36.550000 0.0000000
## X713  0.000000 0.0000000 0.0000000  0.000000  1.6434125  0.000000 1.0607202
## X804  0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X805  0.000000 0.0000000 0.0000000  0.000000  2.1129740  0.000000 0.0000000
## X808  0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X809  0.000000 0.0000000 1.6328933  0.000000  1.9935739  0.000000 0.0000000
## X813  0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X901  0.000000 0.0000000 0.0000000  0.000000  2.4240164  0.000000 0.0000000
## X904  0.000000 0.0000000 4.4046459  0.000000  0.0000000  0.000000 0.0000000
## X1001 0.000000 0.0000000 0.0000000  0.000000  2.3752443  0.000000 2.2996126
## X1003 0.000000 0.8525276 1.1416938  0.000000  0.6969374  0.000000 1.3494899
## X1005 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X1102 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
## X1108 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
## X1202 0.000000 0.0000000 0.0000000  0.000000  7.2762743  0.000000 0.0000000
## X1208 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
## X1213 0.000000 0.0000000 0.0000000  0.000000  4.6387760  0.000000 0.0000000
## X1214 0.000000 0.0000000 0.0000000  0.000000  2.0790304  0.000000 0.0000000
## X1302 0.000000 0.0000000 0.0000000  0.000000  1.8542878  0.000000 0.0000000
## X1507 0.000000 4.0335710 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X1514 0.000000 4.0335710 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X1517 0.000000 1.2482869 1.6716882  0.000000  1.0204686  0.000000 1.9759497
## X1601 0.000000 2.4991640 1.6734212  0.000000  0.0000000  0.000000 0.0000000
## X1602 0.000000 1.2329700 1.6511761  0.000000  1.0079471  0.000000 0.0000000
## X1704 0.000000 0.0000000 1.4443452  0.000000  1.7633775  0.000000 0.0000000
## X1806 0.000000 0.7541880 1.5149986  0.000000  1.2330908  0.000000 1.1938252
## X1901 0.000000 1.4466715 0.9686822  0.000000  1.1826476  0.000000 1.1449881
## X1902 0.000000 4.0335710 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X1905 1.458221 0.6869562 0.9199633  0.000000  1.1231675  0.000000 1.0874019
## X2001 0.000000 4.0335710 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2002 0.000000 4.0335710 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2003 0.000000 4.0335710 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2004 0.000000 4.0335710 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2005 0.000000 1.0098247 0.6761717  0.000000  1.6510539  0.000000 0.0000000
## X2006 0.000000 0.0000000 1.5574491  0.000000  1.9014652  0.000000 0.0000000
## X2007 0.000000 1.5185773 1.0168283  0.000000  1.2414295  0.000000 0.0000000
## X2008 0.000000 0.7233358 1.4530233  0.000000  1.1826476  0.000000 1.1449881
## X2101 0.000000 4.0335710 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2102 0.000000 0.0000000 2.3811659  0.000000  1.4535638  0.000000 0.0000000
## X2103 0.000000 2.4991640 1.6734212  0.000000  0.0000000  0.000000 0.0000000
## X2104 0.000000 0.0000000 4.4046459  0.000000  0.0000000  0.000000 0.0000000
## X2106 0.000000 2.5279767 1.6927153  0.000000  0.0000000  0.000000 2.0008039
## X2202 0.000000 2.8777942 0.9634751  0.000000  0.0000000  0.000000 2.2776724
## X2206 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2208 0.000000 0.0000000 1.4058621  0.000000  3.4327898  0.000000 0.0000000
## X2209 0.000000 4.0335710 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2302 0.000000 0.0000000 4.4046459  0.000000  0.0000000  0.000000 0.0000000
## X2309 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
```

```
## X2402 0.000000 0.0000000 1.6328933  0.000000  1.9935739  0.000000 0.0000000
## X2403 0.000000 0.0000000 1.6328933  0.000000  1.9935739  0.000000 0.0000000
## X2507 0.000000 0.0000000 0.0000000  0.000000  4.4169084  0.000000 0.0000000
## X2508 0.000000 1.2482869 1.6716882  0.000000  1.0204686  0.000000 1.9759497
## X2512 0.000000 0.0000000 0.0000000  0.000000 12.3711441  0.000000 0.0000000
## X2517 0.000000 0.0000000 0.5874918  0.000000  1.4345179  0.000000 0.0000000
## X2519 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
## X2520 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2522 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2525 0.000000 0.0000000 0.0000000  0.000000 13.0223681  0.000000 0.0000000
## X2530 0.000000 0.0000000 1.3230624  0.000000  3.2306121  0.000000 0.0000000
## X2602 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2606 0.000000 0.0000000 1.6328933  0.000000  1.9935739  0.000000 0.0000000
## X2607 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2608 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2710 0.000000 0.0000000 4.4046459  0.000000  0.0000000  0.000000 0.0000000
## X2713 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2714 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2716 0.000000 0.0000000 0.8058114  0.000000  5.9028124  0.000000 0.0000000
## X2804 0.000000 1.0484935 2.1061921  0.000000  0.8571385  0.000000 1.6596904
## X2811 0.000000 1.0484935 2.1061921  0.000000  0.8571385  0.000000 1.6596904
## X2825 0.000000 0.0000000 0.0000000 36.550000  0.0000000 36.550000 0.0000000
## X2826 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
## X2832 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
## X2833 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
## X2835 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
## X2836 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X2901 0.000000 1.0484935 2.1061921  0.000000  0.8571385  0.000000 1.6596904
## X2903 4.937404 0.0000000 0.0000000  0.000000  1.9014652  0.000000 0.0000000
## X2907 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
## X2915 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
## X2933 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
## X3105 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3202 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
## X3204 0.000000 1.2180237 1.6311602  0.000000  0.9957285  0.000000 1.9280451
## X3205 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3206 3.069033 1.4457942 0.9680933  0.000000  0.0000000  0.000000 2.2885900
## X3207 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3208 4.551788 0.0000000 0.0000000 10.359833  0.0000000 10.359833 0.0000000
## X3209 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3210 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
## X3211 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3212 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3214 4.937404 0.0000000 0.0000000  0.000000  1.9014652  0.000000 0.0000000
## X3215 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3302 0.000000 3.1317351 1.0484935  0.000000  0.0000000  0.000000 2.4786579
## X3303 0.000000 0.0000000 1.6328933  0.000000  1.9935739  0.000000 0.0000000
## X3304 0.000000 0.0000000 1.6328933  0.000000  1.9935739  0.000000 0.0000000
## X3305 0.000000 0.0000000 1.3865799  0.000000  3.3857073  0.000000 0.0000000
## X3307 0.000000 0.0000000 1.6328933  0.000000  1.9935739  0.000000 0.0000000
## X3402 0.000000 1.7807299 1.1923650  0.000000  1.4557386  0.000000 1.4093839
## X3403 0.000000 1.1527999 1.5438135  0.000000  0.9424084  0.000000 1.8248003
## X3506 1.906928 0.8983378 1.2030421  0.000000  0.7343871  0.000000 0.0000000
## X3507 0.000000 3.1317351 1.0484935  0.000000  0.0000000  0.000000 2.4786579
## X3605 0.000000 0.0000000 4.4046459  0.000000  0.0000000  0.000000 0.0000000
## X3701 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3707 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3802 0.000000 0.0000000 0.0000000  0.000000  6.3431480  0.000000 0.0000000
## X3808 0.000000 0.0000000 1.6328933  0.000000  1.9935739  0.000000 0.0000000
## X3809 0.000000 0.9964594 1.3344449  0.000000  1.6292018  0.000000 1.5773240
## X3810 0.000000 0.0000000 0.0000000 36.550000  0.0000000 36.550000 0.0000000
## X3811 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3814 3.069033 1.4457942 0.9680933  0.000000  0.0000000  0.000000 2.2885900
## X3815 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
## X3816 0.000000 0.0000000 1.6328933  0.000000  1.9935739  0.000000 0.0000000
## X3819 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3820 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3823 0.000000 0.0000000 4.4046459  0.000000  0.0000000  0.000000 0.0000000
## X3902 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
## X3908 0.000000 1.5185773 1.0168283  0.000000  1.2414295  0.000000 0.0000000
## X3909 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
## X3910 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
## X3911 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
## X3915 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
## X3916 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3917 0.000000 0.9288310 1.2438781  0.000000  0.7593151  0.000000 1.4702730
## X3919 3.069033 1.4457942 0.9680933  0.000000  0.0000000  0.000000 2.2885900
## X3920 2.514410 1.1845166 1.5862880  0.000000  0.0000000  0.000000 1.8750056
## X3921 2.800514 1.3192976 0.8833922  0.000000  0.0000000  0.000000 2.0883546
```

```
## X3923 0.000000 2.0850809 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3924 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X3925 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
## X3926 0.000000 0.9147185 1.2249788  0.000000  1.4955563  0.000000 1.4479338
## X4001 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X4005 0.000000 0.0000000 4.4046459  0.000000  0.0000000  0.000000 0.0000000
## X4006 0.000000 0.0000000 4.4046459  0.000000  0.0000000  0.000000 0.0000000
## X4008 0.000000 0.0000000 1.6328933  0.000000  1.9935739  0.000000 0.0000000
## X4009 0.000000 0.0000000 4.4046459  0.000000  0.0000000  0.000000 0.0000000
## X4010 0.000000 1.7992690 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X4012 0.000000 0.0000000 4.4046459  0.000000  0.0000000  0.000000 0.0000000
## X4013 0.000000 0.0000000 4.4046459  0.000000  0.0000000  0.000000 0.0000000
## X4015 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X4016 0.000000 0.0000000 3.3764917  0.000000  0.0000000  0.000000 0.0000000
## X4202 2.617264 1.2329700 0.8255880  0.000000  0.0000000  0.000000 1.9517041
## X4203 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X4409 0.000000 2.5493536 0.8535145  0.000000  0.0000000  0.000000 2.0177230
## X4415 0.000000 2.5279767 1.6927153  0.000000  0.0000000  0.000000 2.0008039
## X4416 0.000000 1.3192976 0.8833922  0.000000  1.0785194  0.000000 2.0883546
## X4418 0.000000 0.0000000 0.0000000  0.000000 13.0223681  0.000000 0.0000000
## X4420 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X4421 0.000000 0.0000000 1.2047772  0.000000  1.4708934  0.000000 0.0000000
## X4602 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X4804 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
## X4808 2.585537 1.2180237 0.8155801  0.000000  0.9957285  0.000000 1.9280451
## X4818 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X4819 0.000000 4.0335710 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X4821 3.865449 1.8209781 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X4822 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
## X4823 0.000000 1.9255138 1.2893097  0.000000  1.5740978  0.000000 3.0479532
## X4901 0.000000 0.0000000 1.6328933  0.000000  1.9935739  0.000000 0.0000000
## X4902 0.000000 0.0000000 1.6328933  0.000000  1.9935739  0.000000 0.0000000
## X4907 0.000000 0.0000000 1.6328933  0.000000  1.9935739  0.000000 0.0000000
## X4911 0.000000 1.5185773 1.0168283  0.000000  1.2414295  0.000000 0.0000000
## X5111 0.000000 2.1909772 1.4670618  0.000000  1.7911127  0.000000 3.4681634
## X5112 0.000000 0.0000000 0.0000000  0.000000 12.3711441  0.000000 0.0000000
## X5205 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5206 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5208 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5209 3.865449 1.8209781 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5210 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5211 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5402 4.937404 0.0000000 0.0000000  0.000000  1.9014652  0.000000 0.0000000
## X5407 1.924158 0.9064544 1.2139116  0.000000  0.7410223  0.000000 1.4348523
## X5408 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5505 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5508 0.000000 1.2693101 0.8499211  0.000000  2.0753098  0.000000 0.0000000
## X5509 4.395716 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5511 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5512 0.000000 2.3259658 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5513 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5514 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5515 0.000000 3.1838538 0.0000000  0.000000  2.6027839  0.000000 0.0000000
## X5516 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
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## X5603 0.000000 2.7467497 0.9196020  0.000000  0.0000000  0.000000 2.1739552
## X5609 0.000000 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5806 3.865449 1.8209781 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5807 3.865449 1.8209781 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5903 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
## X5907 0.000000 4.0335710 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X5911 3.525146 0.0000000 0.0000000  0.000000  1.3575849  0.000000 0.0000000
## X6002 1.531759 1.4431981 0.9663564  0.000000  0.5899041  0.000000 1.1422391
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## X6104 2.983232 0.0000000 0.9410284  0.000000  1.1488864  0.000000 0.0000000
## X6105 0.000000 4.0335710 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6106 2.983232 0.0000000 0.9410284  0.000000  1.1488864  0.000000 0.0000000
## X6107 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6109 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6110 0.000000 2.5412103 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6111 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6112 4.684847 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6114 3.486769 0.0000000 0.0000000  0.000000  2.6856111  0.000000 0.0000000
## X6115 2.850399 0.0000000 0.8991278  0.000000  1.0977307  0.000000 0.0000000
## X6117 0.000000 4.0335710 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6201 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6202 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6203 3.752264 1.7676574 0.0000000  0.000000  0.0000000  0.000000 0.0000000
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## X6204 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6205 0.000000 1.5185773 1.0168283  0.000000  1.2414295  0.000000 0.0000000
## X6206 2.419319 0.0000000 0.7631486  0.000000  0.9317156  0.000000 0.0000000
## X6210 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6211 2.969395 1.3988557 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6212 1.819999 1.7147725 0.5741002  0.000000  0.7009094  0.000000 1.3571808
## X6217 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6302 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6303 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6304 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6305 3.069033 1.4457942 0.9680933  0.000000  0.0000000  0.000000 2.2885900
## X6306 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
## X6307 6.114286 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6401 0.000000 0.0000000 1.6328933  0.000000  1.9935739  0.000000 0.0000000
## X6403 0.000000 0.0000000 1.4058621  0.000000  1.7163949  0.000000 0.0000000
## X6404 0.000000 2.5627679 1.7160098  0.000000  0.0000000  0.000000 4.0566824
##            X8411       X8412     X8413     X8414    X8419     X8421     X8422
## X102   1.9935739    0.000000 0.0000000 0.0000000 0.000000 1.0459273 1.4288979
## X210   0.0000000    0.000000 0.0000000 0.0000000 0.000000 2.1437736 1.4643627
## X401   1.0204686    0.000000 1.0204686 2.0430009 0.000000 1.0707783 0.7314234
## X403   1.8494412    0.000000 0.0000000 0.0000000 0.000000 1.4554655 1.3255919
## X406   0.0000000    0.000000 0.0000000 0.0000000 0.000000 1.4576823 1.9914195
## X510   0.0000000 1194.142857 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X602   0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X603   0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X702   1.5598787    0.000000 0.0000000 0.0000000 0.000000 0.5455959 0.7453658
## X703   0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X709   1.2947954    0.000000 1.2947954 0.0000000 0.000000 1.0189745 0.4640244
## X712   0.0000000    0.000000 6.1845165 0.0000000 0.000000 0.0000000 0.0000000
## X713   1.6434125   18.504971 1.0956083 0.0000000 0.000000 0.8622197 0.3926406
## X804   0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X805   2.1129740    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X808   0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X809   1.9935739    0.000000 0.0000000 0.0000000 0.000000 1.0459273 1.4288979
## X813   0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X901   2.4240164    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X904   0.0000000    0.000000 0.0000000 0.0000000 0.000000 2.8213326 0.0000000
## X1001  2.3752443   40.118357 1.1876222 0.0000000 0.000000 0.6230860 0.0000000
## X1003  0.6969374   23.542770 0.6969374 1.3952830 0.000000 0.7312982 0.4995320
## X1005  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X1102  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
## X1108  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
## X1202  7.2762743    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X1208  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
## X1213  4.6387760    0.000000 1.1596940 0.0000000 0.000000 1.2168671 0.0000000
## X1214  2.0790304    0.000000 1.3860202 0.0000000 0.000000 1.0907659 0.4967171
## X1302  1.8542878    0.000000 1.2361919 0.0000000 0.000000 0.6485701 0.4430223
## X1507  0.0000000    0.000000 0.0000000 0.0000000 0.000000 1.7299896 2.3634336
## X1514  0.0000000    0.000000 0.0000000 0.0000000 0.000000 1.7299896 2.3634336
## X1517  1.0204686    0.000000 1.0204686 2.0430009 0.000000 1.0707783 0.7314234
## X1601  0.0000000    0.000000 0.0000000 0.0000000 0.000000 2.1437736 1.4643627
## X1602  1.0079471    0.000000 0.0000000 0.0000000 0.000000 1.5864594 1.4448972
## X1704  1.7633775    0.000000 0.0000000 0.0000000 0.000000 0.9251571 0.6319528
## X1806  1.2330908    0.000000 0.6165454 1.2343360 0.000000 0.9704146 0.4419109
## X1901  1.1826476    0.000000 0.5913238 1.1838417 0.000000 0.9307173 0.8476667
## X1902  0.0000000    0.000000 0.0000000 0.0000000 0.000000 1.7299896 2.3634336
## X1905  1.1231675    0.000000 0.5615838 1.1243013 1.458221 0.5892720 0.8050342
## X2001  0.0000000    0.000000 0.0000000 0.0000000 0.000000 1.7299896 2.3634336
## X2002  0.0000000    0.000000 0.0000000 0.0000000 0.000000 1.7299896 2.3634336
## X2003  0.0000000    0.000000 0.0000000 0.0000000 0.000000 1.7299896 2.3634336
## X2004  0.0000000    0.000000 0.0000000 0.0000000 0.000000 1.7299896 2.3634336
## X2005  1.6510539    0.000000 0.0000000 0.0000000 0.000000 0.8662267 1.1833975
## X2006  1.9014652    0.000000 0.0000000 0.0000000 0.000000 0.9976026 1.3628789
## X2007  1.2414295    0.000000 0.0000000 0.0000000 0.000000 1.3026319 1.7795949
## X2008  1.1826476    0.000000 0.5913238 1.1838417 0.000000 0.9307173 0.4238333
## X2101  0.0000000    0.000000 0.0000000 0.0000000 0.000000 1.7299896 2.3634336
## X2102  1.4535638    0.000000 0.0000000 0.0000000 0.000000 1.5252238 1.0418450
## X2103  0.0000000    0.000000 0.0000000 0.0000000 0.000000 2.1437736 1.4643627
## X2104  0.0000000    0.000000 0.0000000 0.0000000 0.000000 2.8213326 0.0000000
## X2106  0.0000000    0.000000 1.0333044 2.0686986 0.000000 1.6263704 0.7406235
## X2202  0.0000000    0.000000 1.1762913 2.3549622 0.000000 1.2342826 0.8431096
## X2206  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2208  3.4327898    0.000000 0.0000000 0.0000000 0.000000 0.9005058 1.2302295
## X2209  0.0000000    0.000000 0.0000000 0.0000000 0.000000 1.7299896 2.3634336
## X2302  0.0000000    0.000000 0.0000000 0.0000000 0.000000 2.8213326 0.0000000
## X2309  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
## X2402  1.9935739    0.000000 0.0000000 0.0000000 0.000000 1.0459273 1.4288979
## X2403  1.9935739    0.000000 0.0000000 0.0000000 0.000000 1.0459273 1.4288979
## X2507  4.4169084    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
```

```
## X2508  1.0204686    0.000000 1.0204686 2.0430009 0.000000 1.0707783 0.7314234
## X2512 12.3711441    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2517  1.4345179    0.000000 0.7172589 0.0000000 0.000000 0.7526215 1.0281950
## X2519  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
## X2520  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2522  0.0000000    0.000000 4.9471908 0.0000000 0.000000 2.5955375 3.5459068
## X2525 13.0223681    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2530  3.2306121    0.000000 0.0000000 0.0000000 0.000000 0.8474697 1.1577739
## X2602  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2606  1.9935739    0.000000 0.0000000 0.0000000 0.000000 1.0459273 1.4288979
## X2607  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2608  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2710  0.0000000    0.000000 0.0000000 0.0000000 0.000000 2.8213326 0.0000000
## X2713  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X2714  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X2716  5.9028124    0.000000 0.9838021 0.0000000 0.000000 1.0323043 0.7051426
## X2804  0.8571385    0.000000 0.8571385 1.7160098 0.000000 1.3490949 0.6143563
## X2811  0.8571385    0.000000 0.8571385 1.7160098 0.000000 1.3490949 0.6143563
## X2825  0.0000000    0.000000 6.1845165 0.0000000 0.000000 0.0000000 0.0000000
## X2826  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
## X2832  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
## X2833  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
## X2835  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
## X2836  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X2901  0.8571385    0.000000 0.8571385 1.7160098 0.000000 1.3490949 0.6143563
## X2903  1.9014652    0.000000 1.9014652 0.0000000 4.937404 0.9976026 1.3628789
## X2907  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
## X2915  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
## X2933  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
## X3105  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X3202  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
## X3204  0.9957285    0.000000 0.9957285 1.9934707 0.000000 1.0448187 0.7136909
## X3205  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X3206  0.0000000    0.000000 1.1819296 2.3662503 3.069033 0.6200995 0.8471508
## X3207  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X3208  0.0000000    0.000000 1.7529589 0.0000000 4.551788 0.0000000 1.2564368
## X3209  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X3210  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
## X3211  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X3212  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X3214  1.9014652    0.000000 1.9014652 0.0000000 4.937404 0.9976026 1.3628789
## X3215  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X3302  0.0000000    0.000000 1.2800890 2.5627679 0.000000 1.3431972 0.9175067
## X3303  1.9935739    0.000000 0.0000000 0.0000000 0.000000 1.0459273 1.4288979
## X3304  1.9935739    0.000000 0.0000000 0.0000000 0.000000 1.0459273 1.4288979
## X3305  3.3857073    0.000000 0.0000000 0.0000000 0.000000 0.8881549 1.2133563
## X3307  1.9935739    0.000000 0.0000000 0.0000000 0.000000 1.0459273 1.4288979
## X3402  1.4557386    0.000000 0.7278693 1.4572094 0.000000 1.1456323 1.0434050
## X3403  0.9424084    0.000000 0.9424084 1.8867224 0.000000 0.9888701 0.6754737
## X3506  0.7343871    0.000000 0.0000000 0.0000000 1.906928 1.1558910 1.5791223
## X3507  0.0000000    0.000000 1.2800890 2.5627679 0.000000 1.3431972 0.9175067
## X3605  0.0000000    0.000000 0.0000000 0.0000000 0.000000 2.8213326 0.0000000
## X3701  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X3707  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X3802  6.3431480    0.000000 6.3431480 0.0000000 0.000000 3.3279241 0.0000000
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## X3809  1.6292018    0.000000 1.6292018 1.6308484 0.000000 1.2821431 1.1677350
## X3810  0.0000000    0.000000 6.1845165 0.0000000 0.000000 0.0000000 0.0000000
## X3811  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X3814  0.0000000    0.000000 1.1819296 2.3662503 3.069033 0.6200995 0.8471508
## X3815  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
## X3816  1.9935739    0.000000 0.0000000 0.0000000 0.000000 1.0459273 1.4288979
## X3819  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X3820  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X3823  0.0000000    0.000000 0.0000000 0.0000000 0.000000 2.8213326 0.0000000
## X3902  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
## X3908  1.2414295    0.000000 0.0000000 0.0000000 0.000000 1.3026319 1.7795949
## X3909  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
## X3910  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
## X3911  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
## X3915  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
## X3916  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X3917  0.7593151    0.000000 1.5186301 1.5201647 0.000000 1.1951263 1.0884826
## X3919  0.0000000    0.000000 1.1819296 2.3662503 3.069033 0.6200995 0.8471508
## X3920  0.0000000    0.000000 0.9683366 1.9386314 2.514410 1.0160765 0.6940578
## X3921  0.0000000    0.000000 1.0785194 2.1592202 2.800514 0.5658454 0.7730314
## X3923  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.8942877 1.2217347
## X3924  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X3925  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
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## X3926  1.4955563    0.000000 1.4955563 1.4970675 0.000000 1.1769678 0.5359722
## X4001  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X4005  0.0000000    0.000000 0.0000000 0.0000000 0.000000 2.8213326 0.0000000
## X4006  0.0000000    0.000000 0.0000000 0.0000000 0.000000 2.8213326 0.0000000
## X4008  1.9935739    0.000000 0.0000000 0.0000000 0.000000 1.0459273 1.4288979
## X4009  0.0000000    0.000000 0.0000000 0.0000000 0.000000 2.8213326 0.0000000
## X4010  0.0000000    0.000000 1.4708934 0.0000000 0.000000 1.5434076 2.1085319
## X4012  0.0000000    0.000000 0.0000000 0.0000000 0.000000 2.8213326 0.0000000
## X4013  0.0000000    0.000000 0.0000000 0.0000000 0.000000 2.8213326 0.0000000
## X4015  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X4016  0.0000000    0.000000 0.0000000 0.0000000 0.000000 2.1627636 0.0000000
## X4202  0.0000000    0.000000 1.0079471 2.0179326 2.617264 0.5288198 0.7224486
## X4203  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X4409  0.0000000    0.000000 1.0420421 2.0861918 0.000000 1.0934154 0.7468863
## X4415  0.0000000    0.000000 1.0333044 2.0686986 0.000000 1.6263704 0.7406235
## X4416  1.0785194    0.000000 2.1570387 2.1592202 0.000000 1.1316908 0.7730314
## X4418 13.0223681    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X4420  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X4421  1.4708934    0.000000 0.0000000 0.0000000 0.000000 0.7717038 1.0542660
## X4602  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X4804  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
## X4808  0.9957285    0.000000 1.9914571 1.9934707 2.585537 1.0448187 0.7136909
## X4818  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X4819  0.0000000    0.000000 0.0000000 0.0000000 0.000000 1.7299896 2.3634336
## X4821  0.0000000    0.000000 0.0000000 0.0000000 3.865449 0.7810148 2.1339725
## X4822  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
## X4823  1.5740978    0.000000 3.1481957 3.1513815 0.000000 1.6516997 0.0000000
## X4901  1.9935739    0.000000 0.0000000 0.0000000 0.000000 1.0459273 1.4288979
## X4902  1.9935739    0.000000 0.0000000 0.0000000 0.000000 1.0459273 1.4288979
## X4907  1.9935739    0.000000 0.0000000 0.0000000 0.000000 1.0459273 1.4288979
## X4911  1.2414295    0.000000 0.0000000 0.0000000 0.000000 1.3026319 1.7795949
## X5111  1.7911127    0.000000 1.7911127 3.5858510 0.000000 0.9397063 0.0000000
## X5112 12.3711441    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X5205  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X5206  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X5208  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X5209  0.0000000    0.000000 0.0000000 0.0000000 3.865449 0.7810148 2.1339725
## X5210  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X5211  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X5402  1.9014652    0.000000 1.9014652 0.0000000 4.937404 0.9976026 1.3628789
## X5407  0.7410223    0.000000 0.7410223 1.4835421 1.924158 0.7775563 1.0622598
## X5408  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X5505  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X5508  2.0753098    0.000000 1.0376549 0.0000000 0.000000 1.6332179 1.4874834
## X5509  0.0000000    0.000000 0.0000000 0.0000000 4.395716 0.0000000 1.2133563
## X5511  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X5512  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.9976026 1.3628789
## X5513  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X5514  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X5515  2.6027839    0.000000 0.0000000 0.0000000 0.000000 1.3655483 1.8655500
## X5516  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X5601  1.9935739    0.000000 0.0000000 0.0000000 0.000000 1.0459273 1.4288979
## X5603  0.0000000    0.000000 1.1227273 2.2477256 0.000000 1.1780780 0.8047174
## X5609  0.0000000    0.000000 0.0000000 0.0000000 0.000000 0.0000000 0.0000000
## X5806  0.0000000    0.000000 0.0000000 0.0000000 3.865449 0.7810148 2.1339725
## X5807  0.0000000    0.000000 0.0000000 0.0000000 3.865449 0.7810148 2.1339725
## X5903  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
## X5907  0.0000000    0.000000 0.0000000 0.0000000 0.000000 1.7299896 2.3634336
## X5911  1.3575849    0.000000 0.0000000 0.0000000 3.525146 0.0000000 0.9730520
## X6002  0.5899041    0.000000 0.5899041 1.1809994 1.531759 0.9284827 1.2684472
## X6101  0.0000000    0.000000 0.0000000 0.0000000 0.000000 1.7299896 2.3634336
## X6103  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X6104  1.1488864    0.000000 0.0000000 0.0000000 2.983232 0.6027634 1.6469342
## X6105  0.0000000    0.000000 0.0000000 0.0000000 0.000000 1.7299896 2.3634336
## X6106  1.1488864    0.000000 0.0000000 0.0000000 2.983232 0.6027634 1.6469342
## X6107  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X6109  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X6110  0.0000000    0.000000 0.0000000 0.0000000 0.000000 1.0899203 1.4889993
## X6111  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X6112  0.0000000   60.946744 1.8042020 0.0000000 4.684847 0.9465736 2.5863307
## X6114  2.6856111    0.000000 0.0000000 0.0000000 3.486769 0.0000000 0.9624589
## X6115  1.0977307    0.000000 0.0000000 0.0000000 2.850399 0.5759246 1.5736023
## X6117  0.0000000    0.000000 0.0000000 0.0000000 0.000000 1.7299896 2.3634336
## X6201  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X6202  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X6203  0.0000000    0.000000 0.0000000 0.0000000 3.752264 0.7581457 2.0714870
## X6204  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X6205  1.2414295    0.000000 0.0000000 0.0000000 0.000000 1.3026319 1.7795949
## X6206  0.9317156    0.000000 0.0000000 0.0000000 2.419319 0.4888251 1.3356193
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## X6210  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X6211  0.0000000    0.000000 0.0000000 0.0000000 2.969395 0.5999677 1.6392954
## X6212  0.7009094    0.000000 0.7009094 1.4032349 1.819999 0.7354659 1.0047578
## X6217  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X6302  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X6303  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X6304  0.0000000    0.000000 0.0000000 0.0000000 7.055790 0.0000000 1.9476187
## X6305  0.0000000    0.000000 1.1819296 2.3662503 3.069033 0.6200995 0.8471508
## X6306  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
## X6307  0.0000000    0.000000 0.0000000 0.0000000 6.114286 0.0000000 1.6877344
## X6401  1.9935739    0.000000 0.0000000 0.0000000 0.000000 1.0459273 1.4288979
## X6403  1.7163949    0.000000 0.0000000 0.0000000 0.000000 0.9005058 1.2302295
## X6404  0.0000000    0.000000 2.0950496 4.1943407 0.000000 1.0991663 0.0000000
##           X8423     X8424     X8425      X8427      X8428     X8430     X8431
## X102   0.000000 3.7978668  0.000000  0.0000000  0.0000000 3.7978668 0.0000000
## X210   0.000000 0.0000000  0.000000  6.4376850  0.0000000 0.0000000 0.0000000
## X401   0.000000 1.9440463  0.000000  0.0000000  0.0000000 1.9440463 1.5349916
## X403   0.000000 1.7616411  0.000000  2.9137999  0.0000000 1.7616411 0.0000000
## X406   0.000000 0.0000000  0.000000  8.7547564  0.0000000 0.0000000 0.0000000
## X510   0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X602   0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X603   0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X702   0.000000 0.9905484  0.000000  1.6383915  0.0000000 0.9905484 0.0000000
## X703   0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X709   3.924187 0.0000000  0.000000  0.0000000  1.9365962 0.0000000 0.9738166
## X712   0.000000 0.0000000 36.550000  0.0000000 18.5001562 0.0000000 0.0000000
## X713   3.320500 0.0000000  0.000000  0.0000000  1.6386754 0.0000000 0.8240075
## X804   0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X805   0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X808   0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X809   0.000000 3.7978668  0.000000  0.0000000  0.0000000 3.7978668 0.0000000
## X813   0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X901   0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X904   0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X1001  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X1003  0.000000 1.3277012  0.000000  0.0000000  0.0000000 1.3277012 1.0483345
## X1005  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X1102  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
## X1108  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
## X1202  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X1208  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
## X1213  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X1214  4.200668 0.0000000  0.000000  0.0000000  2.0730398 0.0000000 1.0424270
## X1302  3.746574 0.0000000  0.000000  0.0000000  1.8489439 0.0000000 0.9297407
## X1507  0.000000 0.0000000  0.000000 10.3902222  0.0000000 0.0000000 0.0000000
## X1514  0.000000 0.0000000  0.000000 10.3902222  0.0000000 0.0000000 0.0000000
## X1517  0.000000 1.9440463  0.000000  0.0000000  0.0000000 1.9440463 1.5349916
## X1601  0.000000 0.0000000  0.000000  6.4376850  0.0000000 0.0000000 0.0000000
## X1602  0.000000 1.9201921  0.000000  3.1760477  0.0000000 1.9201921 0.0000000
## X1704  0.000000 1.6796629  0.000000  0.0000000  0.0000000 1.6796629 0.0000000
## X1806  0.000000 1.1745499  0.000000  0.0000000  0.0000000 1.1745499 0.9274084
## X1901  0.000000 1.1265013  0.000000  1.8632613  0.0000000 1.1265013 0.8894700
## X1902  0.000000 0.0000000  0.000000 10.3902222  0.0000000 0.0000000 0.0000000
## X1905  0.000000 1.0698448  0.000000  0.0000000  0.0000000 1.0698448 0.8447348
## X2001  0.000000 0.0000000  0.000000 10.3902222  0.0000000 0.0000000 0.0000000
## X2002  0.000000 0.0000000  0.000000 10.3902222  0.0000000 0.0000000 0.0000000
## X2003  0.000000 0.0000000  0.000000 10.3902222  0.0000000 0.0000000 0.0000000
## X2004  0.000000 0.0000000  0.000000 10.3902222  0.0000000 0.0000000 0.0000000
## X2005  0.000000 1.5726715  0.000000  2.6012390  0.0000000 1.5726715 0.0000000
## X2006  0.000000 3.6223945  0.000000  0.0000000  0.0000000 3.6223945 0.0000000
## X2007  0.000000 2.3649893  0.000000  3.9117544  0.0000000 2.3649893 0.0000000
## X2008  0.000000 1.1265013  0.000000  0.0000000  0.0000000 1.1265013 0.8894700
## X2101  0.000000 0.0000000  0.000000 10.3902222  0.0000000 0.0000000 0.0000000
## X2102  0.000000 2.7691172  0.000000  0.0000000  0.0000000 2.7691172 0.0000000
## X2103  0.000000 0.0000000  0.000000  6.4376850  0.0000000 0.0000000 0.0000000
## X2104  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X2106  0.000000 0.0000000  0.000000  3.2559489  0.0000000 0.0000000 1.5542993
## X2202  0.000000 0.0000000  0.000000  3.7065030  0.0000000 0.0000000 1.7693809
## X2206  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X2208  0.000000 3.2698252  0.000000  0.0000000  0.0000000 3.2698252 0.0000000
## X2209  0.000000 0.0000000  0.000000 10.3902222  0.0000000 0.0000000 0.0000000
## X2302  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X2309  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
## X2402  0.000000 3.7978668  0.000000  0.0000000  0.0000000 3.7978668 0.0000000
## X2403  0.000000 3.7978668  0.000000  0.0000000  0.0000000 3.7978668 0.0000000
## X2507  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X2508  0.000000 1.9440463  0.000000  0.0000000  0.0000000 1.9440463 1.5349916
## X2512  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X2517  4.347652 1.3664149  0.000000  0.0000000  2.1455769 1.3664149 1.0789022
```

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## X2519  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
## X2520  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X2522 29.987436 0.0000000  0.000000  0.0000000 14.7988598 0.0000000 7.4415861
## X2525  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X2530  0.000000 3.0772452  0.000000  0.0000000  0.0000000 3.0772452 0.0000000
## X2602  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X2606  0.000000 3.7978668  0.000000  0.0000000  0.0000000 3.7978668 0.0000000
## X2607  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X2608  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X2710  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X2713  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X2714  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X2716  0.000000 1.8741945  0.000000  0.0000000  0.0000000 1.8741945 0.0000000
## X2804  0.000000 1.6328933  0.000000  0.0000000  0.0000000 1.6328933 1.2893097
## X2811  0.000000 1.6328933  0.000000  0.0000000  0.0000000 1.6328933 1.2893097
## X2825  0.000000 0.0000000 36.550000  0.0000000 18.5001562 0.0000000 0.0000000
## X2826  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
## X2832  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
## X2833  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
## X2835  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
## X2836  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X2901  0.000000 1.6328933  0.000000  0.0000000  0.0000000 1.6328933 1.2893097
## X2903  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X2907  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
## X2915  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
## X2933  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
## X3105  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X3202  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
## X3204  0.000000 1.8969151  0.000000  0.0000000  0.0000000 1.8969151 1.4977775
## X3205  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X3206  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 1.7778621
## X3207  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X3208  0.000000 0.0000000 10.359833  0.0000000  5.2437367 0.0000000 0.0000000
## X3209  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X3210  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
## X3211  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X3212  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X3214  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X3215  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X3302  0.000000 0.0000000  0.000000  4.0335710  0.0000000 0.0000000 1.9255138
## X3303  0.000000 3.7978668  0.000000  0.0000000  0.0000000 3.7978668 0.0000000
## X3304  0.000000 3.7978668  0.000000  0.0000000  0.0000000 3.7978668 0.0000000
## X3305  0.000000 3.2249778  0.000000  0.0000000  0.0000000 3.2249778 0.0000000
## X3307  0.000000 3.7978668  0.000000  0.0000000  0.0000000 3.7978668 0.0000000
## X3402  0.000000 1.3866282  0.000000  2.2935182  0.0000000 1.3866282 1.0948623
## X3403  0.000000 1.7953373  0.000000  0.0000000  0.0000000 1.7953373 1.4175731
## X3506  0.000000 1.3990449  0.000000  2.3140559  0.0000000 1.3990449 0.0000000
## X3507  0.000000 0.0000000  0.000000  4.0335710  0.0000000 0.0000000 1.9255138
## X3605  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X3701  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X3707  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X3802  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X3808  0.000000 3.7978668  0.000000  0.0000000  0.0000000 3.7978668 0.0000000
## X3809  4.937692 1.5518568  0.000000  0.0000000  2.4367625 1.5518568 2.4506489
## X3810  0.000000 0.0000000 36.550000  0.0000000 18.5001562 0.0000000 0.0000000
## X3811  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X3814  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 1.7778621
## X3815  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
## X3816  0.000000 3.7978668  0.000000  0.0000000  0.0000000 3.7978668 0.0000000
## X3819  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X3820  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X3823  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X3902  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
## X3908  0.000000 2.3649893  0.000000  3.9117544  0.0000000 2.3649893 0.0000000
## X3909  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
## X3910  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
## X3911  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
## X3915  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
## X3916  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X3917  4.602576 1.4465342  0.000000  0.0000000  2.2713823 1.4465342 2.2843265
## X3919  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 1.7778621
## X3920  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 1.4565745
## X3921  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 1.6223118
## X3923  0.000000 0.0000000  0.000000  5.3710326  0.0000000 0.0000000 0.0000000
## X3924  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X3925  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
## X3926  0.000000 1.4245557  0.000000  0.0000000  0.0000000 1.4245557 1.1248093
## X4001  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X4005  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
```

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## X4006  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X4008  0.000000 3.7978668  0.000000  0.0000000  0.0000000 3.7978668 0.0000000
## X4009  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X4010  8.915816 0.0000000  0.000000  4.6347986  4.3999748 0.0000000 2.2125227
## X4012  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X4013  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X4015  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X4016  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X4202  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 1.5161567
## X4203  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X4409  0.000000 0.0000000  0.000000  3.2834817  0.0000000 0.0000000 1.5674426
## X4415  0.000000 0.0000000  0.000000  3.2559489  0.0000000 0.0000000 1.5542993
## X4416  6.537437 0.0000000  0.000000  0.0000000  3.2262398 0.0000000 3.2446237
## X4418  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X4420  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X4421  0.000000 2.8021309  0.000000  0.0000000  0.0000000 2.8021309 0.0000000
## X4602  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X4804  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
## X4808  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 1.4977775
## X4818  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X4819  0.000000 0.0000000  0.000000 10.3902222  0.0000000 0.0000000 0.0000000
## X4821  0.000000 0.0000000  0.000000  4.6907200  0.0000000 0.0000000 0.0000000
## X4822  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
## X4823  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 2.3677634
## X4901  0.000000 3.7978668  0.000000  0.0000000  0.0000000 3.7978668 0.0000000
## X4902  0.000000 3.7978668  0.000000  0.0000000  0.0000000 3.7978668 0.0000000
## X4907  0.000000 3.7978668  0.000000  0.0000000  0.0000000 3.7978668 0.0000000
## X4911  0.000000 2.3649893  0.000000  3.9117544  0.0000000 2.3649893 0.0000000
## X5111  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 2.6941982
## X5112  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X5205  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X5206  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X5208  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X5209  0.000000 0.0000000  0.000000  4.6907200  0.0000000 0.0000000 0.0000000
## X5210  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X5211  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X5402  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X5407  0.000000 1.4116854  0.000000  0.0000000  0.0000000 1.4116854 1.1146471
## X5408  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X5505  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X5508  0.000000 1.9767872  0.000000  3.2696575  0.0000000 1.9767872 0.0000000
## X5509  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X5511  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X5512  0.000000 0.0000000  0.000000  5.9915371  0.0000000 0.0000000 0.0000000
## X5513  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X5514  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X5515  0.000000 0.0000000  0.000000  8.2014033  0.0000000 0.0000000 0.0000000
## X5516  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X5601  0.000000 3.7978668  0.000000  0.0000000  0.0000000 3.7978668 0.0000000
## X5603  0.000000 0.0000000  0.000000  3.5377218  0.0000000 0.0000000 1.6888096
## X5609  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X5806  0.000000 0.0000000  0.000000  4.6907200  0.0000000 0.0000000 0.0000000
## X5807  0.000000 0.0000000  0.000000  4.6907200  0.0000000 0.0000000 0.0000000
## X5903  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
## X5907  0.000000 0.0000000  0.000000 10.3902222  0.0000000 0.0000000 0.0000000
## X5911  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X6002  0.000000 1.1237967  0.000000  1.8587877  0.0000000 1.1237967 0.8873344
## X6101  0.000000 0.0000000  0.000000 10.3902222  0.0000000 0.0000000 0.0000000
## X6103  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X6104  0.000000 2.1886896  0.000000  0.0000000  0.0000000 2.1886896 0.0000000
## X6105  0.000000 0.0000000  0.000000 10.3902222  0.0000000 0.0000000 0.0000000
## X6106  0.000000 2.1886896  0.000000  0.0000000  0.0000000 2.1886896 0.0000000
## X6107  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X6109  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X6110  0.000000 0.0000000  0.000000  6.5459935  0.0000000 0.0000000 0.0000000
## X6111  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X6112 10.936170 0.0000000  0.000000  0.0000000  5.3970235 0.0000000 2.7138871
## X6114  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X6115  0.000000 2.0912350  0.000000  0.0000000  0.0000000 2.0912350 0.0000000
## X6117  0.000000 0.0000000  0.000000 10.3902222  0.0000000 0.0000000 0.0000000
## X6201  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X6202  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X6203  0.000000 0.0000000  0.000000  4.5533692  0.0000000 0.0000000 0.0000000
## X6204  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X6205  0.000000 2.3649893  0.000000  3.9117544  0.0000000 2.3649893 0.0000000
## X6206  0.000000 1.7749670  0.000000  0.0000000  0.0000000 1.7749670 0.0000000
## X6210  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X6211  0.000000 0.0000000  0.000000  3.6033589  0.0000000 0.0000000 0.0000000
## X6212  0.000000 0.0000000  0.000000  2.2085671  0.0000000 0.0000000 1.0543091
```

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## X6217  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X6302  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X6303  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X6304  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X6305  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 1.7778621
## X6306  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
## X6307  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 0.0000000
## X6401  0.000000 3.7978668  0.000000  0.0000000  0.0000000 3.7978668 0.0000000
## X6403  0.000000 3.2698252  0.000000  0.0000000  0.0000000 3.2698252 0.0000000
## X6404  0.000000 0.0000000  0.000000  0.0000000  0.0000000 0.0000000 3.1513815
##           X8437     X8438     X8439    X8441     X8445    X8447      X8450
## X102   0.000000 1.6328933  0.000000 0.000000  0.000000 0.000000  0.0000000
## X210   0.000000 1.6734212  0.000000 0.000000  0.000000 0.000000  6.4376850
## X401   0.000000 1.6716882  0.000000 0.000000  0.000000 0.000000  0.0000000
## X403   0.000000 1.5148382  0.000000 0.000000  0.000000 0.000000  2.9137999
## X406   0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  8.7547564
## X510   0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X602   0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X603   0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X702   0.000000 0.4258882  0.000000 0.000000  2.793451 0.000000  1.6383915
## X703   0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X709   0.000000 0.0000000  0.000000 0.000000  3.478109 0.000000  0.0000000
## X712  36.550000 0.0000000 36.550000 0.000000  0.000000 0.000000  0.0000000
## X713   0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X804   0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X805   0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X808   0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X809   0.000000 1.6328933  0.000000 0.000000  0.000000 0.000000  0.0000000
## X813   0.000000 0.0000000  0.000000 0.000000 30.204545 0.000000  0.0000000
## X901   0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X904   0.000000 4.4046459  0.000000 0.000000  0.000000 0.000000  0.0000000
## X1001  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X1003  0.000000 1.1416938  0.000000 0.000000  0.000000 0.000000  0.0000000
## X1005  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X1102  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
## X1108  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
## X1202  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X1208  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
## X1213  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X1214  0.000000 0.0000000  0.000000 0.000000  3.723160 0.000000  0.0000000
## X1302  0.000000 0.0000000  0.000000 0.000000  3.320686 0.000000  0.0000000
## X1507  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000 10.3902222
## X1514  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000 10.3902222
## X1517  0.000000 1.6716882  0.000000 0.000000  0.000000 0.000000  0.0000000
## X1601  0.000000 1.6734212  0.000000 0.000000  0.000000 0.000000  6.4376850
## X1602  0.000000 1.6511761  0.000000 0.000000  0.000000 0.000000  3.1760477
## X1704  0.000000 1.4443452  0.000000 0.000000  4.736831 0.000000  0.0000000
## X1806  0.000000 1.5149986  0.000000 0.000000  3.312355 0.000000  0.0000000
## X1901  0.000000 0.9686822  0.000000 0.000000  3.176853 0.000000  1.8632613
## X1902  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000 10.3902222
## X1905  0.000000 0.9199633  0.000000 1.458221  3.017076 1.458221  0.0000000
## X2001  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000 10.3902222
## X2002  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000 10.3902222
## X2003  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000 10.3902222
## X2004  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000 10.3902222
## X2005  0.000000 0.6761717  0.000000 0.000000  4.435103 0.000000  2.6012390
## X2006  0.000000 1.5574491  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2007  0.000000 1.0168283  0.000000 0.000000  0.000000 0.000000  3.9117544
## X2008  0.000000 1.4530233  0.000000 0.000000  3.176853 0.000000  0.0000000
## X2101  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000 10.3902222
## X2102  0.000000 2.3811659  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2103  0.000000 1.6734212  0.000000 0.000000  0.000000 0.000000  6.4376850
## X2104  0.000000 4.4046459  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2106  0.000000 1.6927153  0.000000 0.000000  0.000000 0.000000  3.2559489
## X2202  0.000000 0.9634751  0.000000 0.000000  0.000000 0.000000  3.7065030
## X2206  0.000000 0.0000000  0.000000 0.000000 30.204545 0.000000  0.0000000
## X2208  0.000000 1.4058621  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2209  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000 10.3902222
## X2302  0.000000 4.4046459  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2309  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2402  0.000000 1.6328933  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2403  0.000000 1.6328933  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2507  0.000000 0.0000000  0.000000 0.000000 23.729708 0.000000  0.0000000
## X2508  0.000000 1.6716882  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2512  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2517  0.000000 0.5874918  0.000000 0.000000  3.853436 0.000000  0.0000000
## X2519  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2520  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2522  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
```

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## X2525  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2530  0.000000 1.3230624  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2602  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2606  0.000000 1.6328933  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2607  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2608  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2710  0.000000 4.4046459  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2713  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X2714  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X2716  0.000000 0.8058114  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2804  0.000000 2.1061921  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2811  0.000000 2.1061921  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2825 36.550000 0.0000000 36.550000 0.000000  0.000000 0.000000  0.0000000
## X2826  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2832  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2833  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2835  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2836  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2901  0.000000 2.1061921  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2903  0.000000 0.0000000  0.000000 4.937404  0.000000 4.937404  0.0000000
## X2907  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2915  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
## X2933  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3105  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3202  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3204  0.000000 1.6311602  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3205  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X3206  0.000000 0.9680933  0.000000 3.069033  0.000000 3.069033  0.0000000
## X3207  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3208 10.359833 0.0000000 10.359833 4.551788  0.000000 4.551788  0.0000000
## X3209  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X3210  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3211  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X3212  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3214  0.000000 0.0000000  0.000000 4.937404  0.000000 4.937404  0.0000000
## X3215  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X3302  0.000000 1.0484935  0.000000 0.000000  0.000000 0.000000  4.0335710
## X3303  0.000000 1.6328933  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3304  0.000000 1.6328933  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3305  0.000000 1.3865799  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3307  0.000000 1.6328933  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3402  0.000000 1.1923650  0.000000 0.000000  0.000000 0.000000  2.2935182
## X3403  0.000000 1.5438135  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3506  0.000000 1.2030421  0.000000 1.906928  0.000000 1.906928  2.3140559
## X3507  0.000000 1.0484935  0.000000 0.000000  0.000000 0.000000  4.0335710
## X3605  0.000000 4.4046459  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3701  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X3707  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X3802  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3808  0.000000 1.6328933  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3809  0.000000 1.3344449  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3810 36.550000 0.0000000 36.550000 0.000000  0.000000 0.000000  0.0000000
## X3811  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3814  0.000000 0.9680933  0.000000 3.069033  0.000000 3.069033  0.0000000
## X3815  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3816  0.000000 1.6328933  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3819  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3820  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3823  0.000000 4.4046459  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3902  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3908  0.000000 1.0168283  0.000000 0.000000  0.000000 0.000000  3.9117544
## X3909  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3910  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3911  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3915  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3916  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X3917  0.000000 1.2438781  0.000000 0.000000  4.079382 0.000000  0.0000000
## X3919  0.000000 0.9680933  0.000000 3.069033  0.000000 3.069033  0.0000000
## X3920  0.000000 1.5862880  0.000000 2.514410  0.000000 2.514410  0.0000000
## X3921  0.000000 0.8833922  0.000000 2.800514  0.000000 2.800514  0.0000000
## X3923  0.000000 0.0000000  0.000000 0.000000  9.157595 0.000000  5.3710326
## X3924  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3925  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
## X3926  0.000000 1.2249788  0.000000 0.000000  0.000000 0.000000  0.0000000
## X4001  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X4005  0.000000 4.4046459  0.000000 0.000000  0.000000 0.000000  0.0000000
## X4006  0.000000 4.4046459  0.000000 0.000000  0.000000 0.000000  0.0000000
## X4008  0.000000 1.6328933  0.000000 0.000000  0.000000 0.000000  0.0000000
## X4009  0.000000 4.4046459  0.000000 0.000000  0.000000 0.000000  0.0000000
```

```
## X4010  0.000000 0.0000000  0.000000 0.000000  7.902318 0.000000  4.6347986
## X4012  0.000000 4.4046459  0.000000 0.000000  0.000000 0.000000  0.0000000
## X4013  0.000000 4.4046459  0.000000 0.000000  0.000000 0.000000  0.0000000
## X4015  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X4016  0.000000 3.3764917  0.000000 0.000000  0.000000 0.000000  0.0000000
## X4202  0.000000 0.8255880  0.000000 2.617264  0.000000 2.617264  0.0000000
## X4203  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X4409  0.000000 0.8535145  0.000000 0.000000  5.598326 0.000000  3.2834817
## X4415  0.000000 1.6927153  0.000000 0.000000  0.000000 0.000000  3.2559489
## X4416  0.000000 0.8833922  0.000000 0.000000  5.794299 0.000000  0.0000000
## X4418  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X4420  0.000000 0.0000000  0.000000 0.000000 30.204545 0.000000  0.0000000
## X4421  0.000000 1.2047772  0.000000 0.000000  7.902318 0.000000  0.0000000
## X4602  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X4804  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
## X4808  0.000000 0.8155801  0.000000 2.585537  0.000000 2.585537  0.0000000
## X4818  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X4819  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000 10.3902222
## X4821  0.000000 0.0000000  0.000000 3.865449  0.000000 3.865449  4.6907200
## X4822  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
## X4823  0.000000 1.2893097  0.000000 0.000000  0.000000 0.000000  0.0000000
## X4901  0.000000 1.6328933  0.000000 0.000000  0.000000 0.000000  0.0000000
## X4902  0.000000 1.6328933  0.000000 0.000000  0.000000 0.000000  0.0000000
## X4907  0.000000 1.6328933  0.000000 0.000000  0.000000 0.000000  0.0000000
## X4911  0.000000 1.0168283  0.000000 0.000000  0.000000 0.000000  3.9117544
## X5111  0.000000 1.4670618  0.000000 0.000000  0.000000 0.000000  0.0000000
## X5112  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X5205  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X5206  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X5208  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X5209  0.000000 0.0000000  0.000000 3.865449  0.000000 3.865449  4.6907200
## X5210  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X5211  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X5402  0.000000 0.0000000  0.000000 4.937404  0.000000 4.937404  0.0000000
## X5407  0.000000 1.2139116  0.000000 1.924158  0.000000 1.924158  0.0000000
## X5408  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X5505  0.000000 0.0000000  0.000000 0.000000 24.161363 0.000000  0.0000000
## X5508  0.000000 0.8499211  0.000000 0.000000  0.000000 0.000000  3.2696575
## X5509  0.000000 0.0000000  0.000000 4.395716  9.094794 4.395716  0.0000000
## X5511  0.000000 0.0000000  0.000000 0.000000 30.204545 0.000000  0.0000000
## X5512  0.000000 0.0000000  0.000000 0.000000 10.215554 0.000000  5.9915371
## X5513  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X5514  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X5515  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  8.2014033
## X5516  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  0.0000000
## X5601  0.000000 1.6328933  0.000000 0.000000  0.000000 0.000000  0.0000000
## X5603  0.000000 0.9196020  0.000000 0.000000  0.000000 0.000000  3.5377218
## X5609  0.000000 0.0000000  0.000000 0.000000 30.204545 0.000000  0.0000000
## X5806  0.000000 0.0000000  0.000000 3.865449  0.000000 3.865449  4.6907200
## X5807  0.000000 0.0000000  0.000000 3.865449  0.000000 3.865449  4.6907200
## X5903  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
## X5907  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000 10.3902222
## X5911  0.000000 0.0000000  0.000000 3.525146  7.293571 3.525146  0.0000000
## X6002  0.000000 0.9663564  0.000000 1.531759  0.000000 1.531759  1.8587877
## X6101  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000 10.3902222
## X6103  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X6104  0.000000 0.9410284  0.000000 2.983232  0.000000 2.983232  0.0000000
## X6105  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000 10.3902222
## X6106  0.000000 0.9410284  0.000000 2.983232  0.000000 2.983232  0.0000000
## X6107  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X6109  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X6110  0.000000 0.0000000  0.000000 0.000000 11.160901 0.000000  6.5459935
## X6111  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X6112  0.000000 0.0000000  0.000000 4.684847  0.000000 4.684847  0.0000000
## X6114  0.000000 0.0000000  0.000000 3.486769  7.214169 3.486769  0.0000000
## X6115  0.000000 0.8991278  0.000000 2.850399  0.000000 2.850399  0.0000000
## X6117  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000 10.3902222
## X6201  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X6202  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X6203  0.000000 0.0000000  0.000000 3.752264  0.000000 3.752264  4.5533692
## X6204  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X6205  0.000000 1.0168283  0.000000 0.000000  0.000000 0.000000  3.9117544
## X6206  0.000000 0.7631486  0.000000 2.419319  5.005600 2.419319  0.0000000
## X6210  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X6211  0.000000 0.0000000  0.000000 2.969395  0.000000 2.969395  3.6033589
## X6212  0.000000 0.5741002  0.000000 1.819999  0.000000 1.819999  2.2085671
## X6217  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X6302  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X6303  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
```

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## X6304  0.000000 0.0000000  0.000000 7.055790  0.000000 7.055790  0.0000000
## X6305  0.000000 0.9680933  0.000000 3.069033  0.000000 3.069033  0.0000000
## X6306  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
## X6307  0.000000 0.0000000  0.000000 6.114286  0.000000 6.114286  0.0000000
## X6401  0.000000 1.6328933  0.000000 0.000000  0.000000 0.000000  0.0000000
## X6403  0.000000 1.4058621  0.000000 0.000000  0.000000 0.000000  0.0000000
## X6404  0.000000 1.7160098  0.000000 0.000000  0.000000 0.000000  0.0000000
##            X8451      X8452     X8455    X8456    X8460     X8466     X8467
## X102    0.000000  0.0000000  0.000000 0.000000 0.000000 0.8318344  0.000000
## X210    0.000000  6.4376850  0.000000 0.000000 0.000000 0.8524802  0.000000
## X401    0.000000  0.0000000  0.000000 0.000000 0.000000 0.8515995  0.000000
## X403    0.000000  2.9137999  0.000000 0.000000 0.000000 0.7716966  0.000000
## X406    0.000000  8.7547564  0.000000 0.000000 0.000000 2.3186123  0.000000
## X510    0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X602    0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X603    0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X702    0.000000  1.6383915  0.000000 0.000000 0.000000 1.0847953  0.000000
## X703    0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X709    0.000000  0.0000000  0.000000 0.000000 0.000000 1.0805338  0.000000
## X712    0.000000  0.0000000 36.550000 0.000000 0.000000 0.0000000 36.550000
## X713    0.000000  0.0000000  0.000000 0.000000 0.000000 0.6857322  0.000000
## X804    0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X805    0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X808    0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X809    0.000000  0.0000000  0.000000 0.000000 0.000000 0.8318344  0.000000
## X813    0.000000  0.0000000  0.000000 0.000000 0.000000 2.3458591  0.000000
## X901    0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X904    0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X1001   0.000000  0.0000000  0.000000 0.000000 0.000000 0.9910914  0.000000
## X1003   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8724127  0.000000
## X1005   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X1102   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
## X1108   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
## X1202   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X1208   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
## X1213   0.000000  0.0000000  0.000000 0.000000 0.000000 0.4838925  0.000000
## X1214   8.192629  0.0000000  0.000000 0.000000 0.000000 1.1566622  0.000000
## X1302   7.307003  0.0000000  0.000000 0.000000 0.000000 1.0316284  0.000000
## X1507   0.000000 10.3902222  0.000000 0.000000 0.000000 1.3758741  0.000000
## X1514   0.000000 10.3902222  0.000000 0.000000 0.000000 1.3758741  0.000000
## X1517   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8515995  0.000000
## X1601   0.000000  6.4376850  0.000000 0.000000 0.000000 0.8524802  0.000000
## X1602   0.000000  3.1760477  0.000000 0.000000 0.000000 0.8411501  0.000000
## X1704   0.000000  0.0000000  0.000000 0.000000 0.000000 0.7357859  0.000000
## X1806   0.000000  0.0000000  0.000000 0.000000 0.000000 0.7717804  0.000000
## X1901   0.000000  1.8632613  0.000000 0.000000 0.000000 0.9869450  0.000000
## X1902   0.000000 10.3902222  0.000000 0.000000 0.000000 1.3758741  0.000000
## X1905   0.000000  0.0000000  0.000000 1.458221 1.458221 0.9373081  0.000000
## X2001   0.000000 10.3902222  0.000000 0.000000 0.000000 1.3758741  0.000000
## X2002   0.000000 10.3902222  0.000000 0.000000 0.000000 1.3758741  0.000000
## X2003   0.000000 10.3902222  0.000000 0.000000 0.000000 1.3758741  0.000000
## X2004   0.000000 10.3902222  0.000000 0.000000 0.000000 1.3758741  0.000000
## X2005   0.000000  2.6012390  0.000000 0.000000 0.000000 1.0333772  0.000000
## X2006   0.000000  0.0000000  0.000000 0.000000 0.000000 0.7934014  0.000000
## X2007   0.000000  3.9117544  0.000000 0.000000 0.000000 1.0359943  0.000000
## X2008   0.000000  0.0000000  0.000000 0.000000 0.000000 0.9869450  0.000000
## X2101   0.000000 10.3902222  0.000000 0.000000 0.000000 1.3758741  0.000000
## X2102   0.000000  0.0000000  0.000000 0.000000 0.000000 0.6065116  0.000000
## X2103   0.000000  6.4376850  0.000000 0.000000 0.000000 0.8524802  0.000000
## X2104   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X2106   0.000000  3.2559489  0.000000 0.000000 0.000000 0.8623111  0.000000
## X2202   0.000000  3.7065030  0.000000 0.000000 0.000000 0.9816356  0.000000
## X2206   0.000000  0.0000000  0.000000 0.000000 0.000000 2.3458591  0.000000
## X2208  20.290949  0.0000000  0.000000 0.000000 0.000000 0.7161796  0.000000
## X2209   0.000000 10.3902222  0.000000 0.000000 0.000000 1.3758741  0.000000
## X2302   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X2309   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
## X2402   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8318344  0.000000
## X2403   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8318344  0.000000
## X2507   0.000000  0.0000000  0.000000 0.000000 0.000000 1.8429867  0.000000
## X2508   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8515995  0.000000
## X2512 146.250000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X2517   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8978506  0.000000
## X2519   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
## X2520   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X2522   0.000000  0.0000000  0.000000 0.000000 0.000000 2.0642505  0.000000
## X2525   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X2530   0.000000  0.0000000  0.000000 0.000000 0.000000 0.6739996  0.000000
## X2602   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
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## X2606   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8318344  0.000000
## X2607   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X2608   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X2710   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X2713   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X2714   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X2716  11.630333  0.0000000  0.000000 0.000000 0.000000 0.8210008  0.000000
## X2804   0.000000  0.0000000  0.000000 0.000000 0.000000 0.7152984  0.000000
## X2811   0.000000  0.0000000  0.000000 0.000000 0.000000 0.7152984  0.000000
## X2825   0.000000  0.0000000 36.550000 0.000000 0.000000 0.0000000 36.550000
## X2826   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
## X2832   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
## X2833   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
## X2835   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
## X2836   0.000000  0.0000000  0.000000 0.000000 0.000000 5.1619441  0.000000
## X2901   0.000000  0.0000000  0.000000 0.000000 0.000000 0.7152984  0.000000
## X2903   0.000000  0.0000000  0.000000 4.937404 4.937404 1.5868028  0.000000
## X2907   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
## X2915   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
## X2933   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
## X3105   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X3202   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
## X3204   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8309536  0.000000
## X3205   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X3206   0.000000  0.0000000  0.000000 3.069033 3.069033 0.9863409  0.000000
## X3207   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X3208   0.000000  0.0000000 10.359833 4.551788 4.551788 0.7314362 10.359833
## X3209   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X3210   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
## X3211   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X3212   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X3214   0.000000  0.0000000  0.000000 4.937404 4.937404 1.5868028  0.000000
## X3215   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X3302   0.000000  4.0335710  0.000000 0.000000 0.000000 1.0682561  0.000000
## X3303   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8318344  0.000000
## X3304   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8318344  0.000000
## X3305   0.000000  0.0000000  0.000000 0.000000 0.000000 0.7063569  0.000000
## X3307   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8318344  0.000000
## X3402   0.000000  2.2935182  0.000000 0.000000 0.000000 0.9111323  0.000000
## X3403   0.000000  0.0000000  0.000000 0.000000 0.000000 1.1796859  0.000000
## X3506   0.000000  2.3140559  0.000000 1.906928 1.906928 0.9192910  0.000000
## X3507   0.000000  4.0335710  0.000000 0.000000 0.000000 1.0682561  0.000000
## X3605   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X3701   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X3707   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X3802   0.000000  0.0000000  0.000000 0.000000 0.000000 2.6467229  0.000000
## X3808   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8318344  0.000000
## X3809   0.000000  0.0000000  0.000000 0.000000 0.000000 1.0197003  0.000000
## X3810   0.000000  0.0000000 36.550000 0.000000 0.000000 0.0000000 36.550000
## X3811   0.000000  0.0000000  0.000000 0.000000 0.000000 5.1619441  0.000000
## X3814   0.000000  0.0000000  0.000000 3.069033 3.069033 0.9863409  0.000000
## X3815   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
## X3816   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8318344  0.000000
## X3819   0.000000  0.0000000  0.000000 0.000000 0.000000 5.1619441  0.000000
## X3820   0.000000  0.0000000  0.000000 0.000000 0.000000 5.1619441  0.000000
## X3823   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X3902   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
## X3908   0.000000  3.9117544  0.000000 0.000000 0.000000 1.0359943  0.000000
## X3909   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
## X3910   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
## X3911   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
## X3915   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
## X3916   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X3917   0.000000  0.0000000  0.000000 0.000000 0.000000 1.2673269  0.000000
## X3919   0.000000  0.0000000  0.000000 3.069033 3.069033 0.9863409  0.000000
## X3920   0.000000  0.0000000  0.000000 2.514410 2.514410 0.8080947  0.000000
## X3921   0.000000  0.0000000  0.000000 2.800514 2.800514 1.3500654  0.000000
## X3923   0.000000  5.3710326  0.000000 0.000000 0.000000 1.4224687  0.000000
## X3924   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X3925   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
## X3926   0.000000  0.0000000  0.000000 0.000000 0.000000 1.2480714  0.000000
## X4001   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X4005   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X4006   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X4008   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8318344  0.000000
## X4009   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X4010   0.000000  4.6347986  0.000000 0.000000 0.000000 1.8412274  0.000000
## X4012   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X4013   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
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## X4015   0.000000  0.0000000  0.000000 0.000000 0.000000 7.3745822  0.000000
## X4016   0.000000  0.0000000  0.000000 0.000000 0.000000 1.7200623  0.000000
## X4202   0.000000  0.0000000  0.000000 2.617264 2.617264 0.8411501  0.000000
## X4203   0.000000  0.0000000  0.000000 0.000000 0.000000 7.3745822  0.000000
## X4409   0.000000  3.2834817  0.000000 0.000000 0.000000 1.3044043  0.000000
## X4415   0.000000  3.2559489  0.000000 0.000000 0.000000 0.8623111  0.000000
## X4416  12.750068  0.0000000  0.000000 0.000000 0.000000 1.3500654  0.000000
## X4418   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X4420   0.000000  0.0000000  0.000000 0.000000 0.000000 2.3458591  0.000000
## X4421   0.000000  0.0000000  0.000000 0.000000 0.000000 1.2274849  0.000000
## X4602   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X4804   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
## X4808   0.000000  0.0000000  0.000000 2.585537 2.585537 1.2464304  0.000000
## X4818   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X4819   0.000000 10.3902222  0.000000 0.000000 0.000000 1.3758741  0.000000
## X4821   0.000000  4.6907200  0.000000 3.865449 3.865449 1.2422951  0.000000
## X4822   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
## X4823   0.000000  0.0000000  0.000000 0.000000 0.000000 1.3136104  0.000000
## X4901   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8318344  0.000000
## X4902   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8318344  0.000000
## X4907   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8318344  0.000000
## X4911   0.000000  3.9117544  0.000000 0.000000 0.000000 1.0359943  0.000000
## X5111  21.174254  0.0000000  0.000000 0.000000 0.000000 0.7473561  0.000000
## X5112 146.250000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X5205   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X5206   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X5208   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X5209   0.000000  4.6907200  0.000000 3.865449 3.865449 1.2422951  0.000000
## X5210   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X5211   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X5402   0.000000  0.0000000  0.000000 4.937404 4.937404 1.5868028  0.000000
## X5407   0.000000  0.0000000  0.000000 1.924158 1.924158 0.9275968  0.000000
## X5408   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X5505   0.000000  0.0000000  0.000000 0.000000 0.000000 1.8765115  0.000000
## X5508   0.000000  3.2696575  0.000000 0.000000 0.000000 1.2989125  0.000000
## X5509   0.000000  0.0000000  0.000000 4.395716 4.395716 1.4127137  0.000000
## X5511   0.000000  0.0000000  0.000000 0.000000 0.000000 2.3458591  0.000000
## X5512   0.000000  5.9915371  0.000000 0.000000 0.000000 1.5868028  0.000000
## X5513   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X5514   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X5515  30.769724  8.2014033  0.000000 0.000000 0.000000 1.0860313  0.000000
## X5516   0.000000  0.0000000  0.000000 0.000000 0.000000 0.0000000  0.000000
## X5601   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8318344  0.000000
## X5603   0.000000  3.5377218  0.000000 0.000000 0.000000 0.9369357  0.000000
## X5609   0.000000  0.0000000  0.000000 0.000000 0.000000 2.3458591  0.000000
## X5806   0.000000  4.6907200  0.000000 3.865449 3.865449 1.2422951  0.000000
## X5807   0.000000  4.6907200  0.000000 3.865449 3.865449 1.2422951  0.000000
## X5903   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
## X5907   0.000000 10.3902222  0.000000 0.000000 0.000000 1.3758741  0.000000
## X5911  16.049145  0.0000000  0.000000 3.525146 3.525146 1.1329275  0.000000
## X6002   0.000000  1.8587877  0.000000 1.531759 1.531759 0.9845755  0.000000
## X6101   0.000000 10.3902222  0.000000 0.000000 0.000000 1.3758741  0.000000
## X6103   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X6104   0.000000  0.0000000  0.000000 2.983232 2.983232 0.9587659  0.000000
## X6105   0.000000 10.3902222  0.000000 0.000000 0.000000 1.3758741  0.000000
## X6106   0.000000  0.0000000  0.000000 2.983232 2.983232 0.9587659  0.000000
## X6107   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X6109   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X6110   0.000000  6.5459935  0.000000 0.000000 0.000000 1.7336447  0.000000
## X6111   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X6112   0.000000  0.0000000  0.000000 4.684847 4.684847 1.5056354  0.000000
## X6114  15.874425  0.0000000  0.000000 3.486769 3.486769 1.1205940  0.000000
## X6115   0.000000  0.0000000  0.000000 2.850399 2.850399 0.9160757  0.000000
## X6117   0.000000 10.3902222  0.000000 0.000000 0.000000 1.3758741  0.000000
## X6201   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X6202   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X6203   0.000000  4.5533692  0.000000 3.752264 3.752264 1.2059192  0.000000
## X6204   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X6205   0.000000  3.9117544  0.000000 0.000000 0.000000 1.0359943  0.000000
## X6206   0.000000  0.0000000  0.000000 2.419319 2.419319 1.1663010  0.000000
## X6210   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X6211   0.000000  3.6033589  0.000000 2.969395 2.969395 1.4314785  0.000000
## X6212   0.000000  2.2085671  0.000000 1.819999 1.819999 1.1698462  0.000000
## X6217   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X6302   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X6303   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X6304   0.000000  0.0000000  0.000000 7.055790 7.055790 1.1338076  0.000000
## X6305   0.000000  0.0000000  0.000000 3.069033 3.069033 0.9863409  0.000000
## X6306   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
```

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## X6307   0.000000  0.0000000  0.000000 6.114286 6.114286 1.9650319  0.000000
## X6401   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8318344  0.000000
## X6403   0.000000  0.0000000  0.000000 0.000000 0.000000 1.4323592  0.000000
## X6404   0.000000  0.0000000  0.000000 0.000000 0.000000 0.8741758  0.000000
##           X8468      X8471     X8474     X8475     X8477     X8479     X8480
## X102   0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X210  10.498828  6.4376850 0.0000000  3.892129 10.498828 0.0000000  0.000000
## X401   0.000000  0.0000000 1.5349916  0.000000  0.000000 0.8023276  0.000000
## X403   4.751937  2.9137999 0.0000000  1.761641  4.751937 0.0000000  0.000000
## X406   0.000000  8.7547564 0.0000000  5.292995  0.000000 0.0000000  0.000000
## X510   0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X602   0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X603   0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X702   0.000000  1.6383915 0.0000000  1.981097  0.000000 0.4088106  0.000000
## X703   0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X709   0.000000  0.0000000 0.9738166  2.466650  0.000000 1.5270203  0.000000
## X712   0.000000  0.0000000 0.0000000  0.000000  0.000000 4.8624759 36.550000
## X713   0.000000  0.0000000 0.8240075  2.087188  0.000000 0.8614060  0.000000
## X804   0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X805   0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X808   0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X809   0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X813   0.000000  0.0000000 0.0000000  0.000000  0.000000 4.4202818  0.000000
## X901   0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X904  27.634216  0.0000000 0.0000000  0.000000 27.634216 0.0000000  0.000000
## X1001  0.000000  0.0000000 0.0000000  2.262483  0.000000 0.9337494  0.000000
## X1003  0.000000  0.0000000 1.0483345  0.000000  0.000000 0.5479566  0.000000
## X1005  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X1102  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
## X1108  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
## X1202  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X1208  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
## X1213  0.000000  0.0000000 0.0000000  4.418557  0.000000 0.9117914  0.000000
## X1214  0.000000  0.0000000 1.0424270  2.640439  0.000000 2.1794752  0.000000
## X1302  0.000000  0.0000000 0.9297407  2.355007  0.000000 1.9438749  0.000000
## X1507  0.000000 10.3902222 0.0000000  6.281773  0.000000 0.0000000  0.000000
## X1514  0.000000 10.3902222 0.0000000  6.281773  0.000000 0.0000000  0.000000
## X1517  0.000000  0.0000000 1.5349916  0.000000  0.000000 0.8023276  0.000000
## X1601 10.498828  6.4376850 0.0000000  3.892129 10.498828 0.0000000  0.000000
## X1602  5.179621  3.1760477 0.0000000  1.920192  5.179621 0.0000000  0.000000
## X1704  4.530805  0.0000000 0.0000000  0.000000  4.530805 0.6932143  0.000000
## X1806  3.168286  0.0000000 0.9274084  0.000000  3.168286 0.9694993  0.000000
## X1901  0.000000  1.8632613 0.8894700  1.126501  0.000000 0.9298392  0.000000
## X1902  0.000000 10.3902222 0.0000000  6.281773  0.000000 0.0000000  0.000000
## X1905  0.000000  0.0000000 0.8447348  0.000000  0.000000 0.8830739  0.000000
## X2001  0.000000 10.3902222 0.0000000  6.281773  0.000000 0.0000000  0.000000
## X2002  0.000000 10.3902222 0.0000000  6.281773  0.000000 0.0000000  0.000000
## X2003  0.000000 10.3902222 0.0000000  6.281773  0.000000 0.0000000  0.000000
## X2004  0.000000 10.3902222 0.0000000  6.281773  0.000000 0.0000000  0.000000
## X2005  0.000000  2.6012390 0.0000000  1.572672  0.000000 0.6490580  0.000000
## X2006  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X2007  0.000000  3.9117544 0.0000000  2.364989  0.000000 0.0000000  0.000000
## X2008  3.038677  0.0000000 0.8894700  0.000000  3.038677 0.9298392  0.000000
## X2101  0.000000 10.3902222 0.0000000  6.281773  0.000000 0.0000000  0.000000
## X2102  7.469557  0.0000000 0.0000000  0.000000  7.469557 0.0000000  0.000000
## X2103 10.498828  6.4376850 0.0000000  3.892129 10.498828 0.0000000  0.000000
## X2104 27.634216  0.0000000 0.0000000  0.000000 27.634216 0.0000000  0.000000
## X2106  5.309927  3.2559489 1.5542993  1.968499  5.309927 0.8124196  0.000000
## X2202  0.000000  3.7065030 1.7693809  2.240897  0.000000 0.9248407  0.000000
## X2206  0.000000  0.0000000 0.0000000  0.000000  0.000000 4.4202818  0.000000
## X2208  0.000000  0.0000000 0.0000000  0.000000  0.000000 1.3494883  0.000000
## X2209  0.000000 10.3902222 0.0000000  6.281773  0.000000 0.0000000  0.000000
## X2302 27.634216  0.0000000 0.0000000  0.000000 27.634216 0.0000000  0.000000
## X2309  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
## X2402  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X2403  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X2507  0.000000  0.0000000 0.0000000  0.000000  0.000000 3.4727229  0.000000
## X2508  0.000000  0.0000000 1.5349916  0.000000  0.000000 0.8023276  0.000000
## X2512  0.000000  0.0000000 0.0000000  0.000000  0.000000 9.7266107  0.000000
## X2517  0.000000  0.0000000 1.0789022  0.000000  0.000000 1.1278681  0.000000
## X2519  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
## X2520  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X2522  0.000000  0.0000000 7.4415861  0.000000  0.000000 3.8896488  0.000000
## X2525  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X2530  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X2602  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X2606  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X2607  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X2608  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
```

```
## X2710 27.634216  0.0000000 0.0000000  0.000000 27.634216 0.0000000  0.000000
## X2713  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X2714  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X2716  0.000000  0.0000000 0.0000000  1.874195  0.000000 1.5469984  0.000000
## X2804  4.404646  0.0000000 1.2893097  0.000000  4.404646 0.6739120  0.000000
## X2811  4.404646  0.0000000 1.2893097  0.000000  4.404646 0.6739120  0.000000
## X2825  0.000000  0.0000000 0.0000000  0.000000  0.000000 4.8624759 36.550000
## X2826  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
## X2832  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
## X2833  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
## X2835  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
## X2836  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X2901  4.404646  0.0000000 1.2893097  0.000000  4.404646 0.6739120  0.000000
## X2903  0.000000  0.0000000 0.0000000  3.622395  0.000000 1.4949968  0.000000
## X2907  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
## X2915  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
## X2933  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
## X3105  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X3202  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
## X3204  0.000000  0.0000000 1.4977775  0.000000  0.000000 0.7828762  0.000000
## X3205  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X3206  0.000000  0.0000000 1.7778621  0.000000  0.000000 0.9292738  0.000000
## X3207  0.000000  0.0000000 0.0000000 47.139471  0.000000 0.0000000  0.000000
## X3208  0.000000  0.0000000 0.0000000  3.339482  0.000000 1.3782362 10.359833
## X3209  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X3210  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
## X3211  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X3212  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X3214  0.000000  0.0000000 0.0000000  3.622395  0.000000 1.4949968  0.000000
## X3215  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X3302  0.000000  4.0335710 1.9255138  2.438638  0.000000 1.0064499  0.000000
## X3303  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X3304  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X3305  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X3307  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X3402  0.000000  2.2935182 1.0948623  1.386628  0.000000 0.5722762  0.000000
## X3403  0.000000  0.0000000 1.4175731  0.000000  0.000000 0.7409541  0.000000
## X3506  3.773851  2.3140559 0.0000000  1.399045  3.773851 0.0000000  0.000000
## X3507  0.000000  4.0335710 1.9255138  2.438638  0.000000 1.0064499  0.000000
## X3605 27.634216  0.0000000 0.0000000  0.000000 27.634216 0.0000000  0.000000
## X3701  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X3707  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X3802  0.000000  0.0000000 0.0000000 12.084051  0.000000 4.9871973  0.000000
## X3808  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X3809  0.000000  0.0000000 2.4506489  0.000000  0.000000 1.2809351  0.000000
## X3810  0.000000  0.0000000 0.0000000  0.000000  0.000000 4.8624759 36.550000
## X3811  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X3814  0.000000  0.0000000 1.7778621  0.000000  0.000000 0.9292738  0.000000
## X3815  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
## X3816  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X3819  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X3820  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X3823 27.634216  0.0000000 0.0000000  0.000000 27.634216 0.0000000  0.000000
## X3902  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
## X3908  0.000000  3.9117544 0.0000000  2.364989  0.000000 0.0000000  0.000000
## X3909  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
## X3910  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
## X3911  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
## X3915  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
## X3916  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X3917  0.000000  0.0000000 2.2843265  0.000000  0.000000 1.7909999  0.000000
## X3919  0.000000  0.0000000 1.7778621  0.000000  0.000000 0.9292738  0.000000
## X3920  4.976071  0.0000000 1.4565745  0.000000  4.976071 0.7613398  0.000000
## X3921  0.000000  0.0000000 1.6223118  0.000000  0.000000 0.8479691  0.000000
## X3923  0.000000  5.3710326 0.0000000  3.247247  0.000000 1.3401700  0.000000
## X3924  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X3925  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
## X3926  0.000000  0.0000000 1.1248093  1.424556  0.000000 1.1758585  0.000000
## X4001  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X4005 27.634216  0.0000000 0.0000000  0.000000 27.634216 0.0000000  0.000000
## X4006 27.634216  0.0000000 0.0000000  0.000000 27.634216 0.0000000  0.000000
## X4008  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X4009 27.634216  0.0000000 0.0000000  0.000000 27.634216 0.0000000  0.000000
## X4010  0.000000  4.6347986 2.2125227  2.802131  0.000000 2.3129335  0.000000
## X4012 27.634216  0.0000000 0.0000000  0.000000 27.634216 0.0000000  0.000000
## X4013 27.634216  0.0000000 0.0000000  0.000000 27.634216 0.0000000  0.000000
## X4015  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X4016 21.183695  0.0000000 0.0000000  0.000000 21.183695 0.0000000  0.000000
## X4202  0.000000  0.0000000 1.5161567  0.000000  0.000000 0.7924828  0.000000
```

```
## X4203  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X4409  0.000000  3.2834817 1.5674426  1.985145  0.000000 1.6385790  0.000000
## X4415  5.309927  3.2559489 1.5542993  1.968499  5.309927 0.8124196  0.000000
## X4416  0.000000  0.0000000 3.2446237  0.000000  0.000000 3.3918765  0.000000
## X4418  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X4420  0.000000  0.0000000 0.0000000  0.000000  0.000000 4.4202818  0.000000
## X4421  0.000000  0.0000000 0.0000000  0.000000  0.000000 1.1564668  0.000000
## X4602  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X4804  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
## X4808  0.000000  0.0000000 1.4977775  1.896915  0.000000 1.5657524  0.000000
## X4818  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X4819  0.000000 10.3902222 0.0000000  6.281773  0.000000 0.0000000  0.000000
## X4821  0.000000  4.6907200 0.0000000  2.835940  0.000000 0.0000000  0.000000
## X4822  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
## X4823  0.000000  0.0000000 2.3677634  2.998741  0.000000 2.4752192  0.000000
## X4901  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X4902  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X4907  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X4911  0.000000  3.9117544 0.0000000  2.364989  0.000000 0.0000000  0.000000
## X5111  0.000000  0.0000000 2.6941982  0.000000  0.000000 2.8164680  0.000000
## X5112  0.000000  0.0000000 0.0000000  0.000000  0.000000 9.7266107  0.000000
## X5205  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X5206  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X5208  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X5209  0.000000  4.6907200 0.0000000  2.835940  0.000000 0.0000000  0.000000
## X5210  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X5211  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X5402  0.000000  0.0000000 0.0000000  3.622395  0.000000 1.4949968  0.000000
## X5407  0.000000  0.0000000 1.1146471  0.000000  0.000000 0.5826176  0.000000
## X5408  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X5505  0.000000  0.0000000 0.0000000  0.000000  0.000000 3.5358935  0.000000
## X5508  0.000000  3.2696575 0.0000000  3.953574  0.000000 0.8158401  0.000000
## X5509  0.000000  0.0000000 0.0000000  0.000000  0.000000 1.3309794  0.000000
## X5511  0.000000  0.0000000 0.0000000  0.000000  0.000000 4.4202818  0.000000
## X5512  0.000000  5.9915371 0.0000000  3.622395  0.000000 1.4949968  0.000000
## X5513  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X5514  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X5515  0.000000  8.2014033 0.0000000  4.958446  0.000000 2.0463972  0.000000
## X5516  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X5601  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X5603  0.000000  3.5377218 1.6888096  2.138855  0.000000 0.8827269  0.000000
## X5609  0.000000  0.0000000 0.0000000  0.000000  0.000000 4.4202818  0.000000
## X5806  0.000000  4.6907200 0.0000000  2.835940  0.000000 0.0000000  0.000000
## X5807  0.000000  4.6907200 0.0000000  2.835940  0.000000 0.0000000  0.000000
## X5903  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
## X5907  0.000000 10.3902222 0.0000000  6.281773  0.000000 0.0000000  0.000000
## X5911  0.000000  0.0000000 0.0000000  0.000000  0.000000 2.1347597  0.000000
## X6002  0.000000  1.8587877 0.8873344  1.123797  0.000000 0.4638034  0.000000
## X6101  0.000000 10.3902222 0.0000000  6.281773  0.000000 0.0000000  0.000000
## X6103  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X6104  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X6105  0.000000 10.3902222 0.0000000  6.281773  0.000000 0.0000000  0.000000
## X6106  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X6107  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X6109  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X6110  0.000000  6.5459935 0.0000000  3.957610  0.000000 1.6333434  0.000000
## X6111  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X6112  0.000000  0.0000000 2.7138871  0.000000  0.000000 1.4185252  0.000000
## X6114  0.000000  0.0000000 0.0000000  0.000000  0.000000 2.1115196  0.000000
## X6115  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X6117  0.000000 10.3902222 0.0000000  6.281773  0.000000 0.0000000  0.000000
## X6201  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X6202  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X6203  0.000000  4.5533692 0.0000000  2.752900  0.000000 0.0000000  0.000000
## X6204  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X6205  0.000000  3.9117544 0.0000000  2.364989  0.000000 0.0000000  0.000000
## X6206  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.7325471  0.000000
## X6210  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X6211  0.000000  3.6033589 0.0000000  2.178538  0.000000 0.0000000  0.000000
## X6212  0.000000  2.2085671 1.0543091  1.335268  0.000000 0.5510794  0.000000
## X6217  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X6302  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X6303  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X6304  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X6305  0.000000  0.0000000 1.7778621  0.000000  0.000000 0.9292738  0.000000
## X6306  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
## X6307  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X6401  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
## X6403  0.000000  0.0000000 0.0000000  0.000000  0.000000 0.0000000  0.000000
```

```
## X6404  0.000000  0.0000000 3.1513815  0.000000  0.000000 1.6471994  0.000000
##           X8481     X8483     X8484     X8485     X8501     X8503     X8504
## X102  0.0000000 2.2408974  0.000000 2.2734327 1.4646099 1.3277012 0.0000000
## X210  0.0000000 0.0000000  0.000000 2.3298586 0.0000000 0.0000000 0.0000000
## X401  1.2291489 1.1470680  0.000000 1.1637221 1.4994072 1.3592461 1.1525662
## X403  0.0000000 1.0394415  0.000000 2.1090660 0.6793609 1.2317118 0.0000000
## X406  0.0000000 0.0000000  0.000000 3.1684275 0.0000000 0.0000000 0.0000000
## X510  0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X602  0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X603  0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X702  0.0000000 0.5844655  0.000000 1.7788538 0.3819972 1.0388675 0.0000000
## X703  0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X709  1.5595734 2.1831411  0.000000 0.7382793 0.4756215 0.8623233 0.0000000
## X712  0.0000000 0.0000000 36.550000 0.0000000 4.5435484 0.0000000 0.0000000
## X713  1.3196536 1.8472937  0.000000 0.6247047 0.4024536 1.0945002 0.0000000
## X804  0.0000000 0.0000000  0.000000 2.8772281 0.0000000 0.0000000 0.0000000
## X805  0.0000000 0.0000000  0.000000 2.4095943 0.0000000 1.4072205 0.0000000
## X808  0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X809  0.0000000 2.2408974  0.000000 2.2734327 1.4646099 1.3277012 0.0000000
## X813  0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X901  0.0000000 0.0000000  0.000000 0.0000000 0.0000000 1.6143715 0.0000000
## X904  0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X1001 1.4304847 1.3349588  0.000000 0.0000000 0.0000000 1.5818913 0.0000000
## X1003 0.8394571 0.7833994  0.000000 0.7947734 1.0240332 0.9283092 0.7871545
## X1005 0.0000000 0.0000000  0.000000 1.5396900 0.0000000 0.0000000 0.0000000
## X1102 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
## X1108 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
## X1202 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 4.8459256 0.0000000
## X1208 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
## X1213 1.3968453 2.6071317  0.000000 0.0000000 0.0000000 3.0893830 0.0000000
## X1214 1.6694534 2.3369546  0.000000 0.0000000 0.5091314 1.3846172 0.0000000
## X1302 1.4889858 1.3895536  0.000000 0.7048641 0.4540945 1.2349410 0.0000000
## X1507 0.0000000 0.0000000  0.000000 3.7603173 0.0000000 0.0000000 0.0000000
## X1514 0.0000000 0.0000000  0.000000 3.7603173 0.0000000 0.0000000 0.0000000
## X1517 1.2291489 1.1470680  0.000000 1.1637221 1.4994072 1.3592461 1.1525662
## X1601 0.0000000 0.0000000  0.000000 2.3298586 0.0000000 0.0000000 0.0000000
## X1602 0.0000000 1.1329931  0.000000 2.2988857 0.7405045 0.6712839 0.0000000
## X1704 0.0000000 0.9910711  0.000000 1.0054603 0.6477469 1.1743942 0.0000000
## X1806 0.7426253 0.6930339  0.000000 0.7030959 0.9059108 1.2318430 0.6963558
## X1901 0.7122460 0.6646833  0.000000 1.3486674 0.8688520 1.1814511 0.6678693
## X1902 0.0000000 0.0000000  0.000000 3.7603173 0.0000000 0.0000000 0.0000000
## X1905 0.6764242 0.6312537  0.000000 0.6404187 0.8251540 1.1220314 1.2685589
## X2001 0.0000000 0.0000000  0.000000 3.7603173 0.0000000 0.0000000 0.0000000
## X2002 0.0000000 0.0000000  0.000000 3.7603173 0.0000000 0.0000000 0.0000000
## X2003 0.0000000 0.0000000  0.000000 3.7603173 0.0000000 0.0000000 0.0000000
## X2004 0.0000000 0.0000000  0.000000 3.7603173 0.0000000 0.0000000 0.0000000
## X2005 0.0000000 0.9279418  0.000000 1.8828289 0.6064868 1.0995878 0.0000000
## X2006 0.0000000 2.1373616  0.000000 2.1683937 1.3969409 1.2663578 0.0000000
## X2007 0.0000000 1.3954415  0.000000 2.8314034 0.9120358 0.8267808 0.0000000
## X2008 0.7122460 0.6646833  0.000000 0.6743337 0.8688520 1.1814511 0.6678693
## X2101 0.0000000 0.0000000  0.000000 3.7603173 0.0000000 0.0000000 0.0000000
## X2102 0.0000000 1.6338934  0.000000 1.6576156 1.0678835 0.9680601 0.0000000
## X2103 0.0000000 0.0000000  0.000000 2.3298586 0.0000000 0.0000000 0.0000000
## X2104 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2106 1.2446096 0.0000000  0.000000 1.1783598 0.7591336 0.6881716 1.1670636
## X2202 1.4168367 0.0000000  0.000000 1.3414194 0.8641811 0.7833994 1.3285600
## X2206 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2208 0.0000000 1.9293314  0.000000 1.9573431 1.2609762 2.2862057 0.0000000
## X2209 0.0000000 0.0000000  0.000000 3.7603173 0.0000000 0.0000000 0.0000000
## X2302 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2309 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
## X2402 0.0000000 2.2408974  0.000000 2.2734327 1.4646099 1.3277012 0.0000000
## X2403 0.0000000 2.2408974  0.000000 2.2734327 1.4646099 1.3277012 0.0000000
## X2507 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 2.9416172 0.0000000
## X2508 1.2291489 1.1470680  0.000000 1.1637221 1.4994072 1.3592461 1.1525662
## X2512 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 8.2390568 0.0000000
## X2517 0.8639343 1.6124840  0.000000 0.8179477 1.0538922 0.9553771 0.0000000
## X2519 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
## X2520 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2522 5.9588682 5.5609419  0.000000 0.0000000 3.6345287 0.0000000 0.0000000
## X2525 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 8.6727652 0.0000000
## X2530 0.0000000 1.8157014  0.000000 1.8420633 1.1867098 2.1515574 0.0000000
## X2602 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2606 0.0000000 2.2408974  0.000000 2.2734327 1.4646099 1.3277012 0.0000000
## X2607 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2608 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2710 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2713 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X2714 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
```

```
## X2716 1.1849843 2.2117053  0.000000 1.1219083 0.7227660 3.9312212 0.0000000
## X2804 1.0324186 0.9634751  0.000000 0.9774636 1.2594214 1.1416938 0.9680933
## X2811 1.0324186 0.9634751  0.000000 0.9774636 1.2594214 1.1416938 0.9680933
## X2825 0.0000000 0.0000000 36.550000 0.0000000 4.5435484 0.0000000 0.0000000
## X2826 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
## X2832 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
## X2833 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
## X2835 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
## X2836 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2901 1.0324186 0.9634751  0.000000 0.9774636 1.2594214 1.1416938 0.9680933
## X2903 2.2903054 2.1373616  0.000000 0.0000000 0.0000000 1.2663578 2.1476067
## X2907 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
## X2915 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
## X2933 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
## X3105 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3202 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
## X3204 1.1993497 1.1192587  0.000000 1.1355091 1.4630559 1.3262929 1.1246237
## X3205 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X3206 1.4236280 0.0000000  0.000000 0.0000000 0.8683234 0.7871545 2.6698565
## X3207 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3208 0.0000000 0.0000000 10.359833 0.0000000 1.2878386 0.0000000 1.9798765
## X3209 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X3210 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
## X3211 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X3212 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3214 2.2903054 2.1373616  0.000000 0.0000000 0.0000000 1.2663578 2.1476067
## X3215 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X3302 1.5418605 0.0000000  0.000000 1.4597882 0.9404376 0.8525276 1.4457942
## X3303 0.0000000 2.2408974  0.000000 2.2734327 1.4646099 1.3277012 0.0000000
## X3304 0.0000000 2.2408974  0.000000 2.2734327 1.4646099 1.3277012 0.0000000
## X3305 0.0000000 1.9028696  0.000000 1.9304971 1.2436813 2.2548493 0.0000000
## X3307 0.0000000 2.2408974  0.000000 2.2734327 1.4646099 1.3277012 0.0000000
## X3402 0.8767144 0.8181687  0.000000 1.6600951 1.0694823 1.4542648 0.8220904
## X3403 1.1351258 1.0593237  0.000000 1.0747038 1.3847111 1.2552716 1.0644013
## X3506 0.0000000 0.8254951  0.000000 1.6749606 0.5395295 0.4890957 0.8294519
## X3507 1.5418605 0.0000000  0.000000 1.4597882 0.9404376 0.8525276 1.4457942
## X3605 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3701 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X3707 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X3802 7.6402923 7.1300824  0.000000 0.0000000 0.0000000 4.2244730 0.0000000
## X3808 0.0000000 2.2408974  0.000000 2.2734327 1.4646099 1.3277012 0.0000000
## X3809 1.9623645 1.8313205  0.000000 0.9289546 1.7953795 1.6275518 0.9200493
## X3810 0.0000000 0.0000000 36.550000 0.0000000 4.5435484 0.0000000 0.0000000
## X3811 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3814 1.4236280 0.0000000  0.000000 0.0000000 0.8683234 0.7871545 2.6698565
## X3815 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
## X3816 0.0000000 2.2408974  0.000000 2.2734327 1.4646099 1.3277012 0.0000000
## X3819 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3820 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3823 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3902 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
## X3908 0.0000000 1.3954415  0.000000 2.8314034 0.9120358 0.8267808 0.0000000
## X3909 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
## X3910 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
## X3911 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
## X3915 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
## X3916 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X3917 1.8291814 1.7070313  0.000000 0.8659077 1.6735298 1.0113950 0.8576068
## X3919 1.4236280 0.0000000  0.000000 0.0000000 0.8683234 0.7871545 2.6698565
## X3920 1.1663562 0.0000000  0.000000 0.0000000 0.7114041 0.6449037 2.1873718
## X3921 1.2990708 0.0000000  0.000000 0.0000000 0.7923515 0.7182843 2.4362633
## X3923 0.0000000 0.0000000  0.000000 1.9438275 0.0000000 0.0000000 0.0000000
## X3924 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3925 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
## X3926 1.8013891 1.6810949  0.000000 0.8527512 1.0987350 1.4940421 0.8445764
## X4001 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X4005 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4006 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4008 0.0000000 2.2408974  0.000000 2.2734327 1.4646099 1.3277012 0.0000000
## X4009 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4010 1.7716836 1.6533728  0.000000 1.6773779 1.0806149 0.0000000 0.0000000
## X4012 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4013 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4015 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4016 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4202 1.2140668 0.0000000  0.000000 0.0000000 0.7405045 0.6712839 2.2768477
## X4203 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4409 1.2551342 0.0000000  0.000000 1.1883242 0.7655529 0.6939908 1.1769325
## X4415 1.2446096 0.0000000  0.000000 1.1783598 0.7591336 0.6881716 1.1670636
```

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## X4416 2.5981417 1.2123206  0.000000 0.0000000 1.5847029 1.4365685 1.2181316
## X4418 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 8.6727652 0.0000000
## X4420 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4421 0.0000000 1.6533728  0.000000 1.6773779 1.0806149 0.9796014 0.0000000
## X4602 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4804 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
## X4808 2.3986993 1.1192587  0.000000 0.0000000 0.7315280 1.3262929 2.2492473
## X4818 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X4819 0.0000000 0.0000000  0.000000 3.7603173 0.0000000 0.0000000 0.0000000
## X4821 0.0000000 0.0000000  0.000000 1.6976163 0.0000000 0.0000000 1.6813424
## X4822 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
## X4823 3.7919858 1.7693809  0.000000 0.0000000 1.1564356 2.0966690 1.7778621
## X4901 0.0000000 2.2408974  0.000000 2.2734327 1.4646099 1.3277012 0.0000000
## X4902 0.0000000 2.2408974  0.000000 2.2734327 1.4646099 1.3277012 0.0000000
## X4907 0.0000000 2.2408974  0.000000 2.2734327 1.4646099 1.3277012 0.0000000
## X4911 0.0000000 1.3954415  0.000000 2.8314034 0.9120358 0.8267808 0.0000000
## X5111 2.1573863 0.0000000  0.000000 0.0000000 1.3158688 2.3857283 2.0229692
## X5112 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 8.2390568 0.0000000
## X5205 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X5206 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X5208 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X5209 0.0000000 0.0000000  0.000000 1.6976163 0.0000000 0.0000000 1.6813424
## X5210 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5211 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X5402 2.2903054 2.1373616  0.000000 0.0000000 0.0000000 1.2663578 2.1476067
## X5407 0.8925571 0.8329535  0.000000 0.8450470 1.0888084 0.9870294 1.6738921
## X5408 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5505 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5508 1.2498498 2.3327730  0.000000 2.3666421 0.7623298 1.3821379 0.0000000
## X5509 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 1.9119907
## X5511 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5512 0.0000000 0.0000000  0.000000 2.1683937 0.0000000 0.0000000 0.0000000
## X5513 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5514 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X5515 0.0000000 0.0000000  0.000000 2.9681641 0.0000000 1.7334289 0.0000000
## X5516 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5601 0.0000000 2.2408974  0.000000 2.2734327 1.4646099 1.3277012 0.0000000
## X5603 1.3523191 0.0000000  0.000000 1.2803360 0.8248295 0.7477263 1.2680622
## X5609 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5806 0.0000000 0.0000000  0.000000 1.6976163 0.0000000 0.0000000 1.6813424
## X5807 0.0000000 0.0000000  0.000000 1.6976163 0.0000000 0.0000000 1.6813424
## X5903 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
## X5907 0.0000000 0.0000000  0.000000 3.7603173 0.0000000 0.0000000 0.0000000
## X5911 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.9041391 1.5333219
## X6002 0.7105359 0.6630874  0.000000 1.3454293 0.8667659 0.7857430 1.3325316
## X6101 0.0000000 0.0000000  0.000000 3.7603173 0.0000000 0.0000000 0.0000000
## X6103 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X6104 0.0000000 1.2914175  0.000000 1.3101674 0.8440477 0.7651480 1.2976077
## X6105 0.0000000 0.0000000  0.000000 3.7603173 0.0000000 0.0000000 0.0000000
## X6106 0.0000000 1.2914175  0.000000 1.3101674 0.8440477 0.7651480 1.2976077
## X6107 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X6109 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X6110 0.0000000 0.0000000  0.000000 2.3690564 0.0000000 0.0000000 0.0000000
## X6111 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X6112 2.1731523 2.0280319  0.000000 0.0000000 1.3254850 0.0000000 2.0377529
## X6114 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 1.7885924 1.5166293
## X6115 0.0000000 1.2339153  0.000000 1.2518304 0.8064654 0.7310788 1.2398299
## X6117 0.0000000 0.0000000  0.000000 3.7603173 0.0000000 0.0000000 0.0000000
## X6201 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X6202 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X6203 0.0000000 0.0000000  0.000000 1.6479079 0.0000000 0.0000000 1.6321104
## X6204 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X6205 0.0000000 1.3954415  0.000000 2.8314034 0.9120358 0.8267808 0.0000000
## X6206 0.0000000 1.0473043  0.000000 1.0625100 0.6844999 0.6205145 1.0523244
## X6210 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X6211 0.0000000 0.0000000  0.000000 1.3040906 0.0000000 0.0000000 1.2915891
## X6212 0.8442413 0.0000000  0.000000 0.7993029 0.5149346 0.9335998 1.5832811
## X6217 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X6302 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X6303 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X6304 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 3.0690331
## X6305 1.4236280 0.0000000  0.000000 0.0000000 0.8683234 0.7871545 2.6698565
## X6306 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
## X6307 0.0000000 0.0000000  0.000000 0.0000000 0.0000000 0.0000000 2.6595103
## X6401 0.0000000 2.2408974  0.000000 2.2734327 1.4646099 1.3277012 0.0000000
## X6403 0.0000000 1.9293314  0.000000 1.9573431 1.2609762 1.1431028 0.0000000
## X6404 2.5234769 0.0000000  0.000000 0.0000000 1.5391605 1.3952830 2.3662503
##           X8509     X8511     X8512     X8514     X8515     X8516     X8517
## X102  0.0000000 2.1886896 0.0000000 0.0000000 1.6328933 1.6736711 2.3649893
```

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## X210  0.0000000 0.0000000 0.0000000 0.0000000 1.6734212 0.0000000 2.4236876
## X401  2.0430009 1.1203440 2.0430009 1.5252634 1.6716882 1.7134347 1.2105879
## X403  0.0000000 1.0152250 0.0000000 0.0000000 1.5148382 0.7763338 2.1940030
## X406  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 3.2960278
## X510  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X602  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X603  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X702  0.0000000 0.5708489 0.0000000 0.0000000 0.4258882 0.4365237 1.2336615
## X703  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X709  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.5435122 0.0000000
## X712  0.0000000 0.0000000 0.0000000 9.2438197 0.0000000 0.0000000 0.0000000
## X713  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.4599002 0.0000000
## X804  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X805  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X808  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X809  0.0000000 2.1886896 0.0000000 0.0000000 1.6328933 1.6736711 2.3649893
## X813  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X901  0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X904  0.0000000 0.0000000 0.0000000 0.0000000 4.4046459 0.0000000 0.0000000
## X1001 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.9970483 0.0000000
## X1003 1.3952830 0.7651480 1.3952830 1.0416905 1.1416938 1.1702048 0.8267808
## X1005 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X1102 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
## X1108 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
## X1202 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X1208 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
## X1213 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.9736017 0.0000000
## X1214 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.5818053 0.0000000
## X1302 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.5189124 0.0000000
## X1507 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 3.9117544
## X1514 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 3.9117544
## X1517 2.0430009 1.1203440 2.0430009 1.5252634 1.6716882 1.7134347 1.2105879
## X1601 0.0000000 0.0000000 0.0000000 0.0000000 1.6734212 0.0000000 2.4236876
## X1602 0.0000000 1.1065970 0.0000000 0.0000000 1.6511761 0.8462052 2.3914672
## X1704 0.0000000 0.9679814 0.0000000 0.0000000 1.4443452 0.7402072 1.0459525
## X1806 1.2343360 0.6768878 1.2343360 0.9215308 1.5149986 1.0352213 0.7314111
## X1901 1.1838417 0.6491978 1.1838417 0.8838329 0.9686822 0.9928727 1.4029812
## X1902 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 3.9117544
## X1905 1.1243013 1.2330939 1.1243013 0.8393812 0.9199633 0.9429372 0.6662098
## X2001 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 3.9117544
## X2002 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 3.9117544
## X2003 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 3.9117544
## X2004 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 3.9117544
## X2005 0.0000000 0.9063229 0.0000000 0.0000000 0.6761717 0.6930575 1.9586547
## X2006 0.0000000 2.0875660 0.0000000 0.0000000 1.5574491 1.5963428 2.2557201
## X2007 0.0000000 1.3629309 0.0000000 0.0000000 1.0168283 1.0422213 2.9454307
## X2008 1.1838417 0.6491978 1.1838417 0.8838329 1.4530233 0.9928727 0.7014906
## X2101 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 3.9117544
## X2102 0.0000000 1.5958274 0.0000000 0.0000000 2.3811659 1.2203150 1.7243718
## X2103 0.0000000 0.0000000 0.0000000 0.0000000 1.6734212 0.0000000 2.4236876
## X2104 0.0000000 0.0000000 0.0000000 0.0000000 4.4046459 0.0000000 0.0000000
## X2106 2.0686986 0.0000000 2.0686986 1.5444487 1.6927153 0.8674934 1.2258151
## X2202 2.3549622 0.0000000 2.3549622 1.7581672 0.9634751 0.9875356 1.3954415
## X2206 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2208 0.0000000 1.8843824 0.0000000 0.0000000 1.4058621 1.4409702 2.0361700
## X2209 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 3.9117544
## X2302 0.0000000 0.0000000 0.0000000 0.0000000 4.4046459 0.0000000 0.0000000
## X2309 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
## X2402 0.0000000 2.1886896 0.0000000 0.0000000 1.6328933 1.6736711 2.3649893
## X2403 0.0000000 2.1886896 0.0000000 0.0000000 1.6328933 1.6736711 2.3649893
## X2507 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2508 2.0430009 1.1203440 2.0430009 1.5252634 1.6716882 1.7134347 1.2105879
## X2512 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2517 0.0000000 0.7874585 0.0000000 0.0000000 0.5874918 0.6021630 0.8508883
## X2519 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
## X2520 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2522 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2525 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2530 0.0000000 1.7733997 0.0000000 0.0000000 1.3230624 1.3561028 1.9162476
## X2602 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2606 0.0000000 2.1886896 0.0000000 0.0000000 1.6328933 1.6736711 2.3649893
## X2607 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2608 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2710 0.0000000 0.0000000 0.0000000 0.0000000 4.4046459 0.0000000 0.0000000
## X2713 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2714 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2716 0.0000000 1.0800888 0.0000000 0.0000000 0.8058114 1.6518693 1.1670902
## X2804 1.7160098 0.9410284 1.7160098 1.2811385 2.1061921 1.4391929 1.0168283
## X2811 1.7160098 0.9410284 1.7160098 1.2811385 2.1061921 1.4391929 1.0168283
```

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## X2825 0.0000000 0.0000000 0.0000000 9.2438197 0.0000000 0.0000000 0.0000000
## X2826 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
## X2832 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
## X2833 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
## X2835 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
## X2836 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2901 1.7160098 0.9410284 1.7160098 1.2811385 2.1061921 1.4391929 1.0168283
## X2903 0.0000000 2.0875660 0.0000000 0.0000000 0.0000000 1.5963428 0.0000000
## X2907 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
## X2915 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
## X2933 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
## X3105 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3202 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
## X3204 1.9934707 1.0931826 1.9934707 1.4882851 1.6311602 1.6718946 1.1812386
## X3205 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3206 2.3662503 1.2976077 2.3662503 1.7665947 0.9680933 0.9922692 0.0000000
## X3207 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3208 0.0000000 1.9245250 0.0000000 2.6200960 0.0000000 0.0000000 0.0000000
## X3209 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3210 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
## X3211 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3212 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3214 0.0000000 2.0875660 0.0000000 0.0000000 0.0000000 1.5963428 0.0000000
## X3215 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3302 2.5627679 0.0000000 2.5627679 1.9133106 1.0484935 1.0746772 1.5185773
## X3303 0.0000000 2.1886896 0.0000000 0.0000000 1.6328933 1.6736711 2.3649893
## X3304 0.0000000 2.1886896 0.0000000 0.0000000 1.6328933 1.6736711 2.3649893
## X3305 0.0000000 1.8585371 0.0000000 0.0000000 1.3865799 1.4212066 2.0082429
## X3307 0.0000000 2.1886896 0.0000000 0.0000000 1.6328933 1.6736711 2.3649893
## X3402 1.4572094 0.7991073 1.4572094 1.0879235 1.1923650 1.2221414 1.7269509
## X3403 1.8867224 1.0346439 1.8867224 1.4085891 1.5438135 1.5823666 1.1179846
## X3506 0.0000000 1.6125259 0.0000000 0.0000000 1.2030421 0.6165426 1.7424150
## X3507 2.5627679 0.0000000 2.5627679 1.9133106 1.0484935 1.0746772 1.5185773
## X3605 0.0000000 0.0000000 0.0000000 0.0000000 4.4046459 0.0000000 0.0000000
## X3701 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3707 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3802 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 5.3252805 0.0000000
## X3808 0.0000000 2.1886896 0.0000000 0.0000000 1.6328933 1.6736711 2.3649893
## X3809 1.6308484 0.8943275 1.6308484 1.2175588 1.3344449 1.3677695 0.9663657
## X3810 0.0000000 0.0000000 0.0000000 9.2438197 0.0000000 0.0000000 0.0000000
## X3811 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3814 2.3662503 1.2976077 2.3662503 1.7665947 0.9680933 0.9922692 0.0000000
## X3815 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
## X3816 0.0000000 2.1886896 0.0000000 0.0000000 1.6328933 1.6736711 2.3649893
## X3819 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3820 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3823 0.0000000 0.0000000 0.0000000 0.0000000 4.4046459 0.0000000 0.0000000
## X3902 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
## X3908 0.0000000 1.3629309 0.0000000 0.0000000 1.0168283 1.0422213 2.9454307
## X3909 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
## X3910 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
## X3911 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
## X3915 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
## X3916 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3917 1.5201647 0.8336307 1.5201647 1.1349246 1.2438781 1.2749410 0.9007798
## X3919 2.3662503 1.2976077 2.3662503 1.7665947 0.9680933 0.9922692 0.0000000
## X3920 1.9386314 1.0631098 1.9386314 1.4473433 1.5862880 0.8129509 0.0000000
## X3921 2.1592202 1.1840764 2.1592202 1.6120302 0.8833922 0.9054529 0.0000000
## X3923 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 2.0221101
## X3924 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3925 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
## X3926 1.4970675 0.8209647 1.4970675 1.1176807 1.2249788 1.8833546 0.8870934
## X4001 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4005 0.0000000 0.0000000 0.0000000 0.0000000 4.4046459 0.0000000 0.0000000
## X4006 0.0000000 0.0000000 0.0000000 0.0000000 4.4046459 0.0000000 0.0000000
## X4008 0.0000000 2.1886896 0.0000000 0.0000000 1.6328933 1.6736711 2.3649893
## X4009 0.0000000 0.0000000 0.0000000 0.0000000 4.4046459 0.0000000 0.0000000
## X4010 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 1.7449299
## X4012 0.0000000 0.0000000 0.0000000 0.0000000 4.4046459 0.0000000 0.0000000
## X4013 0.0000000 0.0000000 0.0000000 0.0000000 4.4046459 0.0000000 0.0000000
## X4015 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4016 0.0000000 0.0000000 0.0000000 0.0000000 3.3764917 0.0000000 0.0000000
## X4202 2.0179326 1.1065970 2.0179326 1.5065479 0.8255880 0.8462052 0.0000000
## X4203 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4409 2.0861918 0.0000000 2.0861918 1.5575088 0.8535145 0.8748291 1.2361808
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## X4416 2.1592202 0.0000000 2.1592202 1.6120302 0.8833922 0.9054529 0.0000000
## X4418 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4420 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
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## X4421 0.0000000 1.6148530 0.0000000 0.0000000 1.2047772 1.2348637 1.7449299
## X4602 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4804 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
## X4808 1.9934707 1.0931826 1.9934707 1.4882851 0.8155801 1.6718946 0.0000000
## X4818 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4819 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 3.9117544
## X4821 0.0000000 1.6343371 0.0000000 0.0000000 0.0000000 0.0000000 1.7659834
## X4822 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
## X4823 3.1513815 0.0000000 3.1513815 2.3527574 1.2893097 2.6430144 0.0000000
## X4901 0.0000000 2.1886896 0.0000000 0.0000000 1.6328933 1.6736711 2.3649893
## X4902 0.0000000 2.1886896 0.0000000 0.0000000 1.6328933 1.6736711 2.3649893
## X4907 0.0000000 2.1886896 0.0000000 0.0000000 1.6328933 1.6736711 2.3649893
## X4911 0.0000000 1.3629309 0.0000000 0.0000000 1.0168283 1.0422213 2.9454307
## X5111 3.5858510 0.0000000 3.5858510 2.6771234 1.4670618 1.5036983 0.0000000
## X5112 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5205 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5206 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5208 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5209 0.0000000 1.6343371 0.0000000 0.0000000 0.0000000 0.0000000 1.7659834
## X5210 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5211 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5402 0.0000000 2.0875660 0.0000000 0.0000000 0.0000000 1.5963428 0.0000000
## X5407 1.4835421 1.6270952 1.4835421 1.1075829 1.2139116 1.2442262 0.8790789
## X5408 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5505 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5508 0.0000000 1.1392124 0.0000000 0.0000000 0.8499211 1.7422917 2.4619523
## X5509 0.0000000 1.8585371 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5511 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5512 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 2.2557201
## X5513 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5514 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5515 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 3.0876992
## X5516 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5601 0.0000000 2.1886896 0.0000000 0.0000000 1.6328933 1.6736711 2.3649893
## X5603 2.2477256 0.0000000 2.2477256 1.6781065 0.9196020 0.9425669 1.3318981
## X5609 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5806 0.0000000 1.6343371 0.0000000 0.0000000 0.0000000 0.0000000 1.7659834
## X5807 0.0000000 1.6343371 0.0000000 0.0000000 0.0000000 0.0000000 1.7659834
## X5903 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
## X5907 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 3.9117544
## X5911 0.0000000 1.4904548 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6002 1.1809994 1.2952781 1.1809994 0.8817108 0.9663564 0.9904888 1.3996128
## X6101 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 3.9117544
## X6103 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6104 0.0000000 2.5226609 0.0000000 0.0000000 0.9410284 0.9645284 1.3629309
## X6105 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 3.9117544
## X6106 0.0000000 2.5226609 0.0000000 0.0000000 0.9410284 0.9645284 1.3629309
## X6107 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6109 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6110 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 2.4644640
## X6111 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6112 0.0000000 1.9807834 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6114 0.0000000 1.4742289 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6115 0.0000000 2.4103359 0.0000000 0.0000000 0.8991278 0.9215814 1.3022445
## X6117 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 3.9117544
## X6201 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6202 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6203 0.0000000 1.5864815 0.0000000 0.0000000 0.0000000 0.0000000 1.7142730
## X6204 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6205 0.0000000 1.3629309 0.0000000 0.0000000 1.0168283 1.0422213 2.9454307
## X6206 0.0000000 2.0458092 0.0000000 0.0000000 0.7631486 0.7822064 1.1052997
## X6210 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6211 0.0000000 1.2554802 0.0000000 0.0000000 0.0000000 0.0000000 1.3566094
## X6212 1.4032349 0.7695087 1.4032349 1.0476273 0.5741002 0.5884370 0.8314927
## X6217 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6302 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6303 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6304 0.0000000 2.9832320 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6305 2.3662503 1.2976077 2.3662503 1.7665947 0.9680933 0.9922692 0.0000000
## X6306 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
## X6307 0.0000000 2.5851583 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6401 0.0000000 2.1886896 0.0000000 0.0000000 1.6328933 1.6736711 2.3649893
## X6403 0.0000000 1.8843824 0.0000000 0.0000000 1.4058621 1.4409702 2.0361700
## X6404 4.1943407 0.0000000 4.1943407 3.1314092 1.7160098 1.7588632 0.0000000
##          X8518     X8519     X8521      X8523     X8525     X8526     X8529
## X102  0.000000 0.0000000 3.7978668  0.0000000 3.7978668 2.8882097 2.3649893
## X210  0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 2.4236876
## X401  0.000000 2.0430009 1.9440463  0.0000000 1.9440463 1.4784128 1.2105879
## X403  0.000000 0.0000000 1.7616411  0.0000000 1.7616411 1.3396970 2.1940030
```

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## X406  0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 3.2960278
## X510  0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X602  0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X603  0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X702  0.000000 0.0000000 0.9905484  0.0000000 0.9905484 0.7532951 1.2336615
## X703  0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X709  0.000000 0.0000000 0.0000000  1.1763422 0.0000000 0.9379224 0.0000000
## X712  0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X713  0.000000 0.0000000 0.0000000  0.9953771 0.0000000 0.7936353 0.0000000
## X804  0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X805  0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X808  0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X809  0.000000 0.0000000 3.7978668  0.0000000 3.7978668 2.8882097 2.3649893
## X813  0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X901  0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X904  0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X1001 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X1003 0.000000 1.3952830 1.3277012  0.0000000 1.3277012 1.0096937 0.8267808
## X1005 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X1102 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X1108 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X1202 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X1208 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X1213 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X1214 0.000000 0.0000000 0.0000000  1.2592217 0.0000000 1.0040039 0.0000000
## X1302 0.000000 0.0000000 0.0000000  1.1230999 0.0000000 0.8954712 0.0000000
## X1507 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 3.9117544
## X1514 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 3.9117544
## X1517 0.000000 2.0430009 1.9440463  0.0000000 1.9440463 1.4784128 1.2105879
## X1601 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 2.4236876
## X1602 0.000000 0.0000000 1.9201921  0.0000000 1.9201921 1.4602722 2.3914672
## X1704 0.000000 0.0000000 1.6796629  0.0000000 1.6796629 1.2773541 1.0459525
## X1806 0.000000 1.2343360 1.1745499  0.0000000 1.1745499 0.8932248 0.7314111
## X1901 0.000000 1.1838417 1.1265013  0.0000000 1.1265013 0.8566848 1.4029812
## X1902 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 3.9117544
## X1905 1.458221 1.1243013 1.0698448  1.0204151 1.0698448 0.8135986 0.6662098
## X2001 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 3.9117544
## X2002 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 3.9117544
## X2003 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 3.9117544
## X2004 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 3.9117544
## X2005 0.000000 0.0000000 1.5726715  0.0000000 1.5726715 1.1959891 1.9586547
## X2006 0.000000 0.0000000 3.6223945  0.0000000 3.6223945 2.7547662 2.2557201
## X2007 0.000000 0.0000000 2.3649893  0.0000000 2.3649893 1.7985324 2.9454307
## X2008 0.000000 1.1838417 1.1265013  0.0000000 1.1265013 0.8566848 0.7014906
## X2101 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 3.9117544
## X2102 0.000000 0.0000000 2.7691172  0.0000000 2.7691172 2.1058643 1.7243718
## X2103 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 2.4236876
## X2104 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2106 0.000000 2.0686986 0.0000000  0.0000000 0.0000000 0.0000000 1.2258151
## X2202 0.000000 2.3549622 0.0000000  0.0000000 0.0000000 0.0000000 1.3954415
## X2206 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2208 0.000000 0.0000000 3.2698252  0.0000000 3.2698252 2.4866436 2.0361700
## X2209 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 3.9117544
## X2302 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2309 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2402 0.000000 0.0000000 3.7978668  0.0000000 3.7978668 2.8882097 2.3649893
## X2403 0.000000 0.0000000 3.7978668  0.0000000 3.7978668 2.8882097 2.3649893
## X2507 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2508 0.000000 2.0430009 1.9440463  0.0000000 1.9440463 1.4784128 1.2105879
## X2512 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2517 0.000000 0.0000000 1.3664149  1.3032827 1.3664149 2.0782693 0.8508883
## X2519 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2520 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2522 0.000000 0.0000000 0.0000000  8.9892266 0.0000000 7.1672939 0.0000000
## X2525 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2530 0.000000 0.0000000 3.0772452  0.0000000 3.0772452 2.3401900 1.9162476
## X2602 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2606 0.000000 0.0000000 3.7978668  0.0000000 3.7978668 2.8882097 2.3649893
## X2607 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2608 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2710 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2713 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X2714 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X2716 0.000000 0.0000000 1.8741945  0.0000000 1.8741945 1.4252919 1.1670902
## X2804 0.000000 1.7160098 1.6328933  0.0000000 1.6328933 1.2417867 1.0168283
## X2811 0.000000 1.7160098 1.6328933  0.0000000 1.6328933 1.2417867 1.0168283
## X2825 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2826 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2832 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
```

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## X2833 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2835 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2836 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2901 0.000000 1.7160098 1.6328933  0.0000000 1.6328933 1.2417867 1.0168283
## X2903 4.937404 0.0000000 0.0000000  3.4550296 0.0000000 0.0000000 0.0000000
## X2907 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2915 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X2933 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3105 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3202 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3204 0.000000 1.9934707 1.8969151  0.0000000 1.8969151 1.4425705 1.1812386
## X3205 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X3206 3.069033 2.3662503 0.0000000  2.1476067 0.0000000 0.0000000 0.0000000
## X3207 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3208 4.551788 0.0000000 0.0000000  3.1851882 0.0000000 0.0000000 0.0000000
## X3209 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X3210 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3211 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X3212 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3214 4.937404 0.0000000 0.0000000  3.4550296 0.0000000 0.0000000 0.0000000
## X3215 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X3302 0.000000 2.5627679 0.0000000  0.0000000 0.0000000 0.0000000 1.5185773
## X3303 0.000000 0.0000000 3.7978668  0.0000000 3.7978668 2.8882097 2.3649893
## X3304 0.000000 0.0000000 3.7978668  0.0000000 3.7978668 2.8882097 2.3649893
## X3305 0.000000 0.0000000 3.2249778  0.0000000 3.2249778 2.4525380 2.0082429
## X3307 0.000000 0.0000000 3.7978668  0.0000000 3.7978668 2.8882097 2.3649893
## X3402 0.000000 1.4572094 1.3866282  0.0000000 1.3866282 1.0545065 1.7269509
## X3403 0.000000 1.8867224 1.7953373  0.0000000 1.7953373 1.3653224 1.1179846
## X3506 1.906928 0.0000000 1.3990449  1.3344052 1.3990449 1.0639492 1.7424150
## X3507 0.000000 2.5627679 0.0000000  0.0000000 0.0000000 0.0000000 1.5185773
## X3605 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3701 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X3707 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X3802 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3808 0.000000 0.0000000 3.7978668  0.0000000 3.7978668 2.8882097 2.3649893
## X3809 0.000000 1.6308484 1.5518568  1.4801567 1.5518568 2.3603197 0.9663657
## X3810 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3811 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3814 3.069033 2.3662503 0.0000000  2.1476067 0.0000000 0.0000000 0.0000000
## X3815 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3816 0.000000 0.0000000 3.7978668  0.0000000 3.7978668 2.8882097 2.3649893
## X3819 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3820 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3823 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3902 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3908 0.000000 0.0000000 2.3649893  0.0000000 2.3649893 1.7985324 2.9454307
## X3909 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3910 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3911 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3915 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3916 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X3917 0.000000 1.5201647 1.4465342  1.3797003 1.4465342 2.2001279 0.9007798
## X3919 3.069033 2.3662503 0.0000000  2.1476067 0.0000000 0.0000000 0.0000000
## X3920 2.514410 1.9386314 0.0000000  1.7595002 0.0000000 0.0000000 0.0000000
## X3921 2.800514 2.1592202 0.0000000  1.9597063 0.0000000 0.0000000 0.0000000
## X3923 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 2.0221101
## X3924 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3925 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X3926 0.000000 1.4970675 1.4245557  0.0000000 1.4245557 1.0833497 0.8870934
## X4001 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X4005 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4006 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4008 0.000000 0.0000000 3.7978668  0.0000000 3.7978668 2.8882097 2.3649893
## X4009 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4010 0.000000 0.0000000 0.0000000  2.6726646 0.0000000 2.1309706 1.7449299
## X4012 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4013 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4015 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4016 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4202 2.617264 2.0179326 0.0000000  1.8314739 0.0000000 0.0000000 0.0000000
## X4203 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4409 0.000000 2.0861918 0.0000000  0.0000000 0.0000000 0.0000000 1.2361808
## X4415 0.000000 2.0686986 0.0000000  0.0000000 0.0000000 0.0000000 1.2258151
## X4416 0.000000 2.1592202 0.0000000  1.9597063 0.0000000 1.5625146 0.0000000
## X4418 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4420 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4421 0.000000 0.0000000 2.8021309  0.0000000 2.8021309 2.1309706 1.7449299
## X4602 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4804 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
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## X4808 2.585537 1.9934707 0.0000000  1.8092723 0.0000000 0.0000000 0.0000000
## X4818 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X4819 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 3.9117544
## X4821 3.865449 0.0000000 0.0000000  2.7049117 0.0000000 0.0000000 1.7659834
## X4822 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4823 0.000000 3.1513815 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X4901 0.000000 0.0000000 3.7978668  0.0000000 3.7978668 2.8882097 2.3649893
## X4902 0.000000 0.0000000 3.7978668  0.0000000 3.7978668 2.8882097 2.3649893
## X4907 0.000000 0.0000000 3.7978668  0.0000000 3.7978668 2.8882097 2.3649893
## X4911 0.000000 0.0000000 2.3649893  0.0000000 2.3649893 1.7985324 2.9454307
## X5111 0.000000 3.5858510 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X5112 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X5205 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X5206 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X5208 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X5209 3.865449 0.0000000 0.0000000  2.7049117 0.0000000 0.0000000 1.7659834
## X5210 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X5211 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X5402 4.937404 0.0000000 0.0000000  3.4550296 0.0000000 0.0000000 0.0000000
## X5407 1.924158 1.4835421 1.4116854  1.3464616 1.4116854 1.0735621 0.8790789
## X5408 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X5505 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X5508 0.000000 0.0000000 1.9767872  0.0000000 1.9767872 1.5033117 2.4619523
## X5509 4.395716 0.0000000 0.0000000  3.0759747 0.0000000 0.0000000 0.0000000
## X5511 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X5512 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 2.2557201
## X5513 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X5514 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X5515 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 3.0876992
## X5516 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X5601 0.000000 0.0000000 3.7978668  0.0000000 3.7978668 2.8882097 2.3649893
## X5603 0.000000 2.2477256 0.0000000  0.0000000 0.0000000 0.0000000 1.3318981
## X5609 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X5806 3.865449 0.0000000 0.0000000  2.7049117 0.0000000 0.0000000 1.7659834
## X5807 3.865449 0.0000000 0.0000000  2.7049117 0.0000000 0.0000000 1.7659834
## X5903 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X5907 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 3.9117544
## X5911 3.525146 0.0000000 0.0000000  2.4667789 0.0000000 0.0000000 0.0000000
## X6002 1.531759 1.1809994 1.1237967  1.0718742 1.1237967 0.8546280 1.3996128
## X6101 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 3.9117544
## X6103 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X6104 2.983232 0.0000000 2.1886896  2.0875660 2.1886896 1.6644596 1.3629309
## X6105 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 3.9117544
## X6106 2.983232 0.0000000 2.1886896  2.0875660 2.1886896 1.6644596 1.3629309
## X6107 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X6109 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X6110 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 2.4644640
## X6111 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X6112 4.684847 0.0000000 0.0000000  6.5565974 0.0000000 2.6138550 0.0000000
## X6114 3.486769 0.0000000 0.0000000  2.4399242 0.0000000 0.0000000 0.0000000
## X6115 2.850399 0.0000000 2.0912350  1.9946141 2.0912350 1.5903472 1.3022445
## X6117 0.000000 0.0000000 0.0000000  0.0000000 0.0000000 0.0000000 3.9117544
## X6201 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X6202 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X6203 3.752264 0.0000000 0.0000000  2.6257082 0.0000000 0.0000000 1.7142730
## X6204 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X6205 0.000000 0.0000000 2.3649893  0.0000000 2.3649893 1.7985324 2.9454307
## X6206 2.419319 0.0000000 1.7749670  1.6929585 1.7749670 1.3498311 1.1052997
## X6210 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X6211 2.969395 0.0000000 0.0000000  2.0778835 0.0000000 0.0000000 1.3566094
## X6212 1.819999 1.4032349 0.0000000  1.2735749 0.0000000 0.0000000 0.8314927
## X6217 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X6302 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X6303 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X6304 7.055790 0.0000000 0.0000000  4.9374044 0.0000000 0.0000000 0.0000000
## X6305 3.069033 2.3662503 0.0000000  2.1476067 0.0000000 0.0000000 0.0000000
## X6306 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
## X6307 6.114286 0.0000000 0.0000000  4.2785712 0.0000000 0.0000000 0.0000000
## X6401 0.000000 0.0000000 3.7978668  0.0000000 3.7978668 2.8882097 2.3649893
## X6403 0.000000 0.0000000 3.2698252  0.0000000 3.2698252 2.4866436 2.0361700
## X6404 0.000000 4.1943407 0.0000000  0.0000000 0.0000000 0.0000000 0.0000000
##           X8531    X8532     X8533     X8535     X8536     X8537     X8538
## X102  0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X210  0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 1.4916415
## X401  2.0430009 0.000000 1.1525662 1.1525662 1.2291489 0.9709911 0.7450486
## X403  0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.6751428
## X406  0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 2.0285165
## X510  0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X602  0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
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## X603  0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X702  0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.3796254
## X703  0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X709  0.0000000 0.000000 0.0000000 0.0000000 1.5595734 0.6160086 0.4726684
## X712  0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X713  0.0000000 0.000000 0.0000000 0.0000000 1.3196536 0.5212439 0.3999548
## X804  0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X805  0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X808  0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X809  0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X813  0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X901  0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X904  0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X1001 0.0000000 0.000000 0.0000000 0.0000000 1.4304847 1.1300402 0.8670880
## X1003 1.3952830 0.000000 0.7871545 0.7871545 0.8394571 0.6631464 0.5088375
## X1005 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X1102 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
## X1108 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
## X1202 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X1208 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
## X1213 0.0000000 0.000000 0.0000000 0.0000000 1.3968453 1.1034661 0.8466976
## X1214 0.0000000 0.000000 0.0000000 0.0000000 1.6694534 0.6594095 0.5059701
## X1302 0.0000000 0.000000 0.0000000 0.0000000 1.4889858 0.5881276 0.4512751
## X1507 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 2.4074607
## X1514 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 2.4074607
## X1517 2.0430009 0.000000 1.1525662 1.1525662 1.2291489 0.9709911 0.7450486
## X1601 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 1.4916415
## X1602 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.7359067
## X1704 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X1806 1.2343360 0.000000 0.6963558 0.6963558 0.7426253 0.5866522 0.4501430
## X1901 1.1838417 0.000000 0.6678693 0.6678693 0.7122460 0.5626535 0.8634573
## X1902 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 2.4074607
## X1905 1.1243013 1.458221 1.2685589 1.2685589 0.6764242 1.0687108 0.8200306
## X2001 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 2.4074607
## X2002 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 2.4074607
## X2003 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 2.4074607
## X2004 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 2.4074607
## X2005 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.6027211
## X2006 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2007 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.9063729
## X2008 1.1838417 0.000000 0.6678693 0.6678693 0.7122460 0.5626535 0.4317286
## X2101 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 2.4074607
## X2102 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2103 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 1.4916415
## X2104 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2106 2.0686986 0.000000 1.1670636 1.1670636 1.2446096 0.9832045 1.5088402
## X2202 2.3549622 0.000000 1.3285600 1.3285600 1.4168367 1.1192587 1.7176307
## X2206 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2208 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2209 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 2.4074607
## X2302 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2309 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
## X2402 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2403 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2507 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2508 2.0430009 0.000000 1.1525662 1.1525662 1.2291489 0.9709911 0.7450486
## X2512 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2517 0.0000000 0.000000 0.0000000 0.0000000 0.8639343 0.0000000 0.0000000
## X2519 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
## X2520 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2522 0.0000000 0.000000 0.0000000 0.0000000 5.9588682 0.0000000 0.0000000
## X2525 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2530 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2602 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2606 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2607 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2608 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2710 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2713 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X2714 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X2716 0.0000000 0.000000 0.0000000 0.0000000 1.1849843 0.9361024 0.7182783
## X2804 1.7160098 0.000000 0.9680933 0.9680933 1.0324186 0.8155801 0.6258008
## X2811 1.7160098 0.000000 0.9680933 0.9680933 1.0324186 0.8155801 0.6258008
## X2825 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X2826 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
## X2832 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
## X2833 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
## X2835 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
## X2836 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
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## X2901 1.7160098 0.000000 0.9680933 0.9680933 1.0324186 0.8155801 0.6258008
## X2903 0.0000000 4.937404 2.1476067 2.1476067 2.2903054 3.6185447 2.7765344
## X2907 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
## X2915 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
## X2933 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
## X3105 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3202 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
## X3204 1.9934707 0.000000 1.1246237 1.1246237 1.1993497 0.9474506 0.7269859
## X3205 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X3206 2.3662503 3.069033 2.6698565 2.6698565 1.4236280 2.2492473 1.7258638
## X3207 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3208 0.0000000 4.551788 1.9798765 1.9798765 0.0000000 1.6679665 1.2798423
## X3209 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X3210 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
## X3211 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X3212 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3214 0.0000000 4.937404 2.1476067 2.1476067 2.2903054 3.6185447 2.7765344
## X3215 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X3302 2.5627679 0.000000 1.4457942 1.4457942 1.5418605 1.2180237 1.8691967
## X3303 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3304 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3305 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3307 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3402 1.4572094 0.000000 0.8220904 0.8220904 0.8767144 0.6925786 1.0628419
## X3403 1.8867224 0.000000 1.0644013 1.0644013 1.1351258 0.8967157 0.6880567
## X3506 0.0000000 1.906928 0.8294519 0.8294519 0.0000000 0.6987803 1.0723592
## X3507 2.5627679 0.000000 1.4457942 1.4457942 1.5418605 1.2180237 1.8691967
## X3605 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3701 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X3707 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X3802 0.0000000 0.000000 0.0000000 0.0000000 7.6402923 6.0355989 4.6311546
## X3808 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3809 1.6308484 0.000000 0.9200493 0.9200493 1.9623645 0.7751050 0.5947440
## X3810 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3811 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3814 2.3662503 3.069033 2.6698565 2.6698565 1.4236280 2.2492473 1.7258638
## X3815 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
## X3816 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3819 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3820 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3823 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3902 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
## X3908 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.9063729
## X3909 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
## X3910 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
## X3911 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
## X3915 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
## X3916 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X3917 1.5201647 0.000000 0.8576068 0.8576068 1.8291814 0.7224997 0.5543796
## X3919 2.3662503 3.069033 2.6698565 2.6698565 1.4236280 2.2492473 1.7258638
## X3920 1.9386314 2.514410 2.1873718 2.1873718 1.1663562 1.8427736 1.4139739
## X3921 2.1592202 2.800514 2.4362633 2.4362633 1.2990708 2.0524545 1.5748634
## X3923 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 1.2444937
## X3924 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X3925 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
## X3926 1.4970675 0.000000 0.8445764 0.8445764 1.8013891 1.4230443 1.0919129
## X4001 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X4005 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4006 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4008 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4009 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4010 0.0000000 0.000000 0.0000000 0.0000000 1.7716836 0.0000000 1.0739053
## X4012 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4013 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4015 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4016 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4202 2.0179326 2.617264 2.2768477 2.2768477 1.2140668 1.9181534 1.4718133
## X4203 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4409 2.0861918 0.000000 1.1769325 1.1769325 1.2551342 0.9915186 1.5215991
## X4415 2.0686986 0.000000 1.1670636 1.1670636 1.2446096 0.9832045 1.5088402
## X4416 2.1592202 0.000000 1.2181316 1.2181316 2.5981417 1.0262273 0.7874317
## X4418 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4420 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4421 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4602 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4804 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
## X4808 1.9934707 2.585537 2.2492473 2.2492473 2.3986993 2.8423517 2.1809576
## X4818 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X4819 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 2.4074607
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## X4821 0.0000000 3.865449 1.6813424 1.6813424 0.0000000 1.4164635 2.1737250
## X4822 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
## X4823 3.1513815 0.000000 1.7778621 1.7778621 3.7919858 2.9955550 2.2985105
## X4901 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4902 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4907 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X4911 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.9063729
## X5111 3.5858510 0.000000 2.0229692 2.0229692 2.1573863 1.7042703 1.3076985
## X5112 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5205 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X5206 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X5208 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X5209 0.0000000 3.865449 1.6813424 1.6813424 0.0000000 1.4164635 2.1737250
## X5210 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5211 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X5402 0.0000000 4.937404 2.1476067 2.1476067 2.2903054 3.6185447 2.7765344
## X5407 1.4835421 1.924158 1.6738921 1.6738921 0.8925571 1.4101877 1.0820480
## X5408 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5505 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5508 0.0000000 0.000000 0.0000000 0.0000000 1.2498498 0.9873441 1.5151929
## X5509 0.0000000 4.395716 1.9119907 1.9119907 0.0000000 1.6107754 1.2359592
## X5511 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5512 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 1.3882672
## X5513 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5514 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X5515 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 1.9003023
## X5516 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5601 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
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## X5609 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X5806 0.0000000 3.865449 1.6813424 1.6813424 0.0000000 1.4164635 2.1737250
## X5807 0.0000000 3.865449 1.6813424 1.6813424 0.0000000 1.4164635 2.1737250
## X5903 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
## X5907 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 2.4074607
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## X6103 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X6104 0.0000000 2.983232 1.2976077 1.2976077 0.0000000 1.0931826 0.8388070
## X6105 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 2.4074607
## X6106 0.0000000 2.983232 1.2976077 1.2976077 0.0000000 1.0931826 0.8388070
## X6107 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X6109 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X6110 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 1.5167370
## X6111 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X6112 0.0000000 4.684847 2.0377529 2.0377529 2.1731523 1.7167250 1.3172550
## X6114 0.0000000 3.486769 1.5166293 1.5166293 0.0000000 1.2776995 0.9803880
## X6115 0.0000000 2.850399 1.2398299 1.2398299 0.0000000 1.0445071 0.8014580
## X6117 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 2.4074607
## X6201 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X6202 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X6203 0.0000000 3.752264 1.6321104 1.6321104 0.0000000 1.3749876 2.1100755
## X6204 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X6205 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.9063729
## X6206 0.0000000 2.419319 1.0523244 1.0523244 0.0000000 0.8865414 0.6802498
## X6210 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X6211 0.0000000 2.969395 1.2915891 1.2915891 0.0000000 1.0881122 1.6698329
## X6212 1.4032349 1.819999 1.5832811 1.5832811 0.8442413 1.3338516 1.5352122
## X6217 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X6302 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X6303 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X6304 0.0000000 7.055790 3.0690331 3.0690331 0.0000000 2.5855368 1.9838999
## X6305 2.3662503 3.069033 2.6698565 2.6698565 1.4236280 2.2492473 1.7258638
## X6306 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
## X6307 0.0000000 6.114286 2.6595103 2.6595103 0.0000000 2.2405304 1.7191743
## X6401 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6403 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## X6404 4.1943407 0.000000 2.3662503 2.3662503 2.5234769 1.9934707 1.5296038
##           X8541     X8542     X8543     X8544     X8545    X8546     X8547
## X102   0.000000  0.000000  0.000000 3.5674487 3.7978668 0.000000 0.0000000
## X210   8.623300  0.000000 10.498828 0.0000000 0.0000000 0.000000 1.6970488
## X401   0.000000  0.000000  0.000000 1.8261003 1.9440463 0.000000 0.8476457
## X403   3.903044  0.000000  4.751937 1.6547617 1.7616411 0.000000 0.7681133
## X406   0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 2.3078548
## X510   0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X602   0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X603   0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X702   0.000000  0.000000  0.000000 0.9304516 0.9905484 0.000000 0.4319014
## X703   0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
```

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## X709   2.732520  3.924187  0.000000 1.1584990 0.0000000 0.000000 0.0000000
## X712   0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X713   2.312156  3.320500  0.000000 0.9802789 0.0000000 0.000000 0.0000000
## X804   0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X805   0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X808   0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X809   0.000000  0.000000  0.000000 3.5674487 3.7978668 0.000000 0.0000000
## X813   0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X901   0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X904  22.697593  0.000000 27.634216 0.0000000 0.0000000 0.000000 0.0000000
## X1001  5.012698  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X1003  0.000000  0.000000  0.000000 1.2471492 1.3277012 0.000000 0.5789068
## X1005  5.698715  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X1102  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
## X1108  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
## X1202  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X1208  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
## X1213  4.894818  0.000000  0.000000 2.0752409 0.0000000 0.000000 0.0000000
## X1214  2.925041  4.200668  0.000000 1.2401214 0.0000000 0.000000 0.0000000
## X1302  2.608843  3.746574  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X1507  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 2.7389818
## X1514  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 2.7389818
## X1517  0.000000  0.000000  0.000000 1.8261003 1.9440463 0.000000 0.8476457
## X1601  8.623300  0.000000 10.498828 0.0000000 0.0000000 0.000000 1.6970488
## X1602  4.254326  0.000000  5.179621 1.8036934 1.9201921 0.000000 0.8372448
## X1704  3.721415  0.000000  4.530805 1.5777572 1.6796629 0.000000 0.0000000
## X1806  2.602299  0.000000  3.168286 1.1032896 1.1745499 0.000000 0.5121298
## X1901  0.000000  0.000000  0.000000 1.0581562 1.1265013 0.000000 0.9823593
## X1902  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 2.7389818
## X1905  0.000000  0.000000  0.000000 1.0049371 1.0698448 1.458221 0.9329526
## X2001  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 2.7389818
## X2002  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 2.7389818
## X2003  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 2.7389818
## X2004  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 2.7389818
## X2005  0.000000  0.000000  0.000000 1.4772570 1.5726715 0.000000 0.6857188
## X2006  0.000000  0.000000  0.000000 3.4026224 3.6223945 0.000000 0.0000000
## X2007  0.000000  0.000000  0.000000 2.2215045 2.3649893 0.000000 1.0311853
## X2008  2.495844  0.000000  3.038677 1.0581562 1.1265013 0.000000 0.4911797
## X2101  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 2.7389818
## X2102  6.135183  0.000000  7.469557 2.6011138 2.7691172 0.000000 0.0000000
## X2103  8.623300  0.000000 10.498828 0.0000000 0.0000000 0.000000 1.6970488
## X2104 22.697593  0.000000 27.634216 0.0000000 0.0000000 0.000000 0.0000000
## X2106  4.361354  0.000000  5.309927 0.0000000 0.0000000 0.000000 1.7166153
## X2202  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.9541575
## X2206  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X2208  0.000000  0.000000  0.000000 3.0714436 3.2698252 0.000000 0.0000000
## X2209  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 2.7389818
## X2302 22.697593  0.000000 27.634216 0.0000000 0.0000000 0.000000 0.0000000
## X2309  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
## X2402  0.000000  0.000000  0.000000 3.5674487 3.7978668 0.000000 0.0000000
## X2403  0.000000  0.000000  0.000000 3.5674487 3.7978668 0.000000 0.0000000
## X2507  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X2508  0.000000  0.000000  0.000000 1.8261003 1.9440463 0.000000 0.8476457
## X2512  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X2517  3.027390  4.347652  0.000000 1.2835141 1.3664149 0.000000 0.0000000
## X2519  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
## X2520  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X2522  0.000000 29.987436  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X2525  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X2530  0.000000  0.000000  0.000000 2.8905475 3.0772452 0.000000 0.0000000
## X2602  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X2606  0.000000  0.000000  0.000000 3.5674487 3.7978668 0.000000 0.0000000
## X2607  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X2608  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X2710 22.697593  0.000000 27.634216 0.0000000 0.0000000 0.000000 0.0000000
## X2713  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X2714  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X2716  0.000000  0.000000  0.000000 1.7604865 1.8741945 0.000000 0.0000000
## X2804  3.617793  0.000000  4.404646 1.5338251 1.6328933 0.000000 0.7119767
## X2811  3.617793  0.000000  4.404646 1.5338251 1.6328933 0.000000 0.7119767
## X2825  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X2826  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
## X2832  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
## X2833  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
## X2835  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
## X2836  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X2901  3.617793  0.000000  4.404646 1.5338251 1.6328933 0.000000 0.7119767
## X2903  0.000000  0.000000  0.000000 0.0000000 0.0000000 4.937404 1.5794393
## X2907  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
```

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## X2915  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
## X2933  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
## X3105  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X3202  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
## X3204  0.000000  0.000000  0.000000 1.7818286 1.8969151 0.000000 0.8270956
## X3205  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X3206  0.000000  0.000000  0.000000 0.0000000 0.0000000 3.069033 1.9635244
## X3207  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X3208  0.000000  0.000000  0.000000 0.0000000 0.0000000 4.551788 1.4560836
## X3209  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X3210  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
## X3211  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X3212  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X3214  0.000000  0.000000  0.000000 0.0000000 0.0000000 4.937404 1.5794393
## X3215  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X3302  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 2.1265951
## X3303  0.000000  0.000000  0.000000 3.5674487 3.7978668 0.000000 0.0000000
## X3304  0.000000  0.000000  0.000000 3.5674487 3.7978668 0.000000 0.0000000
## X3305  0.000000  0.000000  0.000000 3.0293171 3.2249778 0.000000 0.0000000
## X3307  0.000000  0.000000  0.000000 3.5674487 3.7978668 0.000000 0.0000000
## X3402  0.000000  0.000000  0.000000 1.3025010 1.3866282 0.000000 1.2092004
## X3403  0.000000  0.000000  0.000000 1.6864136 1.7953373 0.000000 0.7828056
## X3506  3.099685  0.000000  3.773851 1.3141644 1.3990449 1.906928 1.2200283
## X3507  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 2.1265951
## X3605 22.697593  0.000000 27.634216 0.0000000 0.0000000 0.000000 0.0000000
## X3701  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X3707  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X3802  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X3808  0.000000  0.000000  0.000000 3.5674487 3.7978668 0.000000 0.0000000
## X3809  0.000000  4.937692  0.000000 1.4577051 1.5518568 0.000000 0.6766432
## X3810  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X3811  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X3814  0.000000  0.000000  0.000000 0.0000000 0.0000000 3.069033 1.9635244
## X3815  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
## X3816  0.000000  0.000000  0.000000 3.5674487 3.7978668 0.000000 0.0000000
## X3819  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X3820  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X3823 22.697593  0.000000 27.634216 0.0000000 0.0000000 0.000000 0.0000000
## X3902  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
## X3908  0.000000  0.000000  0.000000 2.2215045 2.3649893 0.000000 1.0311853
## X3909  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
## X3910  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
## X3911  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
## X3915  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
## X3916  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X3917  0.000000  4.602576  0.000000 1.3587725 1.4465342 0.000000 0.6307204
## X3919  0.000000  0.000000  0.000000 0.0000000 0.0000000 3.069033 1.9635244
## X3920  4.087138  0.000000  4.976071 0.0000000 0.0000000 2.514410 1.6086853
## X3921  0.000000  0.000000  0.000000 0.0000000 0.0000000 2.800514 1.7917303
## X3923  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.4158673
## X3924  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X3925  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
## X3926  0.000000  0.000000  0.000000 1.3381275 1.4245557 0.000000 0.6211373
## X4001  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X4005 22.697593  0.000000 27.634216 0.0000000 0.0000000 0.000000 0.0000000
## X4006 22.697593  0.000000 27.634216 0.0000000 0.0000000 0.000000 0.0000000
## X4008  0.000000  0.000000  0.000000 3.5674487 3.7978668 0.000000 0.0000000
## X4009 22.697593  0.000000 27.634216 0.0000000 0.0000000 0.000000 0.0000000
## X4010  0.000000  8.915816  0.000000 0.0000000 0.0000000 0.000000 1.2217879
## X4012 22.697593  0.000000 27.634216 0.0000000 0.0000000 0.000000 0.0000000
## X4013 22.697593  0.000000 27.634216 0.0000000 0.0000000 0.000000 0.0000000
## X4015  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X4016 17.399405  0.000000 21.183695 0.0000000 0.0000000 0.000000 0.0000000
## X4202  0.000000  0.000000  0.000000 0.0000000 0.0000000 2.617264 1.6744896
## X4203  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X4409  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7311312
## X4415  4.361354  0.000000  5.309927 0.0000000 0.0000000 0.000000 1.7166153
## X4416  0.000000  6.537437  0.000000 0.0000000 0.0000000 0.000000 0.8958652
## X4418  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X4420  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X4421  0.000000  0.000000  0.000000 2.6321246 2.8021309 0.000000 0.0000000
## X4602  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X4804  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
## X4808  0.000000  0.000000  0.000000 0.0000000 0.0000000 2.585537 1.6541911
## X4818  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X4819  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 2.7389818
## X4821  0.000000  0.000000  0.000000 0.0000000 0.0000000 3.865449 2.4730587
## X4822  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
## X4823  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.3075139
```

```
## X4901  0.000000  0.000000  0.000000 3.5674487 3.7978668 0.000000 0.0000000
## X4902  0.000000  0.000000  0.000000 3.5674487 3.7978668 0.000000 0.0000000
## X4907  0.000000  0.000000  0.000000 3.5674487 3.7978668 0.000000 0.0000000
## X4911  0.000000  0.000000  0.000000 2.2215045 2.3649893 0.000000 1.0311853
## X5111  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.4877758
## X5112  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X5205  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X5206  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X5208  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X5209  0.000000  0.000000  0.000000 0.0000000 0.0000000 3.865449 2.4730587
## X5210  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X5211  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X5402  0.000000  0.000000  0.000000 0.0000000 0.0000000 4.937404 1.5794393
## X5407  0.000000  0.000000  0.000000 1.3260380 1.4116854 1.924158 1.2310513
## X5408  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X5505  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X5508  0.000000  0.000000  0.000000 1.8568548 1.9767872 0.000000 0.8619214
## X5509  0.000000  0.000000  0.000000 0.0000000 0.0000000 4.395716 1.4061576
## X5511  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X5512  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.5794393
## X5513  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X5514  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X5515  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 2.1619847
## X5516  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X5601  0.000000  0.000000  0.000000 3.5674487 3.7978668 0.000000 0.0000000
## X5603  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.8651723
## X5609  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 0.0000000
## X5806  0.000000  0.000000  0.000000 0.0000000 0.0000000 3.865449 2.4730587
## X5807  0.000000  0.000000  0.000000 0.0000000 0.0000000 3.865449 2.4730587
## X5903  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
## X5907  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 2.7389818
## X5911  0.000000  0.000000  0.000000 0.0000000 0.0000000 3.525146 1.1276690
## X6002  0.000000  0.000000  0.000000 1.0556156 1.1237967 1.531759 1.4700011
## X6101  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 2.7389818
## X6103  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X6104  0.000000  0.000000  0.000000 2.0559010 2.1886896 2.983232 0.9543151
## X6105  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 2.7389818
## X6106  0.000000  0.000000  0.000000 2.0559010 2.1886896 2.983232 0.9543151
## X6107  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X6109  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X6110  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7256002
## X6111  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X6112  0.000000 10.936170  0.000000 0.0000000 0.0000000 4.684847 1.4986483
## X6114  0.000000  0.000000  0.000000 0.0000000 0.0000000 3.486769 1.1153926
## X6115  0.000000  0.000000  0.000000 1.9643590 2.0912350 2.850399 0.9118229
## X6117  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 2.7389818
## X6201  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X6202  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X6203  0.000000  0.000000  0.000000 0.0000000 0.0000000 3.752264 2.4006443
## X6204  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X6205  0.000000  0.000000  0.000000 2.2215045 2.3649893 0.000000 1.0311853
## X6206  0.000000  0.000000  0.000000 1.6672791 1.7749670 2.419319 0.7739237
## X6210  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X6211  0.000000  0.000000  0.000000 0.0000000 0.0000000 2.969395 1.8997777
## X6212  0.000000  0.000000  0.000000 0.0000000 0.0000000 1.819999 1.7466183
## X6217  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X6302  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X6303  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X6304  0.000000  0.000000  0.000000 0.0000000 0.0000000 7.055790 2.2570941
## X6305  0.000000  0.000000  0.000000 0.0000000 0.0000000 3.069033 1.9635244
## X6306  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
## X6307  0.000000  0.000000  0.000000 0.0000000 0.0000000 6.114286 1.9559142
## X6401  0.000000  0.000000  0.000000 3.5674487 3.7978668 0.000000 0.0000000
## X6403  0.000000  0.000000  0.000000 3.0714436 3.2698252 0.000000 0.0000000
## X6404  0.000000  0.000000  0.000000 0.0000000 0.0000000 0.000000 1.7402388
##           X8606     X8607     X8609     X8701     X8702     X8707     X8708
## X102   0.000000  0.000000  0.000000  0.000000 3.7978668  0.000000 1.2770368
## X210   0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.3087324
## X401   0.000000  0.000000  0.000000  0.000000 1.9440463  0.000000 0.6536890
## X403   0.000000  0.000000  0.000000  0.000000 1.7616411  0.000000 1.1847105
## X406   0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7797742
## X510   0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X602   0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 3.4447398
## X603   0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X702   0.000000  0.000000  0.000000  0.000000 0.9905484  0.000000 0.6661502
## X703   0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X709   0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.4147089
## X712  36.550000 36.550000 36.550000 36.550000 0.0000000 36.550000 3.9616535
## X713   0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.7018233
```

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## X804   0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X805   0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X808   0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X809   0.000000  0.000000  0.000000  0.000000 3.7978668  0.000000 1.2770368
## X813   0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X901   0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X904   0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X1001  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X1003  0.000000  0.000000  0.000000  0.000000 1.3277012  0.000000 0.4464428
## X1005  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X1102  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X1108  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X1202  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X1208  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X1213  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.7428735
## X1214  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.3317813
## X1302  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.3959389
## X1507  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 2.1122512
## X1514  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 2.1122512
## X1517  0.000000  0.000000  0.000000  0.000000 1.9440463  0.000000 0.6536890
## X1601  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.3087324
## X1602  0.000000  0.000000  0.000000  0.000000 1.9201921  0.000000 1.2913362
## X1704  0.000000  0.000000  0.000000  0.000000 1.6796629  0.000000 0.5647900
## X1806  0.000000  0.000000  0.000000  0.000000 1.1745499  0.000000 0.3949456
## X1901  0.000000  0.000000  0.000000  0.000000 1.1265013  0.000000 0.7575786
## X1902  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 2.1122512
## X1905  0.000000  0.000000  0.000000  0.000000 1.0698448  0.000000 0.7194771
## X2001  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 2.1122512
## X2002  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 2.1122512
## X2003  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 2.1122512
## X2004  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 2.1122512
## X2005  0.000000  0.000000  0.000000  0.000000 1.5726715  0.000000 1.0576283
## X2006  0.000000  0.000000  0.000000  0.000000 3.6223945  0.000000 1.2180342
## X2007  0.000000  0.000000  0.000000  0.000000 2.3649893  0.000000 1.5904626
## X2008  0.000000  0.000000  0.000000  0.000000 1.1265013  0.000000 0.3787893
## X2101  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 2.1122512
## X2102  0.000000  0.000000  0.000000  0.000000 2.7691172  0.000000 0.9311194
## X2103  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.3087324
## X2104  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X2106  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.6619114
## X2202  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.7535053
## X2206  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X2208  0.000000  0.000000  0.000000  0.000000 3.2698252  0.000000 2.1989653
## X2209  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 2.1122512
## X2302  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X2309  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X2402  0.000000  0.000000  0.000000  0.000000 3.7978668  0.000000 1.2770368
## X2403  0.000000  0.000000  0.000000  0.000000 3.7978668  0.000000 1.2770368
## X2507  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X2508  0.000000  0.000000  0.000000  0.000000 1.9440463  0.000000 0.6536890
## X2512  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 7.9246577
## X2517  0.000000  0.000000  0.000000  0.000000 1.3664149  0.000000 0.9189206
## X2519  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X2520  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X2522  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X2525  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X2530  0.000000  0.000000  0.000000  0.000000 3.0772452  0.000000 1.0347276
## X2602  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X2606  0.000000  0.000000  0.000000  0.000000 3.7978668  0.000000 1.2770368
## X2607  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X2608  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X2710  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X2713  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X2714  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X2716  0.000000  0.000000  0.000000  0.000000 1.8741945  0.000000 1.2604028
## X2804  0.000000  0.000000  0.000000  0.000000 1.6328933  0.000000 0.5490638
## X2811  0.000000  0.000000  0.000000  0.000000 1.6328933  0.000000 0.5490638
## X2825 36.550000 36.550000 36.550000 36.550000 0.0000000 36.550000 3.9616535
## X2826  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X2832  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X2833  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X2835  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X2836  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X2901  0.000000  0.000000  0.000000  0.000000 1.6328933  0.000000 0.5490638
## X2903  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.2180342
## X2907  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X2915  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X2933  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X3105  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
```

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## X3202  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X3204  0.000000  0.000000  0.000000  0.000000 1.8969151  0.000000 0.6378412
## X3205  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X3206  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.7571171
## X3207  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X3208 10.359833 10.359833 10.359833 10.359833 0.0000000 10.359833 2.2458094
## X3209  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X3210  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X3211  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X3212  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X3214  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.2180342
## X3215  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X3302  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.8199956
## X3303  0.000000  0.000000  0.000000  0.000000 3.7978668  0.000000 1.2770368
## X3304  0.000000  0.000000  0.000000  0.000000 3.7978668  0.000000 1.2770368
## X3305  0.000000  0.000000  0.000000  0.000000 3.2249778  0.000000 1.0844027
## X3307  0.000000  0.000000  0.000000  0.000000 3.7978668  0.000000 1.2770368
## X3402  0.000000  0.000000  0.000000  0.000000 1.3866282  0.000000 0.9325141
## X3403  0.000000  0.000000  0.000000  0.000000 1.7953373  0.000000 0.6036856
## X3506  0.000000  0.000000  0.000000  0.000000 1.3990449  0.000000 1.4112965
## X3507  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.8199956
## X3605  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X3701  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X3707  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X3802  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X3808  0.000000  0.000000  0.000000  0.000000 3.7978668  0.000000 1.2770368
## X3809  0.000000  0.000000  0.000000  0.000000 1.5518568  0.000000 0.5218152
## X3810 36.550000 36.550000 36.550000 36.550000 0.0000000 36.550000 3.9616535
## X3811  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X3814  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.7571171
## X3815  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X3816  0.000000  0.000000  0.000000  0.000000 3.7978668  0.000000 1.2770368
## X3819  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X3820  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X3823  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X3902  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X3908  0.000000  0.000000  0.000000  0.000000 2.3649893  0.000000 1.5904626
## X3909  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X3910  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X3911  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X3915  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X3916  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X3917  0.000000  0.000000  0.000000  0.000000 1.4465342  0.000000 0.4864004
## X3919  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.7571171
## X3920  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.6202946
## X3921  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.6908750
## X3923  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.0918907
## X3924  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X3925  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X3926  0.000000  0.000000  0.000000  0.000000 1.4245557  0.000000 0.4790102
## X4001  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X4005  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X4006  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X4008  0.000000  0.000000  0.000000  0.000000 3.7978668  0.000000 1.2770368
## X4009  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X4010  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.9422203
## X4012  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X4013  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X4015  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X4016  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X4202  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.6456681
## X4203  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X4409  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.6675086
## X4415  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.6619114
## X4416  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.6908750
## X4418  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X4420  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X4421  0.000000  0.000000  0.000000  0.000000 2.8021309  0.000000 0.9422203
## X4602  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X4804  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X4808  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.6378412
## X4818  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X4819  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 2.1122512
## X4821  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.9071773
## X4822  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X4823  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X4901  0.000000  0.000000  0.000000  0.000000 3.7978668  0.000000 1.2770368
## X4902  0.000000  0.000000  0.000000  0.000000 3.7978668  0.000000 1.2770368
## X4907  0.000000  0.000000  0.000000  0.000000 3.7978668  0.000000 1.2770368
```

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## X4911  0.000000  0.000000  0.000000  0.000000 2.3649893  0.000000 1.5904626
## X5111  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.1473451
## X5112  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 7.9246577
## X5205  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X5206  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X5208  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X5209  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.9071773
## X5210  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X5211  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X5402  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.2180342
## X5407  0.000000  0.000000  0.000000  0.000000 1.4116854  0.000000 0.9493650
## X5408  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X5505  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X5508  0.000000  0.000000  0.000000  0.000000 1.9767872  0.000000 1.3293964
## X5509  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.0844027
## X5511  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X5512  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.2180342
## X5513  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X5514  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X5515  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 3.3345641
## X5516  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X5601  0.000000  0.000000  0.000000  0.000000 3.7978668  0.000000 1.2770368
## X5603  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.7191935
## X5609  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X5806  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.9071773
## X5807  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.9071773
## X5903  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X5907  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 2.1122512
## X5911  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7392753
## X6002  0.000000  0.000000  0.000000  0.000000 1.1237967  0.000000 1.1336395
## X6101  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 2.1122512
## X6103  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X6104  0.000000  0.000000  0.000000  0.000000 2.1886896  0.000000 1.4719009
## X6105  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 2.1122512
## X6106  0.000000  0.000000  0.000000  0.000000 2.1886896  0.000000 1.4719009
## X6107  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X6109  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X6110  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.3307507
## X6111  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X6112  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.1557297
## X6114  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7203407
## X6115  0.000000  0.000000  0.000000  0.000000 2.0912350  0.000000 1.4063626
## X6117  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 2.1122512
## X6201  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X6202  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X6203  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.8513327
## X6204  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X6205  0.000000  0.000000  0.000000  0.000000 2.3649893  0.000000 1.5904626
## X6206  0.000000  0.000000  0.000000  0.000000 1.7749670  0.000000 1.1936722
## X6210  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X6211  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.4650740
## X6212  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.8979743
## X6217  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X6302  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X6303  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X6304  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.7406286
## X6305  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.7571171
## X6306  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
## X6307  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 1.5083645
## X6401  0.000000  0.000000  0.000000  0.000000 3.7978668  0.000000 1.2770368
## X6403  0.000000  0.000000  0.000000  0.000000 3.2698252  0.000000 1.0994827
## X6404  0.000000  0.000000  0.000000  0.000000 0.0000000  0.000000 0.0000000
##           X8716     X8802     X8803     X8907     X9001     X9006     X9013
## X102   0.000000 3.7978668  0.000000  0.000000 0.0000000 3.7978668  0.000000
## X210   0.000000 0.0000000  0.000000 10.498828 0.0000000 0.0000000  0.000000
## X401   0.000000 1.9440463  0.000000  0.000000 2.0430009 1.9440463  0.000000
## X403   0.000000 1.7616411  0.000000  4.751937 0.0000000 1.7616411  0.000000
## X406   5.087622 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X510   0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X602   9.847063 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X603   0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X702   3.808458 0.9905484  0.000000  0.000000 0.0000000 0.9905484  0.000000
## X703   0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X709   3.556414 0.0000000  0.000000  0.000000 0.0000000 0.0000000  3.924187
## X712   0.000000 0.0000000 36.550000  0.000000 0.0000000 0.0000000  0.000000
## X713   3.009305 0.0000000  0.000000  0.000000 0.0000000 0.0000000  3.320500
## X804   0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X805   0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X808   0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
```

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## X809   0.000000 3.7978668  0.000000  0.000000 0.0000000 3.7978668  0.000000
## X813  10.294832 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X901   0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X904   0.000000 0.0000000  0.000000 27.634216 0.0000000 0.0000000  0.000000
## X1001  2.174697 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X1003  2.552371 1.3277012  0.000000  0.000000 1.3952830 1.3277012  0.000000
## X1005  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X1102  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
## X1108  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
## X1202  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X1208  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
## X1213  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X1214  3.806982 0.0000000  0.000000  0.000000 0.0000000 0.0000000  4.200668
## X1302  4.527263 0.0000000  0.000000  0.000000 0.0000000 0.0000000  3.746574
## X1507  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X1514  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X1517  0.000000 1.9440463  0.000000  0.000000 2.0430009 1.9440463  0.000000
## X1601  0.000000 0.0000000  0.000000 10.498828 0.0000000 0.0000000  0.000000
## X1602  0.000000 1.9201921  0.000000  5.179621 0.0000000 1.9201921  0.000000
## X1704  1.614491 1.6796629  0.000000  4.530805 0.0000000 1.6796629  0.000000
## X1806  1.128976 1.1745499  0.000000  3.168286 1.2343360 1.1745499  0.000000
## X1901  1.082792 1.1265013  0.000000  0.000000 1.1838417 1.1265013  0.000000
## X1902  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X1905  1.028334 1.0698448  0.000000  0.000000 1.1243013 1.0698448  0.000000
## X2001  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X2002  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X2003  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X2004  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X2005  1.511651 1.5726715  0.000000  0.000000 0.0000000 1.5726715  0.000000
## X2006  0.000000 3.6223945  0.000000  0.000000 0.0000000 3.6223945  0.000000
## X2007  0.000000 2.3649893  0.000000  0.000000 0.0000000 2.3649893  0.000000
## X2008  2.165585 1.1265013  0.000000  3.038677 1.1838417 1.1265013  0.000000
## X2101  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X2102  0.000000 2.7691172  0.000000  7.469557 0.0000000 2.7691172  0.000000
## X2103  0.000000 0.0000000  0.000000 10.498828 0.0000000 0.0000000  0.000000
## X2104  0.000000 0.0000000  0.000000 27.634216 0.0000000 0.0000000  0.000000
## X2106  0.000000 0.0000000  0.000000  5.309927 2.0686986 0.0000000  0.000000
## X2202  0.000000 0.0000000  0.000000  0.000000 2.3549622 0.0000000  0.000000
## X2206 10.294832 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X2208  0.000000 3.2698252  0.000000  0.000000 0.0000000 3.2698252  0.000000
## X2209  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X2302  0.000000 0.0000000  0.000000 27.634216 0.0000000 0.0000000  0.000000
## X2309  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
## X2402  0.000000 3.7978668  0.000000  0.000000 0.0000000 3.7978668  0.000000
## X2403  0.000000 3.7978668  0.000000  0.000000 0.0000000 3.7978668  0.000000
## X2507  8.087967 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X2508  0.000000 1.9440463  0.000000  0.000000 2.0430009 1.9440463  0.000000
## X2512  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X2517  3.940191 1.3664149  0.000000  0.000000 0.0000000 1.3664149  4.347652
## X2519  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
## X2520  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X2522  9.058988 0.0000000  0.000000  0.000000 0.0000000 0.0000000 29.987436
## X2525  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X2530  0.000000 3.0772452  0.000000  0.000000 0.0000000 3.0772452  0.000000
## X2602  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X2606  0.000000 3.7978668  0.000000  0.000000 0.0000000 3.7978668  0.000000
## X2607  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X2608  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X2710  0.000000 0.0000000  0.000000 27.634216 0.0000000 0.0000000  0.000000
## X2713  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X2714  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X2716  0.000000 1.8741945  0.000000  0.000000 0.0000000 1.8741945  0.000000
## X2804  0.000000 1.6328933  0.000000  4.404646 1.7160098 1.6328933  0.000000
## X2811  0.000000 1.6328933  0.000000  4.404646 1.7160098 1.6328933  0.000000
## X2825  0.000000 0.0000000 36.550000  0.000000 0.0000000 0.0000000  0.000000
## X2826  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
## X2832  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
## X2833  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
## X2835  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
## X2836 22.653275 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X2901  0.000000 1.6328933  0.000000  4.404646 1.7160098 1.6328933  0.000000
## X2903  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X2907  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
## X2915  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
## X2933  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
## X3105  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X3202  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
## X3204  0.000000 1.8969151  0.000000  0.000000 1.9934707 1.8969151  0.000000
## X3205  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
```

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## X3206  0.000000 0.0000000  0.000000  0.000000 2.3662503 0.0000000  0.000000
## X3207  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X3208  0.000000 0.0000000 10.359833  0.000000 0.0000000 0.0000000  0.000000
## X3209  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X3210  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
## X3211  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X3212  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X3214  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X3215  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X3302  0.000000 0.0000000  0.000000  0.000000 2.5627679 0.0000000  0.000000
## X3303  0.000000 3.7978668  0.000000  0.000000 0.0000000 3.7978668  0.000000
## X3304  0.000000 3.7978668  0.000000  0.000000 0.0000000 3.7978668  0.000000
## X3305  0.000000 3.2249778  0.000000  0.000000 0.0000000 3.2249778  0.000000
## X3307  0.000000 3.7978668  0.000000  0.000000 0.0000000 3.7978668  0.000000
## X3402  0.000000 1.3866282  0.000000  0.000000 1.4572094 1.3866282  0.000000
## X3403  1.725677 1.7953373  0.000000  0.000000 1.8867224 1.7953373  0.000000
## X3506  0.000000 1.3990449  0.000000  3.773851 0.0000000 1.3990449  0.000000
## X3507  0.000000 0.0000000  0.000000  0.000000 2.5627679 0.0000000  0.000000
## X3605  0.000000 0.0000000  0.000000 27.634216 0.0000000 0.0000000  0.000000
## X3701  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X3707  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X3802  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X3808  0.000000 3.7978668  0.000000  0.000000 0.0000000 3.7978668  0.000000
## X3809  1.491644 1.5518568  0.000000  0.000000 1.6308484 1.5518568  4.937692
## X3810  0.000000 0.0000000 36.550000  0.000000 0.0000000 0.0000000  0.000000
## X3811 22.653275 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X3814  0.000000 0.0000000  0.000000  0.000000 2.3662503 0.0000000  0.000000
## X3815  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
## X3816  0.000000 3.7978668  0.000000  0.000000 0.0000000 3.7978668  0.000000
## X3819 22.653275 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X3820 22.653275 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X3823  0.000000 0.0000000  0.000000 27.634216 0.0000000 0.0000000  0.000000
## X3902  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
## X3908  0.000000 2.3649893  0.000000  0.000000 0.0000000 2.3649893  0.000000
## X3909  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
## X3910  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
## X3911  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
## X3915  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
## X3916  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X3917  2.780815 1.4465342  0.000000  0.000000 1.5201647 1.4465342  4.602576
## X3919  0.000000 0.0000000  0.000000  0.000000 2.3662503 0.0000000  0.000000
## X3920  0.000000 0.0000000  0.000000  4.976071 1.9386314 0.0000000  0.000000
## X3921  1.974915 0.0000000  0.000000  0.000000 2.1592202 0.0000000  0.000000
## X3923  3.121251 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X3924  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X3925  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
## X3926  2.738564 1.4245557  0.000000  0.000000 1.4970675 1.4245557  0.000000
## X4001  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X4005  0.000000 0.0000000  0.000000 27.634216 0.0000000 0.0000000  0.000000
## X4006  0.000000 0.0000000  0.000000 27.634216 0.0000000 0.0000000  0.000000
## X4008  0.000000 3.7978668  0.000000  0.000000 0.0000000 3.7978668  0.000000
## X4009  0.000000 0.0000000  0.000000 27.634216 0.0000000 0.0000000  0.000000
## X4010  5.386812 0.0000000  0.000000  0.000000 0.0000000 0.0000000  8.915816
## X4012  0.000000 0.0000000  0.000000 27.634216 0.0000000 0.0000000  0.000000
## X4013  0.000000 0.0000000  0.000000 27.634216 0.0000000 0.0000000  0.000000
## X4015 32.363479 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X4016  7.548512 0.0000000  0.000000 21.183695 0.0000000 0.0000000  0.000000
## X4202  0.000000 0.0000000  0.000000  0.000000 2.0179326 0.0000000  0.000000
## X4203 32.363479 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X4409  1.908120 0.0000000  0.000000  0.000000 2.0861918 0.0000000  0.000000
## X4415  0.000000 0.0000000  0.000000  5.309927 2.0686986 0.0000000  0.000000
## X4416  3.949830 0.0000000  0.000000  0.000000 2.1592202 0.0000000  6.537437
## X4418  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X4420 10.294832 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X4421  2.693406 2.8021309  0.000000  0.000000 0.0000000 2.8021309  0.000000
## X4602  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X4804  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
## X4808  0.000000 0.0000000  0.000000  0.000000 1.9934707 0.0000000  0.000000
## X4818  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X4819  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X4821  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X4822  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
## X4823  0.000000 0.0000000  0.000000  0.000000 3.1513815 0.0000000  0.000000
## X4901  0.000000 3.7978668  0.000000  0.000000 0.0000000 3.7978668  0.000000
## X4902  0.000000 3.7978668  0.000000  0.000000 0.0000000 3.7978668  0.000000
## X4907  0.000000 3.7978668  0.000000  0.000000 0.0000000 3.7978668  0.000000
## X4911  0.000000 2.3649893  0.000000  0.000000 0.0000000 2.3649893  0.000000
## X5111  0.000000 0.0000000  0.000000  0.000000 3.5858510 0.0000000  0.000000
## X5112  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
```

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## X5205  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X5206  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X5208  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X5209  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X5210  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X5211  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X5402  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X5407  0.000000 1.4116854  0.000000  0.000000 1.4835421 1.4116854  0.000000
## X5408  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X5505  8.235092 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X5508  0.000000 1.9767872  0.000000  0.000000 0.0000000 1.9767872  0.000000
## X5509  3.099846 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X5511 10.294832 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X5512  3.481843 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X5513  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X5514  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X5515  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X5516  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X5601  0.000000 3.7978668  0.000000  0.000000 0.0000000 3.7978668  0.000000
## X5603  0.000000 0.0000000  0.000000  0.000000 2.2477256 0.0000000  0.000000
## X5609 10.294832 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X5806  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X5807  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X5903  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
## X5907  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X5911  2.485922 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X6002  0.000000 1.1237967  0.000000  0.000000 1.1809994 1.1237967  0.000000
## X6101  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X6103  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X6104  0.000000 2.1886896  0.000000  0.000000 0.0000000 2.1886896  0.000000
## X6105  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X6106  0.000000 2.1886896  0.000000  0.000000 0.0000000 2.1886896  0.000000
## X6107  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X6109  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X6110  3.804052 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X6111  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X6112  3.303740 0.0000000  0.000000  0.000000 0.0000000 0.0000000 10.936170
## X6114  2.458859 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X6115  0.000000 2.0912350  0.000000  0.000000 0.0000000 2.0912350  0.000000
## X6117  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X6201  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X6202  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X6203  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X6204  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X6205  0.000000 2.3649893  0.000000  0.000000 0.0000000 2.3649893  0.000000
## X6206  1.706097 1.7749670  0.000000  0.000000 0.0000000 1.7749670  0.000000
## X6210  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X6211  2.094009 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X6212  1.283459 0.0000000  0.000000  0.000000 1.4032349 0.0000000  0.000000
## X6217  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X6302  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X6303  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X6304  0.000000 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X6305  0.000000 0.0000000  0.000000  0.000000 2.3662503 0.0000000  0.000000
## X6306  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
## X6307  4.311775 0.0000000  0.000000  0.000000 0.0000000 0.0000000  0.000000
## X6401  0.000000 3.7978668  0.000000  0.000000 0.0000000 3.7978668  0.000000
## X6403  3.142953 3.2698252  0.000000  0.000000 0.0000000 3.2698252  0.000000
## X6404  0.000000 0.0000000  0.000000  0.000000 4.1943407 0.0000000  0.000000
##           X9017     X9018     X9019     X9020     X9021     X9023     X9025
## X102   0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.9440463
## X210   0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X401   0.000000 2.0430009 2.0430009 2.0430009   0.00000  0.000000 1.9902329
## X403   0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.9017473
## X406   0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X510   0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X602   0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X603   0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X702   0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.5070420
## X703   0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X709   0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X712  36.550000 0.0000000 0.0000000 0.0000000   0.00000 36.550000 0.0000000
## X713   0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X804   0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X805   0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X808   0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X809   0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.9440463
## X813   0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X901   0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
```

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## X904   0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X1001  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X1003  0.000000 1.3952830 1.3952830 1.3952830  54.93500  0.000000 1.3592461
## X1005  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X1102  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
## X1108  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
## X1202  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X1208  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
## X1213  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X1214  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X1302  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X1507  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X1514  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X1517  0.000000 2.0430009 2.0430009 2.0430009   0.00000  0.000000 1.9902329
## X1601  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X1602  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.9829061
## X1704  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.8597844
## X1806  0.000000 1.2343360 1.2343360 1.2343360   0.00000  0.000000 1.2024565
## X1901  0.000000 1.1838417 1.1838417 1.1838417   0.00000  0.000000 1.1532665
## X1902  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X1905  0.000000 1.1243013 1.1243013 1.1243013   0.00000  0.000000 1.0952641
## X2001  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X2002  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X2003  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X2004  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X2005  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.8050179
## X2006  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.8542259
## X2007  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.2105879
## X2008  0.000000 1.1838417 1.1838417 1.1838417   0.00000  0.000000 1.1532665
## X2101  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X2102  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.4174521
## X2103  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X2104  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X2106  0.000000 2.0686986 2.0686986 2.0686986   0.00000  0.000000 1.0076334
## X2202  0.000000 2.3549622 2.3549622 2.3549622   0.00000  0.000000 1.1470680
## X2206  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X2208  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.6737534
## X2209  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X2302  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X2309  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
## X2402  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.9440463
## X2403  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.9440463
## X2507  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X2508  0.000000 2.0430009 2.0430009 2.0430009   0.00000  0.000000 1.9902329
## X2512  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X2517  0.000000 0.0000000 0.0000000 0.0000000  56.53682  0.000000 0.6994397
## X2519  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
## X2520  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X2522  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X2525  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X2530  0.000000 0.0000000 0.0000000 0.0000000 127.32441  0.000000 1.5751760
## X2602  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X2606  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.9440463
## X2607  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X2608  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X2710  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X2713  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X2714  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X2716  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.9593609
## X2804  0.000000 1.7160098 1.7160098 1.7160098   0.00000  0.000000 1.6716882
## X2811  0.000000 1.7160098 1.7160098 1.7160098   0.00000  0.000000 1.6716882
## X2825 36.550000 0.0000000 0.0000000 0.0000000   0.00000 36.550000 0.0000000
## X2826  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
## X2832  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
## X2833  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
## X2835  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
## X2836  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X2901  0.000000 1.7160098 1.7160098 1.7160098   0.00000  0.000000 1.6716882
## X2903  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X2907  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
## X2915  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
## X2933  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
## X3105  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X3202  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
## X3204  0.000000 1.9934707 1.9934707 1.9934707   0.00000  0.000000 1.9419821
## X3205  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X3206  0.000000 2.3662503 2.3662503 2.3662503   0.00000  0.000000 1.1525662
## X3207  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X3208 10.359833 0.0000000 0.0000000 0.0000000   0.00000 10.359833 0.0000000
```

```
## X3209  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X3210  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
## X3211  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X3212  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X3214  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X3215  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X3302  0.000000 2.5627679 2.5627679 2.5627679   0.00000  0.000000 1.2482869
## X3303  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.9440463
## X3304  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.9440463
## X3305  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.6507970
## X3307  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.9440463
## X3402  0.000000 1.4572094 1.4572094 1.4572094   0.00000  0.000000 1.4195729
## X3403  0.000000 1.8867224 1.8867224 1.8867224   0.00000  0.000000 1.8379912
## X3506  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.7161423
## X3507  0.000000 2.5627679 2.5627679 2.5627679   0.00000  0.000000 1.2482869
## X3605  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X3701  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X3707  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X3802  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X3808  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.9440463
## X3809  0.000000 1.6308484 1.6308484 1.6308484   0.00000  0.000000 1.5887266
## X3810 36.550000 0.0000000 0.0000000 0.0000000   0.00000 36.550000 0.0000000
## X3811  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X3814  0.000000 2.3662503 2.3662503 2.3662503   0.00000  0.000000 1.1525662
## X3815  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
## X3816  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.9440463
## X3819  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X3820  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X3823  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X3902  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
## X3908  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.2105879
## X3909  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
## X3910  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
## X3911  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
## X3915  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
## X3916  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X3917  0.000000 1.5201647 1.5201647 1.5201647   0.00000  0.000000 1.4809020
## X3919  0.000000 2.3662503 2.3662503 2.3662503   0.00000  0.000000 1.1525662
## X3920  0.000000 1.9386314 1.9386314 1.9386314   0.00000  0.000000 0.9442797
## X3921  0.000000 2.1592202 2.1592202 2.1592202   0.00000  0.000000 1.0517251
## X3923  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X3924  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X3925  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
## X3926  0.000000 1.4970675 1.4970675 1.4970675   0.00000  0.000000 1.4584014
## X4001  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X4005  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X4006  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X4008  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.9440463
## X4009  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X4010  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X4012  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X4013  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X4015  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X4016  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X4202  0.000000 2.0179326 2.0179326 2.0179326   0.00000  0.000000 0.9829061
## X4203  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X4409  0.000000 2.0861918 2.0861918 2.0861918   0.00000  0.000000 1.0161541
## X4415  0.000000 2.0686986 2.0686986 2.0686986   0.00000  0.000000 1.0076334
## X4416  0.000000 2.1592202 2.1592202 2.1592202   0.00000  0.000000 1.0517251
## X4418  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X4420  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X4421  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.4343511
## X4602  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X4804  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
## X4808  0.000000 1.9934707 1.9934707 1.9934707   0.00000  0.000000 0.9709911
## X4818  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X4819  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X4821  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X4822  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
## X4823  0.000000 3.1513815 3.1513815 3.1513815   0.00000  0.000000 1.5349916
## X4901  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.9440463
## X4902  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.9440463
## X4907  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.9440463
## X4911  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.2105879
## X5111  0.000000 3.5858510 3.5858510 3.5858510   0.00000  0.000000 1.7466150
## X5112  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X5205  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X5206  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X5208  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
```

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## X5209  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X5210  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X5211  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X5402  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X5407  0.000000 1.4835421 1.4835421 1.4835421   0.00000  0.000000 1.4452253
## X5408  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X5505  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X5508  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.0118758
## X5509  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X5511  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X5512  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X5513  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X5514  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X5515  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X5516  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X5601  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.9440463
## X5603  0.000000 2.2477256 2.2477256 2.2477256   0.00000  0.000000 1.0948347
## X5609  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X5806  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X5807  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X5903  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
## X5907  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X5911  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X6002  0.000000 1.1809994 1.1809994 1.1809994   0.00000  0.000000 1.1504976
## X6101  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X6103  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X6104  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.1203440
## X6105  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X6106  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.1203440
## X6107  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X6109  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X6110  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X6111  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X6112  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X6114  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X6115  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.0704591
## X6117  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X6201  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X6202  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X6203  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X6204  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X6205  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.2105879
## X6206  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.9085685
## X6210  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X6211  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X6212  0.000000 1.4032349 1.4032349 1.4032349   0.00000  0.000000 0.6834963
## X6217  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X6302  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X6303  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X6304  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X6305  0.000000 2.3662503 2.3662503 2.3662503   0.00000  0.000000 1.1525662
## X6306  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
## X6307  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 0.0000000
## X6401  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.9440463
## X6403  0.000000 0.0000000 0.0000000 0.0000000   0.00000  0.000000 1.6737534
## X6404  0.000000 4.1943407 4.1943407 4.1943407   0.00000  0.000000 2.0430009
##           X9026     X9027     X9028    X9030     X9031     X9032     X9105
## X102  0.0000000 1.8520107  0.000000 0.000000  0.000000 1.4831419  0.000000
## X210  0.0000000 0.0000000  0.000000 0.000000  0.000000 1.5199529 10.498828
## X401  1.2291489 0.9480055  0.000000 0.000000  0.000000 1.5183793  0.000000
## X403  0.0000000 0.8590566  0.000000 0.000000  0.000000 1.3759139  4.751937
## X406  0.0000000 0.0000000  0.000000 0.000000  0.000000 2.0670179  0.000000
## X510  0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X602  0.0000000 0.0000000 23.538647 0.000000  0.000000 0.0000000  0.000000
## X603  0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X702  0.0000000 0.4830376  0.000000 0.000000  0.000000 0.7736612  0.000000
## X703  0.0000000 0.0000000 24.609007 0.000000  0.000000 0.0000000  0.000000
## X709  1.5595734 0.6014263  5.667546 0.000000  2.466650 0.0000000  0.000000
## X712  0.0000000 0.0000000  0.000000 0.000000 11.781849 0.0000000  0.000000
## X713  1.3196536 0.5089049  4.795665 0.000000  2.087188 0.0000000  0.000000
## X804  0.0000000 0.0000000 11.043838 0.000000  0.000000 0.0000000  0.000000
## X805  0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X808  0.0000000 0.0000000 72.204313 0.000000  0.000000 0.0000000  0.000000
## X809  0.0000000 1.8520107  0.000000 0.000000  0.000000 1.4831419  0.000000
## X813  0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X901  0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X904  0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000 27.634216
## X1001 1.4304847 1.1032895  5.198442 0.000000  2.262483 0.0000000  0.000000
## X1003 0.8394571 0.6474483  0.000000 0.000000  0.000000 1.0369904  0.000000
```

```
## X1005 0.0000000 0.0000000  5.909879 0.000000  0.000000 0.0000000  0.000000
## X1102 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
## X1108 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
## X1202 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X1208 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
## X1213 1.3968453 1.0773445  5.076195 0.000000  2.209279 0.0000000  0.000000
## X1214 1.6694534 0.6437998  6.066855 0.000000  2.640439 0.0000000  0.000000
## X1302 1.4889858 0.5742053  2.705513 0.000000  2.355007 0.0000000  0.000000
## X1507 0.0000000 0.0000000  0.000000 0.000000  0.000000 2.4531545  0.000000
## X1514 0.0000000 0.0000000  0.000000 0.000000  0.000000 2.4531545  0.000000
## X1517 1.2291489 0.9480055  0.000000 0.000000  0.000000 1.5183793  0.000000
## X1601 0.0000000 0.0000000  0.000000 0.000000  0.000000 1.5199529 10.498828
## X1602 0.0000000 0.9363731  0.000000 0.000000  0.000000 1.4997483  5.179621
## X1704 0.0000000 0.8190804  0.000000 0.000000  0.000000 0.6559429  4.530805
## X1806 0.7426253 0.5727648  0.000000 0.000000  0.000000 0.9173733  3.168286
## X1901 0.7122460 0.5493343  0.000000 0.000000  0.000000 1.3197684  0.000000
## X1902 0.0000000 0.0000000  0.000000 0.000000  0.000000 2.4531545  0.000000
## X1905 0.6764242 1.0434121  0.000000 1.458221  0.000000 0.8355947  0.000000
## X2001 0.0000000 0.0000000  0.000000 0.000000  0.000000 2.4531545  0.000000
## X2002 0.0000000 0.0000000  0.000000 0.000000  0.000000 2.4531545  0.000000
## X2003 0.0000000 0.0000000  0.000000 0.000000  0.000000 2.4531545  0.000000
## X2004 0.0000000 0.0000000  0.000000 0.000000  0.000000 2.4531545  0.000000
## X2005 0.0000000 0.7669066  0.000000 0.000000  0.000000 1.2283215  0.000000
## X2006 0.0000000 1.7664426  0.000000 0.000000  0.000000 1.4146166  0.000000
## X2007 0.0000000 1.1532760  0.000000 0.000000  0.000000 1.8471519  0.000000
## X2008 0.7122460 0.5493343  0.000000 0.000000  0.000000 0.8798456  3.038677
## X2101 0.0000000 0.0000000  0.000000 0.000000  0.000000 2.4531545  0.000000
## X2102 0.0000000 1.3503467  0.000000 0.000000  0.000000 1.0813956  7.469557
## X2103 0.0000000 0.0000000  0.000000 0.000000  0.000000 1.5199529 10.498828
## X2104 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000 27.634216
## X2106 1.2446096 0.0000000  0.000000 0.000000  0.000000 1.5374780  5.309927
## X2202 1.4168367 0.0000000  0.000000 0.000000  0.000000 1.7502314  0.000000
## X2206 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X2208 0.0000000 1.5945141  0.000000 0.000000  0.000000 1.2769316  0.000000
## X2209 0.0000000 0.0000000  0.000000 0.000000  0.000000 2.4531545  0.000000
## X2302 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000 27.634216
## X2309 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
## X2402 0.0000000 1.8520107  0.000000 0.000000  0.000000 1.4831419  0.000000
## X2403 0.0000000 1.8520107  0.000000 0.000000  0.000000 1.4831419  0.000000
## X2507 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X2508 1.2291489 0.9480055  0.000000 0.000000  0.000000 1.5183793  0.000000
## X2512 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X2517 0.8639343 0.6663267  3.139569 0.000000  1.366415 0.5336136  0.000000
## X2519 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
## X2520 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X2522 5.9588682 0.0000000 21.654815 0.000000  9.424674 0.0000000  0.000000
## X2525 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X2530 0.0000000 1.5006036  0.000000 0.000000  0.000000 1.2017254  0.000000
## X2602 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X2606 0.0000000 1.8520107  0.000000 0.000000  0.000000 1.4831419  0.000000
## X2607 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X2608 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X2710 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000 27.634216
## X2713 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X2714 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X2716 1.1849843 1.8278853  4.306281 0.000000  1.874195 0.7319112  0.000000
## X2804 1.0324186 0.7962734  0.000000 0.000000  0.000000 1.2753570  4.404646
## X2811 1.0324186 0.7962734  0.000000 0.000000  0.000000 1.2753570  4.404646
## X2825 0.0000000 0.0000000  0.000000 0.000000 11.781849 0.0000000  0.000000
## X2826 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
## X2832 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
## X2833 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
## X2835 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
## X2836 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X2901 1.0324186 0.7962734  0.000000 0.000000  0.000000 1.2753570  4.404646
## X2903 2.2903054 3.5328852  0.000000 4.937404  3.622395 0.0000000  0.000000
## X2907 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
## X2915 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
## X2933 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
## X3105 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X3202 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
## X3204 1.1993497 0.9250222  0.000000 0.000000  0.000000 1.4815681  0.000000
## X3205 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X3206 1.4236280 1.0980012  0.000000 3.069033  0.000000 0.8793104  0.000000
## X3207 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X3208 0.0000000 1.6284817  0.000000 4.551788  3.339482 0.0000000  0.000000
## X3209 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X3210 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
## X3211 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
```

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## X3212 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X3214 2.2903054 3.5328852  0.000000 4.937404  3.622395 0.0000000  0.000000
## X3215 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X3302 1.5418605 0.0000000  0.000000 0.000000  0.000000 1.9046741  0.000000
## X3303 0.0000000 1.8520107  0.000000 0.000000  0.000000 1.4831419  0.000000
## X3304 0.0000000 1.8520107  0.000000 0.000000  0.000000 1.4831419  0.000000
## X3305 0.0000000 1.5726445  0.000000 0.000000  0.000000 1.2594178  0.000000
## X3307 0.0000000 1.8520107  0.000000 0.000000  0.000000 1.4831419  0.000000
## X3402 0.8767144 0.6761836  0.000000 0.000000  0.000000 1.6245219  0.000000
## X3403 1.1351258 0.8754884  0.000000 0.000000  0.000000 1.4022320  0.000000
## X3506 0.0000000 1.3644772  0.000000 1.906928  0.000000 1.0927125  3.773851
## X3507 1.5418605 0.0000000  0.000000 0.000000  0.000000 1.9046741  0.000000
## X3605 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000 27.634216
## X3701 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X3707 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X3802 7.6402923 5.8927218  0.000000 0.000000 12.084051 0.0000000  0.000000
## X3808 0.0000000 1.8520107  0.000000 0.000000  0.000000 1.4831419  0.000000
## X3809 1.9623645 0.7567564  3.565654 0.000000  1.551857 1.2120644  0.000000
## X3810 0.0000000 0.0000000  0.000000 0.000000 11.781849 0.0000000  0.000000
## X3811 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X3814 1.4236280 1.0980012  0.000000 3.069033  0.000000 0.8793104  0.000000
## X3815 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
## X3816 0.0000000 1.8520107  0.000000 0.000000  0.000000 1.4831419  0.000000
## X3819 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X3820 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X3823 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000 27.634216
## X3902 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
## X3908 0.0000000 1.1532760  0.000000 0.000000  0.000000 1.8471519  0.000000
## X3909 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
## X3910 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
## X3911 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
## X3915 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
## X3916 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X3917 1.8291814 0.7053965  3.323657 0.000000  1.446534 1.1298034  0.000000
## X3919 1.4236280 1.0980012  0.000000 3.069033  0.000000 0.8793104  0.000000
## X3920 1.1663562 0.8995754  0.000000 2.514410  0.000000 0.7204056  4.976071
## X3921 1.2990708 1.0019341  0.000000 2.800514  0.000000 0.8023772  0.000000
## X3923 0.0000000 0.0000000  0.000000 0.000000  0.000000 1.2681143  0.000000
## X3924 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X3925 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
## X3926 1.8013891 1.3893576  0.000000 0.000000  1.424556 1.1126374  0.000000
## X4001 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X4005 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000 27.634216
## X4006 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000 27.634216
## X4008 0.0000000 1.8520107  0.000000 0.000000  0.000000 1.4831419  0.000000
## X4009 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000 27.634216
## X4010 1.7716836 0.0000000  6.438376 0.000000  2.802131 1.0942881  0.000000
## X4012 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000 27.634216
## X4013 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000 27.634216
## X4015 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X4016 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000 21.183695
## X4202 1.2140668 0.9363731  0.000000 2.617264  0.000000 0.7498742  0.000000
## X4203 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X4409 1.2551342 0.0000000  0.000000 0.000000  0.000000 1.5504791  0.000000
## X4415 1.2446096 0.0000000  0.000000 0.000000  0.000000 1.5374780  5.309927
## X4416 2.5981417 0.0000000  4.720877 0.000000  2.054636 0.8023772  0.000000
## X4418 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X4420 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X4421 0.0000000 1.3664456  0.000000 0.000000  0.000000 1.0942881  0.000000
## X4602 0.0000000 0.0000000 72.204313 0.000000  0.000000 0.0000000  0.000000
## X4804 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
## X4808 2.3986993 1.8500444  0.000000 2.585537  1.896915 0.7407841  0.000000
## X4818 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X4819 0.0000000 0.0000000  0.000000 0.000000  0.000000 2.4531545  0.000000
## X4821 0.0000000 1.3829325  0.000000 3.865449  0.000000 1.1074912  0.000000
## X4822 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
## X4823 3.7919858 1.4623216  0.000000 0.000000  2.998741 1.1710681  0.000000
## X4901 0.0000000 1.8520107  0.000000 0.000000  0.000000 1.4831419  0.000000
## X4902 0.0000000 1.8520107  0.000000 0.000000  0.000000 1.4831419  0.000000
## X4907 0.0000000 1.8520107  0.000000 0.000000  0.000000 1.4831419  0.000000
## X4911 0.0000000 1.1532760  0.000000 0.000000  0.000000 1.8471519  0.000000
## X5111 2.1573863 0.0000000  0.000000 0.000000  0.000000 1.3325187  0.000000
## X5112 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X5205 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X5206 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X5208 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X5209 0.0000000 1.3829325  0.000000 3.865449  0.000000 1.1074912  0.000000
## X5210 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X5211 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
```

```
## X5402 2.2903054 3.5328852  0.000000 4.937404  3.622395 0.0000000  0.000000
## X5407 0.8925571 1.3768053  0.000000 1.924158  0.000000 1.1025852  0.000000
## X5408 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X5505 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X5508 1.2498498 1.9279428  0.000000 0.000000  1.976787 1.5439513  0.000000
## X5509 0.0000000 1.5726445  0.000000 4.395716  0.000000 0.0000000  0.000000
## X5511 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X5512 0.0000000 0.0000000  0.000000 0.000000  0.000000 1.4146166  0.000000
## X5513 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X5514 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X5515 0.0000000 0.0000000  0.000000 0.000000  0.000000 1.9363702  0.000000
## X5516 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X5601 0.0000000 1.8520107  0.000000 0.000000  0.000000 1.4831419  0.000000
## X5603 1.3523191 0.0000000  0.000000 0.000000  0.000000 1.6705323  0.000000
## X5609 0.0000000 0.0000000  0.000000 0.000000  0.000000 0.0000000  0.000000
## X5806 0.0000000 1.3829325  0.000000 3.865449  0.000000 1.1074912  0.000000
## X5807 0.0000000 1.3829325  0.000000 3.865449  0.000000 1.1074912  0.000000
## X5903 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
## X5907 0.0000000 0.0000000  0.000000 0.000000  0.000000 2.4531545  0.000000
## X5911 0.0000000 1.2611832  0.000000 3.525146  0.000000 0.0000000  0.000000
## X6002 0.7105359 1.0960307  0.000000 1.531759  0.000000 1.3165998  0.000000
## X6101 0.0000000 0.0000000  0.000000 0.000000  0.000000 2.4531545  0.000000
## X6103 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X6104 0.0000000 2.1346088  0.000000 2.983232  0.000000 0.8547275  0.000000
## X6105 0.0000000 0.0000000  0.000000 0.000000  0.000000 2.4531545  0.000000
## X6106 0.0000000 2.1346088  0.000000 2.983232  0.000000 0.8547275  0.000000
## X6107 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X6109 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X6110 0.0000000 0.0000000  0.000000 0.000000  0.000000 1.5455248  0.000000
## X6111 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X6112 2.1731523 1.6760860  7.897333 4.684847  3.437103 0.0000000  0.000000
## X6114 0.0000000 1.2474533  0.000000 3.486769  0.000000 0.0000000  0.000000
## X6115 0.0000000 2.0395624  0.000000 2.850399  0.000000 0.8166697  0.000000
## X6117 0.0000000 0.0000000  0.000000 0.000000  0.000000 2.4531545  0.000000
## X6201 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X6202 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X6203 0.0000000 1.3424384  0.000000 3.752264  0.000000 1.0750624  0.000000
## X6204 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X6205 0.0000000 1.1532760  0.000000 0.000000  0.000000 1.8471519  0.000000
## X6206 0.0000000 1.7311098  0.000000 2.419319  0.000000 0.6931610  0.000000
## X6210 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X6211 0.0000000 1.0623541  0.000000 2.969395  0.000000 0.8507632  0.000000
## X6212 0.8442413 0.6511381  0.000000 1.819999  0.000000 1.0429003  0.000000
## X6217 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X6302 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X6303 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X6304 0.0000000 2.5243310  0.000000 7.055790  0.000000 0.0000000  0.000000
## X6305 1.4236280 1.0980012  0.000000 3.069033  0.000000 0.8793104  0.000000
## X6306 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
## X6307 0.0000000 2.1874917  0.000000 6.114286  0.000000 0.0000000  0.000000
## X6401 0.0000000 1.8520107  0.000000 0.000000  0.000000 1.4831419  0.000000
## X6403 0.0000000 1.5945141  0.000000 0.000000  0.000000 1.2769316  0.000000
## X6404 2.5234769 0.0000000  0.000000 0.000000  0.000000 1.5586358  0.000000
##           X9106      X9401     X9402      X9403    X9404     X9405     X9406
## X102   0.000000  3.4121669 0.0000000  0.9842930 0.000000 1.9123701 1.8969151
## X210   0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X401   0.000000  1.7466150 2.0430009  1.0076799 0.000000 1.9578042 1.9419821
## X403   0.000000  1.5827343 0.0000000  0.9131323 0.000000 0.8870543 0.8798855
## X406   0.000000  4.7554543 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X510   0.000000  0.0000000 0.0000000 17.4534449 0.000000 0.0000000 0.0000000
## X602   0.000000  0.0000000 0.0000000  2.6550772 0.000000 0.0000000 0.0000000
## X603   0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X702   0.000000  1.7799032 0.0000000  2.3105047 0.000000 0.4987803 0.4947494
## X703   0.000000  0.0000000 0.0000000  2.7758098 0.000000 0.0000000 0.0000000
## X709   3.924187  0.0000000 0.0000000  2.2375010 0.000000 0.0000000 0.0000000
## X712   0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X713   3.320500  0.0000000 0.0000000  3.2456462 0.000000 0.5254907 0.0000000
## X804   0.000000  0.0000000 0.0000000  2.4914167 0.000000 0.0000000 0.0000000
## X805   0.000000  0.0000000 0.0000000  3.1297341 0.000000 0.0000000 0.0000000
## X808   0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X809   0.000000  3.4121669 0.0000000  0.9842930 0.000000 1.9123701 1.8969151
## X813   0.000000  0.0000000 0.0000000  2.7758098 0.000000 0.0000000 0.0000000
## X901   0.000000  0.0000000 0.0000000  3.5904487 0.000000 0.0000000 0.0000000
## X904   0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X1001  0.000000  0.0000000 0.0000000  4.1045832 0.000000 1.1392471 0.0000000
## X1003  0.000000  2.3857283 1.3952830  2.4087165 0.000000 1.3370987 1.3262929
## X1005  0.000000  0.0000000 0.0000000  3.9996995 0.000000 0.0000000 0.0000000
## X1102  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
## X1108  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
```

```
## X1202  0.000000  0.0000000 0.0000000  3.5925304 0.000000 0.0000000 0.0000000
## X1208  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
## X1213  0.000000  0.0000000 0.0000000  3.4354800 0.000000 0.0000000 0.0000000
## X1214  4.200668  0.0000000 0.0000000  2.3951432 0.000000 0.0000000 0.0000000
## X1302  3.746574  0.0000000 0.0000000  2.4414064 0.000000 0.0000000 0.0000000
## X1507  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X1514  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X1517  0.000000  1.7466150 2.0430009  1.0076799 0.000000 1.9578042 1.9419821
## X1601  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X1602  0.000000  1.7251834 0.0000000  0.4976577 0.000000 0.9668907 0.9590767
## X1704  0.000000  1.5090816 0.0000000  2.1765998 0.000000 0.8457752 0.8389400
## X1806  0.000000  1.0552664 1.2343360  1.8264615 0.000000 1.1828638 1.1733045
## X1901  0.000000  1.0120976 1.1838417  1.7517453 0.000000 1.1344753 1.1253071
## X1902  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X1905  0.000000  0.9611949 1.1243013  1.6636436 1.458221 1.0774180 1.0687108
## X2001  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X2002  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X2003  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X2004  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X2005  0.000000  1.4129560 0.0000000  2.0379554 0.000000 0.7919010 0.7855013
## X2006  0.000000  3.2545150 0.0000000  1.8776321 0.000000 1.8240132 1.8092723
## X2007  0.000000  2.1248082 0.0000000  0.6129354 0.000000 1.1908627 1.1812386
## X2008  0.000000  1.0120976 1.1838417  2.3356604 0.000000 1.1344753 1.1253071
## X2101  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X2102  0.000000  2.4878941 0.0000000  0.7176729 0.000000 1.3943562 1.3830876
## X2103  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X2104  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X2106  0.000000  0.0000000 2.0686986  0.5101774 0.000000 0.9912151 0.9832045
## X2202  0.000000  0.0000000 2.3549622  1.1615492 0.000000 1.1283777 1.1192587
## X2206  0.000000  0.0000000 0.0000000  2.7758098 0.000000 0.0000000 0.0000000
## X2208  0.000000  2.9377516 0.0000000  0.8474409 0.000000 1.6464814 1.6331752
## X2209  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X2302  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X2309  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
## X2402  0.000000  3.4121669 0.0000000  0.9842930 0.000000 1.9123701 1.8969151
## X2403  0.000000  3.4121669 0.0000000  0.9842930 0.000000 1.9123701 1.8969151
## X2507  0.000000  0.0000000 0.0000000  2.1807704 0.000000 0.0000000 0.0000000
## X2508  0.000000  1.7466150 2.0430009  1.0076799 0.000000 1.9578042 1.9419821
## X2512  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X2517  4.347652  1.2276461 0.0000000  2.4789501 0.000000 0.6880431 0.6824827
## X2519  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
## X2520  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X2522 29.987436  0.0000000 0.0000000  2.4425877 0.000000 0.0000000 0.0000000
## X2525  0.000000  0.0000000 0.0000000  6.4295598 0.000000 0.0000000 0.0000000
## X2530  0.000000  2.7647295 0.0000000  1.5950603 0.000000 1.5495101 1.5369877
## X2602  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X2606  0.000000  3.4121669 0.0000000  0.9842930 0.000000 1.9123701 1.8969151
## X2607  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X2608  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X2710  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X2713  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X2714  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X2716  0.000000  1.6838572 0.0000000  1.4572097 0.000000 0.9437291 0.9361024
## X2804  0.000000  1.4670618 1.7160098  0.8463974 0.000000 1.6444499 1.6311602
## X2811  0.000000  1.4670618 1.7160098  0.8463974 0.000000 1.6444499 1.6311602
## X2825  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X2826  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
## X2832  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
## X2833  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
## X2835  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
## X2836  0.000000  0.0000000 0.0000000  6.1080298 0.000000 0.0000000 0.0000000
## X2901  0.000000  1.4670618 1.7160098  0.8463974 0.000000 1.6444499 1.6311602
## X2903  0.000000  0.0000000 0.0000000  0.0000000 4.937404 0.0000000 0.0000000
## X2907  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
## X2915  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
## X2933  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
## X3105  0.000000  0.0000000 0.0000000  6.7868153 0.000000 0.0000000 0.0000000
## X3202  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
## X3204  0.000000  1.7042703 1.9934707  0.9832501 0.000000 1.9103396 1.8949011
## X3205  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X3206  0.000000  0.0000000 2.3662503  0.5835584 3.069033 1.1337864 1.1246237
## X3207  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X3208  0.000000  0.0000000 0.0000000  0.0000000 4.551788 0.0000000 0.0000000
## X3209  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X3210  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
## X3211  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X3212  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X3214  0.000000  0.0000000 0.0000000  0.0000000 4.937404 0.0000000 0.0000000
## X3215  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
```

```
## X3302  0.000000  0.0000000 2.5627679  0.6320228 0.000000 1.2279474 1.2180237
## X3303  0.000000  3.4121669 0.0000000  0.9842930 0.000000 1.9123701 1.8969151
## X3304  0.000000  3.4121669 0.0000000  0.9842930 0.000000 1.9123701 1.8969151
## X3305  0.000000  2.8974588 0.0000000  1.6716358 0.000000 1.6238990 1.6107754
## X3307  0.000000  3.4121669 0.0000000  0.9842930 0.000000 1.9123701 1.8969151
## X3402  0.000000  1.2458066 1.4572094  1.0781232 0.000000 1.3964425 1.3851571
## X3403  0.000000  1.6130085 1.8867224  1.3958976 0.000000 1.8080432 1.7934314
## X3506  0.000000  1.2569624 0.0000000  0.3625924 1.906928 0.7044735 0.6987803
## X3507  0.000000  0.0000000 2.5627679  0.6320228 0.000000 1.2279474 1.2180237
## X3605  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X3701  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X3707  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X3802  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X3808  0.000000  3.4121669 0.0000000  0.9842930 0.000000 1.9123701 1.8969151
## X3809  4.937692  1.3942551 1.6308484  1.2065897 0.000000 1.5628401 1.5502099
## X3810  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X3811  0.000000  0.0000000 0.0000000  6.1080298 0.000000 0.0000000 0.0000000
## X3814  0.000000  0.0000000 2.3662503  0.5835584 3.069033 1.1337864 1.1246237
## X3815  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
## X3816  0.000000  3.4121669 0.0000000  0.9842930 0.000000 1.9123701 1.8969151
## X3819  0.000000  0.0000000 0.0000000  6.1080298 0.000000 0.0000000 0.0000000
## X3820  0.000000  0.0000000 0.0000000  6.1080298 0.000000 0.0000000 0.0000000
## X3823  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X3902  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
## X3908  0.000000  2.1248082 0.0000000  0.6129354 0.000000 1.1908627 1.1812386
## X3909  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
## X3910  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
## X3911  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
## X3915  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
## X3916  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X3917  4.602576  1.2996288 1.5201647  1.1247005 0.000000 1.4567723 1.4449994
## X3919  0.000000  0.0000000 2.3662503  0.5835584 3.069033 1.1337864 1.1246237
## X3920  0.000000  0.0000000 1.9386314  0.4781008 2.514410 0.9288937 0.9213868
## X3921  0.000000  0.0000000 2.1592202  1.0650030 2.800514 1.0345883 1.0262273
## X3923  0.000000  0.0000000 0.0000000  1.6831787 0.000000 0.0000000 0.0000000
## X3924  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X3925  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
## X3926  0.000000  2.5597647 1.4970675  1.4768161 0.000000 1.4346383 1.4230443
## X4001  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X4005  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X4006  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X4008  0.000000  3.4121669 0.0000000  0.9842930 0.000000 1.9123701 1.8969151
## X4009  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X4010  8.915816  0.0000000 0.0000000  0.7262290 0.000000 0.0000000 0.0000000
## X4012  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X4013  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X4015  0.000000 30.2504836 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X4016  0.000000  7.0556732 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X4202  0.000000  0.0000000 2.0179326  1.4929731 2.617264 0.9668907 0.9590767
## X4203  0.000000 30.2504836 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X4409  0.000000  0.0000000 2.0861918  1.0289831 0.000000 0.9995969 0.9915186
## X4415  0.000000  0.0000000 2.0686986  0.5101774 0.000000 0.9912151 0.9832045
## X4416  6.537437  0.0000000 2.1592202  1.0650030 0.000000 1.0345883 1.0262273
## X4418  0.000000  0.0000000 0.0000000  6.4295598 0.000000 0.0000000 0.0000000
## X4420  0.000000  0.0000000 0.0000000  2.7758098 0.000000 0.0000000 0.0000000
## X4421  0.000000  2.5175550 0.0000000  1.4524581 0.000000 1.4109798 1.3995769
## X4602  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X4804  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
## X4808  0.000000  0.0000000 1.9934707  0.4916250 2.585537 0.9551698 0.9474506
## X4818  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X4819  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X4821  0.000000  0.0000000 0.0000000  0.0000000 3.865449 0.0000000 0.0000000
## X4822  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
## X4823  0.000000  0.0000000 3.1513815  0.7771844 0.000000 1.5099805 1.4977775
## X4901  0.000000  3.4121669 0.0000000  0.9842930 0.000000 1.9123701 1.8969151
## X4902  0.000000  3.4121669 0.0000000  0.9842930 0.000000 1.9123701 1.8969151
## X4907  0.000000  3.4121669 0.0000000  0.9842930 0.000000 1.9123701 1.8969151
## X4911  0.000000  2.1248082 0.0000000  0.6129354 0.000000 1.1908627 1.1812386
## X5111  0.000000  0.0000000 3.5858510  0.8843315 0.000000 1.7181557 1.7042703
## X5112  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X5205  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X5206  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X5208  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X5209  0.000000  0.0000000 0.0000000  0.0000000 3.865449 0.0000000 0.0000000
## X5210  0.000000  0.0000000 0.0000000  9.0483937 0.000000 0.0000000 0.0000000
## X5211  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X5402  0.000000  0.0000000 0.0000000  0.0000000 4.937404 0.0000000 0.0000000
## X5407  0.000000  1.2683191 1.4835421  0.7317369 1.924158 1.4216770 1.4101877
## X5408  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
```

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## X5505  0.000000  0.0000000 0.0000000  2.2204397 0.000000 0.0000000 0.0000000
## X5508  0.000000  1.7760308 0.0000000  0.5123254 0.000000 0.9953884 0.9873441
## X5509  0.000000  0.0000000 0.0000000  0.8358179 4.395716 0.0000000 0.0000000
## X5511  0.000000  0.0000000 0.0000000  2.7758098 0.000000 0.0000000 0.0000000
## X5512  0.000000  0.0000000 0.0000000  0.9388160 0.000000 0.0000000 0.0000000
## X5513  0.000000  0.0000000 0.0000000  9.0483937 0.000000 0.0000000 0.0000000
## X5514  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X5515  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X5516  0.000000  0.0000000 0.0000000  9.0483937 0.000000 0.0000000 0.0000000
## X5601  0.000000  3.4121669 0.0000000  0.9842930 0.000000 1.9123701 1.8969151
## X5603  0.000000  0.0000000 2.2477256  1.6629850 0.000000 1.0769955 1.0682917
## X5609  0.000000  0.0000000 0.0000000  2.7758098 0.000000 0.0000000 0.0000000
## X5806  0.000000  0.0000000 0.0000000  0.0000000 3.865449 0.0000000 0.0000000
## X5807  0.000000  0.0000000 0.0000000  0.0000000 3.865449 0.0000000 0.0000000
## X5903  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
## X5907  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X5911  0.000000  0.0000000 0.0000000  2.0108551 3.525146 0.0000000 0.0000000
## X6002  0.000000  1.0096676 1.1809994  0.8737697 1.531759 1.1317515 1.1226053
## X6101  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X6103  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X6104  0.000000  1.9664130 0.0000000  0.5672440 2.983232 1.1020892 1.0931826
## X6105  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X6106  0.000000  1.9664130 0.0000000  0.5672440 2.983232 1.1020892 1.0931826
## X6107  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X6109  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X6110  0.000000  0.0000000 0.0000000  1.0256937 0.000000 0.0000000 0.0000000
## X6111  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X6112 10.936170  0.0000000 0.0000000  0.8907941 4.684847 0.0000000 0.0000000
## X6114  0.000000  0.0000000 0.0000000  1.3259760 3.486769 0.0000000 0.0000000
## X6115  0.000000  1.8788556 0.0000000  0.5419867 2.850399 1.0530171 1.0445071
## X6117  0.000000  0.0000000 0.0000000  0.0000000 0.000000 0.0000000 0.0000000
## X6201  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X6202  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X6203  0.000000  0.0000000 0.0000000  0.0000000 3.752264 0.0000000 0.0000000
## X6204  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X6205  0.000000  2.1248082 0.0000000  0.6129354 0.000000 1.1908627 1.1812386
## X6206  0.000000  1.5947069 0.0000000  1.3800595 2.419319 0.8937644 0.8865414
## X6210  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X6211  0.000000  0.0000000 0.0000000  1.1292260 2.969395 0.0000000 0.0000000
## X6212  0.000000  0.0000000 1.4032349  1.3842537 1.819999 0.6723595 0.6669258
## X6217  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X6302  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X6303  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X6304  0.000000  0.0000000 0.0000000  0.0000000 7.055790 0.0000000 0.0000000
## X6305  0.000000  0.0000000 2.3662503  0.5835584 3.069033 1.1337864 1.1246237
## X6306  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
## X6307  0.000000  4.0302619 0.0000000  0.0000000 6.114286 0.0000000 0.0000000
## X6401  0.000000  3.4121669 0.0000000  0.9842930 0.000000 1.9123701 1.8969151
## X6403  0.000000  2.9377516 0.0000000  1.6948819 0.000000 1.6464814 1.6331752
## X6404  0.000000  0.0000000 4.1943407  1.0343948 0.000000 2.0097123 1.9934707
##           X9503      X9504      X9505      X9506     X9508      X9602     X9606
## X102    0.00000   0.000000   0.000000   0.000000 3.4880824  0.0000000 0.0000000
## X210    0.00000   0.000000   0.000000   0.000000 0.0000000  2.6949529 1.6970488
## X401    0.00000   0.000000   0.000000   0.000000 1.7854745  1.3460798 0.8476457
## X403    0.00000   0.000000   0.000000   0.000000 1.6179477  1.2197804 0.7681133
## X406    0.00000   0.000000   0.000000  46.924941 0.0000000  0.0000000 2.3078548
## X510    0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X602    0.00000   0.000000   0.000000   0.000000 0.0000000  7.0934448 0.0000000
## X603    0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X702    0.00000   0.000000   2.275951   8.781659 0.9097516  0.0000000 0.4319014
## X703    0.00000   0.000000   0.000000   0.000000 0.0000000  7.4160008 0.0000000
## X709    0.00000   3.123066   2.833773   0.000000 1.1327256  0.8539689 0.0000000
## X712    0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X713    0.00000   2.642622   0.000000   0.000000 0.9584704  0.7225970 0.0000000
## X804    0.00000   0.000000   0.000000   0.000000 0.0000000  3.3280967 0.0000000
## X805    0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X808    0.00000   0.000000   0.000000   0.000000 0.0000000 21.7589888 0.0000000
## X809    0.00000   0.000000   0.000000   0.000000 3.4880824  0.0000000 0.0000000
## X813    0.00000   0.000000  24.609007   0.000000 0.0000000  0.0000000 0.0000000
## X901    0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X904    0.00000   0.000000   0.000000   0.000000 0.0000000  7.0934448 0.0000000
## X1001  28.08213   5.729140   5.198442   0.000000 2.0779372  1.5665690 0.0000000
## X1003  16.47952   3.362049   3.050618  11.770683 1.2194035  0.9193159 0.5789068
## X1005  31.92534   6.513207   5.909879   0.000000 2.3623149  1.7809628 0.0000000
## X1102   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
## X1108   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
## X1202   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X1208   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
## X1213   0.00000   0.000000   0.000000   0.000000 0.0000000  1.5297295 0.0000000
```

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## X1214   0.00000   3.343103   3.033427   0.000000 1.2125321  0.9141354 0.0000000
## X1302   0.00000   2.981713   2.705513   0.000000 1.0814574  0.0000000 0.0000000
## X1507   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.7389818
## X1514   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.7389818
## X1517   0.00000   0.000000   0.000000   0.000000 1.7854745  1.3460798 0.8476457
## X1601   0.00000   0.000000   0.000000   0.000000 0.0000000  2.6949529 1.6970488
## X1602   0.00000   0.000000   0.000000   0.000000 1.7635661  1.3295629 0.8372448
## X1704  20.84810   4.253300   7.718622   0.000000 1.5426563  1.1630179 0.0000000
## X1806  14.57859   2.974233   5.397452   0.000000 1.0787444  1.6265444 0.5121298
## X1901   0.00000   0.000000   2.588326   0.000000 1.0346151  0.7800029 0.9823593
## X1902   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.7389818
## X1905   0.00000   0.000000   2.458148   0.000000 0.9825800  0.7407733 0.9329526
## X2001   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.7389818
## X2002   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.7389818
## X2003   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.7389818
## X2004   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.7389818
## X2005   0.00000   0.000000   3.613480   0.000000 1.4443920  0.0000000 0.6857188
## X2006   0.00000   0.000000   0.000000   0.000000 3.3269231  0.0000000 0.0000000
## X2007   0.00000   0.000000   0.000000   0.000000 2.1720820  0.0000000 1.0311853
## X2008   0.00000   0.000000   2.588326   0.000000 1.0346151  1.5600058 0.4911797
## X2101   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.7389818
## X2102   0.00000   0.000000   0.000000   0.000000 2.5432460  1.9173677 0.0000000
## X2103   0.00000   0.000000   0.000000   0.000000 0.0000000  2.6949529 1.6970488
## X2104   0.00000   0.000000   0.000000   0.000000 0.0000000  7.0934448 0.0000000
## X2106   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7260225 1.7166153
## X2202   0.00000   0.000000   0.000000   0.000000 0.0000000  1.5516227 1.9541575
## X2206   0.00000   0.000000  24.609007   0.000000 0.0000000  0.0000000 0.0000000
## X2208   0.00000   0.000000   0.000000   0.000000 3.0031121  0.0000000 0.0000000
## X2209   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.7389818
## X2302   0.00000   0.000000   0.000000   0.000000 0.0000000  7.0934448 0.0000000
## X2309   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
## X2402   0.00000   0.000000   0.000000   0.000000 3.4880824  0.0000000 0.0000000
## X2403   0.00000   0.000000   0.000000   0.000000 3.4880824  0.0000000 0.0000000
## X2507   0.00000   0.000000  19.333664   0.000000 0.0000000  0.0000000 0.0000000
## X2508   0.00000   0.000000   0.000000   0.000000 1.7854745  1.3460798 0.8476457
## X2512   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X2517   0.00000   3.460081   3.139569   0.000000 1.2549594  0.0000000 0.0000000
## X2519   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
## X2520   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X2522   0.00000  23.865510   0.000000   0.000000 8.6559213  0.0000000 0.0000000
## X2525   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X2530   0.00000   0.000000   0.000000   0.000000 2.8262406  0.0000000 0.0000000
## X2602   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X2606   0.00000   0.000000   0.000000   0.000000 3.4880824  0.0000000 0.0000000
## X2607   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X2608   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X2710   0.00000   0.000000   0.000000   0.000000 0.0000000  7.0934448 0.0000000
## X2713   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X2714   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X2716   0.00000   0.000000   0.000000   0.000000 1.7213204  1.2977137 0.0000000
## X2804   0.00000   0.000000   0.000000   0.000000 1.4997016  2.2612682 0.7119767
## X2811   0.00000   0.000000   0.000000   0.000000 1.4997016  2.2612682 0.7119767
## X2825   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X2826   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
## X2832   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
## X2833   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
## X2835   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
## X2836   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X2901   0.00000   0.000000   0.000000   0.000000 1.4997016  2.2612682 0.7119767
## X2903   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 1.5794393
## X2907   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
## X2915   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
## X2933   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
## X3105   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X3202   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
## X3204   0.00000   0.000000   0.000000   0.000000 1.7421877  1.3134457 0.8270956
## X3205   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X3206   0.00000   0.000000   0.000000   0.000000 0.0000000  1.5590601 1.9635244
## X3207   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X3208   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 1.4560836
## X3209   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X3210   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
## X3211   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X3212   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X3214   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 1.5794393
## X3215   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X3302   0.00000   0.000000   0.000000   0.000000 0.0000000  1.6885402 2.1265951
## X3303   0.00000   0.000000   0.000000   0.000000 3.4880824  0.0000000 0.0000000
## X3304   0.00000   0.000000   0.000000   0.000000 3.4880824  0.0000000 0.0000000
```

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## X3305   0.00000   0.000000   0.000000   0.000000 2.9619229  0.0000000 0.0000000
## X3307   0.00000   0.000000   0.000000   0.000000 3.4880824  0.0000000 0.0000000
## X3402   0.00000   0.000000   0.000000   0.000000 1.2735239  0.9601175 1.2092004
## X3403   0.00000   0.000000   0.000000   0.000000 1.6488954  1.2431121 0.7828056
## X3506   0.00000   0.000000   0.000000   0.000000 1.2849278  0.9687150 1.2200283
## X3507   0.00000   0.000000   0.000000   0.000000 0.0000000  1.6885402 2.1265951
## X3605   0.00000   0.000000   0.000000   0.000000 0.0000000  7.0934448 0.0000000
## X3701   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X3707   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X3802   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X3808   0.00000   0.000000   0.000000   0.000000 3.4880824  0.0000000 0.0000000
## X3809   0.00000   3.929664   0.000000   0.000000 1.4252751  1.0745236 0.6766432
## X3810   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X3811   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X3814   0.00000   0.000000   0.000000   0.000000 0.0000000  1.5590601 1.9635244
## X3815   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
## X3816   0.00000   0.000000   0.000000   0.000000 3.4880824  0.0000000 0.0000000
## X3819   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X3820   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X3823   0.00000   0.000000   0.000000   0.000000 0.0000000  7.0934448 0.0000000
## X3902   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
## X3908   0.00000   0.000000   0.000000   0.000000 2.1720820  0.0000000 1.0311853
## X3909   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
## X3910   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
## X3911   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
## X3915   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
## X3916   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X3917   0.00000   3.662962   3.323657   0.000000 1.3285435  1.0015971 0.6307204
## X3919   0.00000   0.000000   0.000000   0.000000 0.0000000  1.5590601 1.9635244
## X3920   0.00000   0.000000   0.000000   0.000000 0.0000000  2.5546270 1.6086853
## X3921   0.00000   0.000000   0.000000   0.000000 0.0000000  1.4226535 1.7917303
## X3923  40.30512   8.222795  14.922213   0.000000 0.0000000  0.0000000 1.4158673
## X3924 585.10000 119.368354 108.311096   0.000000 0.0000000  0.0000000 0.0000000
## X3925   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
## X3926   0.00000   0.000000   0.000000  12.629345 1.3083577  0.9863789 0.6211373
## X4001   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X4005   0.00000   0.000000   0.000000   0.000000 0.0000000  7.0934448 0.0000000
## X4006   0.00000   0.000000   0.000000   0.000000 0.0000000  7.0934448 0.0000000
## X4008   0.00000   0.000000   0.000000   0.000000 3.4880824  0.0000000 0.0000000
## X4009   0.00000   0.000000   0.000000   0.000000 0.0000000  7.0934448 0.0000000
## X4010   0.00000   7.095656   6.438376   0.000000 0.0000000  0.0000000 1.2217879
## X4012   0.00000   0.000000   0.000000   0.000000 0.0000000  7.0934448 0.0000000
## X4013   0.00000   0.000000   0.000000   0.000000 0.0000000  7.0934448 0.0000000
## X4015   0.00000   0.000000   0.000000 298.500000 0.0000000  0.0000000 0.0000000
## X4016   0.00000   0.000000   0.000000  69.622608 0.0000000  5.4376573 0.0000000
## X4202   0.00000   0.000000   0.000000   0.000000 0.0000000  1.3295629 1.6744896
## X4203   0.00000   0.000000   0.000000 298.500000 0.0000000  0.0000000 0.0000000
## X4409   0.00000   0.000000   4.561209   0.000000 0.0000000  1.3745371 1.7311312
## X4415   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7260225 1.7166153
## X4416   0.00000   5.202822   4.720877   0.000000 0.0000000  1.4226535 0.8958652
## X4418   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X4420   0.00000   0.000000  24.609007   0.000000 0.0000000  0.0000000 0.0000000
## X4421   0.00000   0.000000   6.438376   0.000000 2.5735668  0.0000000 0.0000000
## X4602   0.00000   0.000000   0.000000   0.000000 0.0000000 21.7589888 0.0000000
## X4804   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
## X4808   0.00000   0.000000   0.000000   0.000000 0.0000000  1.3134457 1.6541911
## X4818   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X4819   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.7389818
## X4821   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.4730587
## X4822   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
## X4823   0.00000   0.000000   0.000000   0.000000 0.0000000  2.0763619 1.3075139
## X4901   0.00000   0.000000   0.000000   0.000000 3.4880824  0.0000000 0.0000000
## X4902   0.00000   0.000000   0.000000   0.000000 3.4880824  0.0000000 0.0000000
## X4907   0.00000   0.000000   0.000000   0.000000 3.4880824  0.0000000 0.0000000
## X4911   0.00000   0.000000   0.000000   0.000000 2.1720820  0.0000000 1.0311853
## X5111   0.00000   0.000000   0.000000   0.000000 0.0000000  2.3626222 1.4877758
## X5112   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X5205   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X5206   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X5208   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X5209   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.4730587
## X5210   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X5211   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X5402   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 1.5794393
## X5407   0.00000   0.000000   0.000000   0.000000 1.2965372  0.9774674 1.2310513
## X5408   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X5505   0.00000   0.000000  19.685354   0.000000 0.0000000  0.0000000 0.0000000
## X5508   0.00000   0.000000   0.000000   0.000000 1.8155448  0.0000000 0.8619214
## X5509   0.00000   0.000000   7.409940   0.000000 0.0000000  0.0000000 1.4061576
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## X5511   0.00000   0.000000  24.609007   0.000000 0.0000000  0.0000000 0.0000000
## X5512   0.00000   0.000000   8.323073   0.000000 0.0000000  0.0000000 1.5794393
## X5513   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X5514   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X5515   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.1619847
## X5516   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 0.0000000
## X5601   0.00000   0.000000   0.000000   0.000000 3.4880824  0.0000000 0.0000000
## X5603   0.00000   0.000000   0.000000   0.000000 0.0000000  1.4809673 1.8651723
## X5609   0.00000   0.000000  24.609007   0.000000 0.0000000  0.0000000 0.0000000
## X5806   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.4730587
## X5807   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.4730587
## X5903   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
## X5907   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.7389818
## X5911   0.00000   0.000000   5.942402   0.000000 0.0000000  0.0000000 1.1276690
## X6002   0.00000   0.000000   0.000000   0.000000 1.0321311  0.7781302 1.4700011
## X6101   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.7389818
## X6103   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X6104   0.00000   0.000000   0.000000   0.000000 2.0101627  0.0000000 0.9543151
## X6105   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.7389818
## X6106   0.00000   0.000000   0.000000   0.000000 2.0101627  0.0000000 0.9543151
## X6107   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X6109   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X6110   0.00000   0.000000   9.093290   0.000000 0.0000000  0.0000000 1.7256002
## X6111   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X6112   0.00000   8.703555   0.000000   0.000000 0.0000000  0.0000000 1.4986483
## X6114   0.00000   0.000000   5.877710   0.000000 0.0000000  0.0000000 1.1153926
## X6115  25.95658   5.295498   4.804969   0.000000 1.9206573  0.0000000 0.9118229
## X6117   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.7389818
## X6201   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X6202   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X6203   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.4006443
## X6204   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X6205   0.00000   0.000000   0.000000   0.000000 2.1720820  0.0000000 1.0311853
## X6206   0.00000   0.000000   4.078289   0.000000 1.6301867  0.0000000 0.7739237
## X6210   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X6211   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 1.8997777
## X6212   0.00000   0.000000   0.000000   0.000000 0.0000000  0.9245552 1.7466183
## X6217   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X6302   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X6303   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X6304   0.00000   0.000000   0.000000   0.000000 0.0000000  0.0000000 2.2570941
## X6305   0.00000   0.000000   0.000000   0.000000 0.0000000  1.5590601 1.9635244
## X6306   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
## X6307   0.00000   0.000000   0.000000  39.769024 0.0000000  0.0000000 1.9559142
## X6401   0.00000   0.000000   0.000000   0.000000 3.4880824  0.0000000 0.0000000
## X6403   0.00000   0.000000   0.000000   0.000000 3.0031121  0.0000000 0.0000000
## X6404   0.00000   0.000000   0.000000   0.000000 0.0000000  2.7635396 1.7402388
##            X9607     X9608      X9612     X9616     X9617     X9706
## X102   0.0000000  0.000000  0.0000000 3.7978668  0.000000 3.7978668
## X210   2.2641122 10.498828  6.4376850 0.0000000 10.498828 0.0000000
## X401   1.1308830  0.000000  0.0000000 1.9440463  0.000000 1.9440463
## X403   1.0247751  4.751937  2.9137999 1.7616411  4.751937 1.7616411
## X406   3.0790175  0.000000  8.7547564 0.0000000  0.000000 0.0000000
## X510   0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X602   0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X603   0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X702   0.5762188  0.000000  1.6383915 0.9905484  0.000000 0.9905484
## X703   0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X709   0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X712   0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X713   0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X804   0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X805   0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X808   0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X809   0.0000000  0.000000  0.0000000 3.7978668  0.000000 3.7978668
## X813   0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X901   0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X904   0.0000000 27.634216  0.0000000 0.0000000 27.634216 0.0000000
## X1001  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X1003  0.7723458  0.000000  0.0000000 1.3277012  0.000000 1.3277012
## X1005  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X1102  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X1108  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X1202  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X1208  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X1213  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X1214  0.7679935  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X1302  0.6849736  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X1507  3.6542046  0.000000 10.3902222 0.0000000  0.000000 0.0000000
```

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## X1514  3.6542046  0.000000 10.3902222 0.0000000  0.000000 0.0000000
## X1517  1.1308830  0.000000  0.0000000 1.9440463  0.000000 1.9440463
## X1601  2.2641122 10.498828  6.4376850 0.0000000 10.498828 0.0000000
## X1602  1.1170067  5.179621  3.1760477 1.9201921  5.179621 1.9201921
## X1704  0.0000000  4.530805  0.0000000 1.6796629  4.530805 1.6796629
## X1806  0.6832553  3.168286  0.0000000 1.1745499  3.168286 1.1745499
## X1901  1.3106095  0.000000  1.8632613 1.1265013  0.000000 1.1265013
## X1902  3.6542046  0.000000 10.3902222 0.0000000  0.000000 0.0000000
## X1905  0.6223468  0.000000  0.0000000 1.0698448  0.000000 1.0698448
## X2001  3.6542046  0.000000 10.3902222 0.0000000  0.000000 0.0000000
## X2002  3.6542046  0.000000 10.3902222 0.0000000  0.000000 0.0000000
## X2003  3.6542046  0.000000 10.3902222 0.0000000  0.000000 0.0000000
## X2004  3.6542046  0.000000 10.3902222 0.0000000  0.000000 0.0000000
## X2005  0.9148487  0.000000  2.6012390 1.5726715  0.000000 1.5726715
## X2006  0.0000000  0.000000  0.0000000 3.6223945  0.000000 3.6223945
## X2007  1.3757520  0.000000  3.9117544 2.3649893  0.000000 2.3649893
## X2008  0.6553047  3.038677  0.0000000 1.1265013  3.038677 1.1265013
## X2101  3.6542046  0.000000 10.3902222 0.0000000  0.000000 0.0000000
## X2102  0.0000000  7.469557  0.0000000 2.7691172  7.469557 2.7691172
## X2103  2.2641122 10.498828  6.4376850 0.0000000 10.498828 0.0000000
## X2104  0.0000000 27.634216  0.0000000 0.0000000 27.634216 0.0000000
## X2106  2.2902154  5.309927  3.2559489 0.0000000  5.309927 0.0000000
## X2202  2.6071317  0.000000  3.7065030 0.0000000  0.000000 0.0000000
## X2206  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X2208  1.9021088  0.000000  0.0000000 3.2698252  0.000000 3.2698252
## X2209  3.6542046  0.000000 10.3902222 0.0000000  0.000000 0.0000000
## X2302  0.0000000 27.634216  0.0000000 0.0000000 27.634216 0.0000000
## X2309  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X2402  0.0000000  0.000000  0.0000000 3.7978668  0.000000 3.7978668
## X2403  0.0000000  0.000000  0.0000000 3.7978668  0.000000 3.7978668
## X2507  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X2508  1.1308830  0.000000  0.0000000 1.9440463  0.000000 1.9440463
## X2512 13.7097044  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X2517  0.0000000  0.000000  0.0000000 1.3664149  0.000000 1.3664149
## X2519  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X2520  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X2522  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X2525  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X2530  0.0000000  0.000000  0.0000000 3.0772452  0.000000 3.0772452
## X2602  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X2606  0.0000000  0.000000  0.0000000 3.7978668  0.000000 3.7978668
## X2607  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X2608  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X2710  0.0000000 27.634216  0.0000000 0.0000000 27.634216 0.0000000
## X2713  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X2714  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X2716  1.0902492  0.000000  0.0000000 1.8741945  0.000000 1.8741945
## X2804  0.9498806  4.404646  0.0000000 1.6328933  4.404646 1.6328933
## X2811  0.9498806  4.404646  0.0000000 1.6328933  4.404646 1.6328933
## X2825  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X2826  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X2832  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X2833  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X2835  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X2836  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X2901  0.9498806  4.404646  0.0000000 1.6328933  4.404646 1.6328933
## X2903  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X2907  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X2915  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X2933  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3105  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3202  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3204  1.1034661  0.000000  0.0000000 1.8969151  0.000000 1.8969151
## X3205  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3206  1.3098142  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3207  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3208  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3209  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3210  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3211  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3212  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3214  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3215  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3302  2.8371889  0.000000  4.0335710 0.0000000  0.000000 0.0000000
## X3303  0.0000000  0.000000  0.0000000 3.7978668  0.000000 3.7978668
## X3304  0.0000000  0.000000  0.0000000 3.7978668  0.000000 3.7978668
## X3305  0.0000000  0.000000  0.0000000 3.2249778  0.000000 3.2249778
## X3307  0.0000000  0.000000  0.0000000 3.7978668  0.000000 3.7978668
## X3402  1.6132489  0.000000  2.2935182 1.3866282  0.000000 1.3866282
```

```
## X3403  1.0443768  0.000000  0.0000000 1.7953373  0.000000 1.7953373
## X3506  0.8138475  3.773851  2.3140559 1.3990449  3.773851 1.3990449
## X3507  2.8371889  0.000000  4.0335710 0.0000000  0.000000 0.0000000
## X3605  0.0000000 27.634216  0.0000000 0.0000000 27.634216 0.0000000
## X3701  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3707  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3802  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3808  0.0000000  0.000000  0.0000000 3.7978668  0.000000 3.7978668
## X3809  0.9027404  0.000000  0.0000000 1.5518568  0.000000 1.5518568
## X3810  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3811  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3814  1.3098142  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3815  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3816  0.0000000  0.000000  0.0000000 3.7978668  0.000000 3.7978668
## X3819  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3820  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3823  0.0000000 27.634216  0.0000000 0.0000000 27.634216 0.0000000
## X3902  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3908  1.3757520  0.000000  3.9117544 2.3649893  0.000000 2.3649893
## X3909  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3910  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3911  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3915  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3916  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3917  0.8414727  0.000000  0.0000000 1.4465342  0.000000 1.4465342
## X3919  1.3098142  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3920  1.0731104  4.976071  0.0000000 0.0000000  4.976071 0.0000000
## X3921  1.1952149  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3923  1.8889746  0.000000  5.3710326 0.0000000  0.000000 0.0000000
## X3924  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3925  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X3926  0.8286875  0.000000  0.0000000 1.4245557  0.000000 1.4245557
## X4001  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X4005  0.0000000 27.634216  0.0000000 0.0000000 27.634216 0.0000000
## X4006  0.0000000 27.634216  0.0000000 0.0000000 27.634216 0.0000000
## X4008  0.0000000  0.000000  0.0000000 3.7978668  0.000000 3.7978668
## X4009  0.0000000 27.634216  0.0000000 0.0000000 27.634216 0.0000000
## X4010  1.6300439  0.000000  4.6347986 0.0000000  0.000000 0.0000000
## X4012  0.0000000 27.634216  0.0000000 0.0000000 27.634216 0.0000000
## X4013  0.0000000 27.634216  0.0000000 0.0000000 27.634216 0.0000000
## X4015  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X4016  0.0000000 21.183695  0.0000000 0.0000000 21.183695 0.0000000
## X4202  1.1170067  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X4203  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X4409  2.3095817  0.000000  3.2834817 0.0000000  0.000000 0.0000000
## X4415  2.2902154  5.309927  3.2559489 0.0000000  5.309927 0.0000000
## X4416  2.3904299  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X4418  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X4420  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X4421  0.0000000  0.000000  0.0000000 2.8021309  0.000000 2.8021309
## X4602  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X4804  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X4808  1.1034661  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X4818  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X4819  3.6542046  0.000000 10.3902222 0.0000000  0.000000 0.0000000
## X4821  1.6497113  0.000000  4.6907200 0.0000000  0.000000 0.0000000
## X4822  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X4823  1.7444151  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X4901  0.0000000  0.000000  0.0000000 3.7978668  0.000000 3.7978668
## X4902  0.0000000  0.000000  0.0000000 3.7978668  0.000000 3.7978668
## X4907  0.0000000  0.000000  0.0000000 3.7978668  0.000000 3.7978668
## X4911  1.3757520  0.000000  3.9117544 2.3649893  0.000000 2.3649893
## X5111  3.9698221  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X5112 13.7097044  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X5205  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X5206  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X5208  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X5209  1.6497113  0.000000  4.6907200 0.0000000  0.000000 0.0000000
## X5210  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X5211  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X5402  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X5407  0.8212006  0.000000  0.0000000 1.4116854  0.000000 1.4116854
## X5408  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X5505  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X5508  1.1499289  0.000000  3.2696575 1.9767872  0.000000 1.9767872
## X5509  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X5511  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X5512  2.1072037  0.000000  5.9915371 0.0000000  0.000000 0.0000000
## X5513  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
```

```
## X5514  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X5515  5.7688105  0.000000  8.2014033 0.0000000  0.000000 0.0000000
## X5516  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X5601  0.0000000  0.000000  0.0000000 3.7978668  0.000000 3.7978668
## X5603  2.4884123  0.000000  3.5377218 0.0000000  0.000000 0.0000000
## X5609  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X5806  1.6497113  0.000000  4.6907200 0.0000000  0.000000 0.0000000
## X5807  1.6497113  0.000000  4.6907200 0.0000000  0.000000 0.0000000
## X5903  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X5907  3.6542046  0.000000 10.3902222 0.0000000  0.000000 0.0000000
## X5911  1.5044755  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X6002  1.3074628  0.000000  1.8587877 1.1237967  0.000000 1.1237967
## X6101  3.6542046  0.000000 10.3902222 0.0000000  0.000000 0.0000000
## X6103  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X6104  0.0000000  0.000000  0.0000000 2.1886896  0.000000 2.1886896
## X6105  3.6542046  0.000000 10.3902222 0.0000000  0.000000 0.0000000
## X6106  0.0000000  0.000000  0.0000000 2.1886896  0.000000 2.1886896
## X6107  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X6109  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X6110  2.3022039  0.000000  6.5459935 0.0000000  0.000000 0.0000000
## X6111  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X6112  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X6114  1.4880970  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X6115  0.0000000  0.000000  0.0000000 2.0912350  0.000000 2.0912350
## X6117  3.6542046  0.000000 10.3902222 0.0000000  0.000000 0.0000000
## X6201  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X6202  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X6203  1.6014055  0.000000  4.5533692 0.0000000  0.000000 0.0000000
## X6204  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X6205  1.3757520  0.000000  3.9117544 2.3649893  0.000000 2.3649893
## X6206  0.0000000  0.000000  0.0000000 1.7749670  0.000000 1.7749670
## X6210  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X6211  1.2672905  0.000000  3.6033589 0.0000000  0.000000 0.0000000
## X6212  1.5534949  0.000000  2.2085671 0.0000000  0.000000 0.0000000
## X6217  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X6302  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X6303  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X6304  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X6305  1.3098142  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X6306  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X6307  0.0000000  0.000000  0.0000000 0.0000000  0.000000 0.0000000
## X6401  0.0000000  0.000000  0.0000000 3.7978668  0.000000 3.7978668
## X6403  0.0000000  0.000000  0.0000000 3.2698252  0.000000 3.2698252
## X6404  2.3217340  0.000000  0.0000000 0.0000000  0.000000 0.0000000
##  [ reached getOption("max.print") -- omitted 196 rows ]
```

Regla para transformar una matriz opcional (sólo para trabajar con datos binarios)

```
r[r<1] = 0
r[r>1] = 1
```

Visualizar r

```
r
```

```
##       X102 X210 X401 X403 X406 X510 X602 X603 X702 X703 X709 X712 X713 X804
## X102     0    0    1    1    0    0    0    0    0    0    0    0    0    0
## X210     0    0    0    1    1    0    0    0    1    0    0    0    0    0
## X401     1    0    0    0    0    0    0    0    0    0    0    0    0    0
## X403     1    1    0    0    1    0    0    0    0    0    0    0    0    0
## X406     0    1    0    1    0    0    0    0    1    0    0    0    0    0
## X510     0    0    0    0    0    0    0    0    0    0    0    0    1    0
## X602     0    0    0    0    0    0    0    0    1    1    1    0    1    1
## X603     0    0    0    0    0    0    0    0    0    0    0    0    0    1
## X702     0    1    0    0    1    0    1    0    0    1    1    0    1    1
## X703     0    0    0    0    0    0    1    0    1    0    1    0    1    1
## X709     0    0    0    0    0    0    1    0    1    1    0    0    1    1
## X712     0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X713     0    0    0    0    0    1    1    0    1    1    1    0    0    1
## X804     0    0    0    0    0    0    1    1    1    1    1    0    1    0
## X805     0    0    0    1    0    0    0    0    1    0    1    0    1    1
## X808     0    0    0    0    0    0    1    0    0    1    1    0    1    1
## X809     1    0    1    1    0    0    0    0    0    0    0    0    0    0
## X813     0    0    0    0    0    0    0    0    1    0    1    0    0    0
## X901     0    0    0    1    0    0    0    0    1    1    1    0    1    1
## X904     0    1    0    1    0    0    0    0    0    0    0    0    0    0
## X1001    0    0    0    0    0    1    1    0    1    1    1    0    1    1
```

```
## X1003    1    0    1    0    1    1    1    0    1    1    0    0    1    0
## X1005    0    0    0    0    0    0    1    0    1    1    1    0    1    1
## X1102    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X1108    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X1202    0    0    0    1    0    0    0    0    0    0    0    0    1    1
## X1208    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X1213    0    0    0    1    0    0    1    0    1    1    1    0    1    1
## X1214    0    0    0    0    0    0    1    0    1    1    1    0    1    1
## X1302    0    0    0    0    0    0    1    0    1    1    1    0    1    1
## X1507    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X1514    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X1517    1    0    1    0    0    0    0    0    0    0    0    0    0    0
## X1601    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X1602    1    1    0    1    1    0    0    0    1    0    0    0    0    0
## X1704    1    1    0    1    0    0    0    0    1    0    1    0    1    0
## X1806    1    1    1    1    0    0    0    0    0    0    0    0    0    0
## X1901    1    1    1    1    1    0    0    0    1    0    0    0    0    0
## X1902    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X1905    1    0    1    0    0    0    0    0    0    0    0    0    0    0
## X2001    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X2002    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X2003    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X2004    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X2005    1    1    0    1    1    0    0    0    1    0    1    0    1    0
## X2006    1    0    1    1    0    0    0    0    0    0    0    0    0    0
## X2007    1    1    1    1    1    0    0    0    1    0    0    0    0    0
## X2008    1    1    1    1    0    0    0    0    1    0    1    0    1    0
## X2101    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X2102    1    1    1    1    0    0    0    0    0    0    0    0    0    0
## X2103    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X2104    0    1    0    1    0    0    0    0    0    0    0    0    0    0
## X2106    0    1    1    1    1    0    0    0    0    0    0    0    0    0
## X2202    0    1    1    1    1    0    0    0    1    0    0    0    0    0
## X2206    0    0    0    0    0    0    0    0    1    0    1    0    0    0
## X2208    1    0    1    1    0    0    0    0    0    0    0    0    0    0
## X2209    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X2302    0    1    0    1    0    0    0    0    0    0    0    0    0    0
## X2309    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X2402    1    0    1    1    0    0    0    0    0    0    0    0    0    0
## X2403    1    0    1    1    0    0    0    0    0    0    0    0    0    0
## X2507    0    0    0    0    0    0    0    0    1    0    1    0    0    0
## X2508    1    0    1    0    0    0    0    0    0    0    0    0    0    0
## X2512    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X2517    1    0    0    0    0    0    1    0    1    1    1    0    1    1
## X2519    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X2520    0    0    0    0    0    0    0    0    0    0    0    0    1    1
## X2522    0    0    0    0    0    0    0    0    0    0    1    0    1    0
## X2525    0    0    0    0    0    0    0    0    1    0    1    0    1    0
## X2530    1    0    1    1    0    0    0    0    1    1    0    0    0    1
## X2602    0    0    0    0    0    0    0    0    0    0    1    0    1    0
## X2606    1    0    1    1    0    0    0    0    0    0    0    0    0    0
## X2607    0    0    0    0    0    0    0    0    1    1    0    0    0    1
## X2608    0    0    0    0    0    0    0    0    1    1    0    0    0    1
## X2710    0    1    0    1    0    0    0    0    0    0    0    0    0    0
## X2713    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X2714    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X2716    1    0    0    1    0    0    1    0    1    1    1    0    1    1
## X2804    1    1    1    1    0    0    0    0    0    0    0    0    0    0
## X2811    1    1    1    1    0    0    0    0    0    0    0    0    0    0
## X2825    0    0    0    0    0    0    0    0    0    0    0    1    0    0
## X2826    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X2832    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X2833    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X2835    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X2836    0    0    0    0    0    0    0    0    1    0    1    0    1    0
## X2901    1    1    1    1    0    0    0    0    0    0    0    0    0    0
## X2903    0    0    0    0    0    0    0    0    0    0    1    0    0    0
## X2907    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X2915    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X2933    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3105    0    0    0    0    0    0    0    0    0    0    1    0    1    0
## X3202    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3204    1    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3205    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3206    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3207    0    0    0    0    0    0    0    0    1    0    1    0    1    0
## X3208    0    0    0    0    0    0    0    0    0    0    1    1    0    0
## X3209    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3210    0    0    1    0    0    0    0    0    0    0    0    0    0    0
```

```
## X3211    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3212    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3214    0    0    0    0    0    0    0    0    0    0    1    0    0    0
## X3215    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3302    0    1    1    1    1    0    0    0    0    0    0    0    0    0
## X3303    1    0    1    1    0    0    0    0    0    0    0    0    0    0
## X3304    1    0    1    1    0    0    0    0    0    0    0    0    0    0
## X3305    1    0    1    1    0    0    0    0    0    0    0    0    0    0
## X3307    1    0    1    1    0    0    0    0    0    0    0    0    0    0
## X3402    1    1    1    1    1    0    0    0    0    0    0    0    0    0
## X3403    1    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3506    1    1    0    1    1    0    0    0    0    0    0    0    0    0
## X3507    0    1    1    1    1    0    0    0    0    0    0    0    0    0
## X3605    0    1    0    1    0    0    0    0    0    0    0    0    0    0
## X3701    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3707    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3802    0    0    0    0    0    0    0    0    0    0    1    0    1    0
## X3808    1    0    1    1    0    0    0    0    0    0    0    0    0    0
## X3809    1    0    1    1    0    0    0    0    0    0    0    0    0    0
## X3810    0    0    0    0    0    0    0    0    0    0    0    1    0    0
## X3811    0    0    0    0    0    0    0    0    1    0    1    0    1    0
## X3814    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3815    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3816    1    0    1    1    0    0    0    0    0    0    0    0    0    0
## X3819    0    0    0    0    0    0    0    0    1    0    1    0    1    0
## X3820    0    0    0    0    0    0    0    0    1    0    1    0    1    0
## X3823    0    1    0    1    0    0    0    0    0    0    0    0    0    0
## X3902    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3908    1    1    1    1    1    0    0    0    1    0    0    0    0    0
## X3909    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3910    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3911    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3915    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3916    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3917    1    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3919    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3920    0    1    0    0    0    0    0    0    0    0    0    0    0    0
## X3921    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3923    0    1    0    1    1    0    0    0    1    0    1    0    0    0
## X3924    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3925    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X3926    1    0    1    0    1    0    1    0    1    0    0    0    1    0
## X4001    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X4005    0    1    0    1    0    0    0    0    0    0    0    0    0    0
## X4006    0    1    0    1    0    0    0    0    0    0    0    0    0    0
## X4008    1    0    1    1    0    0    0    0    0    0    0    0    0    0
## X4009    0    1    0    1    0    0    0    0    0    0    0    0    0    0
## X4010    0    1    0    1    1    0    0    0    1    0    1    0    1    0
## X4012    0    1    0    1    0    0    0    0    0    0    0    0    0    0
## X4013    0    1    0    1    0    0    0    0    0    0    0    0    0    0
## X4015    0    0    0    0    1    0    0    0    1    0    0    0    0    0
## X4016    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X4202    0    0    0    0    0    0    0    0    1    1    0    0    1    1
## X4203    0    0    0    0    1    0    0    0    1    0    0    0    0    0
## X4409    0    1    1    0    1    0    0    0    1    0    0    0    0    0
## X4415    0    1    1    1    1    0    0    0    0    0    0    0    0    0
## X4416    0    0    1    0    0    0    0    0    1    1    1    0    1    0
## X4418    0    0    0    0    0    0    0    0    1    0    1    0    1    0
## X4420    0    0    0    0    0    0    0    0    1    0    1    0    0    0
## X4421    1    0    1    1    0    0    0    0    1    0    0    0    0    0
## X4602    0    0    0    0    0    0    1    0    0    1    1    0    1    1
## X4804    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X4808    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X4818    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X4819    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X4821    0    1    0    1    1    0    0    0    0    0    0    0    0    0
## X4822    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X4823    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X4901    1    0    1    1    0    0    0    0    0    0    0    0    0    0
## X4902    1    0    1    1    0    0    0    0    0    0    0    0    0    0
## X4907    1    0    1    1    0    0    0    0    0    0    0    0    0    0
## X4911    1    1    1    1    1    0    0    0    1    0    0    0    0    0
## X5111    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X5112    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5205    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5206    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5208    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5209    0    1    0    1    1    0    0    0    0    0    0    0    0    0
## X5210    0    0    0    0    0    0    0    0    1    0    0    0    0    0
```

```
## X5211    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5402    0    0    0    0    0    0    0    0    0    0    1    0    0    0
## X5407    1    0    1    0    0    0    0    0    0    0    0    0    0    0
## X5408    0    0    0    0    0    0    0    0    1    0    0    0    0    0
## X5505    0    0    0    0    0    0    0    0    1    0    1    0    0    0
## X5508    1    1    1    1    1    0    0    0    1    0    0    0    0    0
## X5509    0    0    0    0    0    0    0    0    1    0    1    0    0    0
## X5511    0    0    0    0    0    0    0    0    1    0    1    0    0    0
## X5512    0    1    0    1    1    0    0    0    1    0    1    0    0    0
## X5513    0    0    0    0    0    0    0    0    1    0    0    0    0    0
## X5514    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5515    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X5516    0    0    0    0    0    0    0    0    1    0    0    0    0    0
## X5601    1    0    1    1    0    0    0    0    0    0    0    0    0    0
## X5603    0    1    1    0    1    0    0    0    1    0    0    0    0    0
## X5609    0    0    0    0    0    0    0    0    1    0    1    0    0    0
## X5806    0    1    0    1    1    0    0    0    0    0    0    0    0    0
## X5807    0    1    0    1    1    0    0    0    0    0    0    0    0    0
## X5903    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X5907    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X5911    0    0    0    0    0    0    0    0    1    0    0    0    0    0
## X6002    1    1    1    1    1    0    0    0    0    0    0    0    0    0
## X6101    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X6103    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6104    1    0    1    1    0    0    0    0    0    0    0    0    0    0
## X6105    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X6106    1    0    1    1    0    0    0    0    0    0    0    0    0    0
## X6107    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6109    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6110    0    1    0    1    1    0    0    0    1    0    1    0    0    0
## X6111    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6112    0    0    0    0    0    1    0    0    0    0    1    0    1    0
## X6114    0    0    0    0    0    0    0    0    1    0    0    0    0    0
## X6115    1    0    1    0    0    0    0    0    0    0    0    0    0    0
## X6117    0    1    0    1    1    0    0    0    1    0    0    0    0    0
## X6201    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6202    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6203    0    1    0    1    1    0    0    0    0    0    0    0    0    0
## X6204    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6205    1    1    1    1    1    0    0    0    1    0    0    0    0    0
## X6206    1    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6210    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6211    0    1    0    1    1    0    1    0    1    0    1    0    1    0
## X6212    0    1    0    0    1    0    0    0    1    0    1    0    1    1
## X6217    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6302    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6303    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6304    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6305    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X6306    0    0    1    0    0    0    0    0    0    0    0    0    0    0
## X6307    0    0    0    0    1    0    0    0    1    0    0    0    0    0
## X6401    1    0    1    1    0    0    0    0    0    0    0    0    0    0
## X6403    1    0    1    1    0    0    0    0    1    0    1    0    0    0
## X6404    0    0    1    0    0    0    0    0    0    0    0    0    0    0
##       X805 X808 X809 X813 X901 X904 X1001 X1003 X1005 X1102 X1108 X1202 X1208
## X102     0    0    1    0    0    0     0     1     0     0     0     0     0
## X210     0    0    0    0    0    1     0     0     0     0     0     0     0
## X401     0    0    1    0    0    0     0     1     0     1     1     0     1
## X403     1    0    1    0    1    1     0     0     0     0     0     1     0
## X406     0    0    0    0    0    0     0     1     0     0     0     0     0
## X510     0    0    0    0    0    0     1     1     0     0     0     0     0
## X602     0    1    0    0    0    0     1     1     1     0     0     0     0
## X603     0    0    0    0    0    0     0     0     0     0     0     0     0
## X702     1    0    0    1    1    0     1     1     1     0     0     0     0
## X703     0    1    0    0    1    0     1     1     1     0     0     0     0
## X709     1    1    0    1    1    0     1     0     1     0     0     0     0
## X712     0    0    0    0    0    0     0     0     0     0     0     0     0
## X713     1    1    0    0    1    0     1     1     1     0     0     1     0
## X804     1    1    0    0    1    0     1     0     1     0     0     1     0
## X805     0    0    0    0    1    0     0     0     1     0     0     1     0
## X808     0    0    0    0    0    0     1     0     1     0     0     0     0
## X809     0    0    0    0    0    0     0     1     0     0     0     0     0
## X813     0    0    0    0    0    0     0     0     0     0     0     0     0
## X901     1    0    0    0    0    0     0     0     0     0     0     1     0
## X904     0    0    0    0    0    0     0     0     0     0     0     0     0
## X1001    0    1    0    0    0    0     0     1     1     0     0     0     0
## X1003    0    0    1    0    0    0     1     0     1     1     1     0     1
## X1005    1    1    0    0    0    0     1     1     0     0     0     0     0
## X1102    0    0    0    0    0    0     0     1     0     0     1     0     1
```

```
## X1108    0    0    0    0    0    0    0    1    0    1    0    0    1
## X1202    1    0    0    0    1    0    0    0    0    0    0    0    0
## X1208    0    0    0    0    0    0    0    1    0    1    1    0    0
## X1213    1    1    0    0    1    0    1    0    1    0    0    1    0
## X1214    0    1    0    1    0    0    1    0    1    0    0    0    0
## X1302    1    0    0    1    1    0    1    0    1    0    0    0    0
## X1507    0    0    0    0    0    0    0    0    0    0    0    0    0
## X1514    0    0    0    0    0    0    0    0    0    0    0    0    0
## X1517    0    0    1    0    0    0    0    1    0    1    1    0    1
## X1601    0    0    0    0    0    1    0    0    0    0    0    0    0
## X1602    0    0    1    0    0    1    0    0    0    0    0    0    0
## X1704    1    0    1    1    1    1    1    1    1    0    0    1    0
## X1806    1    0    1    1    1    1    1    1    1    1    1    1    1
## X1901    1    0    1    1    1    0    1    1    1    1    1    1    1
## X1902    0    0    0    0    0    0    0    0    0    0    0    0    0
## X1905    1    0    1    1    1    0    1    1    1    1    1    1    1
## X2001    0    0    0    0    0    0    0    0    0    0    0    0    0
## X2002    0    0    0    0    0    0    0    0    0    0    0    0    0
## X2003    0    0    0    0    0    0    0    0    0    0    0    0    0
## X2004    0    0    0    0    0    0    0    0    0    0    0    0    0
## X2005    1    0    1    1    1    0    1    1    1    0    0    1    0
## X2006    0    0    1    0    0    0    0    1    0    0    0    0    0
## X2007    0    0    1    0    0    0    0    0    0    0    0    0    0
## X2008    1    0    1    1    1    1    1    1    1    1    1    1    1
## X2101    0    0    0    0    0    0    0    0    0    0    0    0    0
## X2102    0    0    1    0    0    1    0    0    0    0    0    0    0
## X2103    0    0    0    0    0    1    0    0    0    0    0    0    0
## X2104    0    0    0    0    0    1    0    0    0    0    0    0    0
## X2106    0    0    0    0    0    1    0    0    0    1    1    0    1
## X2202    0    0    0    0    0    0    1    1    1    1    1    0    1
## X2206    0    0    0    1    0    0    0    0    0    0    0    0    0
## X2208    0    0    1    0    0    0    0    1    0    0    0    0    0
## X2209    0    0    0    0    0    0    0    0    0    0    0    0    0
## X2302    0    0    0    0    0    1    0    0    0    0    0    0    0
## X2309    0    0    0    0    0    0    0    1    0    1    1    0    1
## X2402    0    0    1    0    0    0    0    1    0    0    0    0    0
## X2403    0    0    1    0    0    0    0    1    0    0    0    0    0
## X2507    0    0    0    1    0    0    0    0    0    0    0    0    0
## X2508    0    0    1    0    0    0    0    1    0    1    1    0    1
## X2512    0    0    0    0    0    0    0    0    0    0    0    0    0
## X2517    1    0    1    1    1    0    1    1    1    0    0    1    0
## X2519    0    0    0    0    0    0    0    1    0    1    1    0    1
## X2520    1    0    0    0    0    0    0    0    0    0    0    1    0
## X2522    0    0    0    0    0    0    1    0    1    0    0    0    0
## X2525    0    0    0    0    0    0    1    0    0    0    0    0    0
## X2530    0    0    1    0    0    0    0    1    1    0    0    0    0
## X2602    1    0    0    0    1    0    0    0    0    0    0    0    0
## X2606    0    0    1    0    0    0    0    1    0    0    0    0    0
## X2607    0    0    0    0    0    0    0    0    0    0    0    0    0
## X2608    0    0    0    0    0    0    0    0    0    0    0    0    0
## X2710    0    0    0    0    0    1    0    0    0    0    0    0    0
## X2713    0    0    0    0    0    0    0    0    0    0    0    0    0
## X2714    0    0    0    0    0    0    0    0    0    0    0    0    0
## X2716    1    1    1    0    1    0    1    0    1    0    0    1    0
## X2804    0    0    1    0    0    1    0    1    0    1    1    0    1
## X2811    0    0    1    0    0    1    0    1    0    1    1    0    1
## X2825    0    0    0    0    0    0    0    0    0    0    0    0    0
## X2826    0    0    0    0    0    0    0    1    0    1    1    0    1
## X2832    0    0    0    0    0    0    0    1    0    1    1    0    1
## X2833    0    0    0    0    0    0    0    1    0    1    1    0    1
## X2835    0    0    0    0    0    0    0    1    0    1    1    0    1
## X2836    0    0    0    0    0    0    1    0    0    0    0    0    0
## X2901    0    0    1    0    0    1    0    1    0    1    1    0    1
## X2903    0    0    0    0    0    0    1    0    0    0    0    0    0
## X2907    0    0    0    0    0    0    0    1    0    1    1    0    1
## X2915    0    0    0    0    0    0    0    1    0    1    1    0    1
## X2933    0    0    0    0    0    0    0    1    0    1    1    0    1
## X3105    0    0    0    0    0    0    1    0    1    0    0    0    0
## X3202    0    0    0    0    0    0    0    1    0    1    1    0    1
## X3204    0    0    1    0    0    0    0    1    0    1    1    0    1
## X3205    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3206    0    0    0    0    0    0    0    0    0    1    1    0    1
## X3207    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3208    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3209    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3210    0    0    0    0    0    0    0    1    0    1    1    0    1
## X3211    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3212    0    0    0    0    0    0    0    1    0    0    0    0    0
## X3214    0    0    0    0    0    0    1    0    0    0    0    0    0
```

```
## X3215    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3302    0    0    0    0    0    0    0    0    0    1    1    0    1
## X3303    0    0    1    0    0    0    0    1    0    0    0    0    0
## X3304    0    0    1    0    0    0    0    1    0    0    0    0    0
## X3305    1    0    1    0    1    0    0    1    0    0    0    1    0
## X3307    0    0    1    0    0    0    0    1    0    0    0    0    0
## X3402    1    0    1    0    1    0    0    0    0    1    1    1    1
## X3403    0    0    1    0    0    0    1    1    0    1    1    0    1
## X3506    0    0    1    0    0    1    0    0    0    0    0    0    0
## X3507    0    0    0    0    0    0    0    0    0    1    1    0    1
## X3605    0    0    0    0    0    1    0    0    0    0    0    0    0
## X3701    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3707    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3802    0    0    0    0    0    0    1    0    0    0    0    0    0
## X3808    0    0    1    0    0    0    0    1    0    0    0    0    0
## X3809    1    0    1    0    1    0    0    1    0    1    1    1    1
## X3810    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3811    0    0    0    0    0    0    1    0    0    0    0    0    0
## X3814    0    0    0    0    0    0    0    0    0    1    1    0    1
## X3815    0    0    0    0    0    0    0    1    0    1    1    0    1
## X3816    0    0    1    0    0    0    0    1    0    0    0    0    0
## X3819    0    0    0    0    0    0    1    0    0    0    0    0    0
## X3820    0    0    0    0    0    0    1    0    0    0    0    0    0
## X3823    0    0    0    0    0    1    0    0    0    0    0    0    0
## X3902    0    0    0    0    0    0    0    1    0    1    1    0    1
## X3908    0    0    1    0    0    0    0    0    0    0    0    0    0
## X3909    0    0    0    0    0    0    0    1    0    1    1    0    1
## X3910    0    0    0    0    0    0    0    1    0    1    1    0    1
## X3911    0    0    0    0    0    0    0    1    0    1    1    0    1
## X3915    0    0    0    0    0    0    0    1    0    1    1    0    1
## X3916    0    0    0    0    0    0    0    0    0    0    0    0    0
## X3917    0    0    1    1    0    0    0    1    0    1    1    0    1
## X3919    0    0    0    0    0    0    0    0    0    1    1    0    1
## X3920    0    0    0    0    0    1    0    0    0    1    1    0    1
## X3921    0    0    0    0    0    0    1    0    0    1    1    0    1
## X3923    0    0    0    1    0    0    1    1    1    0    0    0    0
## X3924    0    0    0    0    0    0    1    1    1    0    0    0    0
## X3925    0    0    0    0    0    0    0    1    0    1    1    0    1
## X3926    0    0    1    0    0    0    1    1    0    1    1    0    1
## X4001    0    0    0    0    0    0    0    0    0    0    0    0    0
## X4005    0    0    0    0    0    1    0    0    0    0    0    0    0
## X4006    0    0    0    0    0    1    0    0    0    0    0    0    0
## X4008    0    0    1    0    0    0    0    1    0    0    0    0    0
## X4009    0    0    0    0    0    1    0    0    0    0    0    0    0
## X4010    0    0    0    1    0    0    0    0    1    0    0    0    0
## X4012    0    0    0    0    0    1    0    0    0    0    0    0    0
## X4013    0    0    0    0    0    1    0    0    0    0    0    0    0
## X4015    0    0    0    0    0    0    0    1    0    0    0    0    0
## X4016    0    0    0    0    0    1    0    1    0    0    0    0    0
## X4202    1    0    0    0    1    0    1    1    1    1    1    0    1
## X4203    0    0    0    0    0    0    0    1    0    0    0    0    0
## X4409    0    0    0    1    0    0    0    0    0    1    1    0    1
## X4415    0    0    0    0    0    1    0    0    0    1    1    0    1
## X4416    0    0    0    1    0    0    0    1    1    1    1    0    1
## X4418    0    0    0    0    0    0    1    0    0    0    0    0    0
## X4420    0    0    0    1    0    0    0    0    0    0    0    0    0
## X4421    0    0    1    1    0    0    0    0    0    0    0    0    0
## X4602    0    1    0    0    0    0    1    0    1    0    0    0    0
## X4804    0    0    0    0    0    0    0    1    0    1    1    0    1
## X4808    0    0    0    0    0    0    1    0    0    1    1    0    1
## X4818    0    0    0    0    0    0    0    0    0    0    0    0    0
## X4819    0    0    0    0    0    0    0    0    0    0    0    0    0
## X4821    0    0    0    0    0    0    0    0    0    0    0    0    0
## X4822    0    0    0    0    0    0    0    1    0    1    1    0    1
## X4823    0    0    0    0    0    0    1    1    0    1    1    0    1
## X4901    0    0    1    0    0    0    0    1    0    0    0    0    0
## X4902    0    0    1    0    0    0    0    1    0    0    0    0    0
## X4907    0    0    1    0    0    0    0    1    0    0    0    0    0
## X4911    0    0    1    0    0    0    0    0    0    0    0    0    0
## X5111    0    0    0    0    0    0    0    1    0    1    1    0    1
## X5112    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5205    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5206    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5208    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5209    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5210    0    0    0    0    0    0    1    1    1    0    0    0    0
## X5211    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5402    0    0    0    0    0    0    1    0    0    0    0    0    0
## X5407    0    0    1    0    0    0    0    0    0    1    1    0    1
```

```
## X5408    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5505    0    0    0    1    0    0    0    0    0    0    0    0    0
## X5508    0    0    1    0    0    0    1    0    0    0    0    0    0
## X5509    0    0    0    1    0    0    0    0    0    0    0    0    0
## X5511    0    0    0    1    0    0    0    0    0    0    0    0    0
## X5512    0    0    0    1    0    0    0    0    0    0    0    0    0
## X5513    0    0    0    0    0    0    1    1    1    0    0    0    0
## X5514    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5515    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5516    0    0    0    0    0    0    1    1    1    0    0    0    0
## X5601    0    0    1    0    0    0    0    1    0    0    0    0    0
## X5603    0    0    0    0    0    0    1    1    1    1    1    0    1
## X5609    0    0    0    1    0    0    0    0    0    0    0    0    0
## X5806    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5807    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5903    0    0    0    0    0    0    0    1    0    1    1    0    1
## X5907    0    0    0    0    0    0    0    0    0    0    0    0    0
## X5911    0    0    0    1    0    0    1    0    1    0    0    0    0
## X6002    0    0    1    0    0    0    0    0    0    1    1    0    1
## X6101    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6103    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6104    0    0    1    0    0    0    0    0    0    0    0    0    0
## X6105    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6106    0    0    1    0    0    0    0    0    0    0    0    0    0
## X6107    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6109    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6110    0    0    0    1    0    0    0    0    0    0    0    0    0
## X6111    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6112    0    0    0    0    0    0    1    1    0    0    0    0    0
## X6114    0    0    0    1    0    0    1    0    1    0    0    0    0
## X6115    0    0    1    0    0    0    1    1    1    0    0    0    0
## X6117    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6201    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6202    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6203    1    0    0    0    1    0    0    0    0    0    0    0    0
## X6204    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6205    0    0    1    0    0    0    0    0    0    0    0    0    0
## X6206    0    0    1    1    0    0    0    1    0    0    0    0    0
## X6210    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6211    1    0    0    0    1    0    1    0    1    0    0    0    0
## X6212    0    0    0    0    0    0    1    0    1    1    1    0    1
## X6217    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6302    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6303    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6304    0    0    0    0    0    0    0    0    0    0    0    0    0
## X6305    0    0    0    0    0    0    0    0    0    1    1    0    1
## X6306    0    0    0    0    0    0    0    1    0    1    1    0    1
## X6307    0    0    0    0    0    0    0    1    0    0    0    0    0
## X6401    0    0    1    0    0    0    0    1    0    0    0    0    0
## X6403    0    0    1    0    0    0    1    1    0    0    0    0    0
## X6404    0    0    0    0    0    0    0    1    0    1    1    0    1
##       X1213 X1214 X1302 X1507 X1514 X1517 X1601 X1602 X1704 X1806 X1901 X1902
## X102      0     0     0     0     0     1     0     1     1     1     1     0
## X210      0     0     0     1     1     0     1     1     1     1     1     1
## X401      0     0     0     0     0     1     0     0     0     1     1     0
## X403      1     0     0     1     1     0     1     1     1     1     1     1
## X406      0     0     0     1     1     0     1     1     0     0     1     1
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      1     1     1     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      1     1     1     1     1     0     1     1     1     0     1     1
## X703      1     1     1     0     0     0     0     0     0     0     0     0
## X709      1     1     1     0     0     0     0     0     1     0     0     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      1     1     1     0     0     0     0     0     1     0     0     0
## X804      1     1     1     0     0     0     0     0     0     0     0     0
## X805      1     0     1     0     0     0     0     0     1     1     1     0
## X808      1     1     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     0     0     1     0     1     1     1     1     0
## X813      0     1     1     0     0     0     0     0     1     1     1     0
## X901      1     0     1     0     0     0     0     0     1     1     1     0
## X904      0     0     0     0     0     0     1     1     1     1     0     0
## X1001     1     1     1     0     0     0     0     0     1     1     1     0
## X1003     0     0     0     0     0     1     0     0     1     1     1     0
## X1005     1     1     1     0     0     0     0     0     1     1     1     0
## X1102     0     0     0     0     0     1     0     0     0     1     1     0
## X1108     0     0     0     0     0     1     0     0     0     1     1     0
## X1202     1     0     0     0     0     0     0     0     1     1     1     0
## X1208     0     0     0     0     0     1     0     0     0     1     1     0
```

```
## X1213     0     1     1     0     0     0     0     0     1     1     1     0
## X1214     1     0     1     0     0     0     0     0     1     0     0     0
## X1302     1     1     0     0     0     0     0     0     1     0     0     0
## X1507     0     0     0     0     1     0     1     1     0     0     1     1
## X1514     0     0     0     1     0     0     1     1     0     0     1     1
## X1517     0     0     0     0     0     0     0     0     0     1     1     0
## X1601     0     0     0     1     1     0     0     1     1     1     1     1
## X1602     0     0     0     1     1     0     1     0     1     1     1     1
## X1704     1     1     1     0     0     0     1     1     0     1     1     0
## X1806     1     0     0     0     0     1     1     1     1     0     1     0
## X1901     1     0     0     1     1     1     1     1     1     1     0     1
## X1902     0     0     0     1     1     0     1     1     0     0     1     0
## X1905     1     0     0     0     0     1     0     0     1     1     1     0
## X2001     0     0     0     1     1     0     1     1     0     0     1     1
## X2002     0     0     0     1     1     0     1     1     0     0     1     1
## X2003     0     0     0     1     1     0     1     1     0     0     1     1
## X2004     0     0     0     1     1     0     1     1     0     0     1     1
## X2005     1     1     0     1     1     0     1     1     1     1     1     1
## X2006     0     0     0     0     0     1     0     1     1     1     1     0
## X2007     0     0     0     1     1     1     1     1     1     0     1     1
## X2008     1     1     1     0     0     1     1     1     1     1     1     0
## X2101     0     0     0     1     1     0     1     1     0     0     1     1
## X2102     0     0     0     0     0     1     1     1     1     1     0     0
## X2103     0     0     0     1     1     0     1     1     1     1     1     1
## X2104     0     0     0     0     0     0     1     1     1     1     0     0
## X2106     0     0     0     1     1     1     1     1     0     1     1     1
## X2202     0     0     0     1     1     1     1     1     0     0     1     1
## X2206     0     1     1     0     0     0     0     0     1     1     1     0
## X2208     0     1     1     0     0     1     0     1     1     1     0     0
## X2209     0     0     0     1     1     0     1     1     0     0     1     1
## X2302     0     0     0     0     0     0     1     1     1     1     0     0
## X2309     0     0     0     0     0     1     0     0     0     1     1     0
## X2402     0     0     0     0     0     1     0     1     1     1     1     0
## X2403     0     0     0     0     0     1     0     1     1     1     1     0
## X2507     1     1     1     0     0     0     0     0     1     1     1     0
## X2508     0     0     0     0     0     1     0     0     0     1     1     0
## X2512     0     1     1     0     0     0     0     0     0     0     0     0
## X2517     1     1     1     0     0     0     0     0     1     0     0     0
## X2519     0     0     0     0     0     1     0     0     0     1     1     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     1     1     0     0     0     0     0     0     0     0     0
## X2525     1     0     0     0     0     0     0     0     0     0     0     0
## X2530     1     1     1     0     0     1     0     1     1     0     0     0
## X2602     0     0     1     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     0     0     1     0     1     1     1     1     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     1     1     1     1     0     0
## X2713     0     0     0     0     0     0     0     0     0     0     0     0
## X2714     0     0     0     0     0     0     0     0     0     0     0     0
## X2716     1     1     1     0     0     0     0     0     1     1     1     0
## X2804     0     0     0     0     0     1     1     1     1     1     0     0
## X2811     0     0     0     0     0     1     1     1     1     1     0     0
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     0     0     0     0     0     1     0     0     0     1     1     0
## X2832     0     0     0     0     0     1     0     0     0     1     1     0
## X2833     0     0     0     0     0     1     0     0     0     1     1     0
## X2835     0     0     0     0     0     1     0     0     0     1     1     0
## X2836     0     1     1     0     0     0     0     0     0     0     0     0
## X2901     0     0     0     0     0     1     1     1     1     1     0     0
## X2903     1     1     1     0     0     0     0     0     0     0     0     0
## X2907     0     0     0     0     0     1     0     0     0     1     1     0
## X2915     0     0     0     0     0     1     0     0     0     1     1     0
## X2933     0     0     0     0     0     1     0     0     0     1     1     0
## X3105     1     1     1     0     0     0     0     0     1     1     1     0
## X3202     0     0     0     0     0     1     0     0     0     1     1     0
## X3204     0     0     0     0     0     1     0     0     0     1     1     0
## X3205     0     0     0     0     0     0     0     0     0     0     0     0
## X3206     0     0     0     0     0     1     0     0     0     0     0     0
## X3207     1     1     1     0     0     0     0     0     0     0     0     0
## X3208     1     1     1     0     0     0     0     0     0     0     0     0
## X3209     0     0     0     0     0     0     0     0     0     0     0     0
## X3210     0     0     0     0     0     1     0     0     0     1     1     0
## X3211     0     0     0     0     0     0     0     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     1     1     1     0     0     0     0     0     0     0     0     0
## X3215     0     0     0     0     0     0     0     0     0     0     0     0
## X3302     0     0     0     1     1     1     1     1     0     0     1     1
## X3303     0     0     0     0     0     1     0     1     1     1     1     0
```

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## X3304     0     0     0     0     0     1     0     1     1     1     1     0
## X3305     1     0     0     0     0     1     0     1     1     1     1     0
## X3307     0     0     0     0     0     1     0     1     1     1     1     0
## X3402     0     0     0     1     1     1     1     1     1     1     1     1
## X3403     0     0     0     0     0     1     0     0     0     1     1     0
## X3506     0     0     0     1     1     0     1     1     1     0     0     1
## X3507     0     0     0     1     1     1     1     1     0     0     1     1
## X3605     0     0     0     0     0     0     1     1     1     1     0     0
## X3701     0     0     0     0     0     0     0     0     0     0     0     0
## X3707     0     0     0     0     0     0     0     0     0     0     0     0
## X3802     1     1     1     0     0     0     0     0     0     0     0     0
## X3808     0     0     0     0     0     1     0     1     1     1     1     0
## X3809     0     0     0     0     0     1     0     0     1     1     1     0
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     1     1     0     0     0     0     0     0     0     0     0
## X3814     0     0     0     0     0     1     0     0     0     0     0     0
## X3815     0     0     0     0     0     1     0     0     0     1     1     0
## X3816     0     0     0     0     0     1     0     1     1     1     1     0
## X3819     0     1     1     0     0     0     0     0     0     0     0     0
## X3820     0     1     1     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     1     1     1     1     0     0
## X3902     0     0     0     0     0     1     0     0     0     1     1     0
## X3908     0     0     0     1     1     1     1     1     1     0     1     1
## X3909     0     0     0     0     0     1     0     0     0     1     1     0
## X3910     0     0     0     0     0     1     0     0     0     1     1     0
## X3911     0     0     0     0     0     1     0     0     0     1     1     0
## X3915     0     0     0     0     0     1     0     0     0     1     1     0
## X3916     0     0     0     0     0     0     0     0     0     0     0     0
## X3917     0     1     0     0     0     1     0     0     1     1     1     0
## X3919     0     0     0     0     0     1     0     0     0     0     0     0
## X3920     0     0     0     0     0     0     1     0     0     1     0     0
## X3921     0     0     0     0     0     1     0     0     0     0     0     0
## X3923     0     1     1     1     1     0     1     1     1     1     1     1
## X3924     0     0     0     0     0     0     0     0     1     1     0     0
## X3925     0     0     0     0     0     1     0     0     0     1     1     0
## X3926     0     0     0     0     0     1     0     0     1     1     1     0
## X4001     0     0     0     0     0     0     0     0     0     0     0     0
## X4005     0     0     0     0     0     0     1     1     1     1     0     0
## X4006     0     0     0     0     0     0     1     1     1     1     0     0
## X4008     0     0     0     0     0     1     0     1     1     1     1     0
## X4009     0     0     0     0     0     0     1     1     1     1     0     0
## X4010     0     1     1     1     1     0     1     1     1     0     1     1
## X4012     0     0     0     0     0     0     1     1     1     1     0     0
## X4013     0     0     0     0     0     0     1     1     1     1     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     1     1     1     1     0     0
## X4202     1     1     1     0     0     0     0     0     0     0     0     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     0     0     1     1     1     1     1     0     1     1     1
## X4415     0     0     0     1     1     1     1     1     0     1     1     1
## X4416     0     1     1     0     0     1     0     0     0     1     1     0
## X4418     1     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     1     1     0     0     0     0     0     1     1     1     0
## X4421     0     0     0     0     0     1     0     1     1     1     1     0
## X4602     1     1     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     0     0     1     0     0     0     1     1     0
## X4808     1     0     0     0     0     0     0     0     0     0     0     0
## X4818     0     0     0     0     0     0     0     0     0     0     0     0
## X4819     0     0     0     1     1     0     1     1     0     0     1     1
## X4821     0     0     0     1     1     0     1     1     0     0     0     1
## X4822     0     0     0     0     0     1     0     0     0     1     1     0
## X4823     1     1     0     0     0     1     0     0     0     0     0     0
## X4901     0     0     0     0     0     1     0     1     1     1     1     0
## X4902     0     0     0     0     0     1     0     1     1     1     1     0
## X4907     0     0     0     0     0     1     0     1     1     1     1     0
## X4911     0     0     0     1     1     1     1     1     1     0     1     1
## X5111     0     1     1     0     0     1     0     0     0     1     1     0
## X5112     0     1     1     0     0     0     0     0     0     0     0     0
## X5205     0     0     0     0     0     0     0     0     0     0     0     0
## X5206     0     0     0     0     0     0     0     0     0     0     0     0
## X5208     0     0     0     0     0     0     0     0     0     0     0     0
## X5209     0     0     0     1     1     0     1     1     0     0     0     1
## X5210     1     1     1     0     0     0     0     0     0     0     0     0
## X5211     0     0     0     0     0     0     0     0     0     0     0     0
## X5402     1     1     1     0     0     0     0     0     0     0     0     0
## X5407     0     0     0     0     0     1     0     0     0     0     0     0
## X5408     1     1     1     0     0     0     0     0     0     0     0     0
## X5505     1     1     1     0     0     0     0     0     1     1     1     0
## X5508     1     0     0     1     1     1     1     1     0     0     1     1
```

```
## X5509     1     1     1     0     0     0     0     0     1     0     0     0
## X5511     0     1     1     0     0     0     0     0     1     1     1     0
## X5512     1     1     1     1     1     0     1     1     1     1     1     1
## X5513     1     1     1     0     0     0     0     0     0     0     0     0
## X5514     0     0     0     0     0     0     0     0     0     0     0     0
## X5515     0     1     1     1     1     0     1     1     0     0     1     1
## X5516     1     1     1     0     0     0     0     0     0     0     0     0
## X5601     0     0     0     0     0     1     0     1     1     1     1     0
## X5603     1     0     1     1     1     1     1     1     0     0     1     1
## X5609     0     1     1     0     0     0     0     0     1     1     1     0
## X5806     0     0     0     1     1     0     1     1     0     0     0     1
## X5807     0     0     0     1     1     0     1     1     0     0     0     1
## X5903     0     0     0     0     0     1     0     0     0     1     1     0
## X5907     0     0     0     1     1     0     1     1     0     0     1     1
## X5911     1     1     1     0     0     0     0     0     1     0     0     0
## X6002     0     0     0     1     1     1     1     1     0     0     1     1
## X6101     0     0     0     1     1     0     1     1     0     0     1     1
## X6103     0     0     0     0     0     0     0     0     0     0     0     0
## X6104     0     0     0     0     0     1     0     1     0     0     0     0
## X6105     0     0     0     1     1     0     1     1     0     0     1     1
## X6106     0     0     0     0     0     1     0     1     0     0     0     0
## X6107     0     0     0     0     0     0     0     0     0     0     0     0
## X6109     0     0     0     0     0     0     0     0     0     0     0     0
## X6110     0     1     1     1     1     0     1     1     1     1     1     1
## X6111     0     0     0     0     0     0     0     0     0     0     0     0
## X6112     0     1     1     0     0     0     0     0     0     0     0     0
## X6114     1     1     1     0     0     0     0     0     1     0     0     0
## X6115     0     0     0     0     0     1     0     1     1     1     0     0
## X6117     0     0     0     1     1     0     1     1     0     0     1     1
## X6201     0     0     0     0     0     0     0     0     0     0     0     0
## X6202     0     0     0     0     0     0     0     0     0     0     0     0
## X6203     0     0     0     1     1     0     1     1     0     0     0     1
## X6204     0     0     0     0     0     0     0     0     0     0     0     0
## X6205     0     0     0     1     1     1     1     1     1     0     1     1
## X6206     0     0     0     0     0     0     0     0     1     1     1     0
## X6210     0     0     0     0     0     0     0     0     0     0     0     0
## X6211     1     1     1     1     1     0     1     1     0     0     0     1
## X6212     1     1     1     1     1     0     1     0     0     0     1     1
## X6217     0     0     0     0     0     0     0     0     0     0     0     0
## X6302     0     0     0     0     0     0     0     0     0     0     0     0
## X6303     0     0     0     0     0     0     0     0     0     0     0     0
## X6304     0     0     0     0     0     0     0     0     0     0     0     0
## X6305     0     0     0     0     0     1     0     0     0     0     0     0
## X6306     0     0     0     0     0     1     0     0     0     1     1     0
## X6307     0     0     0     0     0     0     0     0     0     0     0     0
## X6401     0     0     0     0     0     1     0     1     1     1     1     0
## X6403     0     1     1     0     0     1     0     1     1     1     0     0
## X6404     0     0     0     0     0     1     0     0     0     1     1     0
##       X1905 X2001 X2002 X2003 X2004 X2005 X2006 X2007 X2008 X2101 X2102 X2103
## X102      1     0     0     0     0     1     1     1     1     0     1     0
## X210      0     1     1     1     1     1     0     1     1     1     1     1
## X401      1     0     0     0     0     0     1     1     1     0     1     0
## X403      0     1     1     1     1     1     1     1     1     1     1     1
## X406      0     1     1     1     1     1     0     1     0     1     0     1
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     1     1     1     1     1     0     1     1     1     0     1
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     0     0     0     0     1     0     0     1     0     0     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0     0     0     0     0     1     0     0     1     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      1     0     0     0     0     1     0     0     1     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      1     0     0     0     0     1     1     1     1     0     1     0
## X813      1     0     0     0     0     1     0     0     1     0     0     0
## X901      1     0     0     0     0     1     0     0     1     0     0     0
## X904      0     0     0     0     0     0     0     0     1     0     1     1
## X1001     1     0     0     0     0     1     0     0     1     0     0     0
## X1003     1     0     0     0     0     1     1     0     1     0     0     0
## X1005     1     0     0     0     0     1     0     0     1     0     0     0
## X1102     1     0     0     0     0     0     0     0     1     0     0     0
## X1108     1     0     0     0     0     0     0     0     1     0     0     0
## X1202     1     0     0     0     0     1     0     0     1     0     0     0
## X1208     1     0     0     0     0     0     0     0     1     0     0     0
## X1213     1     0     0     0     0     1     0     0     1     0     0     0
## X1214     0     0     0     0     0     1     0     0     1     0     0     0
## X1302     0     0     0     0     0     0     0     0     1     0     0     0
```

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## X1507     0     1     1     1     1     1     0     1     0     1     0     1
## X1514     0     1     1     1     1     1     0     1     0     1     0     1
## X1517     1     0     0     0     0     0     1     1     1     0     1     0
## X1601     0     1     1     1     1     1     0     1     1     1     1     1
## X1602     0     1     1     1     1     1     1     1     1     1     1     1
## X1704     1     0     0     0     0     1     1     1     1     0     1     1
## X1806     1     0     0     0     0     1     1     0     1     0     1     1
## X1901     1     1     1     1     1     1     1     1     1     1     0     1
## X1902     0     1     1     1     1     1     0     1     0     1     0     1
## X1905     0     0     0     0     0     1     1     0     1     0     0     0
## X2001     0     0     1     1     1     1     0     1     0     1     0     1
## X2002     0     1     0     1     1     1     0     1     0     1     0     1
## X2003     0     1     1     0     1     1     0     1     0     1     0     1
## X2004     0     1     1     1     0     1     0     1     0     1     0     1
## X2005     1     1     1     1     1     0     1     1     1     1     1     1
## X2006     1     0     0     0     0     1     0     1     1     0     1     0
## X2007     0     1     1     1     1     1     1     0     0     1     1     1
## X2008     1     0     0     0     0     1     1     0     0     0     1     1
## X2101     0     1     1     1     1     1     0     1     0     0     0     1
## X2102     0     0     0     0     0     1     1     1     1     0     0     1
## X2103     0     1     1     1     1     1     0     1     1     1     1     0
## X2104     0     0     0     0     0     0     0     0     1     0     1     1
## X2106     0     1     1     1     1     0     0     1     1     1     1     1
## X2202     0     1     1     1     1     0     0     1     0     1     0     1
## X2206     1     0     0     0     0     1     0     0     1     0     0     0
## X2208     0     0     0     0     0     1     1     1     0     0     1     0
## X2209     0     1     1     1     1     1     0     1     0     1     0     1
## X2302     0     0     0     0     0     0     0     0     1     0     1     1
## X2309     1     0     0     0     0     0     0     0     1     0     0     0
## X2402     1     0     0     0     0     1     1     1     1     0     1     0
## X2403     1     0     0     0     0     1     1     1     1     0     1     0
## X2507     1     0     0     0     0     1     0     0     1     0     0     0
## X2508     1     0     0     0     0     0     1     1     1     0     1     0
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     1     0     0     0     0     1     1     0     0     0     0     0
## X2519     1     0     0     0     0     0     0     0     1     0     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     0     0     0     0     1     1     1     0     0     1     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     1     0     0     0     0     1     1     1     1     0     1     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     1     0     1     1
## X2713     1     0     0     0     0     0     0     0     0     0     0     0
## X2714     1     0     0     0     0     0     0     0     0     0     0     0
## X2716     1     0     0     0     0     1     1     1     1     0     1     0
## X2804     0     0     0     0     0     0     1     1     1     0     1     1
## X2811     0     0     0     0     0     0     1     1     1     0     1     1
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     1     0     0     0     0     0     0     0     1     0     0     0
## X2832     1     0     0     0     0     0     0     0     1     0     0     0
## X2833     1     0     0     0     0     0     0     0     1     0     0     0
## X2835     1     0     0     0     0     0     0     0     1     0     0     0
## X2836     0     0     0     0     0     0     0     0     1     0     0     0
## X2901     0     0     0     0     0     0     1     1     1     0     1     1
## X2903     1     0     0     0     0     0     0     0     0     0     0     0
## X2907     1     0     0     0     0     0     0     0     1     0     0     0
## X2915     1     0     0     0     0     0     0     0     1     0     0     0
## X2933     1     0     0     0     0     0     0     0     1     0     0     0
## X3105     1     0     0     0     0     1     0     0     1     0     0     0
## X3202     1     0     0     0     0     0     0     0     1     0     0     0
## X3204     1     0     0     0     0     0     1     1     1     0     1     0
## X3205     1     0     0     0     0     0     0     0     0     0     0     0
## X3206     1     0     0     0     0     0     0     0     0     0     0     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     0     0     0     0     0     0     0     0     0     0     0
## X3209     1     0     0     0     0     0     0     0     0     0     0     0
## X3210     1     0     0     0     0     0     0     0     1     0     0     0
## X3211     1     0     0     0     0     0     0     0     0     0     0     0
## X3212     1     0     0     0     0     0     0     0     0     0     0     0
## X3214     1     0     0     0     0     0     0     0     0     0     0     0
## X3215     1     0     0     0     0     0     0     0     0     0     0     0
## X3302     0     1     1     1     1     1     0     1     0     1     0     1
## X3303     1     0     0     0     0     1     1     1     1     0     1     0
## X3304     1     0     0     0     0     1     1     1     1     0     1     0
## X3305     1     0     0     0     0     1     1     1     1     0     1     0
## X3307     1     0     0     0     0     1     1     1     1     0     1     0
```

```
## X3402     1     1     1     1     1     1     1     1     1     1     1     1
## X3403     1     0     0     0     0     0     1     1     1     0     1     0
## X3506     0     1     1     1     1     1     1     1     0     1     1     1
## X3507     0     1     1     1     1     1     0     1     0     1     0     1
## X3605     0     0     0     0     0     0     0     0     1     0     1     1
## X3701     1     0     0     0     0     0     0     0     0     0     0     0
## X3707     1     0     0     0     0     0     0     0     0     0     0     0
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     1     0     0     0     0     1     1     1     1     0     1     0
## X3809     1     0     0     0     0     1     1     0     1     0     1     0
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     1     0     0     0
## X3814     1     0     0     0     0     0     0     0     0     0     0     0
## X3815     1     0     0     0     0     0     0     0     1     0     0     0
## X3816     1     0     0     0     0     1     1     1     1     0     1     0
## X3819     0     0     0     0     0     0     0     0     1     0     0     0
## X3820     0     0     0     0     0     0     0     0     1     0     0     0
## X3823     0     0     0     0     0     0     0     0     1     0     1     1
## X3902     1     0     0     0     0     0     0     0     1     0     0     0
## X3908     0     1     1     1     1     1     1     1     0     1     1     1
## X3909     1     0     0     0     0     0     0     0     1     0     0     0
## X3910     1     0     0     0     0     0     0     0     1     0     0     0
## X3911     1     0     0     0     0     0     0     0     1     0     0     0
## X3915     1     0     0     0     0     0     0     0     1     0     0     0
## X3916     1     0     0     0     0     0     0     0     0     0     0     0
## X3917     1     0     0     0     0     1     1     0     1     0     1     0
## X3919     1     0     0     0     0     0     0     0     0     0     0     0
## X3920     1     0     0     0     0     0     0     0     1     0     1     1
## X3921     1     0     0     0     0     0     0     0     1     0     0     0
## X3923     1     1     1     1     1     1     0     1     1     1     0     1
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     1     0     0     0     0     0     0     0     1     0     0     0
## X3926     1     0     0     0     0     1     1     0     1     0     1     0
## X4001     1     0     0     0     0     0     0     0     0     0     0     0
## X4005     0     0     0     0     0     0     0     0     1     0     1     1
## X4006     0     0     0     0     0     0     0     0     1     0     1     1
## X4008     1     0     0     0     0     1     1     1     1     0     1     0
## X4009     0     0     0     0     0     0     0     0     1     0     1     1
## X4010     0     1     1     1     1     1     0     1     0     1     0     1
## X4012     0     0     0     0     0     0     0     0     1     0     1     1
## X4013     0     0     0     0     0     0     0     0     1     0     1     1
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     0     1     0     1     1
## X4202     1     0     0     0     0     0     0     0     0     0     0     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     1     1     1     1     1     1     0     1     1     1     0     1
## X4415     0     1     1     1     1     0     0     1     1     1     1     1
## X4416     1     0     0     0     0     0     0     0     1     0     0     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     1     0     0     0     0     1     0     0     1     0     0     0
## X4421     1     0     0     0     0     1     1     1     1     0     1     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     1     0     0     0     0     0     0     0     1     0     0     0
## X4808     1     0     0     0     0     0     0     0     0     0     0     0
## X4818     1     0     0     0     0     0     0     0     0     0     0     0
## X4819     0     1     1     1     1     1     0     1     0     1     0     1
## X4821     0     1     1     1     1     1     0     1     0     1     0     1
## X4822     1     0     0     0     0     0     0     0     1     0     0     0
## X4823     0     0     0     0     0     0     0     0     0     0     0     0
## X4901     1     0     0     0     0     1     1     1     1     0     1     0
## X4902     1     0     0     0     0     1     1     1     1     0     1     0
## X4907     1     0     0     0     0     1     1     1     1     0     1     0
## X4911     0     1     1     1     1     1     1     1     0     1     1     1
## X5111     0     0     0     0     0     0     0     0     1     0     0     0
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     1     0     0     0     0     0     0     0     0     0     0     0
## X5206     1     0     0     0     0     0     0     0     0     0     0     0
## X5208     1     0     0     0     0     0     0     0     0     0     0     0
## X5209     0     1     1     1     1     1     0     1     0     1     0     1
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     1     0     0     0     0     0     0     0     0     0     0     0
## X5402     1     0     0     0     0     0     0     0     0     0     0     0
## X5407     1     0     0     0     0     0     1     0     0     0     1     0
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     1     0     0     0     0     1     0     0     1     0     0     0
## X5508     0     1     1     1     1     1     1     1     0     1     1     1
## X5509     1     0     0     0     0     1     0     0     0     0     0     0
## X5511     1     0     0     0     0     1     0     0     1     0     0     0
## X5512     1     1     1     1     1     1     0     1     1     1     0     1
```

```
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     1     0     0     0     0     0     0     0     0     0     0     0
## X5515     0     1     1     1     1     1     0     1     0     1     0     1
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     1     0     0     0     0     1     1     1     1     0     1     0
## X5603     0     1     1     1     1     0     0     1     0     1     0     1
## X5609     1     0     0     0     0     1     0     0     1     0     0     0
## X5806     0     1     1     1     1     1     0     1     0     1     0     1
## X5807     0     1     1     1     1     1     0     1     0     1     0     1
## X5903     1     0     0     0     0     0     0     0     1     0     0     0
## X5907     0     1     1     1     1     1     0     1     0     1     0     1
## X5911     1     0     0     0     0     1     0     0     0     0     0     0
## X6002     0     1     1     1     1     0     1     1     0     1     0     1
## X6101     0     1     1     1     1     1     0     1     0     1     0     1
## X6103     1     0     0     0     0     0     0     0     0     0     0     0
## X6104     1     0     0     0     0     0     1     1     0     0     1     0
## X6105     0     1     1     1     1     1     0     1     0     1     0     1
## X6106     1     0     0     0     0     0     1     1     0     0     1     0
## X6107     1     0     0     0     0     0     0     0     0     0     0     0
## X6109     1     0     0     0     0     0     0     0     0     0     0     0
## X6110     1     1     1     1     1     1     0     1     1     1     0     1
## X6111     1     0     0     0     0     0     0     0     0     0     0     0
## X6112     0     0     0     0     0     0     0     0     0     0     0     0
## X6114     1     0     0     0     0     1     0     0     0     0     0     0
## X6115     1     0     0     0     0     0     1     1     0     0     1     0
## X6117     0     1     1     1     1     1     0     1     0     1     0     1
## X6201     1     0     0     0     0     0     0     0     0     0     0     0
## X6202     1     0     0     0     0     0     0     0     0     0     0     0
## X6203     0     1     1     1     1     1     0     1     0     1     0     1
## X6204     1     0     0     0     0     0     0     0     0     0     0     0
## X6205     0     1     1     1     1     1     1     1     0     1     1     1
## X6206     1     0     0     0     0     1     1     1     1     0     1     0
## X6210     1     0     0     0     0     0     0     0     0     0     0     0
## X6211     0     1     1     1     1     0     0     1     0     1     0     1
## X6212     1     1     1     1     1     1     0     0     1     1     0     1
## X6217     1     0     0     0     0     0     0     0     0     0     0     0
## X6302     1     0     0     0     0     0     0     0     0     0     0     0
## X6303     1     0     0     0     0     0     0     0     0     0     0     0
## X6304     1     0     0     0     0     0     0     0     0     0     0     0
## X6305     1     0     0     0     0     0     0     0     0     0     0     0
## X6306     1     0     0     0     0     0     0     0     1     0     0     0
## X6307     1     0     0     0     0     0     0     0     0     0     0     0
## X6401     1     0     0     0     0     1     1     1     1     0     1     0
## X6403     0     0     0     0     0     1     1     1     1     0     1     0
## X6404     1     0     0     0     0     0     0     0     1     0     0     0
##       X2104 X2106 X2202 X2206 X2208 X2209 X2302 X2309 X2402 X2403 X2507 X2508
## X102      0     0     0     0     1     0     0     0     1     1     0     1
## X210      1     1     1     0     0     1     1     0     0     0     0     0
## X401      0     1     1     0     1     0     0     1     1     1     0     1
## X403      1     1     1     0     1     1     1     0     1     1     0     0
## X406      0     1     1     0     0     1     0     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     1     1     0     1     0     0     0     0     1     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     0     0     1     0     0     0     0     0     0     1     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0     0     0     0     0     0     0     0     0     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     0     1     0     0     0     1     1     0     1
## X813      0     0     0     1     0     0     0     0     0     0     1     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      1     1     0     0     0     0     1     0     0     0     0     0
## X1001     0     0     1     0     0     0     0     0     0     0     0     0
## X1003     0     0     1     0     1     0     0     1     1     1     0     1
## X1005     0     0     1     0     0     0     0     0     0     0     0     0
## X1102     0     1     1     0     0     0     0     1     0     0     0     1
## X1108     0     1     1     0     0     0     0     1     0     0     0     1
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     1     1     0     0     0     0     1     0     0     0     1
## X1213     0     0     0     0     0     0     0     0     0     0     1     0
## X1214     0     0     0     1     1     0     0     0     0     0     1     0
## X1302     0     0     0     1     1     0     0     0     0     0     1     0
## X1507     0     1     1     0     0     1     0     0     0     0     0     0
## X1514     0     1     1     0     0     1     0     0     0     0     0     0
## X1517     0     1     1     0     1     0     0     1     1     1     0     1
```

```
## X1601     1     1     1     0     0     1     1     0     0     0     0     0
## X1602     1     1     1     0     1     1     1     0     1     1     0     0
## X1704     1     0     0     1     1     0     1     0     1     1     1     0
## X1806     1     1     0     1     1     0     1     1     1     1     1     1
## X1901     0     1     1     1     0     1     0     1     1     1     1     1
## X1902     0     1     1     0     0     1     0     0     0     0     0     0
## X1905     0     0     0     1     0     0     0     1     1     1     1     1
## X2001     0     1     1     0     0     1     0     0     0     0     0     0
## X2002     0     1     1     0     0     1     0     0     0     0     0     0
## X2003     0     1     1     0     0     1     0     0     0     0     0     0
## X2004     0     1     1     0     0     1     0     0     0     0     0     0
## X2005     0     0     0     1     1     1     0     0     1     1     1     0
## X2006     0     0     0     0     1     0     0     0     1     1     0     1
## X2007     0     1     1     0     1     1     0     0     1     1     0     1
## X2008     1     1     0     1     0     0     1     1     1     1     1     1
## X2101     0     1     1     0     0     1     0     0     0     0     0     0
## X2102     1     1     0     0     1     0     1     0     1     1     0     1
## X2103     1     1     1     0     0     1     1     0     0     0     0     0
## X2104     0     1     0     0     0     0     1     0     0     0     0     0
## X2106     1     0     1     0     0     1     1     1     0     0     0     1
## X2202     0     1     0     0     0     1     0     1     0     0     0     1
## X2206     0     0     0     0     0     0     0     0     0     0     1     0
## X2208     0     0     0     0     0     0     0     0     1     1     0     1
## X2209     0     1     1     0     0     0     0     0     0     0     0     0
## X2302     1     1     0     0     0     0     0     0     0     0     0     0
## X2309     0     1     1     0     0     0     0     0     0     0     0     1
## X2402     0     0     0     0     1     0     0     0     0     1     0     1
## X2403     0     0     0     0     1     0     0     0     1     0     0     1
## X2507     0     0     0     1     0     0     0     0     0     0     0     0
## X2508     0     1     1     0     1     0     0     1     1     1     0     0
## X2512     0     0     0     0     1     0     0     0     0     0     0     0
## X2517     0     0     0     1     1     0     0     0     1     1     1     0
## X2519     0     1     1     0     0     0     0     1     0     0     0     1
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     0     0     0     1     0     0     0     1     1     1     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     0     1     0     0     0     1     1     0     1
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     1     1     0     0     0     0     1     0     0     0     0     0
## X2713     0     0     0     0     0     0     0     0     0     0     0     0
## X2714     0     0     0     0     0     0     0     0     0     0     0     0
## X2716     0     0     0     0     1     0     0     0     1     1     1     0
## X2804     1     1     0     0     1     0     1     1     1     1     0     1
## X2811     1     1     0     0     1     0     1     1     1     1     0     1
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     0     1     1     0     0     0     0     1     0     0     0     1
## X2832     0     1     1     0     0     0     0     1     0     0     0     1
## X2833     0     1     1     0     0     0     0     1     0     0     0     1
## X2835     0     1     1     0     0     0     0     1     0     0     0     1
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     1     1     0     0     1     0     1     1     1     1     0     1
## X2903     0     0     0     0     0     0     0     0     0     0     0     0
## X2907     0     1     1     0     0     0     0     1     0     0     0     1
## X2915     0     1     1     0     0     0     0     1     0     0     0     1
## X2933     0     1     1     0     0     0     0     1     0     0     0     1
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     1     1     0     0     0     0     1     0     0     0     1
## X3204     0     0     1     0     1     0     0     1     1     1     0     1
## X3205     0     0     0     0     0     0     0     0     0     0     0     0
## X3206     0     1     1     0     0     0     0     1     0     0     0     1
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     0     0     0     0     0     0     0     0     0     0     0
## X3209     0     0     0     0     0     0     0     0     0     0     0     0
## X3210     0     1     1     0     0     0     0     1     0     0     0     1
## X3211     0     0     0     0     0     0     0     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     0     0     0     0     0     0     0     0     0     0
## X3215     0     0     0     0     0     0     0     0     0     0     0     0
## X3302     0     1     1     0     0     1     0     1     0     0     0     1
## X3303     0     0     0     0     1     0     0     0     1     1     0     1
## X3304     0     0     0     0     1     0     0     0     1     1     0     1
## X3305     0     0     0     0     1     0     0     0     1     1     0     1
## X3307     0     0     0     0     1     0     0     0     1     1     0     1
## X3402     0     1     1     0     1     1     0     1     1     1     0     1
## X3403     0     0     1     0     1     0     0     1     1     1     0     1
## X3506     1     1     0     0     1     1     1     0     1     1     0     0
```

```
## X3507     0     1     1     0     0     1     0     1     0     0     0     1
## X3605     1     1     0     0     0     0     1     0     0     0     0     0
## X3701     0     0     0     0     0     0     0     0     0     0     0     0
## X3707     0     0     0     0     0     0     0     0     0     0     0     0
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     0     0     0     0     1     0     0     0     1     1     0     1
## X3809     0     0     0     0     1     0     0     1     1     1     0     1
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     1     1     0     0     0     0     1     0     0     0     1
## X3815     0     1     1     0     0     0     0     1     0     0     0     1
## X3816     0     0     0     0     1     0     0     0     1     1     0     1
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     1     1     0     0     0     0     1     0     0     0     0     0
## X3902     0     1     1     0     0     0     0     1     0     0     0     1
## X3908     0     1     1     0     1     1     0     0     1     1     0     1
## X3909     0     1     1     0     0     0     0     1     0     0     0     1
## X3910     0     1     1     0     0     0     0     1     0     0     0     1
## X3911     0     1     1     0     0     0     0     1     0     0     0     1
## X3915     0     1     1     0     0     0     0     1     0     0     0     1
## X3916     0     0     0     0     0     0     0     0     0     0     0     0
## X3917     0     0     0     1     1     0     0     1     1     1     1     1
## X3919     0     1     1     0     0     0     0     1     0     0     0     1
## X3920     1     1     1     0     0     0     1     1     0     0     0     0
## X3921     0     1     1     0     0     0     0     1     0     0     0     1
## X3923     0     1     1     1     0     1     0     0     0     0     1     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     1     1     0     0     0     0     1     0     0     0     1
## X3926     0     0     0     0     1     0     0     1     1     1     0     1
## X4001     0     0     0     0     0     0     0     0     0     0     0     0
## X4005     1     1     0     0     0     0     1     0     0     0     0     0
## X4006     1     1     0     0     0     0     1     0     0     0     0     0
## X4008     0     0     0     0     1     0     0     0     1     1     0     1
## X4009     1     1     0     0     0     0     1     0     0     0     0     0
## X4010     0     1     1     1     0     1     0     0     0     0     1     0
## X4012     1     1     0     0     0     0     1     0     0     0     0     0
## X4013     1     1     0     0     0     0     1     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     1     1     0     0     0     0     1     0     0     0     0     0
## X4202     0     0     1     0     0     0     0     1     0     0     0     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     1     1     1     0     1     0     1     0     0     1     1
## X4415     1     1     1     0     0     1     1     1     0     0     0     1
## X4416     0     1     1     1     1     0     0     1     0     0     1     1
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     1     0     0     0     0     0     0     1     0
## X4421     0     0     0     1     1     0     0     0     1     1     1     1
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     1     1     0     0     0     0     1     0     0     0     1
## X4808     0     0     1     0     0     0     0     1     0     0     0     0
## X4818     0     0     0     0     0     0     0     0     0     0     0     0
## X4819     0     1     1     0     0     1     0     0     0     0     0     0
## X4821     0     1     1     0     0     1     0     0     0     0     0     0
## X4822     0     1     1     0     0     0     0     1     0     0     0     1
## X4823     0     1     1     0     0     0     0     1     0     0     0     1
## X4901     0     0     0     0     1     0     0     0     1     1     0     1
## X4902     0     0     0     0     1     0     0     0     1     1     0     1
## X4907     0     0     0     0     1     0     0     0     1     1     0     1
## X4911     0     1     1     0     1     1     0     0     1     1     0     1
## X5111     0     1     1     0     1     0     0     1     0     0     0     1
## X5112     0     0     0     0     1     0     0     0     0     0     0     0
## X5205     0     0     0     0     0     0     0     0     0     0     0     0
## X5206     0     0     0     0     0     0     0     0     0     0     0     0
## X5208     0     0     0     0     0     0     0     0     0     0     0     0
## X5209     0     1     1     0     0     1     0     0     0     0     0     0
## X5210     0     0     1     0     0     0     0     0     0     0     0     0
## X5211     0     0     0     0     0     0     0     0     0     0     0     0
## X5402     0     0     0     0     0     0     0     0     0     0     0     0
## X5407     0     0     0     0     1     0     0     1     1     1     0     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     1     0     0     0     0     0     0     1     0
## X5508     0     1     1     0     1     1     0     0     1     1     0     1
## X5509     0     0     0     1     0     0     0     0     0     0     1     0
## X5511     0     0     0     1     0     0     0     0     0     0     1     0
## X5512     0     1     1     1     0     1     0     0     0     0     1     0
## X5513     0     0     1     0     0     0     0     0     0     0     0     0
## X5514     0     0     0     0     0     0     0     0     0     0     0     0
## X5515     0     1     1     0     1     1     0     0     0     0     0     0
```

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## X5516     0     0     1     0     0     0     0     0     0     0     0     0
## X5601     0     0     0     0     1     0     0     0     1     1     0     1
## X5603     0     1     1     0     0     1     0     1     0     0     0     1
## X5609     0     0     0     1     0     0     0     0     0     0     1     0
## X5806     0     1     1     0     0     1     0     0     0     0     0     0
## X5807     0     1     1     0     0     1     0     0     0     0     0     0
## X5903     0     1     1     0     0     0     0     1     0     0     0     1
## X5907     0     1     1     0     0     1     0     0     0     0     0     0
## X5911     0     0     1     1     1     0     0     0     0     0     1     0
## X6002     0     1     1     0     0     1     0     1     1     1     0     1
## X6101     0     1     1     0     0     1     0     0     0     0     0     0
## X6103     0     0     0     0     0     0     0     0     0     0     0     0
## X6104     0     0     0     0     1     0     0     0     1     1     0     1
## X6105     0     1     1     0     0     1     0     0     0     0     0     0
## X6106     0     0     0     0     1     0     0     0     1     1     0     1
## X6107     0     0     0     0     0     0     0     0     0     0     0     0
## X6109     0     0     0     0     0     0     0     0     0     0     0     0
## X6110     0     1     1     1     0     1     0     0     0     0     1     0
## X6111     0     0     0     0     0     0     0     0     0     0     0     0
## X6112     0     0     0     0     0     0     0     0     0     0     0     0
## X6114     0     0     1     1     1     0     0     0     0     0     1     0
## X6115     0     0     0     0     1     0     0     0     1     1     0     1
## X6117     0     1     1     0     0     1     0     0     0     0     0     0
## X6201     0     0     0     0     0     0     0     0     0     0     0     0
## X6202     0     0     0     0     0     0     0     0     0     0     0     0
## X6203     0     1     1     0     0     1     0     0     0     0     0     0
## X6204     0     0     0     0     0     0     0     0     0     0     0     0
## X6205     0     1     1     0     1     1     0     0     1     1     0     1
## X6206     0     0     0     1     1     0     0     0     1     1     1     0
## X6210     0     0     0     0     0     0     0     0     0     0     0     0
## X6211     0     1     1     0     0     1     0     0     0     0     0     0
## X6212     0     1     1     0     0     1     0     1     0     0     0     0
## X6217     0     0     0     0     0     0     0     0     0     0     0     0
## X6302     0     0     0     0     0     0     0     0     0     0     0     0
## X6303     0     0     0     0     0     0     0     0     0     0     0     0
## X6304     0     0     0     0     0     0     0     0     0     0     0     0
## X6305     0     1     1     0     0     0     0     1     0     0     0     1
## X6306     0     1     1     0     0     0     0     1     0     0     0     1
## X6307     0     0     0     0     0     0     0     0     0     0     0     0
## X6401     0     0     0     0     1     0     0     0     1     1     0     1
## X6403     0     0     0     0     1     0     0     0     1     1     0     1
## X6404     0     1     1     0     0     0     0     1     0     0     0     1
##       X2512 X2517 X2519 X2520 X2522 X2525 X2530 X2602 X2606 X2607 X2608 X2710
## X102      0     1     0     0     0     0     1     0     1     0     0     0
## X210      0     0     0     0     0     0     0     0     0     0     0     1
## X401      0     0     1     0     0     0     1     0     1     0     0     0
## X403      0     0     0     0     0     0     1     0     1     0     0     1
## X406      0     0     0     0     0     0     0     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     1     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     1     0     0     0     1     1     0     0     1     1     0
## X703      0     1     0     0     0     0     1     0     0     1     1     0
## X709      0     1     0     0     1     1     0     1     0     0     0     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0     1     0     1     1     1     0     1     0     0     0     0
## X804      0     1     0     1     0     0     1     0     0     1     1     0
## X805      0     1     0     1     0     0     0     1     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     1     0     0     0     0     1     0     1     0     0     0
## X813      0     1     0     0     0     0     0     0     0     0     0     0
## X901      0     1     0     0     0     0     0     1     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     0     0     1
## X1001     0     1     0     0     1     1     0     0     0     0     0     0
## X1003     0     1     1     0     0     0     1     0     1     0     0     0
## X1005     0     1     0     0     1     0     1     0     0     0     0     0
## X1102     0     0     1     0     0     0     0     0     0     0     0     0
## X1108     0     0     1     0     0     0     0     0     0     0     0     0
## X1202     0     1     0     1     0     0     0     0     0     0     0     0
## X1208     0     0     1     0     0     0     0     0     0     0     0     0
## X1213     0     1     0     0     0     1     1     0     0     0     0     0
## X1214     1     1     0     0     1     0     1     0     0     0     0     0
## X1302     1     1     0     0     1     0     1     1     0     0     0     0
## X1507     0     0     0     0     0     0     0     0     0     0     0     0
## X1514     0     0     0     0     0     0     0     0     0     0     0     0
## X1517     0     0     1     0     0     0     1     0     1     0     0     0
## X1601     0     0     0     0     0     0     0     0     0     0     0     1
## X1602     0     0     0     0     0     0     1     0     1     0     0     1
## X1704     0     1     0     0     0     0     1     0     1     0     0     1
```

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## X1806     0     0     1     0     0     0     0     0     1     0     0     1
## X1901     0     0     1     0     0     0     0     0     1     0     0     0
## X1902     0     0     0     0     0     0     0     0     0     0     0     0
## X1905     0     1     1     0     0     0     0     0     1     0     0     0
## X2001     0     0     0     0     0     0     0     0     0     0     0     0
## X2002     0     0     0     0     0     0     0     0     0     0     0     0
## X2003     0     0     0     0     0     0     0     0     0     0     0     0
## X2004     0     0     0     0     0     0     0     0     0     0     0     0
## X2005     0     1     0     0     0     0     1     0     1     0     0     0
## X2006     0     1     0     0     0     0     1     0     1     0     0     0
## X2007     0     0     0     0     0     0     1     0     1     0     0     0
## X2008     0     0     1     0     0     0     0     0     1     0     0     1
## X2101     0     0     0     0     0     0     0     0     0     0     0     0
## X2102     0     0     0     0     0     0     1     0     1     0     0     1
## X2103     0     0     0     0     0     0     0     0     0     0     0     1
## X2104     0     0     0     0     0     0     0     0     0     0     0     1
## X2106     0     0     1     0     0     0     0     0     0     0     0     1
## X2202     0     0     1     0     0     0     0     0     0     0     0     0
## X2206     0     1     0     0     0     0     0     0     0     0     0     0
## X2208     1     1     0     0     0     0     1     0     1     0     0     0
## X2209     0     0     0     0     0     0     0     0     0     0     0     0
## X2302     0     0     0     0     0     0     0     0     0     0     0     1
## X2309     0     0     1     0     0     0     0     0     0     0     0     0
## X2402     0     1     0     0     0     0     1     0     1     0     0     0
## X2403     0     1     0     0     0     0     1     0     1     0     0     0
## X2507     0     1     0     0     0     0     1     0     0     0     0     0
## X2508     0     0     1     0     0     0     1     0     1     0     0     0
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     0     0     0     1     1     1     1     0     1     1     1     0
## X2519     0     0     0     0     0     0     0     0     0     0     0     0
## X2520     0     1     0     0     0     0     0     0     0     0     0     0
## X2522     0     1     0     0     0     0     0     0     0     0     0     0
## X2525     0     1     0     0     0     0     0     0     0     0     0     0
## X2530     0     1     0     0     0     0     0     0     1     0     0     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     1     0     0     0     0     1     0     0     0     0     0
## X2607     0     1     0     0     0     0     0     0     0     0     1     0
## X2608     0     1     0     0     0     0     0     0     0     1     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     0     0
## X2713     0     0     0     0     0     0     0     0     0     0     0     0
## X2714     0     0     0     0     0     0     0     0     0     0     0     0
## X2716     1     1     0     0     0     1     1     0     1     0     0     0
## X2804     0     0     1     0     0     0     1     0     1     0     0     1
## X2811     0     0     1     0     0     0     1     0     1     0     0     1
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     0     0     1     0     0     0     0     0     0     0     0     0
## X2832     0     0     1     0     0     0     0     0     0     0     0     0
## X2833     0     0     1     0     0     0     0     0     0     0     0     0
## X2835     0     0     1     0     0     0     0     0     0     0     0     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     0     1     0     0     0     1     0     1     0     0     1
## X2903     0     0     0     0     0     0     0     0     0     0     0     0
## X2907     0     0     1     0     0     0     0     0     0     0     0     0
## X2915     0     0     1     0     0     0     0     0     0     0     0     0
## X2933     0     0     1     0     0     0     0     0     0     0     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     1     0     0     0     0     0     0     0     0     0
## X3204     0     1     1     0     0     0     1     0     1     0     0     0
## X3205     0     0     0     0     0     0     0     0     0     0     0     0
## X3206     0     0     1     0     0     0     0     0     0     0     0     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     0     0     0     0     0     0     0     0     0     0     0
## X3209     0     0     0     0     0     0     0     0     0     0     0     0
## X3210     0     0     1     0     0     0     0     0     0     0     0     0
## X3211     0     0     0     0     0     0     0     0     0     0     0     0
## X3212     0     1     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     0     0     0     0     0     0     0     0     0     0
## X3215     0     0     0     0     0     0     0     0     0     0     0     0
## X3302     0     0     1     0     0     0     0     0     0     0     0     0
## X3303     0     1     0     0     0     0     1     0     1     0     0     0
## X3304     0     1     0     0     0     0     1     0     1     0     0     0
## X3305     0     1     0     0     0     0     1     0     1     0     0     0
## X3307     0     1     0     0     0     0     1     0     1     0     0     0
## X3402     0     0     1     0     0     0     1     0     1     0     0     0
## X3403     0     0     1     0     0     0     1     0     1     0     0     0
## X3506     0     0     0     0     0     0     1     0     1     0     0     1
## X3507     0     0     1     0     0     0     0     0     0     0     0     0
## X3605     0     0     0     0     0     0     0     0     0     0     0     1
## X3701     0     0     0     0     0     0     0     0     0     0     0     0
```

```
## X3707     0     0     0     0     0     0     0     0     0     0     0     0
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     0     1     0     0     0     0     1     0     1     0     0     0
## X3809     0     1     1     0     1     0     1     0     1     0     0     0
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     0     1     0     0     0     0     0     0     0     0     0
## X3815     0     0     1     0     0     0     0     0     0     0     0     0
## X3816     0     1     0     0     0     0     1     0     1     0     0     0
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     0     1
## X3902     0     0     1     0     0     0     0     0     0     0     0     0
## X3908     0     0     0     0     0     0     1     0     1     0     0     0
## X3909     0     0     1     0     0     0     0     0     0     0     0     0
## X3910     0     0     1     0     0     0     0     0     0     0     0     0
## X3911     0     0     1     0     0     0     0     0     0     0     0     0
## X3915     0     0     1     0     0     0     0     0     0     0     0     0
## X3916     0     0     0     0     0     0     0     0     0     0     0     0
## X3917     0     1     1     0     1     0     1     0     1     0     0     0
## X3919     0     0     1     0     0     0     0     0     0     0     0     0
## X3920     0     0     1     0     0     0     0     0     0     0     0     1
## X3921     0     0     1     0     0     0     0     0     0     0     0     0
## X3923     0     1     0     0     0     0     0     0     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     1     0     0     0     0     0     0     0     0     0
## X3926     0     1     1     0     0     0     1     0     1     0     0     0
## X4001     0     0     0     0     0     0     0     0     0     0     0     0
## X4005     0     0     0     0     0     0     0     0     0     0     0     1
## X4006     0     0     0     0     0     0     0     0     0     0     0     1
## X4008     0     1     0     0     0     0     1     0     1     0     0     0
## X4009     0     0     0     0     0     0     0     0     0     0     0     1
## X4010     0     1     0     0     1     0     0     0     0     0     0     0
## X4012     0     0     0     0     0     0     0     0     0     0     0     1
## X4013     0     0     0     0     0     0     0     0     0     0     0     1
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     0     0     0     0     1
## X4202     0     1     1     0     0     0     1     0     0     0     0     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     0     1     0     0     0     0     0     0     0     0     0
## X4415     0     0     1     0     0     0     0     0     0     0     0     1
## X4416     1     1     1     0     1     0     0     0     0     0     0     0
## X4418     0     1     0     0     0     1     0     0     0     0     0     0
## X4420     0     1     0     0     0     0     0     0     0     0     0     0
## X4421     0     1     0     0     0     0     1     0     1     0     0     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     1     0     0     0     0     0     0     0     0     0
## X4808     0     0     1     0     0     0     0     0     0     0     0     0
## X4818     0     0     0     0     0     0     0     0     0     0     0     0
## X4819     0     0     0     0     0     0     0     0     0     0     0     0
## X4821     0     0     0     0     0     0     0     0     0     0     0     0
## X4822     0     0     1     0     0     0     0     0     0     0     0     0
## X4823     0     0     1     0     0     0     0     0     0     0     0     0
## X4901     0     1     0     0     0     0     1     0     1     0     0     0
## X4902     0     1     0     0     0     0     1     0     1     0     0     0
## X4907     0     1     0     0     0     0     1     0     1     0     0     0
## X4911     0     0     0     0     0     0     1     0     1     0     0     0
## X5111     1     0     1     0     0     0     0     0     0     0     0     0
## X5112     1     0     0     0     0     0     0     0     0     0     0     0
## X5205     0     0     0     0     0     0     0     0     0     0     0     0
## X5206     0     0     0     0     0     0     0     0     0     0     0     0
## X5208     0     0     0     0     0     0     0     0     0     0     0     0
## X5209     0     0     0     0     0     0     0     0     0     0     0     0
## X5210     0     1     0     0     0     0     0     0     0     0     0     0
## X5211     0     0     0     0     0     0     0     0     0     0     0     0
## X5402     0     0     0     0     0     0     0     0     0     0     0     0
## X5407     0     0     1     0     0     0     1     0     1     0     0     0
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     1     0     0     0     0     0     0     0     0     0     0
## X5508     0     0     0     0     0     0     1     0     1     0     0     0
## X5509     0     1     0     0     0     0     0     0     0     0     0     0
## X5511     0     1     0     0     0     0     0     0     0     0     0     0
## X5512     0     1     0     0     0     0     0     0     0     0     0     0
## X5513     0     1     0     0     0     0     0     0     0     0     0     0
## X5514     0     0     0     0     0     0     0     0     0     0     0     0
## X5515     1     0     0     0     0     0     0     0     0     0     0     0
## X5516     0     1     0     0     0     0     0     0     0     0     0     0
## X5601     0     1     0     0     0     0     1     0     1     0     0     0
## X5603     0     0     1     0     0     0     0     0     0     0     0     0
```

```
## X5609     0     1     0     0     0     0     0     0     0     0     0     0
## X5806     0     0     0     0     0     0     0     0     0     0     0     0
## X5807     0     0     0     0     0     0     0     0     0     0     0     0
## X5903     0     0     1     0     0     0     0     0     0     0     0     0
## X5907     0     0     0     0     0     0     0     0     0     0     0     0
## X5911     1     1     0     0     0     0     0     0     0     0     0     0
## X6002     0     0     1     0     0     0     0     0     1     0     0     0
## X6101     0     0     0     0     0     0     0     0     0     0     0     0
## X6103     0     0     0     0     0     0     0     0     0     0     0     0
## X6104     0     0     0     0     0     0     1     0     1     0     0     0
## X6105     0     0     0     0     0     0     0     0     0     0     0     0
## X6106     0     0     0     0     0     0     1     0     1     0     0     0
## X6107     0     0     0     0     0     0     0     0     0     0     0     0
## X6109     0     0     0     0     0     0     0     0     0     0     0     0
## X6110     0     1     0     0     0     0     0     0     0     0     0     0
## X6111     0     0     0     0     0     0     0     0     0     0     0     0
## X6112     0     1     0     0     1     0     0     0     0     0     0     0
## X6114     1     1     0     0     0     0     1     0     0     0     0     0
## X6115     0     0     0     0     0     0     1     0     1     0     0     0
## X6117     0     0     0     0     0     0     0     0     0     0     0     0
## X6201     0     0     0     0     0     0     0     0     0     0     0     0
## X6202     0     0     0     0     0     0     0     0     0     0     0     0
## X6203     0     0     0     0     0     0     0     0     0     0     0     0
## X6204     0     0     0     0     0     0     0     0     0     0     0     0
## X6205     0     0     0     0     0     0     1     0     1     0     0     0
## X6206     0     1     0     0     0     0     1     0     1     0     0     0
## X6210     0     0     0     0     0     0     0     0     0     0     0     0
## X6211     0     0     0     0     0     0     0     0     0     0     0     0
## X6212     0     0     1     0     0     1     0     0     0     0     0     0
## X6217     0     0     0     0     0     0     0     0     0     0     0     0
## X6302     0     0     0     0     0     0     0     0     0     0     0     0
## X6303     0     0     0     0     0     0     0     0     0     0     0     0
## X6304     0     0     0     0     0     0     0     0     0     0     0     0
## X6305     0     0     1     0     0     0     0     0     0     0     0     0
## X6306     0     0     1     0     0     0     0     0     0     0     0     0
## X6307     0     0     0     0     0     0     0     0     0     0     0     0
## X6401     0     1     0     0     0     0     1     0     1     0     0     0
## X6403     0     1     0     0     0     0     1     0     1     0     0     0
## X6404     0     0     1     0     0     0     0     0     0     0     0     0
##       X2713 X2714 X2716 X2804 X2811 X2825 X2826 X2832 X2833 X2835 X2836 X2901
## X102      0     0     1     1     1     0     0     0     0     0     0     1
## X210      0     0     0     1     1     0     0     0     0     0     0     1
## X401      0     0     0     1     1     0     1     1     1     1     0     1
## X403      0     0     1     1     1     0     0     0     0     0     0     1
## X406      0     0     0     0     0     0     0     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     1     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     1     0     0     0     0     0     0     0     1     0
## X703      0     0     1     0     0     0     0     0     0     0     0     0
## X709      0     0     1     0     0     0     0     0     0     0     1     0
## X712      0     0     0     0     0     1     0     0     0     0     0     0
## X713      0     0     1     0     0     0     0     0     0     0     1     0
## X804      0     0     1     0     0     0     0     0     0     0     0     0
## X805      0     0     1     0     0     0     0     0     0     0     0     0
## X808      0     0     1     0     0     0     0     0     0     0     0     0
## X809      0     0     1     1     1     0     0     0     0     0     0     1
## X813      0     0     0     0     0     0     0     0     0     0     0     0
## X901      0     0     1     0     0     0     0     0     0     0     0     0
## X904      0     0     0     1     1     0     0     0     0     0     0     1
## X1001     0     0     1     0     0     0     0     0     0     0     1     0
## X1003     0     0     0     1     1     0     1     1     1     1     0     1
## X1005     0     0     1     0     0     0     0     0     0     0     0     0
## X1102     0     0     0     1     1     0     1     1     1     1     0     1
## X1108     0     0     0     1     1     0     1     1     1     1     0     1
## X1202     0     0     1     0     0     0     0     0     0     0     0     0
## X1208     0     0     0     1     1     0     1     1     1     1     0     1
## X1213     0     0     1     0     0     0     0     0     0     0     0     0
## X1214     0     0     1     0     0     0     0     0     0     0     1     0
## X1302     0     0     1     0     0     0     0     0     0     0     1     0
## X1507     0     0     0     0     0     0     0     0     0     0     0     0
## X1514     0     0     0     0     0     0     0     0     0     0     0     0
## X1517     0     0     0     1     1     0     1     1     1     1     0     1
## X1601     0     0     0     1     1     0     0     0     0     0     0     1
## X1602     0     0     0     1     1     0     0     0     0     0     0     1
## X1704     0     0     1     1     1     0     0     0     0     0     0     1
## X1806     0     0     1     1     1     0     1     1     1     1     0     1
## X1901     0     0     1     0     0     0     1     1     1     1     0     0
## X1902     0     0     0     0     0     0     0     0     0     0     0     0
```

```
## X1905     1     1     1     0     0     0     1     1     1     1     0     0
## X2001     0     0     0     0     0     0     0     0     0     0     0     0
## X2002     0     0     0     0     0     0     0     0     0     0     0     0
## X2003     0     0     0     0     0     0     0     0     0     0     0     0
## X2004     0     0     0     0     0     0     0     0     0     0     0     0
## X2005     0     0     1     0     0     0     0     0     0     0     0     0
## X2006     0     0     1     1     1     0     0     0     0     0     0     1
## X2007     0     0     1     1     1     0     0     0     0     0     0     1
## X2008     0     0     1     1     1     0     1     1     1     1     1     1
## X2101     0     0     0     0     0     0     0     0     0     0     0     0
## X2102     0     0     1     1     1     0     0     0     0     0     0     1
## X2103     0     0     0     1     1     0     0     0     0     0     0     1
## X2104     0     0     0     1     1     0     0     0     0     0     0     1
## X2106     0     0     0     1     1     0     1     1     1     1     0     1
## X2202     0     0     0     0     0     0     1     1     1     1     0     0
## X2206     0     0     0     0     0     0     0     0     0     0     0     0
## X2208     0     0     1     1     1     0     0     0     0     0     0     1
## X2209     0     0     0     0     0     0     0     0     0     0     0     0
## X2302     0     0     0     1     1     0     0     0     0     0     0     1
## X2309     0     0     0     1     1     0     1     1     1     1     0     1
## X2402     0     0     1     1     1     0     0     0     0     0     0     1
## X2403     0     0     1     1     1     0     0     0     0     0     0     1
## X2507     0     0     1     0     0     0     0     0     0     0     0     0
## X2508     0     0     0     1     1     0     1     1     1     1     0     1
## X2512     0     0     1     0     0     0     0     0     0     0     0     0
## X2517     0     0     1     0     0     0     0     0     0     0     0     0
## X2519     0     0     0     1     1     0     1     1     1     1     0     1
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     1     0     0     0     0     0     0     0     0     0
## X2530     0     0     1     1     1     0     0     0     0     0     0     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     1     1     1     0     0     0     0     0     0     1
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     1     1     0     0     0     0     0     0     1
## X2713     0     1     0     0     0     0     0     0     0     0     0     0
## X2714     1     0     0     0     0     0     0     0     0     0     0     0
## X2716     0     0     0     0     0     0     0     0     0     0     0     0
## X2804     0     0     0     0     1     0     1     1     1     1     0     1
## X2811     0     0     0     1     0     0     1     1     1     1     0     1
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     0     0     0     1     1     0     0     1     1     1     0     1
## X2832     0     0     0     1     1     0     1     0     1     1     0     1
## X2833     0     0     0     1     1     0     1     1     0     1     0     1
## X2835     0     0     0     1     1     0     1     1     1     0     0     1
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     0     0     1     1     0     1     1     1     1     0     0
## X2903     1     1     1     0     0     0     0     0     0     0     0     0
## X2907     0     0     0     1     1     0     1     1     1     1     0     1
## X2915     0     0     0     1     1     0     1     1     1     1     0     1
## X2933     0     0     0     1     1     0     1     1     1     1     0     1
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     0     1     1     0     1     1     1     1     0     1
## X3204     0     0     0     1     1     0     1     1     1     1     0     1
## X3205     1     1     0     0     0     0     0     0     0     0     0     0
## X3206     1     1     0     0     0     0     1     1     1     1     0     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     1     1     0     0     0     1     0     0     0     0     0     0
## X3209     1     1     0     0     0     0     0     0     0     0     0     0
## X3210     0     0     0     1     1     0     1     1     1     1     0     1
## X3211     1     1     0     0     0     0     0     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     1     1     1     0     0     0     0     0     0     0     0     0
## X3215     1     1     0     0     0     0     0     0     0     0     0     0
## X3302     0     0     0     1     1     0     1     1     1     1     0     1
## X3303     0     0     1     1     1     0     0     0     0     0     0     1
## X3304     0     0     1     1     1     0     0     0     0     0     0     1
## X3305     0     0     1     1     1     0     0     0     0     0     0     1
## X3307     0     0     1     1     1     0     0     0     0     0     0     1
## X3402     0     0     1     1     1     0     1     1     1     1     0     1
## X3403     0     0     0     1     1     0     1     1     1     1     1     1
## X3506     1     1     0     1     1     0     0     0     0     0     0     1
## X3507     0     0     0     1     1     0     1     1     1     1     0     1
## X3605     0     0     0     1     1     0     0     0     0     0     0     1
## X3701     1     1     0     0     0     0     0     0     0     0     0     0
## X3707     1     1     0     0     0     0     0     0     0     0     0     0
## X3802     0     0     1     0     0     0     0     0     0     0     0     0
## X3808     0     0     1     1     1     0     0     0     0     0     0     1
```

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## X3809     0     0     1     1     1     0     1     1     1     1     0     1
## X3810     0     0     0     0     0     1     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     1     0
## X3814     1     1     0     0     0     0     1     1     1     1     0     0
## X3815     0     0     0     1     1     0     1     1     1     1     0     1
## X3816     0     0     1     1     1     0     0     0     0     0     0     1
## X3819     0     0     0     0     0     0     0     0     0     0     1     0
## X3820     0     0     0     0     0     0     0     0     0     0     1     0
## X3823     0     0     0     1     1     0     0     0     0     0     0     1
## X3902     0     0     0     1     1     0     1     1     1     1     0     1
## X3908     0     0     1     1     1     0     0     0     0     0     0     1
## X3909     0     0     0     1     1     0     1     1     1     1     0     1
## X3910     0     0     0     1     1     0     1     1     1     1     0     1
## X3911     0     0     0     1     1     0     1     1     1     1     0     1
## X3915     0     0     0     1     1     0     1     1     1     1     0     1
## X3916     1     1     0     0     0     0     0     0     0     0     0     0
## X3917     0     0     0     1     1     0     1     1     1     1     0     1
## X3919     1     1     0     0     0     0     1     1     1     1     0     0
## X3920     1     1     0     1     1     0     1     1     1     1     0     1
## X3921     1     1     0     0     0     0     1     1     1     1     1     0
## X3923     0     0     0     0     0     0     0     0     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     0     1     1     0     1     1     1     1     0     1
## X3926     0     0     1     1     1     0     1     1     1     1     0     1
## X4001     1     1     0     0     0     0     0     0     0     0     0     0
## X4005     0     0     0     1     1     0     0     0     0     0     0     1
## X4006     0     0     0     1     1     0     0     0     0     0     0     1
## X4008     0     0     1     1     1     0     0     0     0     0     0     1
## X4009     0     0     0     1     1     0     0     0     0     0     0     1
## X4010     0     0     0     0     0     0     0     0     0     0     0     0
## X4012     0     0     0     1     1     0     0     0     0     0     0     1
## X4013     0     0     0     1     1     0     0     0     0     0     0     1
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     1     1     0     0     0     0     0     0     1
## X4202     1     1     0     0     0     0     1     1     1     1     0     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     0     0     0     0     0     1     1     1     1     0     0
## X4415     0     0     0     1     1     0     1     1     1     1     0     1
## X4416     0     0     1     0     0     0     1     1     1     1     0     0
## X4418     0     0     1     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     0
## X4421     0     0     1     1     1     0     0     0     0     0     0     1
## X4602     0     0     1     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     1     1     0     1     1     1     1     0     1
## X4808     1     1     0     0     0     0     1     1     1     1     0     0
## X4818     1     1     0     0     0     0     0     0     0     0     0     0
## X4819     0     0     0     0     0     0     0     0     0     0     0     0
## X4821     1     1     0     0     0     0     0     0     0     0     0     0
## X4822     0     0     0     1     1     0     1     1     1     1     0     1
## X4823     0     0     1     1     1     0     1     1     1     1     0     1
## X4901     0     0     1     1     1     0     0     0     0     0     0     1
## X4902     0     0     1     1     1     0     0     0     0     0     0     1
## X4907     0     0     1     1     1     0     0     0     0     0     0     1
## X4911     0     0     1     1     1     0     0     0     0     0     0     1
## X5111     0     0     1     1     1     0     1     1     1     1     0     1
## X5112     0     0     1     0     0     0     0     0     0     0     0     0
## X5205     1     1     0     0     0     0     0     0     0     0     0     0
## X5206     1     1     0     0     0     0     0     0     0     0     0     0
## X5208     1     1     0     0     0     0     0     0     0     0     0     0
## X5209     1     1     0     0     0     0     0     0     0     0     0     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     1     1     0     0     0     0     0     0     0     0     0     0
## X5402     1     1     1     0     0     0     0     0     0     0     0     0
## X5407     1     1     0     1     1     0     1     1     1     1     0     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     0
## X5508     0     0     1     0     0     0     0     0     0     0     0     0
## X5509     1     1     0     0     0     0     0     0     0     0     0     0
## X5511     0     0     0     0     0     0     0     0     0     0     0     0
## X5512     0     0     0     0     0     0     0     0     0     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     1     1     0     0     0     0     0     0     0     0     0     0
## X5515     0     0     1     0     0     0     0     0     0     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     0     1     1     1     0     0     0     0     0     0     1
## X5603     0     0     0     0     0     0     1     1     1     1     0     0
## X5609     0     0     0     0     0     0     0     0     0     0     0     0
## X5806     1     1     0     0     0     0     0     0     0     0     0     0
## X5807     1     1     0     0     0     0     0     0     0     0     0     0
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## X5903     0     0     0     1     1     0     1     1     1     1     0     1
## X5907     0     0     0     0     0     0     0     0     0     0     0     0
## X5911     1     1     1     0     0     0     0     0     0     0     0     0
## X6002     1     1     0     0     0     0     1     1     1     1     0     0
## X6101     0     0     0     0     0     0     0     0     0     0     0     0
## X6103     1     1     0     0     0     0     0     0     0     0     0     0
## X6104     1     1     1     0     0     0     0     0     0     0     0     0
## X6105     0     0     0     0     0     0     0     0     0     0     0     0
## X6106     1     1     1     0     0     0     0     0     0     0     0     0
## X6107     1     1     0     0     0     0     0     0     0     0     0     0
## X6109     1     1     0     0     0     0     0     0     0     0     0     0
## X6110     0     0     0     0     0     0     0     0     0     0     0     0
## X6111     1     1     0     0     0     0     0     0     0     0     0     0
## X6112     1     1     0     0     0     0     0     0     0     0     0     0
## X6114     1     1     1     0     0     0     0     0     0     0     0     0
## X6115     1     1     1     0     0     0     0     0     0     0     0     0
## X6117     0     0     0     0     0     0     0     0     0     0     0     0
## X6201     1     1     0     0     0     0     0     0     0     0     0     0
## X6202     1     1     0     0     0     0     0     0     0     0     0     0
## X6203     1     1     0     0     0     0     0     0     0     0     0     0
## X6204     1     1     0     0     0     0     0     0     0     0     0     0
## X6205     0     0     1     1     1     0     0     0     0     0     0     1
## X6206     1     1     0     0     0     0     0     0     0     0     0     0
## X6210     1     1     0     0     0     0     0     0     0     0     0     0
## X6211     1     1     0     0     0     0     0     0     0     0     1     0
## X6212     1     1     0     0     0     0     1     1     1     1     1     0
## X6217     1     1     0     0     0     0     0     0     0     0     0     0
## X6302     1     1     0     0     0     0     0     0     0     0     0     0
## X6303     1     1     0     0     0     0     0     0     0     0     0     0
## X6304     1     1     0     0     0     0     0     0     0     0     0     0
## X6305     1     1     0     0     0     0     1     1     1     1     0     0
## X6306     0     0     0     1     1     0     1     1     1     1     0     1
## X6307     1     1     0     0     0     0     0     0     0     0     0     0
## X6401     0     0     1     1     1     0     0     0     0     0     0     1
## X6403     0     0     1     1     1     0     0     0     0     0     1     1
## X6404     0     0     0     1     1     0     1     1     1     1     0     1
##       X2903 X2907 X2915 X2933 X3105 X3202 X3204 X3205 X3206 X3207 X3208 X3209
## X102      0     0     0     0     0     0     1     0     0     0     0     0
## X210      0     0     0     0     0     0     0     0     0     0     0     0
## X401      0     1     1     1     0     1     1     0     1     0     0     0
## X403      0     0     0     0     0     0     0     0     0     0     0     0
## X406      0     0     0     0     0     0     0     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     0     0     0     0     0     0     0     1     0     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      1     0     0     0     1     0     0     0     0     1     1     0
## X712      0     0     0     0     0     0     0     0     0     0     1     0
## X713      0     0     0     0     1     0     0     0     0     1     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     0     0     0     1     0     0     0     0     0
## X813      0     0     0     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     0     0     0
## X1001     1     0     0     0     1     0     0     0     0     0     0     0
## X1003     0     1     1     1     0     1     1     0     0     0     0     0
## X1005     0     0     0     0     1     0     0     0     0     0     0     0
## X1102     0     1     1     1     0     1     1     0     1     0     0     0
## X1108     0     1     1     1     0     1     1     0     1     0     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     1     1     1     0     1     1     0     1     0     0     0
## X1213     1     0     0     0     1     0     0     0     0     1     1     0
## X1214     1     0     0     0     1     0     0     0     0     1     1     0
## X1302     1     0     0     0     1     0     0     0     0     1     1     0
## X1507     0     0     0     0     0     0     0     0     0     0     0     0
## X1514     0     0     0     0     0     0     0     0     0     0     0     0
## X1517     0     1     1     1     0     1     1     0     1     0     0     0
## X1601     0     0     0     0     0     0     0     0     0     0     0     0
## X1602     0     0     0     0     0     0     0     0     0     0     0     0
## X1704     0     0     0     0     1     0     0     0     0     0     0     0
## X1806     0     1     1     1     1     1     1     0     0     0     0     0
## X1901     0     1     1     1     1     1     1     0     0     0     0     0
## X1902     0     0     0     0     0     0     0     0     0     0     0     0
## X1905     1     1     1     1     1     1     1     1     1     0     0     1
## X2001     0     0     0     0     0     0     0     0     0     0     0     0
## X2002     0     0     0     0     0     0     0     0     0     0     0     0
```

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## X2003     0     0     0     0     0     0     0     0     0     0     0     0
## X2004     0     0     0     0     0     0     0     0     0     0     0     0
## X2005     0     0     0     0     1     0     0     0     0     0     0     0
## X2006     0     0     0     0     0     0     1     0     0     0     0     0
## X2007     0     0     0     0     0     0     1     0     0     0     0     0
## X2008     0     1     1     1     1     1     1     0     0     0     0     0
## X2101     0     0     0     0     0     0     0     0     0     0     0     0
## X2102     0     0     0     0     0     0     1     0     0     0     0     0
## X2103     0     0     0     0     0     0     0     0     0     0     0     0
## X2104     0     0     0     0     0     0     0     0     0     0     0     0
## X2106     0     1     1     1     0     1     0     0     1     0     0     0
## X2202     0     1     1     1     0     1     1     0     1     0     0     0
## X2206     0     0     0     0     0     0     0     0     0     0     0     0
## X2208     0     0     0     0     0     0     1     0     0     0     0     0
## X2209     0     0     0     0     0     0     0     0     0     0     0     0
## X2302     0     0     0     0     0     0     0     0     0     0     0     0
## X2309     0     1     1     1     0     1     1     0     1     0     0     0
## X2402     0     0     0     0     0     0     1     0     0     0     0     0
## X2403     0     0     0     0     0     0     1     0     0     0     0     0
## X2507     0     0     0     0     0     0     0     0     0     0     0     0
## X2508     0     1     1     1     0     1     1     0     1     0     0     0
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     0     0     0     0     0     0     1     0     0     0     0     0
## X2519     0     1     1     1     0     1     1     0     1     0     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     0     0     0     0     0     1     0     0     0     0     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     0     0     0     1     0     0     0     0     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     0     0
## X2713     1     0     0     0     0     0     0     1     1     0     1     1
## X2714     1     0     0     0     0     0     0     1     1     0     1     1
## X2716     1     0     0     0     0     0     0     0     0     0     0     0
## X2804     0     1     1     1     0     1     1     0     0     0     0     0
## X2811     0     1     1     1     0     1     1     0     0     0     0     0
## X2825     0     0     0     0     0     0     0     0     0     0     1     0
## X2826     0     1     1     1     0     1     1     0     1     0     0     0
## X2832     0     1     1     1     0     1     1     0     1     0     0     0
## X2833     0     1     1     1     0     1     1     0     1     0     0     0
## X2835     0     1     1     1     0     1     1     0     1     0     0     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     1     1     1     0     1     1     0     0     0     0     0
## X2903     0     0     0     0     0     0     0     1     1     0     1     1
## X2907     0     0     1     1     0     1     1     0     1     0     0     0
## X2915     0     1     0     1     0     1     1     0     1     0     0     0
## X2933     0     1     1     0     0     1     1     0     1     0     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     1     1     1     0     0     1     0     1     0     0     0
## X3204     0     1     1     1     0     1     0     0     1     0     0     0
## X3205     1     0     0     0     0     0     0     0     1     0     1     1
## X3206     1     1     1     1     0     1     1     1     0     0     1     1
## X3207     0     0     0     0     0     0     0     0     0     0     1     0
## X3208     1     0     0     0     0     0     0     1     1     1     0     1
## X3209     1     0     0     0     0     0     0     1     1     0     1     0
## X3210     0     1     1     1     0     1     1     0     1     0     0     0
## X3211     1     0     0     0     0     0     0     1     1     0     1     1
## X3212     0     0     0     0     0     0     1     0     0     0     0     0
## X3214     1     0     0     0     0     0     0     1     1     0     1     1
## X3215     1     0     0     0     0     0     0     1     1     0     1     1
## X3302     0     1     1     1     0     1     1     0     1     0     0     0
## X3303     0     0     0     0     0     0     1     0     0     0     0     0
## X3304     0     0     0     0     0     0     1     0     0     0     0     0
## X3305     0     0     0     0     0     0     1     0     0     0     0     0
## X3307     0     0     0     0     0     0     1     0     0     0     0     0
## X3402     0     1     1     1     0     1     1     0     0     0     0     0
## X3403     0     1     1     1     0     1     1     0     1     0     0     0
## X3506     1     0     0     0     0     0     0     1     0     0     1     1
## X3507     0     1     1     1     0     1     1     0     1     0     0     0
## X3605     0     0     0     0     0     0     0     0     0     0     0     0
## X3701     1     0     0     0     0     0     0     1     1     0     1     1
## X3707     1     0     0     0     0     0     0     1     1     0     1     1
## X3802     1     0     0     0     0     0     0     0     0     0     0     0
## X3808     0     0     0     0     0     0     1     0     0     0     0     0
## X3809     0     1     1     1     0     1     1     0     0     0     0     0
## X3810     0     0     0     0     0     0     0     0     0     0     1     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
```

```
## X3814     1     1     1     1     0     1     1     1     1     0     1     1
## X3815     0     1     1     1     0     1     1     0     1     0     0     0
## X3816     0     0     0     0     0     0     1     0     0     0     0     0
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     0     0
## X3902     0     1     1     1     0     1     1     0     1     0     0     0
## X3908     0     0     0     0     0     0     1     0     0     0     0     0
## X3909     0     1     1     1     0     1     1     0     1     0     0     0
## X3910     0     1     1     1     0     1     1     0     1     0     0     0
## X3911     0     1     1     1     0     1     1     0     1     0     0     0
## X3915     0     1     1     1     0     1     1     0     1     0     0     0
## X3916     1     0     0     0     0     0     0     1     1     0     1     1
## X3917     0     1     1     1     0     1     1     0     0     0     0     0
## X3919     1     1     1     1     0     1     1     1     1     0     1     1
## X3920     1     1     1     1     0     1     0     1     1     0     1     1
## X3921     1     1     1     1     0     1     1     1     1     0     1     1
## X3923     0     0     0     0     0     0     0     0     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     1     1     1     0     1     1     0     1     0     0     0
## X3926     1     1     1     1     0     1     1     0     0     0     0     0
## X4001     1     0     0     0     0     0     0     1     1     0     1     1
## X4005     0     0     0     0     0     0     0     0     0     0     0     0
## X4006     0     0     0     0     0     0     0     0     0     0     0     0
## X4008     0     0     0     0     0     0     1     0     0     0     0     0
## X4009     0     0     0     0     0     0     0     0     0     0     0     0
## X4010     0     0     0     0     0     0     0     0     0     0     0     0
## X4012     0     0     0     0     0     0     0     0     0     0     0     0
## X4013     0     0     0     0     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     0     0     0     0     0
## X4202     1     1     1     1     0     1     0     1     1     0     1     1
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     1     1     1     0     1     0     0     1     0     0     0
## X4415     0     1     1     1     0     1     0     0     1     0     0     0
## X4416     0     1     1     1     0     1     1     0     1     0     0     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     0
## X4421     0     0     0     0     0     0     1     0     0     0     0     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     1     1     1     0     1     1     0     1     0     0     0
## X4808     1     1     1     1     0     1     0     1     1     0     1     1
## X4818     1     0     0     0     0     0     0     1     1     0     1     1
## X4819     0     0     0     0     0     0     0     0     0     0     0     0
## X4821     1     0     0     0     0     0     0     1     1     0     1     1
## X4822     0     1     1     1     0     1     1     0     1     0     0     0
## X4823     1     1     1     1     0     1     1     0     1     0     0     0
## X4901     0     0     0     0     0     0     1     0     0     0     0     0
## X4902     0     0     0     0     0     0     1     0     0     0     0     0
## X4907     0     0     0     0     0     0     1     0     0     0     0     0
## X4911     0     0     0     0     0     0     1     0     0     0     0     0
## X5111     0     1     1     1     0     1     1     0     1     0     0     0
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     1     0     0     0     0     0     0     1     1     0     1     1
## X5206     1     0     0     0     0     0     0     1     1     0     1     1
## X5208     1     0     0     0     0     0     0     1     1     0     1     1
## X5209     1     0     0     0     0     0     0     1     1     0     1     1
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     1     0     0     0     0     0     0     1     1     0     1     1
## X5402     1     0     0     0     0     0     0     1     1     0     1     1
## X5407     1     1     1     1     0     1     1     1     1     0     1     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     0
## X5508     1     0     0     0     0     0     0     0     0     0     0     0
## X5509     1     0     0     0     0     0     0     1     1     0     1     1
## X5511     0     0     0     0     0     0     0     0     0     0     0     0
## X5512     0     0     0     0     0     0     0     0     0     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     1     0     0     0     0     0     0     1     1     0     1     1
## X5515     0     0     0     0     0     0     0     0     0     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     0     0     0     0     0     1     0     0     0     0     0
## X5603     0     1     1     1     0     1     1     0     1     0     0     0
## X5609     0     0     0     0     0     0     0     0     0     0     0     0
## X5806     1     0     0     0     0     0     0     1     1     0     1     1
## X5807     1     0     0     0     0     0     0     1     1     0     1     1
## X5903     0     1     1     1     0     1     1     0     1     0     0     0
## X5907     0     0     0     0     0     0     0     0     0     0     0     0
## X5911     1     0     0     0     0     0     0     1     1     0     1     1
```

```
## X6002     1     1     1     1     0     1     1     1     1     0     0     1
## X6101     0     0     0     0     0     0     0     0     0     0     0     0
## X6103     1     0     0     0     0     0     0     1     1     0     1     1
## X6104     1     0     0     0     0     0     1     1     1     0     1     1
## X6105     0     0     0     0     0     0     0     0     0     0     0     0
## X6106     1     0     0     0     0     0     1     1     1     0     1     1
## X6107     1     0     0     0     0     0     0     1     1     0     1     1
## X6109     1     0     0     0     0     0     0     1     1     0     1     1
## X6110     0     0     0     0     0     0     0     0     0     0     0     0
## X6111     1     0     0     0     0     0     0     1     1     0     1     1
## X6112     1     0     0     0     0     0     0     1     1     0     1     1
## X6114     1     0     0     0     0     0     0     1     1     0     1     1
## X6115     1     0     0     0     0     0     1     1     1     0     1     1
## X6117     0     0     0     0     0     0     0     0     0     0     0     0
## X6201     1     0     0     0     0     0     0     1     1     0     1     1
## X6202     1     0     0     0     0     0     0     1     1     0     1     1
## X6203     1     0     0     0     0     0     0     1     1     0     1     1
## X6204     1     0     0     0     0     0     0     1     1     0     1     1
## X6205     0     0     0     0     0     0     1     0     0     0     0     0
## X6206     1     0     0     0     0     0     0     1     1     0     1     1
## X6210     1     0     0     0     0     0     0     1     1     0     1     1
## X6211     1     0     0     0     0     0     0     1     1     0     1     1
## X6212     1     1     1     1     1     1     0     1     1     0     1     1
## X6217     1     0     0     0     0     0     0     1     1     0     1     1
## X6302     1     0     0     0     0     0     0     1     1     0     1     1
## X6303     1     0     0     0     0     0     0     1     1     0     1     1
## X6304     1     0     0     0     0     0     0     1     1     0     1     1
## X6305     1     1     1     1     0     1     1     1     1     0     1     1
## X6306     0     1     1     1     0     1     1     0     1     0     0     0
## X6307     1     0     0     0     0     0     0     1     1     0     1     1
## X6401     0     0     0     0     0     0     1     0     0     0     0     0
## X6403     0     0     0     0     0     0     1     0     0     0     0     0
## X6404     0     1     1     1     0     1     1     0     1     0     0     0
##       X3210 X3211 X3212 X3214 X3215 X3302 X3303 X3304 X3305 X3307 X3402 X3403
## X102      0     0     0     0     0     0     1     1     1     1     1     1
## X210      0     0     0     0     0     1     0     0     0     0     1     0
## X401      1     0     0     0     0     1     1     1     1     1     1     1
## X403      0     0     0     0     0     1     1     1     1     1     1     0
## X406      0     0     0     0     0     1     0     0     0     0     1     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     0     0     0     0     0     0     0     0     0     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     0     0     1     0     0     0     0     0     0     0     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0     0     0     0     0     0     0     0     0     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     1     0     1     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     0     0     0     1     1     1     1     1     1
## X813      0     0     0     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     1     0     1     0
## X904      0     0     0     0     0     0     0     0     0     0     0     0
## X1001     0     0     0     1     0     0     0     0     0     0     0     1
## X1003     1     0     1     0     0     0     1     1     1     1     0     1
## X1005     0     0     0     0     0     0     0     0     0     0     0     0
## X1102     1     0     0     0     0     1     0     0     0     0     1     1
## X1108     1     0     0     0     0     1     0     0     0     0     1     1
## X1202     0     0     0     0     0     0     0     0     1     0     1     0
## X1208     1     0     0     0     0     1     0     0     0     0     1     1
## X1213     0     0     0     1     0     0     0     0     1     0     0     0
## X1214     0     0     0     1     0     0     0     0     0     0     0     0
## X1302     0     0     0     1     0     0     0     0     0     0     0     0
## X1507     0     0     0     0     0     1     0     0     0     0     1     0
## X1514     0     0     0     0     0     1     0     0     0     0     1     0
## X1517     1     0     0     0     0     1     1     1     1     1     1     1
## X1601     0     0     0     0     0     1     0     0     0     0     1     0
## X1602     0     0     0     0     0     1     1     1     1     1     1     0
## X1704     0     0     0     0     0     0     1     1     1     1     1     0
## X1806     1     0     0     0     0     0     1     1     1     1     1     1
## X1901     1     0     0     0     0     1     1     1     1     1     1     1
## X1902     0     0     0     0     0     1     0     0     0     0     1     0
## X1905     1     1     1     1     1     0     1     1     1     1     1     1
## X2001     0     0     0     0     0     1     0     0     0     0     1     0
## X2002     0     0     0     0     0     1     0     0     0     0     1     0
## X2003     0     0     0     0     0     1     0     0     0     0     1     0
## X2004     0     0     0     0     0     1     0     0     0     0     1     0
## X2005     0     0     0     0     0     1     1     1     1     1     1     0
```

```
## X2006     0     0     0     0     0     0     1     1     1     1     1     1
## X2007     0     0     0     0     0     1     1     1     1     1     1     1
## X2008     1     0     0     0     0     0     1     1     1     1     1     1
## X2101     0     0     0     0     0     1     0     0     0     0     1     0
## X2102     0     0     0     0     0     0     1     1     1     1     1     1
## X2103     0     0     0     0     0     1     0     0     0     0     1     0
## X2104     0     0     0     0     0     0     0     0     0     0     0     0
## X2106     1     0     0     0     0     1     0     0     0     0     1     0
## X2202     1     0     0     0     0     1     0     0     0     0     1     1
## X2206     0     0     0     0     0     0     0     0     0     0     0     0
## X2208     0     0     0     0     0     0     1     1     1     1     1     1
## X2209     0     0     0     0     0     1     0     0     0     0     1     0
## X2302     0     0     0     0     0     0     0     0     0     0     0     0
## X2309     1     0     0     0     0     1     0     0     0     0     1     1
## X2402     0     0     0     0     0     0     1     1     1     1     1     1
## X2403     0     0     0     0     0     0     1     1     1     1     1     1
## X2507     0     0     0     0     0     0     0     0     0     0     0     0
## X2508     1     0     0     0     0     1     1     1     1     1     1     1
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     0     0     1     0     0     0     1     1     1     1     0     0
## X2519     1     0     0     0     0     1     0     0     0     0     1     1
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     0     0     0     0     0     1     1     1     1     1     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     0     0     0     1     1     1     1     1     1
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     0     0
## X2713     0     1     0     1     1     0     0     0     0     0     0     0
## X2714     0     1     0     1     1     0     0     0     0     0     0     0
## X2716     0     0     0     1     0     0     1     1     1     1     1     0
## X2804     1     0     0     0     0     1     1     1     1     1     1     1
## X2811     1     0     0     0     0     1     1     1     1     1     1     1
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     1     0     0     0     0     1     0     0     0     0     1     1
## X2832     1     0     0     0     0     1     0     0     0     0     1     1
## X2833     1     0     0     0     0     1     0     0     0     0     1     1
## X2835     1     0     0     0     0     1     0     0     0     0     1     1
## X2836     0     0     0     0     0     0     0     0     0     0     0     1
## X2901     1     0     0     0     0     1     1     1     1     1     1     1
## X2903     0     1     0     1     1     0     0     0     0     0     0     0
## X2907     1     0     0     0     0     1     0     0     0     0     1     1
## X2915     1     0     0     0     0     1     0     0     0     0     1     1
## X2933     1     0     0     0     0     1     0     0     0     0     1     1
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     1     0     0     0     0     1     0     0     0     0     1     1
## X3204     1     0     1     0     0     1     1     1     1     1     1     1
## X3205     0     1     0     1     1     0     0     0     0     0     0     0
## X3206     1     1     0     1     1     1     0     0     0     0     0     1
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     1     0     1     1     0     0     0     0     0     0     0
## X3209     0     1     0     1     1     0     0     0     0     0     0     0
## X3210     0     0     0     0     0     1     0     0     0     0     1     1
## X3211     0     0     0     1     1     0     0     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     1     0     0     1     0     0     0     0     0     0     0
## X3215     0     1     0     1     0     0     0     0     0     0     0     0
## X3302     1     0     0     0     0     0     0     0     0     0     1     1
## X3303     0     0     0     0     0     0     0     1     1     1     1     1
## X3304     0     0     0     0     0     0     1     0     1     1     1     1
## X3305     0     0     0     0     0     0     1     1     0     1     1     1
## X3307     0     0     0     0     0     0     1     1     1     0     1     1
## X3402     1     0     0     0     0     1     1     1     1     1     0     1
## X3403     1     0     0     0     0     1     1     1     1     1     1     0
## X3506     0     1     0     1     1     0     1     1     1     1     1     0
## X3507     1     0     0     0     0     1     0     0     0     0     1     1
## X3605     0     0     0     0     0     0     0     0     0     0     0     0
## X3701     0     1     0     1     1     0     0     0     0     0     0     0
## X3707     0     1     0     1     1     0     0     0     0     0     0     0
## X3802     0     0     0     1     0     0     0     0     0     0     0     0
## X3808     0     0     0     0     0     0     1     1     1     1     1     1
## X3809     1     0     0     0     0     0     1     1     1     1     1     1
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     1
## X3814     1     1     0     1     1     1     0     0     0     0     0     1
## X3815     1     0     0     0     0     1     0     0     0     0     1     1
## X3816     0     0     0     0     0     0     1     1     1     1     1     1
```

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## X3819     0     0     0     0     0     0     0     0     0     0     0     1
## X3820     0     0     0     0     0     0     0     0     0     0     0     1
## X3823     0     0     0     0     0     0     0     0     0     0     0     0
## X3902     1     0     0     0     0     1     0     0     0     0     1     1
## X3908     0     0     0     0     0     1     1     1     1     1     1     1
## X3909     1     0     0     0     0     1     0     0     0     0     1     1
## X3910     1     0     0     0     0     1     0     0     0     0     1     1
## X3911     1     0     0     0     0     1     0     0     0     0     1     1
## X3915     1     0     0     0     0     1     0     0     0     0     1     1
## X3916     0     1     0     1     1     0     0     0     0     0     0     0
## X3917     1     0     0     0     0     0     1     1     1     1     1     1
## X3919     1     1     0     1     1     1     0     0     0     0     0     1
## X3920     1     1     0     1     1     1     0     0     0     0     0     0
## X3921     1     1     0     1     1     1     0     0     0     0     0     1
## X3923     0     0     0     0     0     1     0     0     0     0     1     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     1     0     0     0     0     1     0     0     0     0     1     1
## X3926     1     0     0     1     0     0     1     1     1     1     1     1
## X4001     0     1     0     1     1     0     0     0     0     0     0     0
## X4005     0     0     0     0     0     0     0     0     0     0     0     0
## X4006     0     0     0     0     0     0     0     0     0     0     0     0
## X4008     0     0     0     0     0     0     1     1     1     1     1     1
## X4009     0     0     0     0     0     0     0     0     0     0     0     0
## X4010     0     0     0     0     0     1     0     0     0     0     1     0
## X4012     0     0     0     0     0     0     0     0     0     0     0     0
## X4013     0     0     0     0     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     0     0     0     0     0
## X4202     1     1     0     1     1     1     0     0     0     0     0     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     1     0     0     0     0     1     0     0     0     0     1     0
## X4415     1     0     0     0     0     1     0     0     0     0     1     0
## X4416     1     0     0     0     0     1     0     0     0     0     0     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     0
## X4421     0     0     0     0     0     0     1     1     1     1     1     1
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     1     0     0     0     0     1     0     0     0     0     1     1
## X4808     1     1     0     1     1     1     0     0     0     0     0     0
## X4818     0     1     0     1     1     0     0     0     0     0     0     0
## X4819     0     0     0     0     0     1     0     0     0     0     1     0
## X4821     0     1     0     1     1     1     0     0     0     0     1     0
## X4822     1     0     0     0     0     1     0     0     0     0     1     1
## X4823     1     0     0     1     0     1     0     0     0     0     1     1
## X4901     0     0     0     0     0     0     1     1     1     1     1     1
## X4902     0     0     0     0     0     0     1     1     1     1     1     1
## X4907     0     0     0     0     0     0     1     1     1     1     1     1
## X4911     0     0     0     0     0     1     1     1     1     1     1     1
## X5111     1     0     0     0     0     1     0     0     0     0     1     1
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     0     1     0     1     1     0     0     0     0     0     0     0
## X5206     0     1     0     1     1     0     0     0     0     0     0     0
## X5208     0     1     0     1     1     0     0     0     0     0     0     0
## X5209     0     1     0     1     1     1     0     0     0     0     1     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     1     0     1     1     0     0     0     0     0     0     0
## X5402     0     1     0     1     1     0     0     0     0     0     0     0
## X5407     1     1     0     1     1     0     1     1     1     1     1     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     0
## X5508     0     0     0     1     0     1     1     1     1     1     1     0
## X5509     0     1     0     1     1     0     0     0     0     0     0     0
## X5511     0     0     0     0     0     0     0     0     0     0     0     0
## X5512     0     0     0     0     0     1     0     0     0     0     1     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     1     0     1     1     0     0     0     0     0     0     0
## X5515     0     0     0     0     0     1     0     0     0     0     1     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     0     0     0     0     0     1     1     1     1     1     1
## X5603     1     0     0     0     0     1     0     0     0     0     1     1
## X5609     0     0     0     0     0     0     0     0     0     0     0     0
## X5806     0     1     0     1     1     1     0     0     0     0     1     0
## X5807     0     1     0     1     1     1     0     0     0     0     1     0
## X5903     1     0     0     0     0     1     0     0     0     0     1     1
## X5907     0     0     0     0     0     1     0     0     0     0     1     0
## X5911     0     1     0     1     1     0     0     0     0     0     0     0
## X6002     1     1     0     1     1     1     1     1     0     1     1     1
## X6101     0     0     0     0     0     1     0     0     0     0     1     0
## X6103     0     1     0     1     1     0     0     0     0     0     0     0
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## X6104     0     1     0     1     1     0     1     1     1     1     0     1
## X6105     0     0     0     0     0     1     0     0     0     0     1     0
## X6106     0     1     0     1     1     0     1     1     1     1     0     1
## X6107     0     1     0     1     1     0     0     0     0     0     0     0
## X6109     0     1     0     1     1     0     0     0     0     0     0     0
## X6110     0     0     0     0     0     1     0     0     0     0     1     0
## X6111     0     1     0     1     1     0     0     0     0     0     0     0
## X6112     0     1     0     1     1     0     0     0     0     0     0     0
## X6114     0     1     0     1     1     0     0     0     0     0     0     0
## X6115     0     1     0     1     1     0     1     1     1     1     0     0
## X6117     0     0     0     0     0     1     0     0     0     0     1     0
## X6201     0     1     0     1     1     0     0     0     0     0     0     0
## X6202     0     1     0     1     1     0     0     0     0     0     0     0
## X6203     0     1     0     1     1     1     0     0     0     0     1     0
## X6204     0     1     0     1     1     0     0     0     0     0     0     0
## X6205     0     0     0     0     0     1     1     1     1     1     1     1
## X6206     0     1     0     1     1     0     1     1     1     1     0     0
## X6210     0     1     0     1     1     0     0     0     0     0     0     0
## X6211     0     1     0     1     1     1     0     0     0     0     0     1
## X6212     1     1     0     1     1     1     0     0     0     0     0     1
## X6217     0     1     0     1     1     0     0     0     0     0     0     0
## X6302     0     1     0     1     1     0     0     0     0     0     0     0
## X6303     0     1     0     1     1     0     0     0     0     0     0     0
## X6304     0     1     0     1     1     0     0     0     0     0     0     0
## X6305     1     1     0     1     1     1     0     0     0     0     0     1
## X6306     1     0     0     0     0     1     0     0     0     0     1     1
## X6307     0     1     0     1     1     0     0     0     0     0     0     0
## X6401     0     0     0     0     0     0     1     1     1     1     1     1
## X6403     0     0     0     0     0     0     1     1     1     1     1     1
## X6404     1     0     0     0     0     1     0     0     0     0     1     1
##       X3506 X3507 X3605 X3701 X3707 X3802 X3808 X3809 X3810 X3811 X3814 X3815
## X102      1     0     0     0     0     0     1     1     0     0     0     0
## X210      1     1     1     0     0     0     0     0     0     0     0     0
## X401      0     1     0     0     0     0     1     1     0     0     1     1
## X403      1     1     1     0     0     0     1     1     0     0     0     0
## X406      1     1     0     0     0     0     0     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     0     0     0     0     0     0     0     1     0     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     0     0     0     0     1     0     0     0     1     0     0
## X712      0     0     0     0     0     0     0     0     1     0     0     0
## X713      0     0     0     0     0     1     0     0     0     1     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     1     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      1     0     0     0     0     0     1     1     0     0     0     0
## X813      0     0     0     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     1     0     0     0     0
## X904      1     0     1     0     0     0     0     0     0     0     0     0
## X1001     0     0     0     0     0     1     0     0     0     1     0     0
## X1003     0     0     0     0     0     0     1     1     0     0     0     1
## X1005     0     0     0     0     0     0     0     0     0     0     0     0
## X1102     0     1     0     0     0     0     0     1     0     0     1     1
## X1108     0     1     0     0     0     0     0     1     0     0     1     1
## X1202     0     0     0     0     0     0     0     1     0     0     0     0
## X1208     0     1     0     0     0     0     0     1     0     0     1     1
## X1213     0     0     0     0     0     1     0     0     0     0     0     0
## X1214     0     0     0     0     0     1     0     0     0     1     0     0
## X1302     0     0     0     0     0     1     0     0     0     1     0     0
## X1507     1     1     0     0     0     0     0     0     0     0     0     0
## X1514     1     1     0     0     0     0     0     0     0     0     0     0
## X1517     0     1     0     0     0     0     1     1     0     0     1     1
## X1601     1     1     1     0     0     0     0     0     0     0     0     0
## X1602     1     1     1     0     0     0     1     0     0     0     0     0
## X1704     1     0     1     0     0     0     1     1     0     0     0     0
## X1806     0     0     1     0     0     0     1     1     0     0     0     1
## X1901     0     1     0     0     0     0     1     1     0     0     0     1
## X1902     1     1     0     0     0     0     0     0     0     0     0     0
## X1905     0     0     0     1     1     0     1     1     0     0     1     1
## X2001     1     1     0     0     0     0     0     0     0     0     0     0
## X2002     1     1     0     0     0     0     0     0     0     0     0     0
## X2003     1     1     0     0     0     0     0     0     0     0     0     0
## X2004     1     1     0     0     0     0     0     0     0     0     0     0
## X2005     1     1     0     0     0     0     1     1     0     0     0     0
## X2006     1     0     0     0     0     0     1     1     0     0     0     0
## X2007     1     1     0     0     0     0     1     0     0     0     0     0
## X2008     0     0     1     0     0     0     1     1     0     1     0     1
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## X2101     1     1     0     0     0     0     0     0     0     0     0     0
## X2102     1     0     1     0     0     0     1     1     0     0     0     0
## X2103     1     1     1     0     0     0     0     0     0     0     0     0
## X2104     1     0     1     0     0     0     0     0     0     0     0     0
## X2106     1     1     1     0     0     0     0     0     0     0     1     1
## X2202     0     1     0     0     0     0     0     0     0     0     1     1
## X2206     0     0     0     0     0     0     0     0     0     0     0     0
## X2208     1     0     0     0     0     0     1     1     0     0     0     0
## X2209     1     1     0     0     0     0     0     0     0     0     0     0
## X2302     1     0     1     0     0     0     0     0     0     0     0     0
## X2309     0     1     0     0     0     0     0     1     0     0     1     1
## X2402     1     0     0     0     0     0     1     1     0     0     0     0
## X2403     1     0     0     0     0     0     1     1     0     0     0     0
## X2507     0     0     0     0     0     0     0     0     0     0     0     0
## X2508     0     1     0     0     0     0     1     1     0     0     1     1
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     0     0     0     0     0     0     1     1     0     0     0     0
## X2519     0     1     0     0     0     0     0     1     0     0     1     1
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     1     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     1     0     0     0     0     0     1     1     0     0     0     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     1     0     0     0     0     0     1     1     0     0     0     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     1     0     1     0     0     0     0     0     0     0     0     0
## X2713     1     0     0     1     1     0     0     0     0     0     1     0
## X2714     1     0     0     1     1     0     0     0     0     0     1     0
## X2716     0     0     0     0     0     1     1     1     0     0     0     0
## X2804     1     1     1     0     0     0     1     1     0     0     0     1
## X2811     1     1     1     0     0     0     1     1     0     0     0     1
## X2825     0     0     0     0     0     0     0     0     1     0     0     0
## X2826     0     1     0     0     0     0     0     1     0     0     1     1
## X2832     0     1     0     0     0     0     0     1     0     0     1     1
## X2833     0     1     0     0     0     0     0     1     0     0     1     1
## X2835     0     1     0     0     0     0     0     1     0     0     1     1
## X2836     0     0     0     0     0     0     0     0     0     1     0     0
## X2901     1     1     1     0     0     0     1     1     0     0     0     1
## X2903     1     0     0     1     1     1     0     0     0     0     1     0
## X2907     0     1     0     0     0     0     0     1     0     0     1     1
## X2915     0     1     0     0     0     0     0     1     0     0     1     1
## X2933     0     1     0     0     0     0     0     1     0     0     1     1
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     1     0     0     0     0     0     1     0     0     1     1
## X3204     0     1     0     0     0     0     1     1     0     0     1     1
## X3205     1     0     0     1     1     0     0     0     0     0     1     0
## X3206     0     1     0     1     1     0     0     0     0     0     1     1
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     1     0     0     1     1     0     0     0     1     0     1     0
## X3209     1     0     0     1     1     0     0     0     0     0     1     0
## X3210     0     1     0     0     0     0     0     1     0     0     1     1
## X3211     1     0     0     1     1     0     0     0     0     0     1     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     1     0     0     1     1     1     0     0     0     0     1     0
## X3215     1     0     0     1     1     0     0     0     0     0     1     0
## X3302     0     1     0     0     0     0     0     0     0     0     1     1
## X3303     1     0     0     0     0     0     1     1     0     0     0     0
## X3304     1     0     0     0     0     0     1     1     0     0     0     0
## X3305     1     0     0     0     0     0     1     1     0     0     0     0
## X3307     1     0     0     0     0     0     1     1     0     0     0     0
## X3402     1     1     0     0     0     0     1     1     0     0     0     1
## X3403     0     1     0     0     0     0     1     1     0     1     1     1
## X3506     0     0     1     1     1     0     1     0     0     0     0     0
## X3507     0     0     0     0     0     0     0     0     0     0     1     1
## X3605     1     0     0     0     0     0     0     0     0     0     0     0
## X3701     1     0     0     0     1     0     0     0     0     0     1     0
## X3707     1     0     0     1     0     0     0     0     0     0     1     0
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     1     0     0     0     0     0     0     1     0     0     0     0
## X3809     0     0     0     0     0     0     1     0     0     0     0     1
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     1     0     1     1     0     0     0     0     0     0     1
## X3815     0     1     0     0     0     0     0     1     0     0     1     0
## X3816     1     0     0     0     0     0     1     1     0     0     0     0
## X3819     0     0     0     0     0     0     0     0     0     1     0     0
## X3820     0     0     0     0     0     0     0     0     0     1     0     0
## X3823     1     0     1     0     0     0     0     0     0     0     0     0
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## X3902     0     1     0     0     0     0     0     1     0     0     1     1
## X3908     1     1     0     0     0     0     1     0     0     0     0     0
## X3909     0     1     0     0     0     0     0     1     0     0     1     1
## X3910     0     1     0     0     0     0     0     1     0     0     1     1
## X3911     0     1     0     0     0     0     0     1     0     0     1     1
## X3915     0     1     0     0     0     0     0     1     0     0     1     1
## X3916     1     0     0     1     1     0     0     0     0     0     1     0
## X3917     0     0     0     0     0     0     1     1     0     0     0     1
## X3919     0     1     0     1     1     0     0     0     0     0     1     1
## X3920     1     1     1     1     1     0     0     0     0     0     1     1
## X3921     0     1     0     1     1     0     0     0     0     1     1     1
## X3923     1     1     0     0     0     0     0     0     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     1     0     0     0     0     0     1     0     0     1     1
## X3926     0     0     0     0     0     1     1     1     0     0     0     1
## X4001     1     0     0     1     1     0     0     0     0     0     1     0
## X4005     1     0     1     0     0     0     0     0     0     0     0     0
## X4006     1     0     1     0     0     0     0     0     0     0     0     0
## X4008     1     0     0     0     0     0     1     1     0     0     0     0
## X4009     1     0     1     0     0     0     0     0     0     0     0     0
## X4010     1     1     0     0     0     0     0     1     0     0     0     0
## X4012     1     0     1     0     0     0     0     0     0     0     0     0
## X4013     1     0     1     0     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     1     0     1     0     0     0     0     0     0     0     0     0
## X4202     0     1     0     1     1     0     0     0     0     0     1     1
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     1     0     0     0     0     0     0     0     0     1     1
## X4415     1     1     1     0     0     0     0     0     0     0     1     1
## X4416     0     1     0     0     0     0     0     1     0     0     1     1
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     0
## X4421     1     0     0     0     0     0     1     1     0     0     0     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     1     0     0     0     0     0     1     0     0     1     1
## X4808     0     1     0     1     1     1     0     0     0     0     1     1
## X4818     1     0     0     1     1     0     0     0     0     0     1     0
## X4819     1     1     0     0     0     0     0     0     0     0     0     0
## X4821     1     1     0     1     1     0     0     0     0     0     1     0
## X4822     0     1     0     0     0     0     0     1     0     0     1     1
## X4823     0     1     0     0     0     1     0     1     0     0     1     1
## X4901     1     0     0     0     0     0     1     1     0     0     0     0
## X4902     1     0     0     0     0     0     1     1     0     0     0     0
## X4907     1     0     0     0     0     0     1     1     0     0     0     0
## X4911     1     1     0     0     0     0     1     0     0     0     0     0
## X5111     0     1     0     0     0     0     0     1     0     0     1     1
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     1     0     0     1     1     0     0     0     0     0     1     0
## X5206     1     0     0     1     1     0     0     0     0     0     1     0
## X5208     1     0     0     1     1     0     0     0     0     0     1     0
## X5209     1     1     0     1     1     0     0     0     0     0     1     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     1     0     0     1     1     0     0     0     0     0     1     0
## X5402     1     0     0     1     1     1     0     0     0     0     1     0
## X5407     1     0     0     1     1     0     1     1     0     0     1     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     0
## X5508     1     1     0     0     0     1     1     0     0     0     0     0
## X5509     1     0     0     1     1     0     0     0     0     0     1     0
## X5511     0     0     0     0     0     0     0     0     0     0     0     0
## X5512     1     1     0     0     0     0     0     0     0     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     1     0     0     1     1     0     0     0     0     0     1     0
## X5515     1     1     0     0     0     0     0     0     0     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     1     0     0     0     0     0     1     1     0     0     0     0
## X5603     0     1     0     0     0     0     0     0     0     0     1     1
## X5609     0     0     0     0     0     0     0     0     0     0     0     0
## X5806     1     1     0     1     1     0     0     0     0     0     1     0
## X5807     1     1     0     1     1     0     0     0     0     0     1     0
## X5903     0     1     0     0     0     0     0     1     0     0     1     1
## X5907     1     1     0     0     0     0     0     0     0     0     0     0
## X5911     0     0     0     1     1     0     0     0     0     0     1     0
## X6002     1     1     0     1     1     0     1     0     0     0     1     1
## X6101     1     1     0     0     0     0     0     0     0     0     0     0
## X6103     1     0     0     1     1     0     0     0     0     0     1     0
## X6104     1     0     0     1     1     0     1     0     0     0     1     0
## X6105     1     1     0     0     0     0     0     0     0     0     0     0
## X6106     1     0     0     1     1     0     1     0     0     0     1     0
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## X6107     1     0     0     1     1     0     0     0     0     0     1     0
## X6109     1     0     0     1     1     0     0     0     0     0     1     0
## X6110     1     1     0     0     0     0     0     0     0     0     0     0
## X6111     1     0     0     1     1     0     0     0     0     0     1     0
## X6112     1     0     0     1     1     0     0     1     0     0     1     0
## X6114     0     0     0     1     1     0     0     0     0     0     1     0
## X6115     1     0     0     1     1     0     1     0     0     0     1     0
## X6117     1     1     0     0     0     0     0     0     0     0     0     0
## X6201     1     0     0     1     1     0     0     0     0     0     1     0
## X6202     1     0     0     1     1     0     0     0     0     0     1     0
## X6203     1     1     0     1     1     0     0     0     0     0     1     0
## X6204     1     0     0     1     1     0     0     0     0     0     1     0
## X6205     1     1     0     0     0     0     1     0     0     0     0     0
## X6206     1     0     0     1     1     0     1     0     0     0     1     0
## X6210     1     0     0     1     1     0     0     0     0     0     1     0
## X6211     1     1     0     1     1     0     0     0     0     1     1     0
## X6212     0     1     0     1     1     0     0     0     0     1     1     1
## X6217     1     0     0     1     1     0     0     0     0     0     1     0
## X6302     1     0     0     1     1     0     0     0     0     0     1     0
## X6303     1     0     0     1     1     0     0     0     0     0     1     0
## X6304     1     0     0     1     1     0     0     0     0     0     1     0
## X6305     0     1     0     1     1     0     0     0     0     0     1     1
## X6306     0     1     0     0     0     0     0     1     0     0     1     1
## X6307     1     0     0     1     1     0     0     0     0     0     1     0
## X6401     1     0     0     0     0     0     1     1     0     0     0     0
## X6403     1     0     0     0     0     0     1     1     0     1     0     0
## X6404     0     1     0     0     0     0     0     1     0     0     1     1
##       X3816 X3819 X3820 X3823 X3902 X3908 X3909 X3910 X3911 X3915 X3916 X3917
## X102      1     0     0     0     0     1     0     0     0     0     0     1
## X210      0     0     0     1     0     1     0     0     0     0     0     0
## X401      1     0     0     0     1     1     1     1     1     1     0     1
## X403      1     0     0     1     0     1     0     0     0     0     0     0
## X406      0     0     0     0     0     1     0     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     1     1     0     0     1     0     0     0     0     0     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     1     1     0     0     0     0     0     0     0     0     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0     1     1     0     0     0     0     0     0     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      1     0     0     0     0     1     0     0     0     0     0     1
## X813      0     0     0     0     0     0     0     0     0     0     0     1
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     1     0     0     0     0     0     0     0     0
## X1001     0     1     1     0     0     0     0     0     0     0     0     0
## X1003     1     0     0     0     1     0     1     1     1     1     0     1
## X1005     0     0     0     0     0     0     0     0     0     0     0     0
## X1102     0     0     0     0     1     0     1     1     1     1     0     1
## X1108     0     0     0     0     1     0     1     1     1     1     0     1
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     0     0     1     0     1     1     1     1     0     1
## X1213     0     0     0     0     0     0     0     0     0     0     0     0
## X1214     0     1     1     0     0     0     0     0     0     0     0     1
## X1302     0     1     1     0     0     0     0     0     0     0     0     0
## X1507     0     0     0     0     0     1     0     0     0     0     0     0
## X1514     0     0     0     0     0     1     0     0     0     0     0     0
## X1517     1     0     0     0     1     1     1     1     1     1     0     1
## X1601     0     0     0     1     0     1     0     0     0     0     0     0
## X1602     1     0     0     1     0     1     0     0     0     0     0     0
## X1704     1     0     0     1     0     1     0     0     0     0     0     1
## X1806     1     0     0     1     1     0     1     1     1     1     0     1
## X1901     1     0     0     0     1     1     1     1     1     1     0     1
## X1902     0     0     0     0     0     1     0     0     0     0     0     0
## X1905     1     0     0     0     1     0     1     1     1     1     1     1
## X2001     0     0     0     0     0     1     0     0     0     0     0     0
## X2002     0     0     0     0     0     1     0     0     0     0     0     0
## X2003     0     0     0     0     0     1     0     0     0     0     0     0
## X2004     0     0     0     0     0     1     0     0     0     0     0     0
## X2005     1     0     0     0     0     1     0     0     0     0     0     1
## X2006     1     0     0     0     0     1     0     0     0     0     0     1
## X2007     1     0     0     0     0     1     0     0     0     0     0     0
## X2008     1     1     1     1     1     0     1     1     1     1     0     1
## X2101     0     0     0     0     0     1     0     0     0     0     0     0
## X2102     1     0     0     1     0     1     0     0     0     0     0     1
## X2103     0     0     0     1     0     1     0     0     0     0     0     0
```

```
## X2104     0     0     0     1     0     0     0     0     0     0     0     0
## X2106     0     0     0     1     1     1     1     1     1     1     0     0
## X2202     0     0     0     0     1     1     1     1     1     1     0     0
## X2206     0     0     0     0     0     0     0     0     0     0     0     1
## X2208     1     0     0     0     0     1     0     0     0     0     0     1
## X2209     0     0     0     0     0     1     0     0     0     0     0     0
## X2302     0     0     0     1     0     0     0     0     0     0     0     0
## X2309     0     0     0     0     1     0     1     1     1     1     0     1
## X2402     1     0     0     0     0     1     0     0     0     0     0     1
## X2403     1     0     0     0     0     1     0     0     0     0     0     1
## X2507     0     0     0     0     0     0     0     0     0     0     0     1
## X2508     1     0     0     0     1     1     1     1     1     1     0     1
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     1     0     0     0     0     0     0     0     0     0     0     1
## X2519     0     0     0     0     1     0     1     1     1     1     0     1
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     1
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     1     0     0     0     0     1     0     0     0     0     0     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     1     0     0     0     0     1     0     0     0     0     0     1
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     1     0     0     0     0     0     0     0     0
## X2713     0     0     0     0     0     0     0     0     0     0     1     0
## X2714     0     0     0     0     0     0     0     0     0     0     1     0
## X2716     1     0     0     0     0     1     0     0     0     0     0     0
## X2804     1     0     0     1     1     1     1     1     1     1     0     1
## X2811     1     0     0     1     1     1     1     1     1     1     0     1
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     0     0     0     0     1     0     1     1     1     1     0     1
## X2832     0     0     0     0     1     0     1     1     1     1     0     1
## X2833     0     0     0     0     1     0     1     1     1     1     0     1
## X2835     0     0     0     0     1     0     1     1     1     1     0     1
## X2836     0     1     1     0     0     0     0     0     0     0     0     0
## X2901     1     0     0     1     1     1     1     1     1     1     0     1
## X2903     0     0     0     0     0     0     0     0     0     0     1     0
## X2907     0     0     0     0     1     0     1     1     1     1     0     1
## X2915     0     0     0     0     1     0     1     1     1     1     0     1
## X2933     0     0     0     0     1     0     1     1     1     1     0     1
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     0     0     1     0     1     1     1     1     0     1
## X3204     1     0     0     0     1     1     1     1     1     1     0     1
## X3205     0     0     0     0     0     0     0     0     0     0     1     0
## X3206     0     0     0     0     1     0     1     1     1     1     1     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     0     0     0     0     0     0     0     0     0     1     0
## X3209     0     0     0     0     0     0     0     0     0     0     1     0
## X3210     0     0     0     0     1     0     1     1     1     1     0     1
## X3211     0     0     0     0     0     0     0     0     0     0     1     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     0     0     0     0     0     0     0     0     1     0
## X3215     0     0     0     0     0     0     0     0     0     0     1     0
## X3302     0     0     0     0     1     1     1     1     1     1     0     0
## X3303     1     0     0     0     0     1     0     0     0     0     0     1
## X3304     1     0     0     0     0     1     0     0     0     0     0     1
## X3305     1     0     0     0     0     1     0     0     0     0     0     1
## X3307     1     0     0     0     0     1     0     0     0     0     0     1
## X3402     1     0     0     0     1     1     1     1     1     1     0     1
## X3403     1     1     1     0     1     1     1     1     1     1     0     1
## X3506     1     0     0     1     0     1     0     0     0     0     1     0
## X3507     0     0     0     0     1     1     1     1     1     1     0     0
## X3605     0     0     0     1     0     0     0     0     0     0     0     0
## X3701     0     0     0     0     0     0     0     0     0     0     1     0
## X3707     0     0     0     0     0     0     0     0     0     0     1     0
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     1     0     0     0     0     1     0     0     0     0     0     1
## X3809     1     0     0     0     1     0     1     1     1     1     0     1
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     1     1     0     0     0     0     0     0     0     0     0
## X3814     0     0     0     0     1     0     1     1     1     1     1     0
## X3815     0     0     0     0     1     0     1     1     1     1     0     1
## X3816     0     0     0     0     0     1     0     0     0     0     0     1
## X3819     0     0     1     0     0     0     0     0     0     0     0     0
## X3820     0     1     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     0     0
## X3902     0     0     0     0     0     0     1     1     1     1     0     1
## X3908     1     0     0     0     0     0     0     0     0     0     0     0
## X3909     0     0     0     0     1     0     0     1     1     1     0     1
```

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## X3910     0     0     0     0     1     0     1     0     1     1     0     1
## X3911     0     0     0     0     1     0     1     1     0     1     0     1
## X3915     0     0     0     0     1     0     1     1     1     0     0     1
## X3916     0     0     0     0     0     0     0     0     0     0     0     0
## X3917     1     0     0     0     1     0     1     1     1     1     0     0
## X3919     0     0     0     0     1     0     1     1     1     1     1     0
## X3920     0     0     0     1     1     0     1     1     1     1     1     0
## X3921     0     1     1     0     1     0     1     1     1     1     1     0
## X3923     0     0     0     0     0     1     0     0     0     0     0     1
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     0     0     1     0     1     1     1     1     0     1
## X3926     1     0     0     0     1     0     1     1     1     1     0     1
## X4001     0     0     0     0     0     0     0     0     0     0     1     0
## X4005     0     0     0     1     0     0     0     0     0     0     0     0
## X4006     0     0     0     1     0     0     0     0     0     0     0     0
## X4008     1     0     0     0     0     1     0     0     0     0     0     1
## X4009     0     0     0     1     0     0     0     0     0     0     0     0
## X4010     0     0     0     0     0     1     0     0     0     0     0     1
## X4012     0     0     0     1     0     0     0     0     0     0     0     0
## X4013     0     0     0     1     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     1     0     0     0     0     0     0     0     0
## X4202     0     0     0     0     1     0     1     1     1     1     1     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     0     0     0     1     1     1     1     1     1     0     1
## X4415     0     0     0     1     1     1     1     1     1     1     0     0
## X4416     0     0     0     0     1     0     1     1     1     1     0     1
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     1
## X4421     1     0     0     0     0     1     0     0     0     0     0     1
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     0     1     0     1     1     1     1     0     1
## X4808     0     0     0     0     1     0     1     1     1     1     1     0
## X4818     0     0     0     0     0     0     0     0     0     0     1     0
## X4819     0     0     0     0     0     1     0     0     0     0     0     0
## X4821     0     0     0     0     0     1     0     0     0     0     1     0
## X4822     0     0     0     0     1     0     1     1     1     1     0     1
## X4823     0     0     0     0     1     0     1     1     1     1     0     1
## X4901     1     0     0     0     0     1     0     0     0     0     0     1
## X4902     1     0     0     0     0     1     0     0     0     0     0     1
## X4907     1     0     0     0     0     1     0     0     0     0     0     1
## X4911     1     0     0     0     0     1     0     0     0     0     0     0
## X5111     0     0     0     0     1     0     1     1     1     1     0     1
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     0     0     0     0     0     0     0     0     0     0     1     0
## X5206     0     0     0     0     0     0     0     0     0     0     1     0
## X5208     0     0     0     0     0     0     0     0     0     0     1     0
## X5209     0     0     0     0     0     1     0     0     0     0     1     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     0     0     0     0     0     0     0     0     0     1     0
## X5402     0     0     0     0     0     0     0     0     0     0     1     0
## X5407     1     0     0     0     1     0     1     1     1     1     1     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     1
## X5508     1     0     0     0     0     1     0     0     0     0     0     0
## X5509     0     0     0     0     0     0     0     0     0     0     1     1
## X5511     0     0     0     0     0     0     0     0     0     0     0     1
## X5512     0     0     0     0     0     1     0     0     0     0     0     1
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     0     0     0     0     0     0     0     0     0     1     0
## X5515     0     0     0     0     0     1     0     0     0     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     1     0     0     0     0     1     0     0     0     0     0     1
## X5603     0     0     0     0     1     1     1     1     1     1     0     0
## X5609     0     0     0     0     0     0     0     0     0     0     0     1
## X5806     0     0     0     0     0     1     0     0     0     0     1     0
## X5807     0     0     0     0     0     1     0     0     0     0     1     0
## X5903     0     0     0     0     1     0     1     1     1     1     0     1
## X5907     0     0     0     0     0     1     0     0     0     0     0     0
## X5911     0     0     0     0     0     0     0     0     0     0     1     0
## X6002     1     0     0     0     1     1     1     1     1     1     1     0
## X6101     0     0     0     0     0     1     0     0     0     0     0     0
## X6103     0     0     0     0     0     0     0     0     0     0     1     0
## X6104     1     0     0     0     0     1     0     0     0     0     1     0
## X6105     0     0     0     0     0     1     0     0     0     0     0     0
## X6106     1     0     0     0     0     1     0     0     0     0     1     0
## X6107     0     0     0     0     0     0     0     0     0     0     1     0
## X6109     0     0     0     0     0     0     0     0     0     0     1     0
## X6110     0     0     0     0     0     1     0     0     0     0     0     1
```

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## X6111     0     0     0     0     0     0     0     0     0     0     1     0
## X6112     0     0     0     0     0     0     0     0     0     0     1     1
## X6114     0     0     0     0     0     0     0     0     0     0     1     0
## X6115     1     0     0     0     0     1     0     0     0     0     1     0
## X6117     0     0     0     0     0     1     0     0     0     0     0     0
## X6201     0     0     0     0     0     0     0     0     0     0     1     0
## X6202     0     0     0     0     0     0     0     0     0     0     1     0
## X6203     0     0     0     0     0     1     0     0     0     0     1     0
## X6204     0     0     0     0     0     0     0     0     0     0     1     0
## X6205     1     0     0     0     0     1     0     0     0     0     0     0
## X6206     1     0     0     0     0     1     0     0     0     0     1     1
## X6210     0     0     0     0     0     0     0     0     0     0     1     0
## X6211     0     1     1     0     0     1     0     0     0     0     1     0
## X6212     0     1     1     0     1     0     1     1     1     1     1     0
## X6217     0     0     0     0     0     0     0     0     0     0     1     0
## X6302     0     0     0     0     0     0     0     0     0     0     1     0
## X6303     0     0     0     0     0     0     0     0     0     0     1     0
## X6304     0     0     0     0     0     0     0     0     0     0     1     0
## X6305     0     0     0     0     1     0     1     1     1     1     1     0
## X6306     0     0     0     0     1     0     1     1     1     1     0     1
## X6307     0     0     0     0     0     0     0     0     0     0     1     0
## X6401     1     0     0     0     0     1     0     0     0     0     0     1
## X6403     1     1     1     0     0     1     0     0     0     0     0     1
## X6404     0     0     0     0     1     0     1     1     1     1     0     1
##       X3919 X3920 X3921 X3923 X3924 X3925 X3926 X4001 X4005 X4006 X4008 X4009
## X102      0     0     0     0     0     0     1     0     0     0     1     0
## X210      0     1     0     1     0     0     0     0     1     1     0     1
## X401      1     0     1     0     0     1     1     0     0     0     1     0
## X403      0     0     0     1     0     0     0     0     1     1     1     1
## X406      0     0     0     1     0     0     1     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     1     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     0     1     0     0     1     0     0     0     0     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     0     0     1     0     0     0     0     0     0     0     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0     0     0     0     0     0     1     0     0     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     0     0     0     1     0     0     0     1     0
## X813      0     0     0     1     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     1     0     0     0     0     0     0     1     1     0     1
## X1001     0     0     1     1     1     0     1     0     0     0     0     0
## X1003     0     0     0     1     1     1     1     0     0     0     1     0
## X1005     0     0     0     1     1     0     0     0     0     0     0     0
## X1102     1     1     1     0     0     1     1     0     0     0     0     0
## X1108     1     1     1     0     0     1     1     0     0     0     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     1     1     1     0     0     1     1     0     0     0     0     0
## X1213     0     0     0     0     0     0     0     0     0     0     0     0
## X1214     0     0     0     1     0     0     0     0     0     0     0     0
## X1302     0     0     0     1     0     0     0     0     0     0     0     0
## X1507     0     0     0     1     0     0     0     0     0     0     0     0
## X1514     0     0     0     1     0     0     0     0     0     0     0     0
## X1517     1     0     1     0     0     1     1     0     0     0     1     0
## X1601     0     1     0     1     0     0     0     0     1     1     0     1
## X1602     0     0     0     1     0     0     0     0     1     1     1     1
## X1704     0     0     0     1     1     0     1     0     1     1     1     1
## X1806     0     1     0     1     1     1     1     0     1     1     1     1
## X1901     0     0     0     1     0     1     1     0     0     0     1     0
## X1902     0     0     0     1     0     0     0     0     0     0     0     0
## X1905     1     1     1     1     0     1     1     1     0     0     1     0
## X2001     0     0     0     1     0     0     0     0     0     0     0     0
## X2002     0     0     0     1     0     0     0     0     0     0     0     0
## X2003     0     0     0     1     0     0     0     0     0     0     0     0
## X2004     0     0     0     1     0     0     0     0     0     0     0     0
## X2005     0     0     0     1     0     0     1     0     0     0     1     0
## X2006     0     0     0     0     0     0     1     0     0     0     1     0
## X2007     0     0     0     1     0     0     0     0     0     0     1     0
## X2008     0     1     1     1     0     1     1     0     1     1     1     1
## X2101     0     0     0     1     0     0     0     0     0     0     0     0
## X2102     0     1     0     0     0     0     1     0     1     1     1     1
## X2103     0     1     0     1     0     0     0     0     1     1     0     1
## X2104     0     1     0     0     0     0     0     0     1     1     0     1
## X2106     1     1     1     1     0     1     0     0     1     1     0     1
## X2202     1     1     1     1     0     1     0     0     0     0     0     0
```

```
## X2206     0     0     0     1     0     0     0     0     0     0     0     0
## X2208     0     0     0     0     0     0     1     0     0     0     1     0
## X2209     0     0     0     1     0     0     0     0     0     0     0     0
## X2302     0     1     0     0     0     0     0     0     1     1     0     1
## X2309     1     1     1     0     0     1     1     0     0     0     0     0
## X2402     0     0     0     0     0     0     1     0     0     0     1     0
## X2403     0     0     0     0     0     0     1     0     0     0     1     0
## X2507     0     0     0     1     0     0     0     0     0     0     0     0
## X2508     1     0     1     0     0     1     1     0     0     0     1     0
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     0     0     0     1     0     0     1     0     0     0     1     0
## X2519     1     1     1     0     0     1     1     0     0     0     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     0     0     0     0     0     1     0     0     0     1     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     0     0     0     1     0     0     0     1     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     1     0     0     0     0     0     0     1     1     0     1
## X2713     1     1     1     0     0     0     0     1     0     0     0     0
## X2714     1     1     1     0     0     0     0     1     0     0     0     0
## X2716     0     0     0     0     0     0     1     0     0     0     1     0
## X2804     0     1     0     0     0     1     1     0     1     1     1     1
## X2811     0     1     0     0     0     1     1     0     1     1     1     1
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     1     1     1     0     0     1     1     0     0     0     0     0
## X2832     1     1     1     0     0     1     1     0     0     0     0     0
## X2833     1     1     1     0     0     1     1     0     0     0     0     0
## X2835     1     1     1     0     0     1     1     0     0     0     0     0
## X2836     0     0     1     0     0     0     0     0     0     0     0     0
## X2901     0     1     0     0     0     1     1     0     1     1     1     1
## X2903     1     1     1     0     0     0     1     1     0     0     0     0
## X2907     1     1     1     0     0     1     1     0     0     0     0     0
## X2915     1     1     1     0     0     1     1     0     0     0     0     0
## X2933     1     1     1     0     0     1     1     0     0     0     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     1     1     1     0     0     1     1     0     0     0     0     0
## X3204     1     0     1     0     0     1     1     0     0     0     1     0
## X3205     1     1     1     0     0     0     0     1     0     0     0     0
## X3206     1     1     1     0     0     1     0     1     0     0     0     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     1     1     1     0     0     0     0     1     0     0     0     0
## X3209     1     1     1     0     0     0     0     1     0     0     0     0
## X3210     1     1     1     0     0     1     1     0     0     0     0     0
## X3211     1     1     1     0     0     0     0     1     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     1     1     1     0     0     0     1     1     0     0     0     0
## X3215     1     1     1     0     0     0     0     1     0     0     0     0
## X3302     1     1     1     1     0     1     0     0     0     0     0     0
## X3303     0     0     0     0     0     0     1     0     0     0     1     0
## X3304     0     0     0     0     0     0     1     0     0     0     1     0
## X3305     0     0     0     0     0     0     1     0     0     0     1     0
## X3307     0     0     0     0     0     0     1     0     0     0     1     0
## X3402     0     0     0     1     0     1     1     0     0     0     1     0
## X3403     1     0     1     0     0     1     1     0     0     0     1     0
## X3506     0     1     0     1     0     0     0     1     1     1     1     1
## X3507     1     1     1     1     0     1     0     0     0     0     0     0
## X3605     0     1     0     0     0     0     0     0     1     1     0     1
## X3701     1     1     1     0     0     0     0     1     0     0     0     0
## X3707     1     1     1     0     0     0     0     1     0     0     0     0
## X3802     0     0     0     0     0     0     1     0     0     0     0     0
## X3808     0     0     0     0     0     0     1     0     0     0     1     0
## X3809     0     0     0     0     0     1     1     0     0     0     1     0
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     1     0     0     0     0     0     0     0     0     0
## X3814     1     1     1     0     0     1     0     1     0     0     0     0
## X3815     1     1     1     0     0     1     1     0     0     0     0     0
## X3816     0     0     0     0     0     0     1     0     0     0     1     0
## X3819     0     0     1     0     0     0     0     0     0     0     0     0
## X3820     0     0     1     0     0     0     0     0     0     0     0     0
## X3823     0     1     0     0     0     0     0     0     1     1     0     1
## X3902     1     1     1     0     0     1     1     0     0     0     0     0
## X3908     0     0     0     1     0     0     0     0     0     0     1     0
## X3909     1     1     1     0     0     1     1     0     0     0     0     0
## X3910     1     1     1     0     0     1     1     0     0     0     0     0
## X3911     1     1     1     0     0     1     1     0     0     0     0     0
## X3915     1     1     1     0     0     1     1     0     0     0     0     0
```

```
## X3916     1     1     1     0     0     0     0     1     0     0     0     0
## X3917     0     0     0     1     0     1     1     0     0     0     1     0
## X3919     0     1     1     0     0     1     0     1     0     0     0     0
## X3920     1     0     1     0     0     1     0     1     1     1     0     1
## X3921     1     1     0     0     0     1     0     1     0     0     0     0
## X3923     0     0     0     0     1     0     1     0     0     0     0     0
## X3924     0     0     0     1     0     0     0     0     0     0     0     0
## X3925     1     1     1     0     0     0     1     0     0     0     0     0
## X3926     0     0     0     1     0     1     0     0     0     0     1     0
## X4001     1     1     1     0     0     0     0     0     0     0     0     0
## X4005     0     1     0     0     0     0     0     0     0     1     0     1
## X4006     0     1     0     0     0     0     0     0     1     0     0     1
## X4008     0     0     0     0     0     0     1     0     0     0     0     0
## X4009     0     1     0     0     0     0     0     0     1     1     0     0
## X4010     0     0     0     1     0     0     0     0     0     0     0     0
## X4012     0     1     0     0     0     0     0     0     1     1     0     1
## X4013     0     1     0     0     0     0     0     0     1     1     0     1
## X4015     0     0     0     0     0     0     1     0     0     0     0     0
## X4016     0     1     0     0     0     0     1     0     1     1     0     1
## X4202     1     1     1     0     0     1     0     1     0     0     0     0
## X4203     0     0     0     0     0     0     1     0     0     0     0     0
## X4409     1     0     1     1     0     1     0     0     0     0     0     0
## X4415     1     1     1     1     0     1     0     0     1     1     0     1
## X4416     1     0     1     1     0     1     0     0     0     0     0     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     1     0     0     0     0     0     0     0     0
## X4421     0     0     0     1     0     0     1     0     0     0     1     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     1     1     1     0     0     1     1     0     0     0     0     0
## X4808     1     1     1     0     0     1     1     1     0     0     0     0
## X4818     1     1     1     0     0     0     0     1     0     0     0     0
## X4819     0     0     0     1     0     0     0     0     0     0     0     0
## X4821     1     1     1     1     0     0     0     1     0     0     0     0
## X4822     1     1     1     0     0     1     1     0     0     0     0     0
## X4823     1     1     1     0     0     1     1     0     0     0     0     0
## X4901     0     0     0     0     0     0     1     0     0     0     1     0
## X4902     0     0     0     0     0     0     1     0     0     0     1     0
## X4907     0     0     0     0     0     0     1     0     0     0     1     0
## X4911     0     0     0     1     0     0     0     0     0     0     1     0
## X5111     1     1     1     0     0     1     1     0     0     0     0     0
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     1     1     1     0     0     0     0     1     0     0     0     0
## X5206     1     1     1     0     0     0     0     1     0     0     0     0
## X5208     1     1     1     0     0     0     0     1     0     0     0     0
## X5209     1     1     1     1     0     0     0     1     0     0     0     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     1     1     1     0     0     0     0     1     0     0     0     0
## X5402     1     1     1     0     0     0     1     1     0     0     0     0
## X5407     1     1     1     0     0     1     1     1     0     0     1     0
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     1     0     0     0     0     0     0     0     0
## X5508     0     0     0     1     0     0     1     0     0     0     1     0
## X5509     1     1     1     1     0     0     0     1     0     0     0     0
## X5511     0     0     0     1     0     0     0     0     0     0     0     0
## X5512     0     0     0     1     0     0     0     0     0     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     1     1     1     0     0     0     0     1     0     0     0     0
## X5515     0     0     0     1     0     0     0     0     0     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     0     0     0     0     0     1     0     0     0     1     0
## X5603     1     1     1     1     0     1     0     0     0     0     0     0
## X5609     0     0     0     1     0     0     0     0     0     0     0     0
## X5806     1     1     1     1     0     0     0     1     0     0     0     0
## X5807     1     1     1     1     0     0     0     1     0     0     0     0
## X5903     1     1     1     0     0     1     1     0     0     0     0     0
## X5907     0     0     0     1     0     0     0     0     0     0     0     0
## X5911     1     1     1     1     0     0     0     1     0     0     0     0
## X6002     1     1     1     0     0     1     0     1     0     0     1     0
## X6101     0     0     0     1     0     0     0     0     0     0     0     0
## X6103     1     1     1     0     0     0     0     1     0     0     0     0
## X6104     1     1     1     0     0     0     0     1     0     0     1     0
## X6105     0     0     0     1     0     0     0     0     0     0     0     0
## X6106     1     1     1     0     0     0     0     1     0     0     1     0
## X6107     1     1     1     0     0     0     0     1     0     0     0     0
## X6109     1     1     1     0     0     0     0     1     0     0     0     0
## X6110     0     0     0     1     0     0     0     0     0     0     0     0
## X6111     1     1     1     0     0     0     0     1     0     0     0     0
## X6112     1     1     1     0     0     0     0     1     0     0     0     0
## X6114     1     1     1     1     0     0     0     1     0     0     0     0
```

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## X6115     1     1     1     1     1     0     0     1     0     0     1     0
## X6117     0     0     0     1     0     0     0     0     0     0     0     0
## X6201     1     1     1     0     0     0     0     1     0     0     0     0
## X6202     1     1     1     0     0     0     0     1     0     0     0     0
## X6203     1     1     1     1     0     0     0     1     0     0     0     0
## X6204     1     1     1     0     0     0     0     1     0     0     0     0
## X6205     0     0     0     1     0     0     0     0     0     0     1     0
## X6206     1     0     0     1     0     0     0     1     0     0     1     0
## X6210     1     1     1     0     0     0     0     1     0     0     0     0
## X6211     1     1     1     1     0     0     0     1     0     0     0     0
## X6212     1     1     1     1     0     1     0     1     0     0     0     0
## X6217     1     1     1     0     0     0     0     1     0     0     0     0
## X6302     1     1     1     0     0     0     0     1     0     0     0     0
## X6303     1     1     1     0     0     0     0     1     0     0     0     0
## X6304     1     1     1     0     0     0     0     1     0     0     0     0
## X6305     1     1     1     0     0     1     0     1     0     0     0     0
## X6306     1     1     1     0     0     1     1     0     0     0     0     0
## X6307     1     1     1     0     0     0     1     1     0     0     0     0
## X6401     0     0     0     0     0     0     1     0     0     0     1     0
## X6403     0     0     1     0     0     0     1     0     0     0     1     0
## X6404     1     1     1     0     0     1     1     0     0     0     0     0
##       X4010 X4012 X4013 X4015 X4016 X4202 X4203 X4409 X4415 X4416 X4418 X4420
## X102      0     0     0     0     0     0     0     0     0     0     0     0
## X210      1     1     1     0     1     0     0     1     1     0     0     0
## X401      0     0     0     0     0     0     0     1     1     1     0     0
## X403      1     1     1     0     1     0     0     0     1     0     0     0
## X406      1     0     0     1     1     0     1     1     1     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      1     0     0     1     1     1     1     1     0     1     1     1
## X703      0     0     0     0     0     1     0     0     0     1     0     0
## X709      1     0     0     0     0     0     0     0     0     1     1     1
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      1     0     0     0     0     1     0     0     0     1     1     0
## X804      0     0     0     0     0     1     0     0     0     0     0     0
## X805      0     0     0     0     0     1     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     0     0     0     0     0     0     0     0     0
## X813      1     0     0     0     0     0     0     1     0     1     0     1
## X901      0     0     0     0     0     1     0     0     0     0     0     0
## X904      0     1     1     0     1     0     0     0     1     0     0     0
## X1001     0     0     0     0     0     1     0     0     0     0     1     0
## X1003     0     0     0     1     1     1     1     0     0     1     0     0
## X1005     1     0     0     0     0     1     0     0     0     1     0     0
## X1102     0     0     0     0     0     1     0     1     1     1     0     0
## X1108     0     0     0     0     0     1     0     1     1     1     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     0     0     0     1     0     1     1     1     0     0
## X1213     0     0     0     0     0     1     0     0     0     0     1     0
## X1214     1     0     0     0     0     1     0     0     0     1     0     1
## X1302     1     0     0     0     0     1     0     0     0     1     0     1
## X1507     1     0     0     0     0     0     0     1     1     0     0     0
## X1514     1     0     0     0     0     0     0     1     1     0     0     0
## X1517     0     0     0     0     0     0     0     1     1     1     0     0
## X1601     1     1     1     0     1     0     0     1     1     0     0     0
## X1602     1     1     1     0     1     0     0     1     1     0     0     0
## X1704     1     1     1     0     1     0     0     0     0     0     0     1
## X1806     0     1     1     0     1     0     0     1     1     1     0     1
## X1901     1     0     0     0     0     0     0     1     1     1     0     1
## X1902     1     0     0     0     0     0     0     1     1     0     0     0
## X1905     0     0     0     0     0     1     0     1     0     1     0     1
## X2001     1     0     0     0     0     0     0     1     1     0     0     0
## X2002     1     0     0     0     0     0     0     1     1     0     0     0
## X2003     1     0     0     0     0     0     0     1     1     0     0     0
## X2004     1     0     0     0     0     0     0     1     1     0     0     0
## X2005     1     0     0     0     0     0     0     1     0     0     0     1
## X2006     0     0     0     0     0     0     0     0     0     0     0     0
## X2007     1     0     0     0     0     0     0     1     1     0     0     0
## X2008     0     1     1     0     1     0     0     1     1     1     0     1
## X2101     1     0     0     0     0     0     0     1     1     0     0     0
## X2102     0     1     1     0     1     0     0     0     1     0     0     0
## X2103     1     1     1     0     1     0     0     1     1     0     0     0
## X2104     0     1     1     0     1     0     0     0     1     0     0     0
## X2106     1     1     1     0     1     0     0     1     1     1     0     0
## X2202     1     0     0     0     0     1     0     1     1     1     0     0
## X2206     1     0     0     0     0     0     0     1     0     1     0     1
## X2208     0     0     0     0     0     0     0     0     0     1     0     0
## X2209     1     0     0     0     0     0     0     1     1     0     0     0
```

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## X2302     0     1     1     0     1     0     0     0     1     0     0     0
## X2309     0     0     0     0     0     1     0     1     1     1     0     0
## X2402     0     0     0     0     0     0     0     0     0     0     0     0
## X2403     0     0     0     0     0     0     0     0     0     0     0     0
## X2507     1     0     0     0     0     0     0     1     0     1     0     1
## X2508     0     0     0     0     0     0     0     1     1     1     0     0
## X2512     0     0     0     0     0     0     0     0     0     1     0     0
## X2517     1     0     0     0     0     1     0     0     0     1     1     1
## X2519     0     0     0     0     0     1     0     1     1     1     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     1     0     0     0     0     0     0     0     0     1     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     1     0
## X2530     0     0     0     0     0     1     0     0     0     0     0     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     0     0     0     0     0     0     0     0     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     1     1     0     1     0     0     0     1     0     0     0
## X2713     0     0     0     0     0     1     0     0     0     0     0     0
## X2714     0     0     0     0     0     1     0     0     0     0     0     0
## X2716     0     0     0     0     0     0     0     0     0     1     1     0
## X2804     0     1     1     0     1     0     0     0     1     0     0     0
## X2811     0     1     1     0     1     0     0     0     1     0     0     0
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     0     0     0     0     0     1     0     1     1     1     0     0
## X2832     0     0     0     0     0     1     0     1     1     1     0     0
## X2833     0     0     0     0     0     1     0     1     1     1     0     0
## X2835     0     0     0     0     0     1     0     1     1     1     0     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     1     1     0     1     0     0     0     1     0     0     0
## X2903     0     0     0     0     0     1     0     0     0     0     0     0
## X2907     0     0     0     0     0     1     0     1     1     1     0     0
## X2915     0     0     0     0     0     1     0     1     1     1     0     0
## X2933     0     0     0     0     0     1     0     1     1     1     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     0     0     0     1     0     1     1     1     0     0
## X3204     0     0     0     0     0     0     0     0     0     1     0     0
## X3205     0     0     0     0     0     1     0     0     0     0     0     0
## X3206     0     0     0     0     0     1     0     1     1     1     0     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     0     0     0     0     1     0     0     0     0     0     0
## X3209     0     0     0     0     0     1     0     0     0     0     0     0
## X3210     0     0     0     0     0     1     0     1     1     1     0     0
## X3211     0     0     0     0     0     1     0     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     0     0     0     1     0     0     0     0     0     0
## X3215     0     0     0     0     0     1     0     0     0     0     0     0
## X3302     1     0     0     0     0     1     0     1     1     1     0     0
## X3303     0     0     0     0     0     0     0     0     0     0     0     0
## X3304     0     0     0     0     0     0     0     0     0     0     0     0
## X3305     0     0     0     0     0     0     0     0     0     0     0     0
## X3307     0     0     0     0     0     0     0     0     0     0     0     0
## X3402     1     0     0     0     0     0     0     1     1     0     0     0
## X3403     0     0     0     0     0     0     0     0     0     0     0     0
## X3506     1     1     1     0     1     0     0     0     1     0     0     0
## X3507     1     0     0     0     0     1     0     1     1     1     0     0
## X3605     0     1     1     0     1     0     0     0     1     0     0     0
## X3701     0     0     0     0     0     1     0     0     0     0     0     0
## X3707     0     0     0     0     0     1     0     0     0     0     0     0
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     0     0     0     0     0     0     0     0     0     0     0     0
## X3809     1     0     0     0     0     0     0     0     0     1     0     0
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     0     0     0     0     1     0     1     1     1     0     0
## X3815     0     0     0     0     0     1     0     1     1     1     0     0
## X3816     0     0     0     0     0     0     0     0     0     0     0     0
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     1     1     0     1     0     0     0     1     0     0     0
## X3902     0     0     0     0     0     1     0     1     1     1     0     0
## X3908     1     0     0     0     0     0     0     1     1     0     0     0
## X3909     0     0     0     0     0     1     0     1     1     1     0     0
## X3910     0     0     0     0     0     1     0     1     1     1     0     0
## X3911     0     0     0     0     0     1     0     1     1     1     0     0
## X3915     0     0     0     0     0     1     0     1     1     1     0     0
## X3916     0     0     0     0     0     1     0     0     0     0     0     0
## X3917     1     0     0     0     0     0     0     1     0     1     0     1
## X3919     0     0     0     0     0     1     0     1     1     1     0     0
```

```
## X3920     0     1     1     0     1     1     0     0     1     0     0     0
## X3921     0     0     0     0     0     1     0     1     1     1     0     0
## X3923     1     0     0     0     0     0     0     1     1     1     0     1
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     0     0     0     1     0     1     1     1     0     0
## X3926     0     0     0     1     1     0     1     0     0     0     0     0
## X4001     0     0     0     0     0     1     0     0     0     0     0     0
## X4005     0     1     1     0     1     0     0     0     1     0     0     0
## X4006     0     1     1     0     1     0     0     0     1     0     0     0
## X4008     0     0     0     0     0     0     0     0     0     0     0     0
## X4009     0     1     1     0     1     0     0     0     1     0     0     0
## X4010     0     0     0     0     0     0     0     1     1     1     0     1
## X4012     0     0     1     0     1     0     0     0     1     0     0     0
## X4013     0     1     0     0     1     0     0     0     1     0     0     0
## X4015     0     0     0     0     1     0     1     0     0     0     0     0
## X4016     0     1     1     1     0     0     1     0     1     0     0     0
## X4202     0     0     0     0     0     0     0     1     0     1     0     0
## X4203     0     0     0     1     1     0     0     0     0     0     0     0
## X4409     1     0     0     0     0     1     0     0     1     1     0     1
## X4415     1     1     1     0     1     0     0     1     0     1     0     0
## X4416     1     0     0     0     0     1     0     1     1     0     0     1
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     1     0     0     0     0     0     0     1     0     1     0     0
## X4421     1     0     0     0     0     0     0     1     0     1     0     1
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     0     0     1     0     1     1     1     0     0
## X4808     0     0     0     0     0     1     0     0     0     1     0     0
## X4818     0     0     0     0     0     1     0     0     0     0     0     0
## X4819     1     0     0     0     0     0     0     1     1     0     0     0
## X4821     1     0     0     0     0     1     0     1     1     0     0     0
## X4822     0     0     0     0     0     1     0     1     1     1     0     0
## X4823     0     0     0     0     0     1     0     1     1     1     0     0
## X4901     0     0     0     0     0     0     0     0     0     0     0     0
## X4902     0     0     0     0     0     0     0     0     0     0     0     0
## X4907     0     0     0     0     0     0     0     0     0     0     0     0
## X4911     1     0     0     0     0     0     0     1     1     0     0     0
## X5111     0     0     0     0     0     1     0     1     1     1     0     0
## X5112     0     0     0     0     0     0     0     0     0     1     0     0
## X5205     0     0     0     0     0     1     0     0     0     0     0     0
## X5206     0     0     0     0     0     1     0     0     0     0     0     0
## X5208     0     0     0     0     0     1     0     0     0     0     0     0
## X5209     1     0     0     0     0     1     0     1     1     0     0     0
## X5210     0     0     0     0     0     1     0     0     0     0     0     0
## X5211     0     0     0     0     0     1     0     0     0     0     0     0
## X5402     0     0     0     0     0     1     0     0     0     0     0     0
## X5407     0     0     0     0     0     1     0     0     0     0     0     0
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     1     0     0     0     0     0     0     1     0     1     0     1
## X5508     1     0     0     0     0     0     0     1     1     0     0     0
## X5509     1     0     0     0     0     1     0     1     0     1     0     1
## X5511     1     0     0     0     0     0     0     1     0     1     0     1
## X5512     1     0     0     0     0     0     0     1     1     1     0     1
## X5513     0     0     0     0     0     1     0     0     0     0     0     0
## X5514     0     0     0     0     0     1     0     0     0     0     0     0
## X5515     1     0     0     0     0     0     0     1     1     1     0     0
## X5516     0     0     0     0     0     1     0     0     0     0     0     0
## X5601     0     0     0     0     0     0     0     0     0     0     0     0
## X5603     1     0     0     0     0     1     0     1     1     1     0     0
## X5609     1     0     0     0     0     0     0     1     0     1     0     1
## X5806     1     0     0     0     0     1     0     1     1     0     0     0
## X5807     1     0     0     0     0     1     0     1     1     0     0     0
## X5903     0     0     0     0     0     1     0     1     1     1     0     0
## X5907     1     0     0     0     0     0     0     1     1     0     0     0
## X5911     1     0     0     0     0     1     0     1     0     1     0     1
## X6002     0     0     0     0     0     1     0     1     1     0     0     0
## X6101     1     0     0     0     0     0     0     1     1     0     0     0
## X6103     0     0     0     0     0     1     0     0     0     0     0     0
## X6104     0     0     0     0     0     1     0     0     0     0     0     0
## X6105     1     0     0     0     0     0     0     1     1     0     0     0
## X6106     0     0     0     0     0     1     0     0     0     0     0     0
## X6107     0     0     0     0     0     1     0     0     0     0     0     0
## X6109     0     0     0     0     0     1     0     0     0     0     0     0
## X6110     1     0     0     0     0     0     0     1     1     1     0     1
## X6111     0     0     0     0     0     1     0     0     0     0     0     0
## X6112     1     0     0     0     0     1     0     0     0     1     0     0
## X6114     1     0     0     0     0     1     0     1     0     1     0     1
## X6115     0     0     0     0     0     1     0     0     0     0     0     0
## X6117     1     0     0     0     0     0     0     1     1     0     0     0
## X6201     0     0     0     0     0     1     0     0     0     0     0     0
```

```
## X6202     0     0     0     0     0     1     0     0     0     0     0     0
## X6203     1     0     0     0     0     1     0     1     1     0     0     0
## X6204     0     0     0     0     0     1     0     0     0     0     0     0
## X6205     1     0     0     0     0     0     0     1     1     0     0     0
## X6206     1     0     0     0     0     0     0     0     0     0     0     1
## X6210     0     0     0     0     0     1     0     0     0     0     0     0
## X6211     1     0     0     0     0     1     0     1     1     0     0     0
## X6212     0     0     0     0     0     1     0     1     1     0     1     0
## X6217     0     0     0     0     0     1     0     0     0     0     0     0
## X6302     0     0     0     0     0     1     0     0     0     0     0     0
## X6303     0     0     0     0     0     1     0     0     0     0     0     0
## X6304     0     0     0     0     0     1     0     0     0     0     0     0
## X6305     0     0     0     0     0     1     0     1     1     1     0     0
## X6306     0     0     0     0     0     1     0     1     1     1     0     0
## X6307     0     0     0     1     1     1     1     0     0     0     0     0
## X6401     0     0     0     0     0     0     0     0     0     0     0     0
## X6403     0     0     0     0     0     0     0     0     0     0     0     0
## X6404     0     0     0     0     0     1     0     1     1     1     0     0
##       X4421 X4602 X4804 X4808 X4818 X4819 X4821 X4822 X4823 X4901 X4902 X4907
## X102      1     0     0     0     0     0     0     0     0     1     1     1
## X210      0     0     0     0     0     1     1     0     0     0     0     0
## X401      1     0     1     0     0     0     0     1     1     1     1     1
## X403      1     0     0     0     0     1     1     0     0     1     1     1
## X406      0     0     0     0     0     1     1     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     1     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      1     0     0     0     0     1     0     0     0     0     0     0
## X703      0     1     0     0     0     0     0     0     0     0     0     0
## X709      0     1     0     0     0     0     0     0     0     0     0     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0     1     0     0     0     0     0     0     0     0     0     0
## X804      0     1     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     1     0     0     0     0     0     0     0     0     0     0
## X809      1     0     0     0     0     0     0     0     0     1     1     1
## X813      1     0     0     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     0     0     0
## X1001     0     1     0     1     0     0     0     0     1     0     0     0
## X1003     0     0     1     0     0     0     0     1     1     1     1     1
## X1005     0     1     0     0     0     0     0     0     0     0     0     0
## X1102     0     0     1     1     0     0     0     1     1     0     0     0
## X1108     0     0     1     1     0     0     0     1     1     0     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     1     1     0     0     0     1     1     0     0     0
## X1213     0     1     0     1     0     0     0     0     1     0     0     0
## X1214     0     1     0     0     0     0     0     0     1     0     0     0
## X1302     0     0     0     0     0     0     0     0     0     0     0     0
## X1507     0     0     0     0     0     1     1     0     0     0     0     0
## X1514     0     0     0     0     0     1     1     0     0     0     0     0
## X1517     1     0     1     0     0     0     0     1     1     1     1     1
## X1601     0     0     0     0     0     1     1     0     0     0     0     0
## X1602     1     0     0     0     0     1     1     0     0     1     1     1
## X1704     1     0     0     0     0     0     0     0     0     1     1     1
## X1806     1     0     1     0     0     0     0     1     0     1     1     1
## X1901     1     0     1     0     0     1     0     1     0     1     1     1
## X1902     0     0     0     0     0     1     1     0     0     0     0     0
## X1905     1     0     1     1     1     0     0     1     0     1     1     1
## X2001     0     0     0     0     0     1     1     0     0     0     0     0
## X2002     0     0     0     0     0     1     1     0     0     0     0     0
## X2003     0     0     0     0     0     1     1     0     0     0     0     0
## X2004     0     0     0     0     0     1     1     0     0     0     0     0
## X2005     1     0     0     0     0     1     1     0     0     1     1     1
## X2006     1     0     0     0     0     0     0     0     0     1     1     1
## X2007     1     0     0     0     0     1     1     0     0     1     1     1
## X2008     1     0     1     0     0     0     0     1     0     1     1     1
## X2101     0     0     0     0     0     1     1     0     0     0     0     0
## X2102     1     0     0     0     0     0     0     0     0     1     1     1
## X2103     0     0     0     0     0     1     1     0     0     0     0     0
## X2104     0     0     0     0     0     0     0     0     0     0     0     0
## X2106     0     0     1     0     0     1     1     1     1     0     0     0
## X2202     0     0     1     1     0     1     1     1     1     0     0     0
## X2206     1     0     0     0     0     0     0     0     0     0     0     0
## X2208     1     0     0     0     0     0     0     0     0     1     1     1
## X2209     0     0     0     0     0     1     1     0     0     0     0     0
## X2302     0     0     0     0     0     0     0     0     0     0     0     0
## X2309     0     0     1     1     0     0     0     1     1     0     0     0
## X2402     1     0     0     0     0     0     0     0     0     1     1     1
```

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## X2403     1     0     0     0     0     0     0     0     0     1     1     1
## X2507     1     0     0     0     0     0     0     0     0     0     0     0
## X2508     1     0     1     0     0     0     0     1     1     1     1     1
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     1     0     0     0     0     0     0     0     0     1     1     1
## X2519     0     0     1     1     0     0     0     1     1     0     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     1     0     0     0     0     0     0     0     0     1     1     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     1     0     0     0     0     0     0     0     0     1     1     1
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     0     0
## X2713     0     0     0     1     1     0     1     0     0     0     0     0
## X2714     0     0     0     1     1     0     1     0     0     0     0     0
## X2716     1     1     0     0     0     0     0     0     1     1     1     1
## X2804     1     0     1     0     0     0     0     1     1     1     1     1
## X2811     1     0     1     0     0     0     0     1     1     1     1     1
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     0     0     1     1     0     0     0     1     1     0     0     0
## X2832     0     0     1     1     0     0     0     1     1     0     0     0
## X2833     0     0     1     1     0     0     0     1     1     0     0     0
## X2835     0     0     1     1     0     0     0     1     1     0     0     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     1     0     1     0     0     0     0     1     1     1     1     1
## X2903     0     0     0     1     1     0     1     0     1     0     0     0
## X2907     0     0     1     1     0     0     0     1     1     0     0     0
## X2915     0     0     1     1     0     0     0     1     1     0     0     0
## X2933     0     0     1     1     0     0     0     1     1     0     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     1     1     0     0     0     1     1     0     0     0
## X3204     1     0     1     0     0     0     0     1     1     1     1     1
## X3205     0     0     0     1     1     0     1     0     0     0     0     0
## X3206     0     0     1     1     1     0     1     1     1     0     0     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     0     0     1     1     0     1     0     0     0     0     0
## X3209     0     0     0     1     1     0     1     0     0     0     0     0
## X3210     0     0     1     1     0     0     0     1     1     0     0     0
## X3211     0     0     0     1     1     0     1     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     0     1     1     0     1     0     1     0     0     0
## X3215     0     0     0     1     1     0     1     0     0     0     0     0
## X3302     0     0     1     1     0     1     1     1     1     0     0     0
## X3303     1     0     0     0     0     0     0     0     0     1     1     1
## X3304     1     0     0     0     0     0     0     0     0     1     1     1
## X3305     1     0     0     0     0     0     0     0     0     1     1     1
## X3307     1     0     0     0     0     0     0     0     0     1     1     1
## X3402     1     0     1     0     0     1     1     1     1     1     1     1
## X3403     1     0     1     0     0     0     0     1     1     1     1     1
## X3506     1     0     0     0     1     1     1     0     0     1     1     1
## X3507     0     0     1     1     0     1     1     1     1     0     0     0
## X3605     0     0     0     0     0     0     0     0     0     0     0     0
## X3701     0     0     0     1     1     0     1     0     0     0     0     0
## X3707     0     0     0     1     1     0     1     0     0     0     0     0
## X3802     0     0     0     1     0     0     0     0     1     0     0     0
## X3808     1     0     0     0     0     0     0     0     0     1     1     1
## X3809     1     0     1     0     0     0     0     1     1     1     1     1
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     0     1     1     1     0     1     1     1     0     0     0
## X3815     0     0     1     1     0     0     0     1     1     0     0     0
## X3816     1     0     0     0     0     0     0     0     0     1     1     1
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     0     0
## X3902     0     0     1     1     0     0     0     1     1     0     0     0
## X3908     1     0     0     0     0     1     1     0     0     1     1     1
## X3909     0     0     1     1     0     0     0     1     1     0     0     0
## X3910     0     0     1     1     0     0     0     1     1     0     0     0
## X3911     0     0     1     1     0     0     0     1     1     0     0     0
## X3915     0     0     1     1     0     0     0     1     1     0     0     0
## X3916     0     0     0     1     1     0     1     0     0     0     0     0
## X3917     1     0     1     0     0     0     0     1     1     1     1     1
## X3919     0     0     1     1     1     0     1     1     1     0     0     0
## X3920     0     0     1     1     1     0     1     1     1     0     0     0
## X3921     0     0     1     1     1     0     1     1     1     0     0     0
## X3923     1     0     0     0     0     1     1     0     0     0     0     0
```

```
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     1     1     0     0     0     1     1     0     0     0
## X3926     1     0     1     1     0     0     0     1     1     1     1     1
## X4001     0     0     0     1     1     0     1     0     0     0     0     0
## X4005     0     0     0     0     0     0     0     0     0     0     0     0
## X4006     0     0     0     0     0     0     0     0     0     0     0     0
## X4008     1     0     0     0     0     0     0     0     0     1     1     1
## X4009     0     0     0     0     0     0     0     0     0     0     0     0
## X4010     1     0     0     0     0     1     1     0     0     0     0     0
## X4012     0     0     0     0     0     0     0     0     0     0     0     0
## X4013     0     0     0     0     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     0     0     0     0     0
## X4202     0     0     1     1     1     0     1     1     1     0     0     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     1     0     1     0     0     1     1     1     1     0     0     0
## X4415     0     0     1     0     0     1     1     1     1     0     0     0
## X4416     1     0     1     1     0     0     0     1     1     0     0     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     1     0     0     0     0     0     0     0     0     0     0     0
## X4421     0     0     0     0     0     0     0     0     0     1     1     1
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     1     0     0     0     1     1     0     0     0
## X4808     0     0     1     0     1     0     1     1     1     0     0     0
## X4818     0     0     0     1     0     0     1     0     0     0     0     0
## X4819     0     0     0     0     0     0     1     0     0     0     0     0
## X4821     0     0     0     1     1     1     0     0     0     0     0     0
## X4822     0     0     1     1     0     0     0     0     1     0     0     0
## X4823     0     0     1     1     0     0     0     1     0     0     0     0
## X4901     1     0     0     0     0     0     0     0     0     0     1     1
## X4902     1     0     0     0     0     0     0     0     0     1     0     1
## X4907     1     0     0     0     0     0     0     0     0     1     1     0
## X4911     1     0     0     0     0     1     1     0     0     1     1     1
## X5111     0     0     1     1     0     0     0     1     1     0     0     0
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     0     0     0     1     1     0     1     0     0     0     0     0
## X5206     0     0     0     1     1     0     1     0     0     0     0     0
## X5208     0     0     0     1     1     0     1     0     0     0     0     0
## X5209     0     0     0     1     1     1     1     0     0     0     0     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     0     0     1     1     0     1     0     0     0     0     0
## X5402     0     0     0     1     1     0     1     0     1     0     0     0
## X5407     1     0     1     1     1     0     1     1     1     1     1     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     1     0     0     0     0     0     0     0     0     0     0     0
## X5508     1     0     0     0     0     1     1     0     1     1     1     1
## X5509     1     0     0     1     1     0     1     0     0     0     0     0
## X5511     1     0     0     0     0     0     0     0     0     0     0     0
## X5512     1     0     0     0     0     1     1     0     0     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     0     0     1     1     0     1     0     0     0     0     0
## X5515     0     0     0     0     0     1     1     0     0     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     1     0     0     0     0     0     0     0     0     1     1     1
## X5603     0     0     1     1     0     1     1     1     1     0     0     0
## X5609     1     0     0     0     0     0     0     0     0     0     0     0
## X5806     0     0     0     1     1     1     1     0     0     0     0     0
## X5807     0     0     0     1     1     1     1     0     0     0     0     0
## X5903     0     0     1     1     0     0     0     1     1     0     0     0
## X5907     0     0     0     0     0     1     1     0     0     0     0     0
## X5911     1     0     0     1     1     0     1     0     0     0     0     0
## X6002     0     0     1     1     1     1     1     1     0     1     1     1
## X6101     0     0     0     0     0     1     1     0     0     0     0     0
## X6103     0     0     0     1     1     0     1     0     0     0     0     0
## X6104     1     0     0     1     1     0     1     0     0     1     1     1
## X6105     0     0     0     0     0     1     1     0     0     0     0     0
## X6106     1     0     0     1     1     0     1     0     0     1     1     1
## X6107     0     0     0     1     1     0     1     0     0     0     0     0
## X6109     0     0     0     1     1     0     1     0     0     0     0     0
## X6110     1     0     0     0     0     1     1     0     0     0     0     0
## X6111     0     0     0     1     1     0     1     0     0     0     0     0
## X6112     0     0     0     1     1     0     1     0     0     0     0     0
## X6114     1     0     0     1     1     0     1     0     0     0     0     0
## X6115     1     0     0     1     1     0     1     0     0     1     1     1
## X6117     0     0     0     0     0     1     1     0     0     0     0     0
## X6201     0     0     0     1     1     0     1     0     0     0     0     0
## X6202     0     0     0     1     1     0     1     0     0     0     0     0
## X6203     0     0     0     1     1     1     1     0     0     0     0     0
## X6204     0     0     0     1     1     0     1     0     0     0     0     0
```

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## X6205     1     0     0     0     0     1     1     0     0     1     1     1
## X6206     1     0     0     0     1     0     1     0     0     1     1     1
## X6210     0     0     0     1     1     0     1     0     0     0     0     0
## X6211     0     0     0     1     1     1     1     0     0     0     0     0
## X6212     0     0     1     1     1     1     1     1     1     0     0     0
## X6217     0     0     0     1     1     0     1     0     0     0     0     0
## X6302     0     0     0     1     1     0     1     0     0     0     0     0
## X6303     0     0     0     1     1     0     1     0     0     0     0     0
## X6304     0     0     0     1     1     0     1     0     0     0     0     0
## X6305     0     0     1     1     1     0     1     1     1     0     0     0
## X6306     0     0     1     1     0     0     0     1     1     0     0     0
## X6307     0     0     0     1     1     0     1     0     0     0     0     0
## X6401     1     0     0     0     0     0     0     0     0     1     1     1
## X6403     1     0     0     0     0     0     0     0     0     1     1     1
## X6404     0     0     1     1     0     0     0     1     1     0     0     0
##       X4911 X5111 X5112 X5205 X5206 X5208 X5209 X5210 X5211 X5402 X5407 X5408
## X102      1     0     0     0     0     0     0     0     0     0     1     0
## X210      1     0     0     0     0     0     1     0     0     0     0     0
## X401      1     1     0     0     0     0     0     0     0     0     1     0
## X403      1     0     0     0     0     0     1     0     0     0     0     0
## X406      1     0     0     0     0     0     1     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      1     0     0     0     0     0     0     1     0     0     0     1
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     0     0     0     0     0     0     0     0     1     0     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0     0     0     0     0     0     0     0     0     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      1     0     0     0     0     0     0     0     0     0     1     0
## X813      0     0     0     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     0     0     0
## X1001     0     0     0     0     0     0     0     1     0     1     0     0
## X1003     0     1     0     0     0     0     0     1     0     0     0     0
## X1005     0     0     0     0     0     0     0     1     0     0     0     0
## X1102     0     1     0     0     0     0     0     0     0     0     1     0
## X1108     0     1     0     0     0     0     0     0     0     0     1     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     1     0     0     0     0     0     0     0     0     1     0
## X1213     0     0     0     0     0     0     0     1     0     1     0     1
## X1214     0     1     1     0     0     0     0     1     0     1     0     1
## X1302     0     1     1     0     0     0     0     1     0     1     0     1
## X1507     1     0     0     0     0     0     1     0     0     0     0     0
## X1514     1     0     0     0     0     0     1     0     0     0     0     0
## X1517     1     1     0     0     0     0     0     0     0     0     1     0
## X1601     1     0     0     0     0     0     1     0     0     0     0     0
## X1602     1     0     0     0     0     0     1     0     0     0     0     0
## X1704     1     0     0     0     0     0     0     0     0     0     0     0
## X1806     0     1     0     0     0     0     0     0     0     0     0     0
## X1901     1     1     0     0     0     0     0     0     0     0     0     0
## X1902     1     0     0     0     0     0     1     0     0     0     0     0
## X1905     0     0     0     1     1     1     0     0     1     1     1     0
## X2001     1     0     0     0     0     0     1     0     0     0     0     0
## X2002     1     0     0     0     0     0     1     0     0     0     0     0
## X2003     1     0     0     0     0     0     1     0     0     0     0     0
## X2004     1     0     0     0     0     0     1     0     0     0     0     0
## X2005     1     0     0     0     0     0     1     0     0     0     0     0
## X2006     1     0     0     0     0     0     0     0     0     0     1     0
## X2007     1     0     0     0     0     0     1     0     0     0     0     0
## X2008     0     1     0     0     0     0     0     0     0     0     0     0
## X2101     1     0     0     0     0     0     1     0     0     0     0     0
## X2102     1     0     0     0     0     0     0     0     0     0     1     0
## X2103     1     0     0     0     0     0     1     0     0     0     0     0
## X2104     0     0     0     0     0     0     0     0     0     0     0     0
## X2106     1     1     0     0     0     0     1     0     0     0     0     0
## X2202     1     1     0     0     0     0     1     1     0     0     0     0
## X2206     0     0     0     0     0     0     0     0     0     0     0     0
## X2208     1     1     1     0     0     0     0     0     0     0     1     0
## X2209     1     0     0     0     0     0     1     0     0     0     0     0
## X2302     0     0     0     0     0     0     0     0     0     0     0     0
## X2309     0     1     0     0     0     0     0     0     0     0     1     0
## X2402     1     0     0     0     0     0     0     0     0     0     1     0
## X2403     1     0     0     0     0     0     0     0     0     0     1     0
## X2507     0     0     0     0     0     0     0     0     0     0     0     0
## X2508     1     1     0     0     0     0     0     0     0     0     1     0
```

```
## X2512     0     1     1     0     0     0     0     0     0     0     0     0
## X2517     0     0     0     0     0     0     0     1     0     0     0     0
## X2519     0     1     0     0     0     0     0     0     0     0     1     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     1     0     0     0     0     0     0     0     0     0     1     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     1     0     0     0     0     0     0     0     0     0     1     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     0     0
## X2713     0     0     0     1     1     1     1     0     1     1     1     0
## X2714     0     0     0     1     1     1     1     0     1     1     1     0
## X2716     1     1     1     0     0     0     0     0     0     1     0     0
## X2804     1     1     0     0     0     0     0     0     0     0     1     0
## X2811     1     1     0     0     0     0     0     0     0     0     1     0
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     0     1     0     0     0     0     0     0     0     0     1     0
## X2832     0     1     0     0     0     0     0     0     0     0     1     0
## X2833     0     1     0     0     0     0     0     0     0     0     1     0
## X2835     0     1     0     0     0     0     0     0     0     0     1     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     1     1     0     0     0     0     0     0     0     0     1     0
## X2903     0     0     0     1     1     1     1     0     1     1     1     0
## X2907     0     1     0     0     0     0     0     0     0     0     1     0
## X2915     0     1     0     0     0     0     0     0     0     0     1     0
## X2933     0     1     0     0     0     0     0     0     0     0     1     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     1     0     0     0     0     0     0     0     0     1     0
## X3204     1     1     0     0     0     0     0     0     0     0     1     0
## X3205     0     0     0     1     1     1     1     0     1     1     1     0
## X3206     0     1     0     1     1     1     1     0     1     1     1     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     0     0     1     1     1     1     0     1     1     1     0
## X3209     0     0     0     1     1     1     1     0     1     1     1     0
## X3210     0     1     0     0     0     0     0     0     0     0     1     0
## X3211     0     0     0     1     1     1     1     0     1     1     1     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     0     1     1     1     1     0     1     1     1     0
## X3215     0     0     0     1     1     1     1     0     1     1     1     0
## X3302     1     1     0     0     0     0     1     0     0     0     0     0
## X3303     1     0     0     0     0     0     0     0     0     0     1     0
## X3304     1     0     0     0     0     0     0     0     0     0     1     0
## X3305     1     0     0     0     0     0     0     0     0     0     1     0
## X3307     1     0     0     0     0     0     0     0     0     0     1     0
## X3402     1     1     0     0     0     0     1     0     0     0     1     0
## X3403     1     1     0     0     0     0     0     0     0     0     1     0
## X3506     1     0     0     1     1     1     1     0     1     1     1     0
## X3507     1     1     0     0     0     0     1     0     0     0     0     0
## X3605     0     0     0     0     0     0     0     0     0     0     0     0
## X3701     0     0     0     1     1     1     1     0     1     1     1     0
## X3707     0     0     0     1     1     1     1     0     1     1     1     0
## X3802     0     0     0     0     0     0     0     0     0     1     0     0
## X3808     1     0     0     0     0     0     0     0     0     0     1     0
## X3809     0     1     0     0     0     0     0     0     0     0     1     0
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     1     0     1     1     1     1     0     1     1     1     0
## X3815     0     1     0     0     0     0     0     0     0     0     1     0
## X3816     1     0     0     0     0     0     0     0     0     0     1     0
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     0     0
## X3902     0     1     0     0     0     0     0     0     0     0     1     0
## X3908     1     0     0     0     0     0     1     0     0     0     0     0
## X3909     0     1     0     0     0     0     0     0     0     0     1     0
## X3910     0     1     0     0     0     0     0     0     0     0     1     0
## X3911     0     1     0     0     0     0     0     0     0     0     1     0
## X3915     0     1     0     0     0     0     0     0     0     0     1     0
## X3916     0     0     0     1     1     1     1     0     1     1     1     0
## X3917     0     1     0     0     0     0     0     0     0     0     1     0
## X3919     0     1     0     1     1     1     1     0     1     1     1     0
## X3920     0     1     0     1     1     1     1     0     1     1     1     0
## X3921     0     1     0     1     1     1     1     0     1     1     1     0
## X3923     1     0     0     0     0     0     1     0     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     1     0     0     0     0     0     0     0     0     1     0
## X3926     0     1     0     0     0     0     0     0     0     1     1     0
```

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## X4001     0     0     0     1     1     1     1     0     1     1     1     0
## X4005     0     0     0     0     0     0     0     0     0     0     0     0
## X4006     0     0     0     0     0     0     0     0     0     0     0     0
## X4008     1     0     0     0     0     0     0     0     0     0     1     0
## X4009     0     0     0     0     0     0     0     0     0     0     0     0
## X4010     1     0     0     0     0     0     1     0     0     0     0     0
## X4012     0     0     0     0     0     0     0     0     0     0     0     0
## X4013     0     0     0     0     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     0     0     0     0     0
## X4202     0     1     0     1     1     1     1     1     1     1     1     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     1     1     0     0     0     0     1     0     0     0     0     0
## X4415     1     1     0     0     0     0     1     0     0     0     0     0
## X4416     0     1     1     0     0     0     0     0     0     0     0     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     0
## X4421     1     0     0     0     0     0     0     0     0     0     1     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     1     0     0     0     0     0     0     0     0     1     0
## X4808     0     1     0     1     1     1     1     0     1     1     1     0
## X4818     0     0     0     1     1     1     1     0     1     1     1     0
## X4819     1     0     0     0     0     0     1     0     0     0     0     0
## X4821     1     0     0     1     1     1     1     0     1     1     1     0
## X4822     0     1     0     0     0     0     0     0     0     0     1     0
## X4823     0     1     0     0     0     0     0     0     0     1     1     0
## X4901     1     0     0     0     0     0     0     0     0     0     1     0
## X4902     1     0     0     0     0     0     0     0     0     0     1     0
## X4907     1     0     0     0     0     0     0     0     0     0     1     0
## X4911     0     0     0     0     0     0     1     0     0     0     0     0
## X5111     0     0     1     0     0     0     0     0     0     0     1     0
## X5112     0     1     0     0     0     0     0     0     0     0     0     0
## X5205     0     0     0     0     1     1     1     0     1     1     1     0
## X5206     0     0     0     1     0     1     1     0     1     1     1     0
## X5208     0     0     0     1     1     0     1     0     1     1     1     0
## X5209     1     0     0     1     1     1     0     0     1     1     1     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     0     0     1     1     1     1     0     0     1     1     0
## X5402     0     0     0     1     1     1     1     0     1     0     1     0
## X5407     0     1     0     1     1     1     1     0     1     1     0     0
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     1
## X5508     1     0     0     0     0     0     1     0     0     1     0     0
## X5509     0     0     0     1     1     1     1     0     1     1     1     1
## X5511     0     0     0     0     0     0     0     0     0     0     0     0
## X5512     1     0     0     0     0     0     1     0     0     0     0     1
## X5513     0     0     0     0     0     0     0     1     0     0     0     0
## X5514     0     0     0     1     1     1     1     0     1     1     1     0
## X5515     1     1     1     0     0     0     1     0     0     0     0     0
## X5516     0     0     0     0     0     0     0     1     0     0     0     0
## X5601     1     0     0     0     0     0     0     0     0     0     1     0
## X5603     1     1     0     0     0     0     1     1     0     0     0     0
## X5609     0     0     0     0     0     0     0     0     0     0     0     0
## X5806     1     0     0     1     1     1     1     0     1     1     1     0
## X5807     1     0     0     1     1     1     1     0     1     1     1     0
## X5903     0     1     0     0     0     0     0     0     0     0     1     0
## X5907     1     0     0     0     0     0     1     0     0     0     0     0
## X5911     0     1     1     1     1     1     1     1     1     1     0     0
## X6002     1     1     0     1     1     1     1     1     1     1     1     0
## X6101     1     0     0     0     0     0     1     0     0     0     0     0
## X6103     0     0     0     1     1     1     1     0     1     1     1     0
## X6104     1     0     0     1     1     1     1     0     1     1     1     0
## X6105     1     0     0     0     0     0     1     0     0     0     0     0
## X6106     1     0     0     1     1     1     1     0     1     1     1     0
## X6107     0     0     0     1     1     1     1     0     1     1     1     0
## X6109     0     0     0     1     1     1     1     0     1     1     1     0
## X6110     1     0     0     0     0     0     1     0     0     0     0     0
## X6111     0     0     0     1     1     1     1     0     1     1     1     0
## X6112     0     0     0     1     1     1     1     0     1     1     1     0
## X6114     0     1     1     1     1     1     1     1     1     1     0     0
## X6115     1     0     0     1     1     1     1     0     1     1     1     0
## X6117     1     0     0     0     0     0     1     0     0     0     0     0
## X6201     0     0     0     1     1     1     1     0     1     1     1     0
## X6202     0     0     0     1     1     1     1     0     1     1     1     0
## X6203     1     0     0     1     1     1     1     0     1     1     1     0
## X6204     0     0     0     1     1     1     1     0     1     1     1     0
## X6205     1     0     0     0     0     0     1     0     0     0     0     0
## X6206     1     0     0     1     1     1     1     0     1     1     1     0
## X6210     0     0     0     1     1     1     1     0     1     1     1     0
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## X6211     1     0     0     1     1     1     1     1     1     1     0     0
## X6212     0     1     0     1     1     1     1     0     1     1     0     0
## X6217     0     0     0     1     1     1     1     0     1     1     1     0
## X6302     0     0     0     1     1     1     1     0     1     1     1     0
## X6303     0     0     0     1     1     1     1     0     1     1     1     0
## X6304     0     0     0     1     1     1     1     0     1     1     1     0
## X6305     0     1     0     1     1     1     1     0     1     1     1     0
## X6306     0     1     0     0     0     0     0     0     0     0     1     0
## X6307     0     0     0     1     1     1     1     0     1     1     1     0
## X6401     1     0     0     0     0     0     0     0     0     0     1     0
## X6403     1     0     0     0     0     0     0     0     0     0     1     0
## X6404     0     1     0     0     0     0     0     0     0     0     1     0
##       X5505 X5508 X5509 X5511 X5512 X5513 X5514 X5515 X5516 X5601 X5603 X5609
## X102      0     1     0     0     0     0     0     0     0     1     0     0
## X210      0     1     0     0     1     0     0     1     0     0     1     0
## X401      0     1     0     0     0     0     0     0     0     1     1     0
## X403      0     1     0     0     1     0     0     1     0     1     0     0
## X406      0     1     0     0     1     0     0     1     0     0     1     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      1     1     1     1     1     1     0     1     1     0     1     1
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      1     0     1     1     1     0     0     0     0     0     0     1
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0     0     0     0     0     0     0     0     0     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     1     0     0     0     0     0     0     0     1     0     0
## X813      1     0     1     1     1     0     0     0     0     0     0     1
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     0     0     0
## X1001     0     1     0     0     0     1     0     0     1     0     1     0
## X1003     0     0     0     0     0     1     0     0     1     1     1     0
## X1005     0     0     0     0     0     1     0     0     1     0     1     0
## X1102     0     0     0     0     0     0     0     0     0     0     1     0
## X1108     0     0     0     0     0     0     0     0     0     0     1     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     0     0     0     0     0     0     0     0     1     0
## X1213     1     1     1     0     1     1     0     0     1     0     1     0
## X1214     1     0     1     1     1     1     0     1     1     0     0     1
## X1302     1     0     1     1     1     1     0     1     1     0     1     1
## X1507     0     1     0     0     1     0     0     1     0     0     1     0
## X1514     0     1     0     0     1     0     0     1     0     0     1     0
## X1517     0     1     0     0     0     0     0     0     0     1     1     0
## X1601     0     1     0     0     1     0     0     1     0     0     1     0
## X1602     0     1     0     0     1     0     0     1     0     1     1     0
## X1704     1     0     1     1     1     0     0     0     0     1     0     1
## X1806     1     0     0     1     1     0     0     0     0     1     0     1
## X1901     1     1     0     1     1     0     0     1     0     1     1     1
## X1902     0     1     0     0     1     0     0     1     0     0     1     0
## X1905     1     0     1     1     1     0     1     0     0     1     0     1
## X2001     0     1     0     0     1     0     0     1     0     0     1     0
## X2002     0     1     0     0     1     0     0     1     0     0     1     0
## X2003     0     1     0     0     1     0     0     1     0     0     1     0
## X2004     0     1     0     0     1     0     0     1     0     0     1     0
## X2005     1     1     1     1     1     0     0     1     0     1     0     1
## X2006     0     1     0     0     0     0     0     0     0     1     0     0
## X2007     0     1     0     0     1     0     0     1     0     1     1     0
## X2008     1     0     0     1     1     0     0     0     0     1     0     1
## X2101     0     1     0     0     1     0     0     1     0     0     1     0
## X2102     0     1     0     0     0     0     0     0     0     1     0     0
## X2103     0     1     0     0     1     0     0     1     0     0     1     0
## X2104     0     0     0     0     0     0     0     0     0     0     0     0
## X2106     0     1     0     0     1     0     0     1     0     0     1     0
## X2202     0     1     0     0     1     1     0     1     1     0     1     0
## X2206     1     0     1     1     1     0     0     0     0     0     0     1
## X2208     0     1     0     0     0     0     0     1     0     1     0     0
## X2209     0     1     0     0     1     0     0     1     0     0     1     0
## X2302     0     0     0     0     0     0     0     0     0     0     0     0
## X2309     0     0     0     0     0     0     0     0     0     0     1     0
## X2402     0     1     0     0     0     0     0     0     0     1     0     0
## X2403     0     1     0     0     0     0     0     0     0     1     0     0
## X2507     1     0     1     1     1     0     0     0     0     0     0     1
## X2508     0     1     0     0     0     0     0     0     0     1     1     0
## X2512     0     0     0     0     0     0     0     1     0     0     0     0
## X2517     1     0     1     1     1     1     0     0     1     1     0     1
## X2519     0     0     0     0     0     0     0     0     0     0     1     0
```

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## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     1     0     0     0     0     0     0     0     1     0     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     1     0     0     0     0     0     0     0     1     0     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     0     0
## X2713     0     0     1     0     0     0     1     0     0     0     0     0
## X2714     0     0     1     0     0     0     1     0     0     0     0     0
## X2716     0     1     0     0     0     0     0     1     0     1     0     0
## X2804     0     0     0     0     0     0     0     0     0     1     0     0
## X2811     0     0     0     0     0     0     0     0     0     1     0     0
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     0     0     0     0     0     0     0     0     0     0     1     0
## X2832     0     0     0     0     0     0     0     0     0     0     1     0
## X2833     0     0     0     0     0     0     0     0     0     0     1     0
## X2835     0     0     0     0     0     0     0     0     0     0     1     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     0     0     0     0     0     0     0     0     1     0     0
## X2903     0     1     1     0     0     0     1     0     0     0     0     0
## X2907     0     0     0     0     0     0     0     0     0     0     1     0
## X2915     0     0     0     0     0     0     0     0     0     0     1     0
## X2933     0     0     0     0     0     0     0     0     0     0     1     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     0     0     0     0     0     0     0     0     1     0
## X3204     0     0     0     0     0     0     0     0     0     1     1     0
## X3205     0     0     1     0     0     0     1     0     0     0     0     0
## X3206     0     0     1     0     0     0     1     0     0     0     1     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     0     1     0     0     0     1     0     0     0     0     0
## X3209     0     0     1     0     0     0     1     0     0     0     0     0
## X3210     0     0     0     0     0     0     0     0     0     0     1     0
## X3211     0     0     1     0     0     0     1     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     1     1     0     0     0     1     0     0     0     0     0
## X3215     0     0     1     0     0     0     1     0     0     0     0     0
## X3302     0     1     0     0     1     0     0     1     0     0     1     0
## X3303     0     1     0     0     0     0     0     0     0     1     0     0
## X3304     0     1     0     0     0     0     0     0     0     1     0     0
## X3305     0     1     0     0     0     0     0     0     0     1     0     0
## X3307     0     1     0     0     0     0     0     0     0     1     0     0
## X3402     0     1     0     0     1     0     0     1     0     1     1     0
## X3403     0     0     0     0     0     0     0     0     0     1     1     0
## X3506     0     1     1     0     1     0     1     1     0     1     0     0
## X3507     0     1     0     0     1     0     0     1     0     0     1     0
## X3605     0     0     0     0     0     0     0     0     0     0     0     0
## X3701     0     0     1     0     0     0     1     0     0     0     0     0
## X3707     0     0     1     0     0     0     1     0     0     0     0     0
## X3802     0     1     0     0     0     0     0     0     0     0     0     0
## X3808     0     1     0     0     0     0     0     0     0     1     0     0
## X3809     0     0     0     0     0     0     0     0     0     1     0     0
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     0     1     0     0     0     1     0     0     0     1     0
## X3815     0     0     0     0     0     0     0     0     0     0     1     0
## X3816     0     1     0     0     0     0     0     0     0     1     0     0
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     0     0
## X3902     0     0     0     0     0     0     0     0     0     0     1     0
## X3908     0     1     0     0     1     0     0     1     0     1     1     0
## X3909     0     0     0     0     0     0     0     0     0     0     1     0
## X3910     0     0     0     0     0     0     0     0     0     0     1     0
## X3911     0     0     0     0     0     0     0     0     0     0     1     0
## X3915     0     0     0     0     0     0     0     0     0     0     1     0
## X3916     0     0     1     0     0     0     1     0     0     0     0     0
## X3917     1     0     1     1     1     0     0     0     0     1     0     1
## X3919     0     0     1     0     0     0     1     0     0     0     1     0
## X3920     0     0     1     0     0     0     1     0     0     0     1     0
## X3921     0     0     1     0     0     0     1     0     0     0     1     0
## X3923     1     1     1     1     1     0     0     1     0     0     1     1
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     0     0     0     0     0     0     0     0     1     0
## X3926     0     1     0     0     0     0     0     0     0     1     0     0
## X4001     0     0     1     0     0     0     1     0     0     0     0     0
## X4005     0     0     0     0     0     0     0     0     0     0     0     0
## X4006     0     0     0     0     0     0     0     0     0     0     0     0
```

```
## X4008     0     1     0     0     0     0     0     0     0     1     0     0
## X4009     0     0     0     0     0     0     0     0     0     0     0     0
## X4010     1     1     1     1     1     0     0     1     0     0     1     1
## X4012     0     0     0     0     0     0     0     0     0     0     0     0
## X4013     0     0     0     0     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     0     0     0     0     0
## X4202     0     0     1     0     0     1     1     0     1     0     1     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     1     1     1     1     1     0     0     1     0     0     1     1
## X4415     0     1     0     0     1     0     0     1     0     0     1     0
## X4416     1     0     1     1     1     0     0     1     0     0     1     1
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     1     0     1     1     1     0     0     0     0     0     0     1
## X4421     1     1     1     1     1     0     0     0     0     1     0     1
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     0     0     0     0     0     0     0     1     0
## X4808     0     0     1     0     0     0     1     0     0     0     1     0
## X4818     0     0     1     0     0     0     1     0     0     0     0     0
## X4819     0     1     0     0     1     0     0     1     0     0     1     0
## X4821     0     1     1     0     1     0     1     1     0     0     1     0
## X4822     0     0     0     0     0     0     0     0     0     0     1     0
## X4823     0     1     0     0     0     0     0     0     0     0     1     0
## X4901     0     1     0     0     0     0     0     0     0     1     0     0
## X4902     0     1     0     0     0     0     0     0     0     1     0     0
## X4907     0     1     0     0     0     0     0     0     0     1     0     0
## X4911     0     1     0     0     1     0     0     1     0     1     1     0
## X5111     0     0     0     0     0     0     0     1     0     0     1     0
## X5112     0     0     0     0     0     0     0     1     0     0     0     0
## X5205     0     0     1     0     0     0     1     0     0     0     0     0
## X5206     0     0     1     0     0     0     1     0     0     0     0     0
## X5208     0     0     1     0     0     0     1     0     0     0     0     0
## X5209     0     1     1     0     1     0     1     1     0     0     1     0
## X5210     0     0     0     0     0     1     0     0     1     0     1     0
## X5211     0     0     1     0     0     0     1     0     0     0     0     0
## X5402     0     1     1     0     0     0     1     0     0     0     0     0
## X5407     0     0     1     0     0     0     1     0     0     1     0     0
## X5408     1     0     1     0     1     0     0     0     0     0     0     0
## X5505     0     0     1     1     1     0     0     0     0     0     0     1
## X5508     0     0     0     0     1     0     0     1     0     1     1     0
## X5509     1     0     0     1     1     0     1     0     0     0     0     1
## X5511     1     0     1     0     1     0     0     0     0     0     0     1
## X5512     1     1     1     1     0     0     0     1     0     0     1     1
## X5513     0     0     0     0     0     0     0     0     1     0     1     0
## X5514     0     0     1     0     0     0     0     0     0     0     0     0
## X5515     0     1     0     0     1     0     0     0     0     0     1     0
## X5516     0     0     0     0     0     1     0     0     0     0     1     0
## X5601     0     1     0     0     0     0     0     0     0     0     0     0
## X5603     0     1     0     0     1     1     0     1     1     0     0     0
## X5609     1     0     1     1     1     0     0     0     0     0     0     0
## X5806     0     1     1     0     1     0     1     1     0     0     1     0
## X5807     0     1     1     0     1     0     1     1     0     0     1     0
## X5903     0     0     0     0     0     0     0     0     0     0     1     0
## X5907     0     1     0     0     1     0     0     1     0     0     1     0
## X5911     1     0     1     1     1     1     1     1     1     0     1     1
## X6002     0     1     0     0     1     1     1     1     1     1     1     0
## X6101     0     1     0     0     1     0     0     1     0     0     1     0
## X6103     0     0     1     0     0     0     1     0     0     0     0     0
## X6104     0     1     1     0     0     0     1     0     0     1     0     0
## X6105     0     1     0     0     1     0     0     1     0     0     1     0
## X6106     0     1     1     0     0     0     1     0     0     1     0     0
## X6107     0     0     1     0     0     0     1     0     0     0     0     0
## X6109     0     0     1     0     0     0     1     0     0     0     0     0
## X6110     1     1     1     1     1     0     0     1     0     0     1     1
## X6111     0     0     1     0     0     0     1     0     0     0     0     0
## X6112     0     0     1     0     0     0     1     0     0     0     0     0
## X6114     1     0     1     1     1     1     1     1     1     0     1     1
## X6115     0     1     1     0     0     0     1     0     0     1     0     0
## X6117     0     1     0     0     1     0     0     1     0     0     1     0
## X6201     0     0     1     0     0     0     1     0     0     0     0     0
## X6202     0     0     1     0     0     0     1     0     0     0     0     0
## X6203     0     1     1     0     1     0     1     1     0     0     1     0
## X6204     0     0     1     0     0     0     1     0     0     0     0     0
## X6205     0     1     0     0     1     0     0     1     0     1     1     0
## X6206     1     0     1     1     1     0     1     0     0     1     0     1
## X6210     0     0     1     0     0     0     1     0     0     0     0     0
## X6211     0     1     1     0     1     1     1     1     1     0     1     0
## X6212     0     0     1     0     1     0     1     1     0     0     1     0
## X6217     0     0     1     0     0     0     1     0     0     0     0     0
```

```
## X6302     0     0     1     0     0     0     1     0     0     0     0     0
## X6303     0     0     1     0     0     0     1     0     0     0     0     0
## X6304     0     0     1     0     0     0     1     0     0     0     0     0
## X6305     0     0     1     0     0     0     1     0     0     0     1     0
## X6306     0     0     0     0     0     0     0     0     0     0     1     0
## X6307     0     0     1     0     0     0     1     0     0     0     0     0
## X6401     0     1     0     0     0     0     0     0     0     1     0     0
## X6403     0     1     0     0     0     0     0     0     0     1     0     0
## X6404     0     0     0     0     0     0     0     0     0     0     1     0
##       X5806 X5807 X5903 X5907 X5911 X6002 X6101 X6103 X6104 X6105 X6106 X6107
## X102      0     0     0     0     0     1     0     0     1     0     1     0
## X210      1     1     0     1     0     1     1     0     0     1     0     0
## X401      0     0     1     0     0     1     0     0     1     0     1     0
## X403      1     1     0     1     0     1     1     0     1     1     1     0
## X406      1     1     0     1     0     1     1     0     0     1     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     0     1     1     0     1     0     0     1     0     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     0     0     0     0     0     0     0     0     0     0     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0     0     0     0     0     0     0     0     0     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     0     0     1     0     0     1     0     1     0
## X813      0     0     0     0     1     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     0     0     0
## X1001     0     0     0     0     1     0     0     0     0     0     0     0
## X1003     0     0     1     0     0     0     0     0     0     0     0     0
## X1005     0     0     0     0     1     0     0     0     0     0     0     0
## X1102     0     0     1     0     0     1     0     0     0     0     0     0
## X1108     0     0     1     0     0     1     0     0     0     0     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     1     0     0     1     0     0     0     0     0     0
## X1213     0     0     0     0     1     0     0     0     0     0     0     0
## X1214     0     0     0     0     1     0     0     0     0     0     0     0
## X1302     0     0     0     0     1     0     0     0     0     0     0     0
## X1507     1     1     0     1     0     1     1     0     0     1     0     0
## X1514     1     1     0     1     0     1     1     0     0     1     0     0
## X1517     0     0     1     0     0     1     0     0     1     0     1     0
## X1601     1     1     0     1     0     1     1     0     0     1     0     0
## X1602     1     1     0     1     0     1     1     0     1     1     1     0
## X1704     0     0     0     0     1     0     0     0     0     0     0     0
## X1806     0     0     1     0     0     0     0     0     0     0     0     0
## X1901     0     0     1     1     0     1     1     0     0     1     0     0
## X1902     1     1     0     1     0     1     1     0     0     1     0     0
## X1905     0     0     1     0     1     0     0     1     1     0     1     1
## X2001     1     1     0     1     0     1     1     0     0     1     0     0
## X2002     1     1     0     1     0     1     1     0     0     1     0     0
## X2003     1     1     0     1     0     1     1     0     0     1     0     0
## X2004     1     1     0     1     0     1     1     0     0     1     0     0
## X2005     1     1     0     1     1     0     1     0     0     1     0     0
## X2006     0     0     0     0     0     1     0     0     1     0     1     0
## X2007     1     1     0     1     0     1     1     0     1     1     1     0
## X2008     0     0     1     0     0     0     0     0     0     0     0     0
## X2101     1     1     0     1     0     1     1     0     0     1     0     0
## X2102     0     0     0     0     0     0     0     0     1     0     1     0
## X2103     1     1     0     1     0     1     1     0     0     1     0     0
## X2104     0     0     0     0     0     0     0     0     0     0     0     0
## X2106     1     1     1     1     0     1     1     0     0     1     0     0
## X2202     1     1     1     1     1     1     1     0     0     1     0     0
## X2206     0     0     0     0     1     0     0     0     0     0     0     0
## X2208     0     0     0     0     1     0     0     0     1     0     1     0
## X2209     1     1     0     1     0     1     1     0     0     1     0     0
## X2302     0     0     0     0     0     0     0     0     0     0     0     0
## X2309     0     0     1     0     0     1     0     0     0     0     0     0
## X2402     0     0     0     0     0     1     0     0     1     0     1     0
## X2403     0     0     0     0     0     1     0     0     1     0     1     0
## X2507     0     0     0     0     1     0     0     0     0     0     0     0
## X2508     0     0     1     0     0     1     0     0     1     0     1     0
## X2512     0     0     0     0     1     0     0     0     0     0     0     0
## X2517     0     0     0     0     1     0     0     0     0     0     0     0
## X2519     0     0     1     0     0     1     0     0     0     0     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
```

```
## X2530     0     0     0     0     0     0     0     0     1     0     1     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     0     0     1     0     0     1     0     1     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     0     0
## X2713     1     1     0     0     1     1     0     1     1     0     1     1
## X2714     1     1     0     0     1     1     0     1     1     0     1     1
## X2716     0     0     0     0     1     0     0     0     1     0     1     0
## X2804     0     0     1     0     0     0     0     0     0     0     0     0
## X2811     0     0     1     0     0     0     0     0     0     0     0     0
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     0     0     1     0     0     1     0     0     0     0     0     0
## X2832     0     0     1     0     0     1     0     0     0     0     0     0
## X2833     0     0     1     0     0     1     0     0     0     0     0     0
## X2835     0     0     1     0     0     1     0     0     0     0     0     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     0     1     0     0     0     0     0     0     0     0     0
## X2903     1     1     0     0     1     1     0     1     1     0     1     1
## X2907     0     0     1     0     0     1     0     0     0     0     0     0
## X2915     0     0     1     0     0     1     0     0     0     0     0     0
## X2933     0     0     1     0     0     1     0     0     0     0     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     1     0     0     1     0     0     0     0     0     0
## X3204     0     0     1     0     0     1     0     0     1     0     1     0
## X3205     1     1     0     0     1     1     0     1     1     0     1     1
## X3206     1     1     1     0     1     1     0     1     1     0     1     1
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     1     1     0     0     1     0     0     1     1     0     1     1
## X3209     1     1     0     0     1     1     0     1     1     0     1     1
## X3210     0     0     1     0     0     1     0     0     0     0     0     0
## X3211     1     1     0     0     1     1     0     1     1     0     1     1
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     1     1     0     0     1     1     0     1     1     0     1     1
## X3215     1     1     0     0     1     1     0     1     1     0     1     1
## X3302     1     1     1     1     0     1     1     0     0     1     0     0
## X3303     0     0     0     0     0     1     0     0     1     0     1     0
## X3304     0     0     0     0     0     1     0     0     1     0     1     0
## X3305     0     0     0     0     0     0     0     0     1     0     1     0
## X3307     0     0     0     0     0     1     0     0     1     0     1     0
## X3402     1     1     1     1     0     1     1     0     0     1     0     0
## X3403     0     0     1     0     0     1     0     0     1     0     1     0
## X3506     1     1     0     1     0     1     1     1     1     1     1     1
## X3507     1     1     1     1     0     1     1     0     0     1     0     0
## X3605     0     0     0     0     0     0     0     0     0     0     0     0
## X3701     1     1     0     0     1     1     0     1     1     0     1     1
## X3707     1     1     0     0     1     1     0     1     1     0     1     1
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     0     0     0     0     0     1     0     0     1     0     1     0
## X3809     0     0     1     0     0     0     0     0     0     0     0     0
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     1     1     1     0     1     1     0     1     1     0     1     1
## X3815     0     0     1     0     0     1     0     0     0     0     0     0
## X3816     0     0     0     0     0     1     0     0     1     0     1     0
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     0     0
## X3902     0     0     1     0     0     1     0     0     0     0     0     0
## X3908     1     1     0     1     0     1     1     0     1     1     1     0
## X3909     0     0     1     0     0     1     0     0     0     0     0     0
## X3910     0     0     1     0     0     1     0     0     0     0     0     0
## X3911     0     0     1     0     0     1     0     0     0     0     0     0
## X3915     0     0     1     0     0     1     0     0     0     0     0     0
## X3916     1     1     0     0     1     1     0     1     1     0     1     1
## X3917     0     0     1     0     0     0     0     0     0     0     0     0
## X3919     1     1     1     0     1     1     0     1     1     0     1     1
## X3920     1     1     1     0     1     1     0     1     1     0     1     1
## X3921     1     1     1     0     1     1     0     1     1     0     1     1
## X3923     1     1     0     1     1     0     1     0     0     1     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     1     0     0     1     0     0     0     0     0     0
## X3926     0     0     1     0     0     0     0     0     0     0     0     0
## X4001     1     1     0     0     1     1     0     1     1     0     1     1
## X4005     0     0     0     0     0     0     0     0     0     0     0     0
## X4006     0     0     0     0     0     0     0     0     0     0     0     0
## X4008     0     0     0     0     0     1     0     0     1     0     1     0
## X4009     0     0     0     0     0     0     0     0     0     0     0     0
## X4010     1     1     0     1     1     0     1     0     0     1     0     0
```

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## X4012     0     0     0     0     0     0     0     0     0     0     0     0
## X4013     0     0     0     0     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     0     0     0     0     0
## X4202     1     1     1     0     1     1     0     1     1     0     1     1
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     1     1     1     1     1     1     1     0     0     1     0     0
## X4415     1     1     1     1     0     1     1     0     0     1     0     0
## X4416     0     0     1     0     1     0     0     0     0     0     0     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     1     0     0     0     0     0     0     0
## X4421     0     0     0     0     1     0     0     0     1     0     1     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     1     0     0     1     0     0     0     0     0     0
## X4808     1     1     1     0     1     1     0     1     1     0     1     1
## X4818     1     1     0     0     1     1     0     1     1     0     1     1
## X4819     1     1     0     1     0     1     1     0     0     1     0     0
## X4821     1     1     0     1     1     1     1     1     1     1     1     1
## X4822     0     0     1     0     0     1     0     0     0     0     0     0
## X4823     0     0     1     0     0     0     0     0     0     0     0     0
## X4901     0     0     0     0     0     1     0     0     1     0     1     0
## X4902     0     0     0     0     0     1     0     0     1     0     1     0
## X4907     0     0     0     0     0     1     0     0     1     0     1     0
## X4911     1     1     0     1     0     1     1     0     1     1     1     0
## X5111     0     0     1     0     1     1     0     0     0     0     0     0
## X5112     0     0     0     0     1     0     0     0     0     0     0     0
## X5205     1     1     0     0     1     1     0     1     1     0     1     1
## X5206     1     1     0     0     1     1     0     1     1     0     1     1
## X5208     1     1     0     0     1     1     0     1     1     0     1     1
## X5209     1     1     0     1     1     1     1     1     1     1     1     1
## X5210     0     0     0     0     1     1     0     0     0     0     0     0
## X5211     1     1     0     0     1     1     0     1     1     0     1     1
## X5402     1     1     0     0     1     1     0     1     1     0     1     1
## X5407     1     1     1     0     0     1     0     1     1     0     1     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     1     0     0     0     0     0     0     0
## X5508     1     1     0     1     0     1     1     0     1     1     1     0
## X5509     1     1     0     0     1     0     0     1     1     0     1     1
## X5511     0     0     0     0     1     0     0     0     0     0     0     0
## X5512     1     1     0     1     1     1     1     0     0     1     0     0
## X5513     0     0     0     0     1     1     0     0     0     0     0     0
## X5514     1     1     0     0     1     1     0     1     1     0     1     1
## X5515     1     1     0     1     1     1     1     0     0     1     0     0
## X5516     0     0     0     0     1     1     0     0     0     0     0     0
## X5601     0     0     0     0     0     1     0     0     1     0     1     0
## X5603     1     1     1     1     1     1     1     0     0     1     0     0
## X5609     0     0     0     0     1     0     0     0     0     0     0     0
## X5806     0     1     0     1     1     1     1     1     1     1     1     1
## X5807     1     0     0     1     1     1     1     1     1     1     1     1
## X5903     0     0     0     0     0     1     0     0     0     0     0     0
## X5907     1     1     0     0     0     1     1     0     0     1     0     0
## X5911     1     1     0     0     0     1     0     1     1     0     1     1
## X6002     1     1     1     1     1     0     1     1     1     1     1     1
## X6101     1     1     0     1     0     1     0     0     0     1     0     0
## X6103     1     1     0     0     1     1     0     0     1     0     1     1
## X6104     1     1     0     0     1     1     0     1     0     0     1     1
## X6105     1     1     0     1     0     1     1     0     0     0     0     0
## X6106     1     1     0     0     1     1     0     1     1     0     0     1
## X6107     1     1     0     0     1     1     0     1     1     0     1     0
## X6109     1     1     0     0     1     1     0     1     1     0     1     1
## X6110     1     1     0     1     1     1     1     0     0     1     0     0
## X6111     1     1     0     0     1     1     0     1     1     0     1     1
## X6112     1     1     0     0     1     1     0     1     1     0     1     1
## X6114     1     1     0     0     1     0     0     1     1     0     1     1
## X6115     1     1     0     0     1     1     0     1     1     0     1     1
## X6117     1     1     0     1     0     1     1     0     0     1     0     0
## X6201     1     1     0     0     1     1     0     1     1     0     1     1
## X6202     1     1     0     0     1     1     0     1     1     0     1     1
## X6203     1     1     0     1     1     1     1     1     1     1     1     1
## X6204     1     1     0     0     1     1     0     1     1     0     1     1
## X6205     1     1     0     1     0     1     1     0     1     1     1     0
## X6206     1     1     0     0     1     1     0     1     1     0     1     1
## X6210     1     1     0     0     1     1     0     1     1     0     1     1
## X6211     1     1     0     1     1     1     1     1     1     1     1     1
## X6212     1     1     1     1     0     1     1     1     0     1     0     1
## X6217     1     1     0     0     1     1     0     1     1     0     1     1
## X6302     1     1     0     0     1     1     0     1     1     0     1     1
## X6303     1     1     0     0     1     1     0     1     1     0     1     1
## X6304     1     1     0     0     1     1     0     1     1     0     1     1
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## X6305     1     1     1     0     1     1     0     1     1     0     1     1
## X6306     0     0     1     0     0     1     0     0     0     0     0     0
## X6307     1     1     0     0     1     1     0     1     1     0     1     1
## X6401     0     0     0     0     0     1     0     0     1     0     1     0
## X6403     0     0     0     0     0     0     0     0     1     0     1     0
## X6404     0     0     1     0     0     1     0     0     0     0     0     0
##       X6109 X6110 X6111 X6112 X6114 X6115 X6117 X6201 X6202 X6203 X6204 X6205
## X102      0     0     0     0     0     1     0     0     0     0     0     1
## X210      0     1     0     0     0     0     1     0     0     1     0     1
## X401      0     0     0     0     0     1     0     0     0     0     0     1
## X403      0     1     0     0     0     0     1     0     0     1     0     1
## X406      0     1     0     0     0     0     1     0     0     1     0     1
## X510      0     0     0     1     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     1     0     0     1     0     1     0     0     0     0     1
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     1     0     1     0     0     0     0     0     0     0     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0     0     0     1     0     0     0     0     0     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     1     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     0     0     1     0     0     0     0     0     1
## X813      0     1     0     0     1     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     1     0     0
## X904      0     0     0     0     0     0     0     0     0     0     0     0
## X1001     0     0     0     1     1     1     0     0     0     0     0     0
## X1003     0     0     0     1     0     1     0     0     0     0     0     0
## X1005     0     0     0     0     1     1     0     0     0     0     0     0
## X1102     0     0     0     0     0     0     0     0     0     0     0     0
## X1108     0     0     0     0     0     0     0     0     0     0     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     0     0     0     0     0     0     0     0     0     0
## X1213     0     0     0     0     1     0     0     0     0     0     0     0
## X1214     0     1     0     1     1     0     0     0     0     0     0     0
## X1302     0     1     0     1     1     0     0     0     0     0     0     0
## X1507     0     1     0     0     0     0     1     0     0     1     0     1
## X1514     0     1     0     0     0     0     1     0     0     1     0     1
## X1517     0     0     0     0     0     1     0     0     0     0     0     1
## X1601     0     1     0     0     0     0     1     0     0     1     0     1
## X1602     0     1     0     0     0     1     1     0     0     1     0     1
## X1704     0     1     0     0     1     1     0     0     0     0     0     1
## X1806     0     1     0     0     0     1     0     0     0     0     0     0
## X1901     0     1     0     0     0     0     1     0     0     0     0     1
## X1902     0     1     0     0     0     0     1     0     0     1     0     1
## X1905     1     1     1     0     1     1     0     1     1     0     1     0
## X2001     0     1     0     0     0     0     1     0     0     1     0     1
## X2002     0     1     0     0     0     0     1     0     0     1     0     1
## X2003     0     1     0     0     0     0     1     0     0     1     0     1
## X2004     0     1     0     0     0     0     1     0     0     1     0     1
## X2005     0     1     0     0     1     0     1     0     0     1     0     1
## X2006     0     0     0     0     0     1     0     0     0     0     0     1
## X2007     0     1     0     0     0     1     1     0     0     1     0     1
## X2008     0     1     0     0     0     0     0     0     0     0     0     0
## X2101     0     1     0     0     0     0     1     0     0     1     0     1
## X2102     0     0     0     0     0     1     0     0     0     0     0     1
## X2103     0     1     0     0     0     0     1     0     0     1     0     1
## X2104     0     0     0     0     0     0     0     0     0     0     0     0
## X2106     0     1     0     0     0     0     1     0     0     1     0     1
## X2202     0     1     0     0     1     0     1     0     0     1     0     1
## X2206     0     1     0     0     1     0     0     0     0     0     0     0
## X2208     0     0     0     0     1     1     0     0     0     0     0     1
## X2209     0     1     0     0     0     0     1     0     0     1     0     1
## X2302     0     0     0     0     0     0     0     0     0     0     0     0
## X2309     0     0     0     0     0     0     0     0     0     0     0     0
## X2402     0     0     0     0     0     1     0     0     0     0     0     1
## X2403     0     0     0     0     0     1     0     0     0     0     0     1
## X2507     0     1     0     0     1     0     0     0     0     0     0     0
## X2508     0     0     0     0     0     1     0     0     0     0     0     1
## X2512     0     0     0     0     1     0     0     0     0     0     0     0
## X2517     0     1     0     1     1     0     0     0     0     0     0     0
## X2519     0     0     0     0     0     0     0     0     0     0     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     1     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     0     0     0     1     1     0     0     0     0     0     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     0     0     1     0     0     0     0     0     1
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```
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     0     0
## X2713     1     0     1     1     1     1     0     1     1     1     1     0
## X2714     1     0     1     1     1     1     0     1     1     1     1     0
## X2716     0     0     0     0     1     1     0     0     0     0     0     1
## X2804     0     0     0     0     0     0     0     0     0     0     0     1
## X2811     0     0     0     0     0     0     0     0     0     0     0     1
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     0     0     0     0     0     0     0     0     0     0     0     0
## X2832     0     0     0     0     0     0     0     0     0     0     0     0
## X2833     0     0     0     0     0     0     0     0     0     0     0     0
## X2835     0     0     0     0     0     0     0     0     0     0     0     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     0     0     0     0     0     0     0     0     0     0     1
## X2903     1     0     1     1     1     1     0     1     1     1     1     0
## X2907     0     0     0     0     0     0     0     0     0     0     0     0
## X2915     0     0     0     0     0     0     0     0     0     0     0     0
## X2933     0     0     0     0     0     0     0     0     0     0     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     0     0     0     0     0     0     0     0     0     0
## X3204     0     0     0     0     0     1     0     0     0     0     0     1
## X3205     1     0     1     1     1     1     0     1     1     1     1     0
## X3206     1     0     1     1     1     1     0     1     1     1     1     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     1     0     1     1     1     1     0     1     1     1     1     0
## X3209     1     0     1     1     1     1     0     1     1     1     1     0
## X3210     0     0     0     0     0     0     0     0     0     0     0     0
## X3211     1     0     1     1     1     1     0     1     1     1     1     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     1     0     1     1     1     1     0     1     1     1     1     0
## X3215     1     0     1     1     1     1     0     1     1     1     1     0
## X3302     0     1     0     0     0     0     1     0     0     1     0     1
## X3303     0     0     0     0     0     1     0     0     0     0     0     1
## X3304     0     0     0     0     0     1     0     0     0     0     0     1
## X3305     0     0     0     0     0     1     0     0     0     0     0     1
## X3307     0     0     0     0     0     1     0     0     0     0     0     1
## X3402     0     1     0     0     0     0     1     0     0     1     0     1
## X3403     0     0     0     0     0     0     0     0     0     0     0     1
## X3506     1     1     1     1     0     1     1     1     1     1     1     1
## X3507     0     1     0     0     0     0     1     0     0     1     0     1
## X3605     0     0     0     0     0     0     0     0     0     0     0     0
## X3701     1     0     1     1     1     1     0     1     1     1     1     0
## X3707     1     0     1     1     1     1     0     1     1     1     1     0
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     0     0     0     0     0     1     0     0     0     0     0     1
## X3809     0     0     0     1     0     0     0     0     0     0     0     0
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     1     0     1     1     1     1     0     1     1     1     1     0
## X3815     0     0     0     0     0     0     0     0     0     0     0     0
## X3816     0     0     0     0     0     1     0     0     0     0     0     1
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     0     0
## X3902     0     0     0     0     0     0     0     0     0     0     0     0
## X3908     0     1     0     0     0     1     1     0     0     1     0     1
## X3909     0     0     0     0     0     0     0     0     0     0     0     0
## X3910     0     0     0     0     0     0     0     0     0     0     0     0
## X3911     0     0     0     0     0     0     0     0     0     0     0     0
## X3915     0     0     0     0     0     0     0     0     0     0     0     0
## X3916     1     0     1     1     1     1     0     1     1     1     1     0
## X3917     0     1     0     1     0     0     0     0     0     0     0     0
## X3919     1     0     1     1     1     1     0     1     1     1     1     0
## X3920     1     0     1     1     1     1     0     1     1     1     1     0
## X3921     1     0     1     1     1     1     0     1     1     1     1     0
## X3923     0     1     0     0     1     1     1     0     0     1     0     1
## X3924     0     0     0     0     0     1     0     0     0     0     0     0
## X3925     0     0     0     0     0     0     0     0     0     0     0     0
## X3926     0     0     0     0     0     0     0     0     0     0     0     0
## X4001     1     0     1     1     1     1     0     1     1     1     1     0
## X4005     0     0     0     0     0     0     0     0     0     0     0     0
## X4006     0     0     0     0     0     0     0     0     0     0     0     0
## X4008     0     0     0     0     0     1     0     0     0     0     0     1
## X4009     0     0     0     0     0     0     0     0     0     0     0     0
## X4010     0     1     0     1     1     0     1     0     0     1     0     1
## X4012     0     0     0     0     0     0     0     0     0     0     0     0
## X4013     0     0     0     0     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
```

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## X4016     0     0     0     0     0     0     0     0     0     0     0     0
## X4202     1     0     1     1     1     1     0     1     1     1     1     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     1     0     0     1     0     1     0     0     1     0     1
## X4415     0     1     0     0     0     0     1     0     0     1     0     1
## X4416     0     1     0     1     1     0     0     0     0     0     0     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     1     0     0     1     0     0     0     0     0     0     0
## X4421     0     1     0     0     1     1     0     0     0     0     0     1
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     0     0     0     0     0     0     0     0     0
## X4808     1     0     1     1     1     1     0     1     1     1     1     0
## X4818     1     0     1     1     1     1     0     1     1     1     1     0
## X4819     0     1     0     0     0     0     1     0     0     1     0     1
## X4821     1     1     1     1     1     1     1     1     1     1     1     1
## X4822     0     0     0     0     0     0     0     0     0     0     0     0
## X4823     0     0     0     0     0     0     0     0     0     0     0     0
## X4901     0     0     0     0     0     1     0     0     0     0     0     1
## X4902     0     0     0     0     0     1     0     0     0     0     0     1
## X4907     0     0     0     0     0     1     0     0     0     0     0     1
## X4911     0     1     0     0     0     1     1     0     0     1     0     1
## X5111     0     0     0     0     1     0     0     0     0     0     0     0
## X5112     0     0     0     0     1     0     0     0     0     0     0     0
## X5205     1     0     1     1     1     1     0     1     1     1     1     0
## X5206     1     0     1     1     1     1     0     1     1     1     1     0
## X5208     1     0     1     1     1     1     0     1     1     1     1     0
## X5209     1     1     1     1     1     1     1     1     1     1     1     1
## X5210     0     0     0     0     1     0     0     0     0     0     0     0
## X5211     1     0     1     1     1     1     0     1     1     1     1     0
## X5402     1     0     1     1     1     1     0     1     1     1     1     0
## X5407     1     0     1     1     0     1     0     1     1     1     1     0
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     1     0     0     1     0     0     0     0     0     0     0
## X5508     0     1     0     0     0     1     1     0     0     1     0     1
## X5509     1     1     1     1     1     1     0     1     1     1     1     0
## X5511     0     1     0     0     1     0     0     0     0     0     0     0
## X5512     0     1     0     0     1     0     1     0     0     1     0     1
## X5513     0     0     0     0     1     0     0     0     0     0     0     0
## X5514     1     0     1     1     1     1     0     1     1     1     1     0
## X5515     0     1     0     0     1     0     1     0     0     1     0     1
## X5516     0     0     0     0     1     0     0     0     0     0     0     0
## X5601     0     0     0     0     0     1     0     0     0     0     0     1
## X5603     0     1     0     0     1     0     1     0     0     1     0     1
## X5609     0     1     0     0     1     0     0     0     0     0     0     0
## X5806     1     1     1     1     1     1     1     1     1     1     1     1
## X5807     1     1     1     1     1     1     1     1     1     1     1     1
## X5903     0     0     0     0     0     0     0     0     0     0     0     0
## X5907     0     1     0     0     0     0     1     0     0     1     0     1
## X5911     1     1     1     1     1     1     0     1     1     1     1     0
## X6002     1     1     1     1     0     1     1     1     1     1     1     1
## X6101     0     1     0     0     0     0     1     0     0     1     0     1
## X6103     1     0     1     1     1     1     0     1     1     1     1     0
## X6104     1     0     1     1     1     1     0     1     1     1     1     1
## X6105     0     1     0     0     0     0     1     0     0     1     0     1
## X6106     1     0     1     1     1     1     0     1     1     1     1     1
## X6107     1     0     1     1     1     1     0     1     1     1     1     0
## X6109     0     0     1     1     1     1     0     1     1     1     1     0
## X6110     0     0     0     0     1     0     1     0     0     1     0     1
## X6111     1     0     0     1     1     1     0     1     1     1     1     0
## X6112     1     0     1     0     1     1     0     1     1     1     1     0
## X6114     1     1     1     1     0     1     0     1     1     1     1     0
## X6115     1     0     1     1     1     0     0     1     1     1     1     1
## X6117     0     1     0     0     0     0     0     0     0     1     0     1
## X6201     1     0     1     1     1     1     0     0     1     1     1     0
## X6202     1     0     1     1     1     1     0     1     0     1     1     0
## X6203     1     1     1     1     1     1     1     1     1     0     1     1
## X6204     1     0     1     1     1     1     0     1     1     1     0     0
## X6205     0     1     0     0     0     1     1     0     0     1     0     0
## X6206     1     1     1     1     1     1     0     1     1     1     1     1
## X6210     1     0     1     1     1     1     0     1     1     1     1     0
## X6211     1     1     1     1     1     1     1     1     1     1     1     1
## X6212     1     1     1     1     0     0     1     1     1     1     1     0
## X6217     1     0     1     1     1     1     0     1     1     1     1     0
## X6302     1     0     1     1     1     1     0     1     1     1     1     0
## X6303     1     0     1     1     1     1     0     1     1     1     1     0
## X6304     1     0     1     1     1     1     0     1     1     1     1     0
## X6305     1     0     1     1     1     1     0     1     1     1     1     0
## X6306     0     0     0     0     0     0     0     0     0     0     0     0
## X6307     1     0     1     1     1     1     0     1     1     1     1     0
```

```
## X6401     0     0     0     0     0     1     0     0     0     0     0     1
## X6403     0     0     0     0     0     1     0     0     0     0     0     1
## X6404     0     0     0     0     0     0     0     0     0     0     0     0
##       X6206 X6210 X6211 X6212 X6217 X6302 X6303 X6304 X6305 X6306 X6307 X6401
## X102      1     0     0     0     0     0     0     0     0     0     0     1
## X210      0     0     1     1     0     0     0     0     0     0     0     0
## X401      0     0     0     0     0     0     0     0     1     1     0     1
## X403      0     0     1     0     0     0     0     0     0     0     0     1
## X406      0     0     1     1     0     0     0     0     0     0     1     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     1     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     1     1     0     0     0     0     0     0     1     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     0     1     1     0     0     0     0     0     0     0     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0     0     1     1     0     0     0     0     0     0     0     0
## X804      0     0     0     1     0     0     0     0     0     0     0     0
## X805      0     0     1     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      1     0     0     0     0     0     0     0     0     0     0     1
## X813      1     0     0     0     0     0     0     0     0     0     0     0
## X901      0     0     1     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     0     0     0
## X1001     0     0     1     1     0     0     0     0     0     0     0     0
## X1003     1     0     0     0     0     0     0     0     0     1     1     1
## X1005     0     0     1     1     0     0     0     0     0     0     0     0
## X1102     0     0     0     1     0     0     0     0     1     1     0     0
## X1108     0     0     0     1     0     0     0     0     1     1     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     0     1     0     0     0     0     1     1     0     0
## X1213     0     0     1     1     0     0     0     0     0     0     0     0
## X1214     0     0     1     1     0     0     0     0     0     0     0     0
## X1302     0     0     1     1     0     0     0     0     0     0     0     0
## X1507     0     0     1     1     0     0     0     0     0     0     0     0
## X1514     0     0     1     1     0     0     0     0     0     0     0     0
## X1517     0     0     0     0     0     0     0     0     1     1     0     1
## X1601     0     0     1     1     0     0     0     0     0     0     0     0
## X1602     0     0     1     0     0     0     0     0     0     0     0     1
## X1704     1     0     0     0     0     0     0     0     0     0     0     1
## X1806     1     0     0     0     0     0     0     0     0     1     0     1
## X1901     1     0     0     1     0     0     0     0     0     1     0     1
## X1902     0     0     1     1     0     0     0     0     0     0     0     0
## X1905     1     1     0     1     1     1     1     1     1     1     1     1
## X2001     0     0     1     1     0     0     0     0     0     0     0     0
## X2002     0     0     1     1     0     0     0     0     0     0     0     0
## X2003     0     0     1     1     0     0     0     0     0     0     0     0
## X2004     0     0     1     1     0     0     0     0     0     0     0     0
## X2005     1     0     0     1     0     0     0     0     0     0     0     1
## X2006     1     0     0     0     0     0     0     0     0     0     0     1
## X2007     1     0     1     0     0     0     0     0     0     0     0     1
## X2008     1     0     0     1     0     0     0     0     0     1     0     1
## X2101     0     0     1     1     0     0     0     0     0     0     0     0
## X2102     1     0     0     0     0     0     0     0     0     0     0     1
## X2103     0     0     1     1     0     0     0     0     0     0     0     0
## X2104     0     0     0     0     0     0     0     0     0     0     0     0
## X2106     0     0     1     1     0     0     0     0     1     1     0     0
## X2202     0     0     1     1     0     0     0     0     1     1     0     0
## X2206     1     0     0     0     0     0     0     0     0     0     0     0
## X2208     1     0     0     0     0     0     0     0     0     0     0     1
## X2209     0     0     1     1     0     0     0     0     0     0     0     0
## X2302     0     0     0     0     0     0     0     0     0     0     0     0
## X2309     0     0     0     1     0     0     0     0     1     1     0     0
## X2402     1     0     0     0     0     0     0     0     0     0     0     1
## X2403     1     0     0     0     0     0     0     0     0     0     0     1
## X2507     1     0     0     0     0     0     0     0     0     0     0     0
## X2508     0     0     0     0     0     0     0     0     1     1     0     1
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     1     0     0     0     0     0     0     0     0     0     0     1
## X2519     0     0     0     1     0     0     0     0     1     1     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     0     1     0     0     0     0     0     0     0     0
## X2530     1     0     0     0     0     0     0     0     0     0     0     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     1     0     0     0     0     0     0     0     0     0     0     1
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     0     0
```

```
## X2713     1     1     1     1     1     1     1     1     1     0     1     0
## X2714     1     1     1     1     1     1     1     1     1     0     1     0
## X2716     0     0     0     0     0     0     0     0     0     0     0     1
## X2804     0     0     0     0     0     0     0     0     0     1     0     1
## X2811     0     0     0     0     0     0     0     0     0     1     0     1
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     0     0     0     1     0     0     0     0     1     1     0     0
## X2832     0     0     0     1     0     0     0     0     1     1     0     0
## X2833     0     0     0     1     0     0     0     0     1     1     0     0
## X2835     0     0     0     1     0     0     0     0     1     1     0     0
## X2836     0     0     1     1     0     0     0     0     0     0     0     0
## X2901     0     0     0     0     0     0     0     0     0     1     0     1
## X2903     1     1     1     1     1     1     1     1     1     0     1     0
## X2907     0     0     0     1     0     0     0     0     1     1     0     0
## X2915     0     0     0     1     0     0     0     0     1     1     0     0
## X2933     0     0     0     1     0     0     0     0     1     1     0     0
## X3105     0     0     0     1     0     0     0     0     0     0     0     0
## X3202     0     0     0     1     0     0     0     0     1     1     0     0
## X3204     0     0     0     0     0     0     0     0     1     1     0     1
## X3205     1     1     1     1     1     1     1     1     1     0     1     0
## X3206     1     1     1     1     1     1     1     1     1     1     1     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     1     1     1     1     1     1     1     1     1     0     1     0
## X3209     1     1     1     1     1     1     1     1     1     0     1     0
## X3210     0     0     0     1     0     0     0     0     1     1     0     0
## X3211     1     1     1     1     1     1     1     1     1     0     1     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     1     1     1     1     1     1     1     1     1     0     1     0
## X3215     1     1     1     1     1     1     1     1     1     0     1     0
## X3302     0     0     1     1     0     0     0     0     1     1     0     0
## X3303     1     0     0     0     0     0     0     0     0     0     0     1
## X3304     1     0     0     0     0     0     0     0     0     0     0     1
## X3305     1     0     0     0     0     0     0     0     0     0     0     1
## X3307     1     0     0     0     0     0     0     0     0     0     0     1
## X3402     0     0     0     0     0     0     0     0     0     1     0     1
## X3403     0     0     1     1     0     0     0     0     1     1     0     1
## X3506     1     1     1     0     1     1     1     1     0     0     1     1
## X3507     0     0     1     1     0     0     0     0     1     1     0     0
## X3605     0     0     0     0     0     0     0     0     0     0     0     0
## X3701     1     1     1     1     1     1     1     1     1     0     1     0
## X3707     1     1     1     1     1     1     1     1     1     0     1     0
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     1     0     0     0     0     0     0     0     0     0     0     1
## X3809     0     0     0     0     0     0     0     0     0     1     0     1
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     1     1     0     0     0     0     0     0     0     0
## X3814     1     1     1     1     1     1     1     1     1     1     1     0
## X3815     0     0     0     1     0     0     0     0     1     1     0     0
## X3816     1     0     0     0     0     0     0     0     0     0     0     1
## X3819     0     0     1     1     0     0     0     0     0     0     0     0
## X3820     0     0     1     1     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     0     0
## X3902     0     0     0     1     0     0     0     0     1     1     0     0
## X3908     1     0     1     0     0     0     0     0     0     0     0     1
## X3909     0     0     0     1     0     0     0     0     1     1     0     0
## X3910     0     0     0     1     0     0     0     0     1     1     0     0
## X3911     0     0     0     1     0     0     0     0     1     1     0     0
## X3915     0     0     0     1     0     0     0     0     1     1     0     0
## X3916     1     1     1     1     1     1     1     1     1     0     1     0
## X3917     1     0     0     0     0     0     0     0     0     1     0     1
## X3919     1     1     1     1     1     1     1     1     1     1     1     0
## X3920     0     1     1     1     1     1     1     1     1     1     1     0
## X3921     0     1     1     1     1     1     1     1     1     1     1     0
## X3923     1     0     1     1     0     0     0     0     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     0     1     0     0     0     0     1     1     0     0
## X3926     0     0     0     0     0     0     0     0     0     1     1     1
## X4001     1     1     1     1     1     1     1     1     1     0     1     0
## X4005     0     0     0     0     0     0     0     0     0     0     0     0
## X4006     0     0     0     0     0     0     0     0     0     0     0     0
## X4008     1     0     0     0     0     0     0     0     0     0     0     1
## X4009     0     0     0     0     0     0     0     0     0     0     0     0
## X4010     1     0     1     0     0     0     0     0     0     0     0     0
## X4012     0     0     0     0     0     0     0     0     0     0     0     0
## X4013     0     0     0     0     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     1     0
## X4016     0     0     0     0     0     0     0     0     0     0     1     0
## X4202     0     1     1     1     1     1     1     1     1     1     1     0
## X4203     0     0     0     0     0     0     0     0     0     0     1     0
```

```
## X4409     0     0     1     1     0     0     0     0     1     1     0     0
## X4415     0     0     1     1     0     0     0     0     1     1     0     0
## X4416     0     0     0     0     0     0     0     0     1     1     0     0
## X4418     0     0     0     1     0     0     0     0     0     0     0     0
## X4420     1     0     0     0     0     0     0     0     0     0     0     0
## X4421     1     0     0     0     0     0     0     0     0     0     0     1
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     1     0     0     0     0     1     1     0     0
## X4808     0     1     1     1     1     1     1     1     1     1     1     0
## X4818     1     1     1     1     1     1     1     1     1     0     1     0
## X4819     0     0     1     1     0     0     0     0     0     0     0     0
## X4821     1     1     1     1     1     1     1     1     1     0     1     0
## X4822     0     0     0     1     0     0     0     0     1     1     0     0
## X4823     0     0     0     1     0     0     0     0     1     1     0     0
## X4901     1     0     0     0     0     0     0     0     0     0     0     1
## X4902     1     0     0     0     0     0     0     0     0     0     0     1
## X4907     1     0     0     0     0     0     0     0     0     0     0     1
## X4911     1     0     1     0     0     0     0     0     0     0     0     1
## X5111     0     0     0     1     0     0     0     0     1     1     0     0
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     1     1     1     1     1     1     1     1     1     0     1     0
## X5206     1     1     1     1     1     1     1     1     1     0     1     0
## X5208     1     1     1     1     1     1     1     1     1     0     1     0
## X5209     1     1     1     1     1     1     1     1     1     0     1     0
## X5210     0     0     1     0     0     0     0     0     0     0     0     0
## X5211     1     1     1     1     1     1     1     1     1     0     1     0
## X5402     1     1     1     1     1     1     1     1     1     0     1     0
## X5407     1     1     0     0     1     1     1     1     1     1     1     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     1     0     0     0     0     0     0     0     0     0     0     0
## X5508     0     0     1     0     0     0     0     0     0     0     0     1
## X5509     1     1     1     1     1     1     1     1     1     0     1     0
## X5511     1     0     0     0     0     0     0     0     0     0     0     0
## X5512     1     0     1     1     0     0     0     0     0     0     0     0
## X5513     0     0     1     0     0     0     0     0     0     0     0     0
## X5514     1     1     1     1     1     1     1     1     1     0     1     0
## X5515     0     0     1     1     0     0     0     0     0     0     0     0
## X5516     0     0     1     0     0     0     0     0     0     0     0     0
## X5601     1     0     0     0     0     0     0     0     0     0     0     1
## X5603     0     0     1     1     0     0     0     0     1     1     0     0
## X5609     1     0     0     0     0     0     0     0     0     0     0     0
## X5806     1     1     1     1     1     1     1     1     1     0     1     0
## X5807     1     1     1     1     1     1     1     1     1     0     1     0
## X5903     0     0     0     1     0     0     0     0     1     1     0     0
## X5907     0     0     1     1     0     0     0     0     0     0     0     0
## X5911     1     1     1     0     1     1     1     1     1     0     1     0
## X6002     1     1     1     1     1     1     1     1     1     1     1     1
## X6101     0     0     1     1     0     0     0     0     0     0     0     0
## X6103     1     1     1     1     1     1     1     1     1     0     1     0
## X6104     1     1     1     0     1     1     1     1     1     0     1     1
## X6105     0     0     1     1     0     0     0     0     0     0     0     0
## X6106     1     1     1     0     1     1     1     1     1     0     1     1
## X6107     1     1     1     1     1     1     1     1     1     0     1     0
## X6109     1     1     1     1     1     1     1     1     1     0     1     0
## X6110     1     0     1     1     0     0     0     0     0     0     0     0
## X6111     1     1     1     1     1     1     1     1     1     0     1     0
## X6112     1     1     1     1     1     1     1     1     1     0     1     0
## X6114     1     1     1     0     1     1     1     1     1     0     1     0
## X6115     1     1     1     0     1     1     1     1     1     0     1     1
## X6117     0     0     1     1     0     0     0     0     0     0     0     0
## X6201     1     1     1     1     1     1     1     1     1     0     1     0
## X6202     1     1     1     1     1     1     1     1     1     0     1     0
## X6203     1     1     1     1     1     1     1     1     1     0     1     0
## X6204     1     1     1     1     1     1     1     1     1     0     1     0
## X6205     1     0     1     0     0     0     0     0     0     0     0     1
## X6206     0     1     1     0     1     1     1     1     1     0     1     1
## X6210     1     0     1     1     1     1     1     1     1     0     1     0
## X6211     1     1     0     1     1     1     1     1     1     0     1     0
## X6212     0     1     1     0     1     1     1     1     1     1     1     0
## X6217     1     1     1     1     0     1     1     1     1     0     1     0
## X6302     1     1     1     1     1     0     1     1     1     0     1     0
## X6303     1     1     1     1     1     1     0     1     1     0     1     0
## X6304     1     1     1     1     1     1     1     0     1     0     1     0
## X6305     1     1     1     1     1     1     1     1     0     1     1     0
## X6306     0     0     0     1     0     0     0     0     1     0     0     0
## X6307     1     1     1     1     1     1     1     1     1     0     0     0
## X6401     1     0     0     0     0     0     0     0     0     0     0     0
## X6403     1     0     1     1     0     0     0     0     0     0     0     1
## X6404     0     0     0     1     0     0     0     0     1     1     0     0
```

```
##       X6403 X6404 X6406 X6504 X6505 X6802 X6805 X6806 X6807 X6809 X6810 X6812
## X102      1     0     1     1     0     1     0     1     0     1     0     0
## X210      0     0     0     0     1     0     0     0     1     0     0     0
## X401      1     1     1     1     0     1     0     1     0     1     0     0
## X403      1     0     1     1     1     1     0     1     1     1     0     0
## X406      0     0     0     0     0     0     0     0     0     0     1     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     1     0     0     0     0     0     0     0     1     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      1     0     1     0     0     1     0     1     0     0     1     1
## X703      0     0     0     0     0     0     0     0     0     0     1     0
## X709      1     0     0     0     0     1     0     0     1     0     1     1
## X712      0     0     0     0     0     0     1     0     0     0     0     0
## X713      0     0     0     0     0     0     0     0     1     0     1     0
## X804      0     0     0     0     0     0     0     0     0     0     1     0
## X805      0     0     0     0     0     0     0     0     0     0     1     0
## X808      0     0     0     0     0     0     0     0     0     0     1     0
## X809      1     0     1     1     0     1     0     1     0     1     0     0
## X813      0     0     1     0     0     0     0     1     0     0     1     1
## X901      0     0     0     0     0     0     0     0     0     0     1     0
## X904      0     0     0     0     1     0     0     0     1     0     0     0
## X1001     1     0     0     0     0     1     0     0     0     1     1     0
## X1003     1     1     1     1     0     1     0     0     0     1     1     0
## X1005     0     0     0     0     0     0     0     0     0     0     1     0
## X1102     0     1     0     0     0     0     0     0     0     0     0     0
## X1108     0     1     0     0     0     0     0     0     0     0     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     1     0
## X1208     0     1     0     0     0     0     0     0     0     0     0     0
## X1213     0     0     0     0     0     1     0     1     0     1     1     1
## X1214     1     0     0     0     0     0     0     1     1     1     1     1
## X1302     1     0     0     0     0     0     0     1     1     0     1     1
## X1507     0     0     0     0     0     0     0     0     0     0     1     0
## X1514     0     0     0     0     0     0     0     0     0     0     1     0
## X1517     1     1     1     1     0     1     0     1     0     1     0     0
## X1601     0     0     0     0     1     0     0     0     1     0     0     0
## X1602     1     0     1     1     1     1     0     1     1     1     0     0
## X1704     1     0     1     1     1     1     0     1     1     1     1     1
## X1806     1     1     1     1     1     1     0     1     1     0     1     1
## X1901     0     1     1     1     0     0     0     1     0     0     1     1
## X1902     0     0     0     0     0     0     0     0     0     0     1     0
## X1905     0     1     1     1     0     0     0     1     0     0     1     1
## X2001     0     0     0     0     0     0     0     0     0     0     1     0
## X2002     0     0     0     0     0     0     0     0     0     0     1     0
## X2003     0     0     0     0     0     0     0     0     0     0     1     0
## X2004     0     0     0     0     0     0     0     0     0     0     1     0
## X2005     1     0     1     1     0     1     0     1     0     1     1     1
## X2006     1     0     1     1     0     1     0     1     0     1     0     0
## X2007     1     0     1     1     0     1     0     1     0     1     0     0
## X2008     1     1     1     1     1     0     0     1     1     0     1     1
## X2101     0     0     0     0     0     0     0     0     0     0     1     0
## X2102     1     0     1     1     1     1     0     1     1     1     0     0
## X2103     0     0     0     0     1     0     0     0     1     0     0     0
## X2104     0     0     0     0     1     0     0     0     1     0     0     0
## X2106     0     1     0     0     1     0     0     0     1     0     0     0
## X2202     0     1     0     0     0     0     0     0     0     0     0     0
## X2206     0     0     1     0     0     0     0     1     0     0     1     1
## X2208     1     0     1     1     0     1     0     1     0     1     0     0
## X2209     0     0     0     0     0     0     0     0     0     0     1     0
## X2302     0     0     0     0     1     0     0     0     1     0     0     0
## X2309     0     1     0     0     0     0     0     0     0     0     0     0
## X2402     1     0     1     1     0     1     0     1     0     1     0     0
## X2403     1     0     1     1     0     1     0     1     0     1     0     0
## X2507     0     0     1     0     0     0     0     1     0     0     1     1
## X2508     1     1     1     1     0     1     0     1     0     1     0     0
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     1     0     1     1     0     1     0     1     1     1     1     1
## X2519     0     1     0     0     0     0     0     0     0     0     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     1     0
## X2522     0     0     0     0     0     0     0     0     1     0     1     0
## X2525     0     0     0     0     0     1     0     0     0     0     1     0
## X2530     1     0     1     1     0     1     0     1     0     1     1     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     1     0     1     1     0     1     0     1     0     1     0     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     1     0     0     0     1     0     0     0
## X2713     0     0     0     0     0     0     0     0     0     0     0     0
## X2714     0     0     0     0     0     0     0     0     0     0     0     0
## X2716     1     0     1     1     0     1     0     1     0     1     1     0
```

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## X2804     1     1     1     1     1     1     0     1     1     1     0     0
## X2811     1     1     1     1     1     1     0     1     1     1     0     0
## X2825     0     0     0     0     0     0     1     0     0     0     0     0
## X2826     0     1     0     0     0     0     0     0     0     0     0     0
## X2832     0     1     0     0     0     0     0     0     0     0     0     0
## X2833     0     1     0     0     0     0     0     0     0     0     0     0
## X2835     0     1     0     0     0     0     0     0     0     0     0     0
## X2836     1     0     0     0     0     0     0     0     0     0     1     0
## X2901     1     1     1     1     1     1     0     1     1     1     0     0
## X2903     0     0     0     0     0     0     0     0     0     1     0     0
## X2907     0     1     0     0     0     0     0     0     0     0     0     0
## X2915     0     1     0     0     0     0     0     0     0     0     0     0
## X2933     0     1     0     0     0     0     0     0     0     0     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     1     0
## X3202     0     1     0     0     0     0     0     0     0     0     0     0
## X3204     1     1     1     1     0     1     0     1     0     1     0     0
## X3205     0     0     0     0     0     0     0     0     0     0     0     0
## X3206     0     1     0     0     0     0     0     0     0     0     0     0
## X3207     0     0     0     0     0     0     0     0     0     0     1     0
## X3208     0     0     0     0     0     0     1     0     0     0     0     0
## X3209     0     0     0     0     0     0     0     0     0     0     0     0
## X3210     0     1     0     0     0     0     0     0     0     0     0     0
## X3211     0     0     0     0     0     0     0     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     0     0     0     0     0     0     0     1     0     0
## X3215     0     0     0     0     0     0     0     0     0     0     0     0
## X3302     0     1     0     0     0     0     0     0     0     0     0     0
## X3303     1     0     1     1     0     1     0     1     0     1     0     0
## X3304     1     0     1     1     0     1     0     1     0     1     0     0
## X3305     1     0     1     1     0     1     0     1     0     1     1     0
## X3307     1     0     1     1     0     1     0     1     0     1     0     0
## X3402     1     1     0     1     0     1     0     0     0     1     1     0
## X3403     1     1     1     1     0     1     0     1     0     1     1     0
## X3506     1     0     0     1     1     1     0     0     1     1     0     0
## X3507     0     1     0     0     0     0     0     0     0     0     0     0
## X3605     0     0     0     0     1     0     0     0     1     0     0     0
## X3701     0     0     0     0     0     0     0     0     0     0     0     0
## X3707     0     0     0     0     0     0     0     0     0     0     0     0
## X3802     0     0     0     0     0     0     0     0     0     1     1     0
## X3808     1     0     1     1     0     1     0     1     0     1     0     0
## X3809     1     1     1     1     0     1     0     1     1     1     1     0
## X3810     0     0     0     0     0     0     1     0     0     0     0     0
## X3811     1     0     0     0     0     0     0     0     0     0     1     0
## X3814     0     1     0     0     0     0     0     0     0     0     0     0
## X3815     0     1     0     0     0     0     0     0     0     0     0     0
## X3816     1     0     1     1     0     1     0     1     0     1     0     0
## X3819     1     0     0     0     0     0     0     0     0     0     1     0
## X3820     1     0     0     0     0     0     0     0     0     0     1     0
## X3823     0     0     0     0     1     0     0     0     1     0     0     0
## X3902     0     1     0     0     0     0     0     0     0     0     0     0
## X3908     1     0     1     1     0     1     0     1     0     1     0     0
## X3909     0     1     0     0     0     0     0     0     0     0     0     0
## X3910     0     1     0     0     0     0     0     0     0     0     0     0
## X3911     0     1     0     0     0     0     0     0     0     0     0     0
## X3915     0     1     0     0     0     0     0     0     0     0     0     0
## X3916     0     0     0     0     0     0     0     0     0     0     0     0
## X3917     1     1     1     1     0     1     0     1     1     1     1     1
## X3919     0     1     0     0     0     0     0     0     0     0     0     0
## X3920     0     1     0     0     1     0     0     0     1     0     0     0
## X3921     1     1     0     0     0     0     0     0     0     0     0     0
## X3923     0     0     1     0     0     0     0     1     0     0     1     1
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     1     0     0     0     0     0     0     0     0     0     0
## X3926     1     1     1     1     0     1     0     0     0     1     1     0
## X4001     0     0     0     0     0     0     0     0     0     0     0     0
## X4005     0     0     0     0     1     0     0     0     1     0     0     0
## X4006     0     0     0     0     1     0     0     0     1     0     0     0
## X4008     1     0     1     1     0     1     0     1     0     1     0     0
## X4009     0     0     0     0     1     0     0     0     1     0     0     0
## X4010     0     0     1     0     0     0     0     1     1     0     1     1
## X4012     0     0     0     0     1     0     0     0     1     0     0     0
## X4013     0     0     0     0     1     0     0     0     1     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     1     0
## X4016     0     0     0     0     1     0     0     0     1     0     1     0
## X4202     0     1     0     0     0     0     0     0     0     0     0     0
## X4203     0     0     0     0     0     0     0     0     0     0     1     0
## X4409     0     1     1     0     0     0     0     1     0     0     1     1
## X4415     0     1     0     0     1     0     0     0     1     0     0     0
## X4416     0     1     1     0     0     0     0     1     1     0     1     1
```

```
## X4418     0     0     0     0     0     1     0     0     0     0     1     0
## X4420     0     0     1     0     0     0     0     1     0     0     1     1
## X4421     1     0     1     1     0     1     0     1     0     1     1     1
## X4602     0     0     0     0     0     0     0     0     0     0     1     0
## X4804     0     1     0     0     0     0     0     0     0     0     0     0
## X4808     0     1     0     0     0     0     0     0     0     1     0     0
## X4818     0     0     0     0     0     0     0     0     0     0     0     0
## X4819     0     0     0     0     0     0     0     0     0     0     1     0
## X4821     0     0     0     0     0     0     0     0     0     0     0     0
## X4822     0     1     0     0     0     0     0     0     0     0     0     0
## X4823     0     1     0     0     0     0     0     0     0     1     1     0
## X4901     1     0     1     1     0     1     0     1     0     1     0     0
## X4902     1     0     1     1     0     1     0     1     0     1     0     0
## X4907     1     0     1     1     0     1     0     1     0     1     0     0
## X4911     1     0     1     1     0     1     0     1     0     1     0     0
## X5111     0     1     0     0     0     0     0     0     0     0     0     0
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     0     0     0     0     0     0     0     0     0     0     0     0
## X5206     0     0     0     0     0     0     0     0     0     0     0     0
## X5208     0     0     0     0     0     0     0     0     0     0     0     0
## X5209     0     0     0     0     0     0     0     0     0     0     0     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     0     0     0     0     0     0     0     0     0     0     0
## X5402     0     0     0     0     0     0     0     0     0     1     0     0
## X5407     1     1     0     1     0     1     0     0     0     1     0     0
## X5408     0     0     0     0     0     0     0     1     0     0     0     1
## X5505     0     0     1     0     0     0     0     1     0     0     1     1
## X5508     1     0     1     1     0     1     0     1     0     1     1     0
## X5509     0     0     1     0     0     0     0     1     0     0     0     1
## X5511     0     0     1     0     0     0     0     1     0     0     1     1
## X5512     0     0     1     0     0     0     0     1     0     0     1     1
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     0     0     0     0     0     0     0     0     0     0     0
## X5515     0     0     0     0     0     0     0     0     0     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     1     0     1     1     0     1     0     1     0     1     0     0
## X5603     0     1     0     0     0     0     0     0     0     0     0     0
## X5609     0     0     1     0     0     0     0     1     0     0     1     1
## X5806     0     0     0     0     0     0     0     0     0     0     0     0
## X5807     0     0     0     0     0     0     0     0     0     0     0     0
## X5903     0     1     0     0     0     0     0     0     0     0     0     0
## X5907     0     0     0     0     0     0     0     0     0     0     1     0
## X5911     0     0     1     0     0     0     0     1     0     0     0     1
## X6002     0     1     0     1     0     0     0     0     0     0     0     0
## X6101     0     0     0     0     0     0     0     0     0     0     1     0
## X6103     0     0     0     0     0     0     0     0     0     0     0     0
## X6104     1     0     1     1     0     1     0     1     0     1     0     0
## X6105     0     0     0     0     0     0     0     0     0     0     1     0
## X6106     1     0     1     1     0     1     0     1     0     1     0     0
## X6107     0     0     0     0     0     0     0     0     0     0     0     0
## X6109     0     0     0     0     0     0     0     0     0     0     0     0
## X6110     0     0     1     0     0     0     0     1     0     0     1     1
## X6111     0     0     0     0     0     0     0     0     0     0     0     0
## X6112     0     0     0     0     0     0     0     0     1     0     0     0
## X6114     0     0     1     0     0     0     0     1     0     0     0     1
## X6115     1     0     1     1     0     1     0     1     0     1     0     0
## X6117     0     0     0     0     0     0     0     0     0     0     1     0
## X6201     0     0     0     0     0     0     0     0     0     0     0     0
## X6202     0     0     0     0     0     0     0     0     0     0     0     0
## X6203     0     0     0     0     0     0     0     0     0     0     0     0
## X6204     0     0     0     0     0     0     0     0     0     0     0     0
## X6205     1     0     1     1     0     1     0     1     0     1     0     0
## X6206     1     0     1     1     0     1     0     1     0     1     0     1
## X6210     0     0     0     0     0     0     0     0     0     0     0     0
## X6211     1     0     0     0     0     0     0     0     0     0     1     0
## X6212     1     1     0     0     0     1     0     0     0     0     1     0
## X6217     0     0     0     0     0     0     0     0     0     0     0     0
## X6302     0     0     0     0     0     0     0     0     0     0     0     0
## X6303     0     0     0     0     0     0     0     0     0     0     0     0
## X6304     0     0     0     0     0     0     0     0     0     0     0     0
## X6305     0     1     0     0     0     0     0     0     0     0     0     0
## X6306     0     1     0     0     0     0     0     0     0     0     0     0
## X6307     0     0     0     0     0     0     0     0     0     0     0     0
## X6401     1     0     1     1     0     1     0     1     0     1     0     0
## X6403     0     0     1     1     0     1     0     1     0     1     1     0
## X6404     0     0     0     0     0     0     0     0     0     0     0     0
##       X6813 X6815 X6902 X6903 X6905 X6910 X6911 X6912 X6913 X7006 X7007 X7010
## X102      0     1     1     1     1     0     0     0     1     0     0     1
## X210      0     0     0     0     0     1     1     1     0     0     0     0
```

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## X401      1     1     1     1     1     0     0     0     1     0     0     1
## X403      0     1     1     1     1     1     1     1     1     0     0     1
## X406      0     0     0     0     0     1     1     1     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     1     0     0     0     1     1     1     0     0     0     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     1     0     0     0     0     0     0     0     0     0     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0     0     0     0     0     0     0     0     0     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     1     1     1     1     0     0     0     1     0     0     1
## X813      0     1     0     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     1     0     0     0     0
## X1001     0     1     0     0     0     0     0     0     0     0     0     0
## X1003     1     0     1     1     1     0     0     0     1     0     0     1
## X1005     0     0     0     0     0     0     0     0     0     0     0     0
## X1102     1     0     0     0     0     0     0     0     0     0     0     0
## X1108     1     0     0     0     0     0     0     0     0     0     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     1     0     0     0     0     0     0     0     0     0     0     0
## X1213     0     1     0     0     0     0     0     0     0     0     0     0
## X1214     0     1     0     0     0     0     0     0     0     0     0     0
## X1302     0     1     0     0     0     0     0     0     0     0     0     0
## X1507     0     0     0     0     0     1     1     1     0     0     0     0
## X1514     0     0     0     0     0     1     1     1     0     0     0     0
## X1517     1     1     1     1     1     0     0     0     1     0     0     1
## X1601     0     0     0     0     0     1     1     1     0     0     0     0
## X1602     0     1     1     1     1     1     1     1     1     0     0     1
## X1704     0     1     1     1     1     0     0     1     1     0     0     1
## X1806     1     1     1     1     1     0     0     1     1     0     0     1
## X1901     1     1     1     1     1     1     1     1     1     0     0     1
## X1902     0     0     0     0     0     1     1     1     0     0     0     0
## X1905     1     1     1     1     1     0     0     0     1     1     1     1
## X2001     0     0     0     0     0     1     1     1     0     0     0     0
## X2002     0     0     0     0     0     1     1     1     0     0     0     0
## X2003     0     0     0     0     0     1     1     1     0     0     0     0
## X2004     0     0     0     0     0     1     1     1     0     0     0     0
## X2005     0     1     1     1     1     1     1     1     1     0     0     1
## X2006     0     1     1     1     1     0     0     0     1     0     0     1
## X2007     0     1     1     1     1     1     1     1     1     0     0     1
## X2008     1     1     1     1     1     0     0     1     1     0     0     1
## X2101     0     0     0     0     0     1     1     1     0     0     0     0
## X2102     0     1     1     1     1     0     0     1     1     0     0     1
## X2103     0     0     0     0     0     1     1     1     0     0     0     0
## X2104     0     0     0     0     0     0     0     1     0     0     0     0
## X2106     1     0     0     0     0     1     1     1     0     0     0     0
## X2202     1     0     0     0     0     1     1     1     0     0     0     0
## X2206     0     1     0     0     0     0     0     0     0     0     0     0
## X2208     0     1     1     1     1     0     0     0     1     0     0     1
## X2209     0     0     0     0     0     1     1     1     0     0     0     0
## X2302     0     0     0     0     0     0     0     1     0     0     0     0
## X2309     1     0     0     0     0     0     0     0     0     0     0     0
## X2402     0     1     1     1     1     0     0     0     1     0     0     1
## X2403     0     1     1     1     1     0     0     0     1     0     0     1
## X2507     0     1     0     0     0     0     0     0     0     0     0     0
## X2508     1     1     1     1     1     0     0     0     1     0     0     1
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     0     1     1     1     1     0     0     0     1     0     0     1
## X2519     1     0     0     0     0     0     0     0     0     0     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     1     0     0     0     0     0     0     0     0     0     0
## X2530     0     1     1     1     1     0     0     0     1     0     0     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     1     1     1     1     0     0     0     1     0     0     1
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     1     0     0     0     0
## X2713     0     0     0     0     0     0     0     0     0     1     1     0
## X2714     0     0     0     0     0     0     0     0     0     1     1     0
## X2716     0     1     1     1     1     0     0     0     1     0     0     1
## X2804     1     1     1     1     1     0     0     1     1     0     0     1
## X2811     1     1     1     1     1     0     0     1     1     0     0     1
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
```

```
## X2826     1     0     0     0     0     0     0     0     0     0     0     0
## X2832     1     0     0     0     0     0     0     0     0     0     0     0
## X2833     1     0     0     0     0     0     0     0     0     0     0     0
## X2835     1     0     0     0     0     0     0     0     0     0     0     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     1     1     1     1     1     0     0     1     1     0     0     1
## X2903     0     0     0     0     0     0     0     0     0     1     1     0
## X2907     1     0     0     0     0     0     0     0     0     0     0     0
## X2915     1     0     0     0     0     0     0     0     0     0     0     0
## X2933     1     0     0     0     0     0     0     0     0     0     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     1     0     0     0     0     0     0     0     0     0     0     0
## X3204     1     1     1     1     1     0     0     0     1     0     0     1
## X3205     0     0     0     0     0     0     0     0     0     1     1     0
## X3206     1     0     0     0     0     0     0     0     0     1     1     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     0     0     0     0     0     0     0     0     1     1     0
## X3209     0     0     0     0     0     0     0     0     0     1     1     0
## X3210     1     0     0     0     0     0     0     0     0     0     0     0
## X3211     0     0     0     0     0     0     0     0     0     1     1     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     0     0     0     0     0     0     0     1     1     0
## X3215     0     0     0     0     0     0     0     0     0     1     1     0
## X3302     1     0     0     0     0     1     1     1     0     0     0     0
## X3303     0     1     1     1     1     0     0     0     1     0     0     1
## X3304     0     1     1     1     1     0     0     0     1     0     0     1
## X3305     0     1     1     1     1     0     0     0     1     0     0     1
## X3307     0     1     1     1     1     0     0     0     1     0     0     1
## X3402     1     0     1     1     1     1     1     1     1     0     0     1
## X3403     1     1     1     1     1     0     0     0     1     0     0     1
## X3506     0     0     1     1     1     1     1     1     1     1     1     1
## X3507     1     0     0     0     0     1     1     1     0     0     0     0
## X3605     0     0     0     0     0     0     0     1     0     0     0     0
## X3701     0     0     0     0     0     0     0     0     0     1     1     0
## X3707     0     0     0     0     0     0     0     0     0     1     1     0
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     0     1     1     1     1     0     0     0     1     0     0     1
## X3809     1     0     1     1     1     0     0     0     1     0     0     1
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     1     0     0     0     0     0     0     0     0     1     1     0
## X3815     1     0     0     0     0     0     0     0     0     0     0     0
## X3816     0     1     1     1     1     0     0     0     1     0     0     1
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     1     0     0     0     0
## X3902     1     0     0     0     0     0     0     0     0     0     0     0
## X3908     0     1     1     1     1     1     1     1     1     0     0     1
## X3909     1     0     0     0     0     0     0     0     0     0     0     0
## X3910     1     0     0     0     0     0     0     0     0     0     0     0
## X3911     1     0     0     0     0     0     0     0     0     0     0     0
## X3915     1     0     0     0     0     0     0     0     0     0     0     0
## X3916     0     0     0     0     0     0     0     0     0     1     1     0
## X3917     1     1     1     1     1     0     0     0     1     0     0     1
## X3919     1     0     0     0     0     0     0     0     0     1     1     0
## X3920     1     0     0     0     0     0     0     1     0     1     1     0
## X3921     1     0     0     0     0     0     0     0     0     1     1     0
## X3923     0     1     0     0     0     1     1     1     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     1     0     0     0     0     0     0     0     0     0     0     0
## X3926     1     0     1     1     1     0     0     0     1     0     0     1
## X4001     0     0     0     0     0     0     0     0     0     1     1     0
## X4005     0     0     0     0     0     0     0     1     0     0     0     0
## X4006     0     0     0     0     0     0     0     1     0     0     0     0
## X4008     0     1     1     1     1     0     0     0     1     0     0     1
## X4009     0     0     0     0     0     0     0     1     0     0     0     0
## X4010     0     1     0     0     0     1     1     1     0     0     0     0
## X4012     0     0     0     0     0     0     0     1     0     0     0     0
## X4013     0     0     0     0     0     0     0     1     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     1     0     0     0     0
## X4202     1     0     0     0     0     0     0     0     0     1     1     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     1     1     0     0     0     1     1     1     0     0     0     0
## X4415     1     0     0     0     0     1     1     1     0     0     0     0
## X4416     1     1     0     0     0     0     0     0     0     0     0     0
## X4418     0     1     0     0     0     0     0     0     0     0     0     0
## X4420     0     1     0     0     0     0     0     0     0     0     0     0
## X4421     0     1     1     1     1     0     0     0     1     0     0     1
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```
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     1     0     0     0     0     0     0     0     0     0     0     0
## X4808     1     0     0     0     0     0     0     0     0     1     1     0
## X4818     0     0     0     0     0     0     0     0     0     1     1     0
## X4819     0     0     0     0     0     1     1     1     0     0     0     0
## X4821     0     0     0     0     0     1     1     1     0     1     1     0
## X4822     1     0     0     0     0     0     0     0     0     0     0     0
## X4823     1     0     0     0     0     0     0     0     0     0     0     0
## X4901     0     1     1     1     1     0     0     0     1     0     0     1
## X4902     0     1     1     1     1     0     0     0     1     0     0     1
## X4907     0     1     1     1     1     0     0     0     1     0     0     1
## X4911     0     1     1     1     1     1     1     1     1     0     0     1
## X5111     1     0     0     0     0     0     0     0     0     0     0     0
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     0     0     0     0     0     0     0     0     0     1     1     0
## X5206     0     0     0     0     0     0     0     0     0     1     1     0
## X5208     0     0     0     0     0     0     0     0     0     1     1     0
## X5209     0     0     0     0     0     1     1     1     0     1     1     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     0     0     0     0     0     0     0     0     1     1     0
## X5402     0     0     0     0     0     0     0     0     0     1     1     0
## X5407     1     0     1     1     1     0     0     0     1     1     1     1
## X5408     0     1     0     0     0     0     0     0     0     0     0     0
## X5505     0     1     0     0     0     0     0     0     0     0     0     0
## X5508     0     1     1     1     1     1     1     1     1     0     0     1
## X5509     0     1     0     0     0     0     0     0     0     1     1     0
## X5511     0     1     0     0     0     0     0     0     0     0     0     0
## X5512     0     1     0     0     0     1     1     1     0     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     0     0     0     0     0     0     0     0     1     1     0
## X5515     0     0     0     0     0     1     1     1     0     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     1     1     1     1     0     0     0     1     0     0     1
## X5603     1     0     0     0     0     1     1     1     0     0     0     0
## X5609     0     1     0     0     0     0     0     0     0     0     0     0
## X5806     0     0     0     0     0     1     1     1     0     1     1     0
## X5807     0     0     0     0     0     1     1     1     0     1     1     0
## X5903     1     0     0     0     0     0     0     0     0     0     0     0
## X5907     0     0     0     0     0     1     1     1     0     0     0     0
## X5911     0     1     0     0     0     0     0     0     0     1     1     0
## X6002     1     0     1     1     1     1     1     1     1     1     1     1
## X6101     0     0     0     0     0     1     1     1     0     0     0     0
## X6103     0     0     0     0     0     0     0     0     0     1     1     0
## X6104     0     1     1     1     1     0     0     0     1     1     1     1
## X6105     0     0     0     0     0     1     1     1     0     0     0     0
## X6106     0     1     1     1     1     0     0     0     1     1     1     1
## X6107     0     0     0     0     0     0     0     0     0     1     1     0
## X6109     0     0     0     0     0     0     0     0     0     1     1     0
## X6110     0     1     0     0     0     1     1     1     0     0     0     0
## X6111     0     0     0     0     0     0     0     0     0     1     1     0
## X6112     0     0     0     0     0     0     0     0     0     1     1     0
## X6114     0     1     0     0     0     0     0     0     0     1     1     0
## X6115     0     1     1     1     1     0     0     0     1     1     1     1
## X6117     0     0     0     0     0     1     1     1     0     0     0     0
## X6201     0     0     0     0     0     0     0     0     0     1     1     0
## X6202     0     0     0     0     0     0     0     0     0     1     1     0
## X6203     0     0     0     0     0     1     1     1     0     1     1     0
## X6204     0     0     0     0     0     0     0     0     0     1     1     0
## X6205     0     1     1     1     1     1     1     1     1     0     0     1
## X6206     0     1     1     1     1     0     0     0     1     1     1     1
## X6210     0     0     0     0     0     0     0     0     0     1     1     0
## X6211     0     0     0     0     0     1     1     1     0     1     1     0
## X6212     1     0     0     0     0     1     1     1     0     1     1     0
## X6217     0     0     0     0     0     0     0     0     0     1     1     0
## X6302     0     0     0     0     0     0     0     0     0     1     1     0
## X6303     0     0     0     0     0     0     0     0     0     1     1     0
## X6304     0     0     0     0     0     0     0     0     0     1     1     0
## X6305     1     0     0     0     0     0     0     0     0     1     1     0
## X6306     1     0     0     0     0     0     0     0     0     0     0     0
## X6307     0     0     0     0     0     0     0     0     0     1     1     0
## X6401     0     1     1     1     1     0     0     0     1     0     0     1
## X6403     0     1     1     1     1     0     0     0     1     0     0     1
## X6404     1     0     0     0     0     0     0     0     0     0     0     0
##       X7013 X7018 X7019 X7103 X7106 X7112 X7113 X7117 X7118 X7202 X7204 X7205
## X102      0     0     0     0     1     1     1     0     1     0     0     0
## X210      1     0     0     0     0     0     0     0     0     0     0     0
## X401      0     0     1     0     1     1     1     0     1     0     0     0
## X403      1     0     0     0     1     1     1     0     1     0     0     0
## X406      1     0     0     0     0     0     0     0     0     0     0     0
```

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## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     1     1
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      1     1     1     1     0     0     0     1     0     0     1     1
## X703      0     0     0     1     0     0     0     0     0     0     0     0
## X709      0     0     0     0     0     0     0     0     0     0     0     0
## X712      0     0     1     0     0     0     0     0     0     1     0     0
## X713      1     1     0     0     0     0     0     1     0     0     1     1
## X804      0     0     0     1     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     0     1     1     1     0     1     0     0     0
## X813      0     0     1     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     0     0     0
## X1001     1     1     0     0     0     0     0     1     0     0     0     0
## X1003     0     1     0     0     1     1     1     1     1     0     1     1
## X1005     0     1     0     0     0     0     0     1     0     0     0     0
## X1102     0     0     1     0     0     0     0     0     0     0     0     0
## X1108     0     0     1     0     0     0     0     0     0     0     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     1     0     0     0     0     0     0     0     0     0
## X1213     0     0     1     0     0     0     0     0     0     0     0     0
## X1214     0     0     1     0     0     0     0     0     0     0     0     0
## X1302     0     0     1     0     0     0     0     0     0     0     1     1
## X1507     1     0     0     0     0     0     0     0     0     0     0     0
## X1514     1     0     0     0     0     0     0     0     0     0     0     0
## X1517     0     0     1     0     1     1     1     0     1     0     0     0
## X1601     1     0     0     0     0     0     0     0     0     0     0     0
## X1602     1     0     0     0     1     1     1     0     1     0     0     0
## X1704     0     1     0     0     1     1     1     1     1     0     0     0
## X1806     0     1     1     0     1     1     1     1     1     0     0     0
## X1901     1     1     1     0     1     1     1     1     1     0     0     0
## X1902     1     0     0     0     0     0     0     0     0     0     0     0
## X1905     0     1     1     0     1     1     1     1     1     0     0     0
## X2001     1     0     0     0     0     0     0     0     0     0     0     0
## X2002     1     0     0     0     0     0     0     0     0     0     0     0
## X2003     1     0     0     0     0     0     0     0     0     0     0     0
## X2004     1     0     0     0     0     0     0     0     0     0     0     0
## X2005     1     1     0     0     1     1     1     1     1     0     0     0
## X2006     0     0     0     0     1     1     1     0     1     0     0     0
## X2007     1     0     0     0     1     1     1     0     1     0     0     0
## X2008     0     1     1     0     1     1     1     1     1     0     0     0
## X2101     1     0     0     0     0     0     0     0     0     0     0     0
## X2102     0     0     0     0     1     1     1     0     1     0     0     0
## X2103     1     0     0     0     0     0     0     0     0     0     0     0
## X2104     0     0     0     0     0     0     0     0     0     0     0     0
## X2106     1     0     1     0     0     0     0     0     0     0     0     0
## X2202     1     0     1     0     0     0     0     0     0     0     0     0
## X2206     0     0     1     0     0     0     0     0     0     0     0     0
## X2208     0     0     1     0     1     1     1     0     1     0     0     0
## X2209     1     0     0     0     0     0     0     0     0     0     0     0
## X2302     0     0     0     0     0     0     0     0     0     0     0     0
## X2309     0     0     1     0     0     0     0     0     0     0     0     0
## X2402     0     0     0     0     1     1     1     0     1     0     0     0
## X2403     0     0     0     0     1     1     1     0     1     0     0     0
## X2507     0     0     1     0     0     0     0     0     0     0     0     0
## X2508     0     0     1     0     1     1     1     0     1     0     0     0
## X2512     0     0     1     0     0     0     0     0     0     0     0     0
## X2517     0     0     0     1     1     1     1     1     1     0     1     1
## X2519     0     0     1     0     0     0     0     0     0     0     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     0     0     0     1     1     1     0     1     0     0     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     0     1     1     1     0     1     0     0     0
## X2607     0     0     0     1     0     0     0     0     0     0     0     0
## X2608     0     0     0     1     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     0     0
## X2713     0     1     0     0     0     0     0     0     0     0     0     0
## X2714     0     1     0     0     0     0     0     0     0     0     0     0
## X2716     0     0     0     0     1     1     1     0     1     0     0     0
## X2804     0     0     0     0     1     1     1     0     1     0     0     0
## X2811     0     0     0     0     1     1     1     0     1     0     0     0
## X2825     0     0     1     0     0     0     0     0     0     1     0     0
## X2826     0     0     1     0     0     0     0     0     0     0     0     0
## X2832     0     0     1     0     0     0     0     0     0     0     0     0
## X2833     0     0     1     0     0     0     0     0     0     0     0     0
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## X2835     0     0     1     0     0     0     0     0     0     0     0     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     0     0     0     1     1     1     0     1     0     0     0
## X2903     0     1     0     0     0     0     0     0     0     0     0     0
## X2907     0     0     1     0     0     0     0     0     0     0     0     0
## X2915     0     0     1     0     0     0     0     0     0     0     0     0
## X2933     0     0     1     0     0     0     0     0     0     0     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     1     0     0     0     0     0     0     0     0     0
## X3204     0     0     1     0     1     1     1     1     1     0     0     0
## X3205     0     1     0     0     0     0     0     0     0     0     0     0
## X3206     0     1     1     0     0     0     0     0     0     0     0     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     1     1     0     0     0     0     0     0     1     0     0
## X3209     0     1     0     0     0     0     0     0     0     0     0     0
## X3210     0     0     1     0     0     0     0     0     0     0     0     0
## X3211     0     1     0     0     0     0     0     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     1     0     0     0     0
## X3214     0     1     0     0     0     0     0     0     0     0     0     0
## X3215     0     1     0     0     0     0     0     0     0     0     0     0
## X3302     1     0     1     0     0     0     0     0     0     0     0     0
## X3303     0     0     0     0     1     1     1     0     1     0     0     0
## X3304     0     0     0     0     1     1     1     0     1     0     0     0
## X3305     0     0     0     0     1     1     1     0     1     0     0     0
## X3307     0     0     0     0     1     1     1     0     1     0     0     0
## X3402     1     0     0     0     1     1     1     0     1     0     0     0
## X3403     0     0     0     0     1     1     1     0     1     0     0     0
## X3506     1     1     0     0     1     1     1     0     1     0     0     0
## X3507     1     0     1     0     0     0     0     0     0     0     0     0
## X3605     0     0     0     0     0     0     0     0     0     0     0     0
## X3701     0     1     0     0     0     0     0     0     0     0     0     0
## X3707     0     1     0     0     0     0     0     0     0     0     0     0
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     0     0     0     0     1     1     1     0     1     0     0     0
## X3809     0     0     0     0     1     1     1     0     1     0     0     0
## X3810     0     0     1     0     0     0     0     0     0     1     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     1     1     0     0     0     0     0     0     0     0     0
## X3815     0     0     1     0     0     0     0     0     0     0     0     0
## X3816     0     0     0     0     1     1     1     0     1     0     0     0
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     0     0
## X3902     0     0     1     0     0     0     0     0     0     0     0     0
## X3908     1     0     0     0     1     1     1     0     1     0     0     0
## X3909     0     0     1     0     0     0     0     0     0     0     0     0
## X3910     0     0     1     0     0     0     0     0     0     0     0     0
## X3911     0     0     1     0     0     0     0     0     0     0     0     0
## X3915     0     0     1     0     0     0     0     0     0     0     0     0
## X3916     0     1     0     0     0     0     0     0     0     0     0     0
## X3917     0     0     1     0     1     1     1     0     1     0     0     0
## X3919     0     1     1     0     0     0     0     0     0     0     0     0
## X3920     0     1     0     0     0     0     0     0     0     0     0     0
## X3921     0     1     1     0     0     0     0     0     0     0     0     0
## X3923     1     1     1     0     0     0     0     1     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     1     0     0     0     0     0     0     0     0     0
## X3926     0     1     0     0     1     1     1     1     1     0     1     1
## X4001     0     1     0     0     0     0     0     0     0     0     0     0
## X4005     0     0     0     0     0     0     0     0     0     0     0     0
## X4006     0     0     0     0     0     0     0     0     0     0     0     0
## X4008     0     0     0     0     1     1     1     0     1     0     0     0
## X4009     0     0     0     0     0     0     0     0     0     0     0     0
## X4010     1     0     1     0     0     0     0     0     0     0     0     0
## X4012     0     0     0     0     0     0     0     0     0     0     0     0
## X4013     0     0     0     0     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     0     0     0     0     0
## X4202     0     1     1     0     0     0     0     0     0     0     0     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     1     0     1     0     0     0     0     0     0     0     0     0
## X4415     1     0     1     0     0     0     0     0     0     0     0     0
## X4416     0     0     1     0     0     0     0     0     0     0     0     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     1     0     0     0     0     0     0     0     0     0
## X4421     0     0     1     0     1     1     1     0     1     0     0     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     1     0     0     0     0     0     0     0     0     0
## X4808     0     1     1     0     0     0     0     0     0     0     0     0
```

```
## X4818     0     1     0     0     0     0     0     0     0     0     0     0
## X4819     1     0     0     0     0     0     0     0     0     0     0     0
## X4821     1     1     0     0     0     0     0     0     0     0     0     0
## X4822     0     0     1     0     0     0     0     0     0     0     0     0
## X4823     0     0     1     0     0     0     0     0     0     0     0     0
## X4901     0     0     0     0     1     1     1     0     1     0     0     0
## X4902     0     0     0     0     1     1     1     0     1     0     0     0
## X4907     0     0     0     0     1     1     1     0     1     0     0     0
## X4911     1     0     0     0     1     1     1     0     1     0     0     0
## X5111     0     0     1     0     0     0     0     0     0     0     0     0
## X5112     0     0     1     0     0     0     0     0     0     0     0     0
## X5205     0     1     0     0     0     0     0     0     0     0     0     0
## X5206     0     1     0     0     0     0     0     0     0     0     0     0
## X5208     0     1     0     0     0     0     0     0     0     0     0     0
## X5209     1     1     0     0     0     0     0     0     0     0     0     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     1     0     0     0     0     0     0     0     0     0     0
## X5402     0     1     0     0     0     0     0     0     0     0     0     0
## X5407     0     1     0     0     1     1     1     0     1     0     0     0
## X5408     0     0     1     0     0     0     0     0     0     0     0     0
## X5505     0     0     1     0     0     0     0     0     0     0     0     0
## X5508     1     0     0     0     1     1     1     0     1     0     0     0
## X5509     0     1     1     0     0     0     0     0     0     0     0     0
## X5511     0     0     1     0     0     0     0     0     0     0     0     0
## X5512     1     0     1     0     0     0     0     0     0     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     1     0     0     0     0     0     0     0     0     0     0
## X5515     1     0     1     0     0     0     0     0     0     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     0     0     0     1     1     1     0     1     0     0     0
## X5603     1     0     1     0     0     0     0     0     0     0     0     0
## X5609     0     0     1     0     0     0     0     0     0     0     0     0
## X5806     1     1     0     0     0     0     0     0     0     0     0     0
## X5807     1     1     0     0     0     0     0     0     0     0     0     0
## X5903     0     0     1     0     0     0     0     0     0     0     0     0
## X5907     1     0     0     0     0     0     0     0     0     0     0     0
## X5911     0     1     1     0     0     0     0     0     0     0     0     0
## X6002     1     1     0     0     1     1     1     0     1     0     0     0
## X6101     1     0     0     0     0     0     0     0     0     0     0     0
## X6103     0     1     0     0     0     0     0     0     0     0     0     0
## X6104     0     1     0     0     1     1     1     0     1     0     0     0
## X6105     1     0     0     0     0     0     0     0     0     0     0     0
## X6106     0     1     0     0     1     1     1     0     1     0     0     0
## X6107     0     1     0     0     0     0     0     0     0     0     0     0
## X6109     0     1     0     0     0     0     0     0     0     0     0     0
## X6110     1     0     1     0     0     0     0     0     0     0     0     0
## X6111     0     1     0     0     0     0     0     0     0     0     0     0
## X6112     0     1     0     0     0     0     0     0     0     0     0     0
## X6114     0     1     1     0     0     0     0     0     0     0     0     0
## X6115     0     1     0     0     1     1     1     0     1     0     0     0
## X6117     1     0     0     0     0     0     0     0     0     0     0     0
## X6201     0     1     0     0     0     0     0     0     0     0     0     0
## X6202     0     1     0     0     0     0     0     0     0     0     0     0
## X6203     1     1     0     0     0     0     0     0     0     0     0     0
## X6204     0     1     0     0     0     0     0     0     0     0     0     0
## X6205     1     0     0     0     1     1     1     0     1     0     0     0
## X6206     0     1     0     0     1     1     1     0     1     0     0     0
## X6210     0     1     0     0     0     0     0     0     0     0     0     0
## X6211     1     1     0     0     0     0     0     0     0     0     0     0
## X6212     1     1     0     0     0     0     0     0     0     0     0     0
## X6217     0     1     0     0     0     0     0     0     0     0     0     0
## X6302     0     1     0     0     0     0     0     0     0     0     0     0
## X6303     0     1     0     0     0     0     0     0     0     0     0     0
## X6304     0     1     0     0     0     0     0     0     0     0     0     0
## X6305     0     1     1     0     0     0     0     0     0     0     0     0
## X6306     0     0     1     0     0     0     0     0     0     0     0     0
## X6307     0     1     0     0     0     0     0     0     0     0     0     0
## X6401     0     0     0     0     1     1     1     0     1     0     0     0
## X6403     0     0     0     0     1     1     1     0     1     0     0     0
## X6404     0     0     1     0     0     0     0     0     0     0     0     0
##       X7208 X7210 X7211 X7216 X7219 X7225 X7304 X7306 X7307 X7308 X7309 X7310
## X102      0     0     0     0     0     0     0     0     0     0     1     0
## X210      0     1     0     0     0     0     0     0     0     1     0     0
## X401      0     0     0     0     0     0     0     0     1     0     0     0
## X403      0     1     0     0     0     0     0     0     0     1     1     0
## X406      0     1     0     0     0     0     0     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
```

```
## X702      0     1     0     0     0     0     0     0     0     1     0     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     1     0     0     0     0     0     0     0     1     1     1
## X712      1     0     0     1     1     1     0     0     0     0     0     0
## X713      0     1     0     0     0     0     0     0     0     1     1     1
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     1     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     0     0     0     0     0     0     0     1     0
## X813      0     0     0     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     1     0
## X904      0     0     0     0     0     0     0     0     0     1     0     0
## X1001     0     1     0     0     0     0     0     0     0     1     1     1
## X1003     0     0     0     0     0     0     0     0     1     0     0     0
## X1005     0     0     0     0     0     0     0     0     0     0     1     0
## X1102     0     0     0     0     0     0     0     0     1     0     0     0
## X1108     0     0     0     0     0     0     0     0     1     0     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     1     0
## X1208     0     0     0     0     0     0     0     0     1     0     0     0
## X1213     0     1     0     0     0     0     0     0     0     1     1     1
## X1214     0     1     0     0     0     0     0     0     0     1     1     1
## X1302     0     1     0     0     0     0     0     0     0     1     1     1
## X1507     0     1     0     0     0     0     0     0     0     0     0     0
## X1514     0     1     0     0     0     0     0     0     0     0     0     0
## X1517     0     0     0     0     0     0     0     0     1     0     0     0
## X1601     0     1     0     0     0     0     0     0     0     1     0     0
## X1602     0     1     0     0     0     0     0     0     0     1     0     0
## X1704     0     0     0     0     0     0     0     0     0     1     1     0
## X1806     0     0     0     0     0     0     0     0     1     1     1     0
## X1901     0     1     0     0     0     0     0     0     1     0     1     0
## X1902     0     1     0     0     0     0     0     0     0     0     0     0
## X1905     0     0     1     0     0     0     1     1     1     0     1     0
## X2001     0     1     0     0     0     0     0     0     0     0     0     0
## X2002     0     1     0     0     0     0     0     0     0     0     0     0
## X2003     0     1     0     0     0     0     0     0     0     0     0     0
## X2004     0     1     0     0     0     0     0     0     0     0     0     0
## X2005     0     1     0     0     0     0     0     0     0     0     1     0
## X2006     0     0     0     0     0     0     0     0     0     0     1     0
## X2007     0     1     0     0     0     0     0     0     0     0     1     0
## X2008     0     0     0     0     0     0     0     0     1     1     1     0
## X2101     0     1     0     0     0     0     0     0     0     0     0     0
## X2102     0     0     0     0     0     0     0     0     0     1     1     0
## X2103     0     1     0     0     0     0     0     0     0     1     0     0
## X2104     0     0     0     0     0     0     0     0     0     1     0     0
## X2106     0     1     0     0     0     0     0     0     1     1     0     0
## X2202     0     1     0     0     0     0     0     0     1     0     0     0
## X2206     0     0     0     0     0     0     0     0     0     0     0     0
## X2208     0     0     0     0     0     0     0     0     0     0     1     0
## X2209     0     1     0     0     0     0     0     0     0     0     0     0
## X2302     0     0     0     0     0     0     0     0     0     1     0     0
## X2309     0     0     0     0     0     0     0     0     1     0     0     0
## X2402     0     0     0     0     0     0     0     0     0     0     1     0
## X2403     0     0     0     0     0     0     0     0     0     0     1     0
## X2507     0     0     0     0     0     0     0     0     0     0     0     0
## X2508     0     0     0     0     0     0     0     0     1     0     0     0
## X2512     0     0     0     0     0     0     0     0     0     0     1     0
## X2517     0     0     0     0     0     0     0     0     0     1     1     0
## X2519     0     0     0     0     0     0     0     0     1     0     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     1     0
## X2525     0     0     0     0     0     0     0     0     0     1     0     0
## X2530     0     0     0     0     0     0     0     0     0     0     1     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     0     0     0     0     0     0     0     1     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     1     0     0
## X2713     0     0     1     0     0     0     1     1     0     0     0     0
## X2714     0     0     1     0     0     0     1     1     0     0     0     0
## X2716     0     1     0     0     0     0     0     0     0     1     1     1
## X2804     0     0     0     0     0     0     0     0     1     1     0     0
## X2811     0     0     0     0     0     0     0     0     1     1     0     0
## X2825     1     0     0     1     1     1     0     0     0     0     0     0
## X2826     0     0     0     0     0     0     0     0     1     0     0     0
## X2832     0     0     0     0     0     0     0     0     1     0     0     0
## X2833     0     0     0     0     0     0     0     0     1     0     0     0
## X2835     0     0     0     0     0     0     0     0     1     0     0     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     0     0     0     0     0     0     0     1     1     0     0
```

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## X2903     0     1     1     0     0     0     1     1     0     1     1     1
## X2907     0     0     0     0     0     0     0     0     1     0     0     0
## X2915     0     0     0     0     0     0     0     0     1     0     0     0
## X2933     0     0     0     0     0     0     0     0     1     0     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     0     0     0     0     0     0     1     0     0     0
## X3204     0     0     0     0     0     0     0     0     1     0     0     0
## X3205     0     0     1     0     0     0     1     1     0     0     0     0
## X3206     0     0     1     0     0     0     1     1     1     0     0     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     1     0     1     1     1     1     1     1     0     0     0     0
## X3209     0     0     1     0     0     0     1     1     0     0     0     0
## X3210     0     0     0     0     0     0     0     0     1     0     0     0
## X3211     0     0     1     0     0     0     1     1     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     1     1     0     0     0     1     1     0     1     1     1
## X3215     0     0     1     0     0     0     1     1     0     0     0     0
## X3302     0     1     0     0     0     0     0     0     1     0     0     0
## X3303     0     0     0     0     0     0     0     0     0     0     1     0
## X3304     0     0     0     0     0     0     0     0     0     0     1     0
## X3305     0     0     0     0     0     0     0     0     0     0     1     0
## X3307     0     0     0     0     0     0     0     0     0     0     1     0
## X3402     0     1     0     0     0     0     0     0     1     0     1     0
## X3403     0     0     0     0     0     0     0     0     1     0     0     0
## X3506     0     1     1     0     0     0     1     1     0     1     0     0
## X3507     0     1     0     0     0     0     0     0     1     0     0     0
## X3605     0     0     0     0     0     0     0     0     0     1     0     0
## X3701     0     0     1     0     0     0     1     1     0     0     0     0
## X3707     0     0     1     0     0     0     1     1     0     0     0     0
## X3802     0     1     0     0     0     0     0     0     0     1     1     1
## X3808     0     0     0     0     0     0     0     0     0     0     1     0
## X3809     0     0     0     0     0     0     0     0     1     0     1     0
## X3810     1     0     0     1     1     1     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     0     1     0     0     0     1     1     1     0     0     0
## X3815     0     0     0     0     0     0     0     0     1     0     0     0
## X3816     0     0     0     0     0     0     0     0     0     0     1     0
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     1     0     0
## X3902     0     0     0     0     0     0     0     0     1     0     0     0
## X3908     0     1     0     0     0     0     0     0     0     0     1     0
## X3909     0     0     0     0     0     0     0     0     1     0     0     0
## X3910     0     0     0     0     0     0     0     0     1     0     0     0
## X3911     0     0     0     0     0     0     0     0     1     0     0     0
## X3915     0     0     0     0     0     0     0     0     1     0     0     0
## X3916     0     0     1     0     0     0     1     1     0     0     0     0
## X3917     0     0     0     0     0     0     0     0     1     0     1     0
## X3919     0     0     1     0     0     0     1     1     1     0     0     0
## X3920     0     0     1     0     0     0     1     1     1     1     0     0
## X3921     0     0     1     0     0     0     1     1     1     0     0     0
## X3923     0     1     0     0     0     0     0     0     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     0     0     0     0     0     0     1     0     0     0
## X3926     0     1     0     0     0     0     0     0     1     1     1     1
## X4001     0     0     1     0     0     0     1     1     0     0     0     0
## X4005     0     0     0     0     0     0     0     0     0     1     0     0
## X4006     0     0     0     0     0     0     0     0     0     1     0     0
## X4008     0     0     0     0     0     0     0     0     0     0     1     0
## X4009     0     0     0     0     0     0     0     0     0     1     0     0
## X4010     0     1     0     0     0     0     0     0     0     0     1     0
## X4012     0     0     0     0     0     0     0     0     0     1     0     0
## X4013     0     0     0     0     0     0     0     0     0     1     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     0     0     1     0     0
## X4202     0     0     1     0     0     0     1     1     1     0     0     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     1     0     0     0     0     0     0     1     0     0     0
## X4415     0     1     0     0     0     0     0     0     1     1     0     0
## X4416     0     0     0     0     0     0     0     0     1     0     1     0
## X4418     0     0     0     0     0     0     0     0     0     1     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     0
## X4421     0     0     0     0     0     0     0     0     0     0     1     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     0     0     0     0     0     1     0     0     0
## X4808     0     1     1     0     0     0     1     1     1     1     0     1
## X4818     0     0     1     0     0     0     1     1     0     0     0     0
## X4819     0     1     0     0     0     0     0     0     0     0     0     0
## X4821     0     1     1     0     0     0     1     1     0     0     0     0
```

```
## X4822     0     0     0     0     0     0     0     0     1     0     0     0
## X4823     0     1     0     0     0     0     0     0     1     1     1     1
## X4901     0     0     0     0     0     0     0     0     0     0     1     0
## X4902     0     0     0     0     0     0     0     0     0     0     1     0
## X4907     0     0     0     0     0     0     0     0     0     0     1     0
## X4911     0     1     0     0     0     0     0     0     0     0     1     0
## X5111     0     0     0     0     0     0     0     0     1     0     1     0
## X5112     0     0     0     0     0     0     0     0     0     0     1     0
## X5205     0     0     1     0     0     0     1     1     0     0     0     0
## X5206     0     0     1     0     0     0     1     1     0     0     0     0
## X5208     0     0     1     0     0     0     1     1     0     0     0     0
## X5209     0     1     1     0     0     0     1     1     0     0     0     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     0     1     0     0     0     1     1     0     0     0     0
## X5402     0     1     1     0     0     0     1     1     0     1     1     1
## X5407     0     0     1     0     0     0     1     1     1     0     0     0
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     0
## X5508     0     1     0     0     0     0     0     0     0     1     1     1
## X5509     0     0     1     0     0     0     1     1     0     0     0     0
## X5511     0     0     0     0     0     0     0     0     0     0     0     0
## X5512     0     1     0     0     0     0     0     0     0     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     0     1     0     0     0     1     1     0     0     0     0
## X5515     0     1     0     0     0     0     0     0     0     0     1     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     0     0     0     0     0     0     0     0     0     1     0
## X5603     0     1     0     0     0     0     0     0     1     0     0     0
## X5609     0     0     0     0     0     0     0     0     0     0     0     0
## X5806     0     1     1     0     0     0     1     1     0     0     0     0
## X5807     0     1     1     0     0     0     1     1     0     0     0     0
## X5903     0     0     0     0     0     0     0     0     1     0     0     0
## X5907     0     1     0     0     0     0     0     0     0     0     0     0
## X5911     0     0     1     0     0     0     1     1     0     0     1     0
## X6002     0     1     1     0     0     0     1     1     1     0     0     0
## X6101     0     1     0     0     0     0     0     0     0     0     0     0
## X6103     0     0     1     0     0     0     1     1     0     0     0     0
## X6104     0     0     1     0     0     0     1     1     0     0     1     0
## X6105     0     1     0     0     0     0     0     0     0     0     0     0
## X6106     0     0     1     0     0     0     1     1     0     0     1     0
## X6107     0     0     1     0     0     0     1     1     0     0     0     0
## X6109     0     0     1     0     0     0     1     1     0     0     0     0
## X6110     0     1     0     0     0     0     0     0     0     0     0     0
## X6111     0     0     1     0     0     0     1     1     0     0     0     0
## X6112     0     0     1     0     0     0     1     1     0     0     1     0
## X6114     0     0     1     0     0     0     1     1     0     0     1     0
## X6115     0     0     1     0     0     0     1     1     0     0     1     0
## X6117     0     1     0     0     0     0     0     0     0     0     0     0
## X6201     0     0     1     0     0     0     1     1     0     0     0     0
## X6202     0     0     1     0     0     0     1     1     0     0     0     0
## X6203     0     1     1     0     0     0     1     1     0     0     0     0
## X6204     0     0     1     0     0     0     1     1     0     0     0     0
## X6205     0     1     0     0     0     0     0     0     0     0     1     0
## X6206     0     0     1     0     0     0     1     1     0     0     0     0
## X6210     0     0     1     0     0     0     1     1     0     0     0     0
## X6211     0     1     1     0     0     0     1     1     0     0     0     0
## X6212     0     1     1     0     0     0     1     1     1     1     0     0
## X6217     0     0     1     0     0     0     1     1     0     0     0     0
## X6302     0     0     1     0     0     0     1     1     0     0     0     0
## X6303     0     0     1     0     0     0     1     1     0     0     0     0
## X6304     0     0     1     0     0     0     1     1     0     0     0     0
## X6305     0     0     1     0     0     0     1     1     1     0     0     0
## X6306     0     0     0     0     0     0     0     0     1     0     0     0
## X6307     0     0     1     0     0     0     1     1     0     0     0     0
## X6401     0     0     0     0     0     0     0     0     0     0     1     0
## X6403     0     0     0     0     0     0     0     0     0     0     1     0
## X6404     0     0     0     0     0     0     0     0     1     0     0     0
##       X7314 X7315 X7317 X7318 X7319 X7320 X7322 X7326 X7418 X7419 X7605 X7606
## X102      0     0     1     1     1     0     0     1     1     0     1     0
## X210      0     0     0     0     0     0     0     0     0     0     1     0
## X401      0     0     1     0     1     0     1     1     1     1     1     1
## X403      0     0     1     0     1     0     0     0     1     0     1     0
## X406      0     0     0     0     0     0     0     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     0     0     1     0     0     0     0     0     0     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     1     0     1     0     1     0     0     0     0     0     0
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```
## X712      1     1     0     1     0     0     0     0     0     0     0     0
## X713      0     1     0     1     0     1     0     0     0     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     1     1     1     0     0     1     1     0     1     0
## X813      0     0     0     0     1     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     0     1     0
## X1001     0     0     0     1     0     1     0     0     0     0     0     0
## X1003     0     0     1     0     0     0     1     1     1     0     1     1
## X1005     0     0     0     0     0     1     0     0     0     0     0     0
## X1102     0     0     0     0     0     0     1     1     0     1     1     1
## X1108     0     0     0     0     0     0     1     1     0     1     1     1
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     0     0     0     0     1     1     0     1     1     1
## X1213     0     0     0     1     0     1     0     0     0     1     0     0
## X1214     0     1     0     1     0     1     0     0     0     0     0     0
## X1302     0     1     0     1     0     1     0     0     0     0     0     0
## X1507     0     0     0     0     0     0     0     0     0     0     0     0
## X1514     0     0     0     0     0     0     0     0     0     0     0     0
## X1517     0     0     1     0     1     0     1     1     1     1     1     1
## X1601     0     0     0     0     0     0     0     0     0     0     1     0
## X1602     0     0     1     0     1     0     0     0     1     0     1     0
## X1704     0     0     1     0     1     1     0     0     1     0     1     0
## X1806     0     0     1     0     1     1     1     1     1     0     1     1
## X1901     0     0     1     0     1     1     1     1     1     0     0     1
## X1902     0     0     0     0     0     0     0     0     0     0     0     0
## X1905     0     0     1     0     1     1     1     1     1     1     0     1
## X2001     0     0     0     0     0     0     0     0     0     0     0     0
## X2002     0     0     0     0     0     0     0     0     0     0     0     0
## X2003     0     0     0     0     0     0     0     0     0     0     0     0
## X2004     0     0     0     0     0     0     0     0     0     0     0     0
## X2005     0     0     1     0     1     1     0     0     1     0     0     0
## X2006     0     0     1     1     1     0     0     1     1     0     1     0
## X2007     0     0     1     1     1     0     0     1     1     0     1     0
## X2008     0     0     1     0     1     1     1     1     1     0     1     1
## X2101     0     0     0     0     0     0     0     0     0     0     0     0
## X2102     0     0     1     1     1     0     0     1     1     0     1     0
## X2103     0     0     0     0     0     0     0     0     0     0     1     0
## X2104     0     0     0     0     0     0     0     0     0     0     1     0
## X2106     0     0     0     0     0     0     1     0     0     1     1     1
## X2202     0     0     0     0     0     0     1     1     0     1     0     1
## X2206     0     0     0     0     1     0     0     0     0     0     0     0
## X2208     0     0     1     1     1     0     0     1     1     0     1     0
## X2209     0     0     0     0     0     0     0     0     0     0     0     0
## X2302     0     0     0     0     0     0     0     0     0     0     1     0
## X2309     0     0     0     0     0     0     1     1     0     1     1     1
## X2402     0     0     1     1     1     0     0     1     1     0     1     0
## X2403     0     0     1     1     1     0     0     1     1     0     1     0
## X2507     0     0     0     0     1     0     0     0     0     1     0     0
## X2508     0     0     1     0     1     0     1     1     1     1     1     1
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     0     1     1     1     1     0     0     0     1     0     0     0
## X2519     0     0     0     0     0     0     1     1     0     1     1     1
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     1     0     1     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     0     1     1     1     0     0     1     1     1     1     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     1     1     1     0     0     1     1     0     1     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     1     0
## X2713     0     0     0     0     0     0     0     0     0     1     0     0
## X2714     0     0     0     0     0     0     0     0     0     1     0     0
## X2716     0     0     1     1     1     0     0     0     1     1     0     0
## X2804     0     0     1     0     1     0     1     1     1     0     1     1
## X2811     0     0     1     0     1     0     1     1     1     0     1     1
## X2825     1     1     0     1     0     0     0     0     0     0     0     0
## X2826     0     0     0     0     0     0     1     1     0     1     1     1
## X2832     0     0     0     0     0     0     1     1     0     1     1     1
## X2833     0     0     0     0     0     0     1     1     0     1     1     1
## X2835     0     0     0     0     0     0     1     1     0     1     1     1
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     0     1     0     1     0     1     1     1     0     1     1
## X2903     0     0     0     1     0     0     0     0     0     1     0     0
## X2907     0     0     0     0     0     0     1     1     0     1     1     1
## X2915     0     0     0     0     0     0     1     1     0     1     1     1
```

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## X2933     0     0     0     0     0     0     1     1     0     1     1     1
## X3105     0     0     0     0     0     1     0     0     0     0     0     0
## X3202     0     0     0     0     0     0     1     1     0     1     1     1
## X3204     0     0     1     0     1     0     1     1     1     1     1     1
## X3205     0     0     0     0     0     0     0     0     0     1     0     0
## X3206     0     0     0     0     0     0     1     1     0     1     0     1
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     1     1     0     1     0     0     0     0     0     1     0     0
## X3209     0     0     0     0     0     0     0     0     0     1     0     0
## X3210     0     0     0     0     0     0     1     1     0     1     1     1
## X3211     0     0     0     0     0     0     0     0     0     1     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     0     1     0     0     0     0     0     1     0     0
## X3215     0     0     0     0     0     0     0     0     0     1     0     0
## X3302     0     0     0     0     0     0     1     1     0     1     1     1
## X3303     0     0     1     1     1     0     0     1     1     0     1     0
## X3304     0     0     1     1     1     0     0     1     1     0     1     0
## X3305     0     0     1     1     1     0     0     1     1     0     1     0
## X3307     0     0     1     1     1     0     0     1     1     0     1     0
## X3402     0     0     1     0     1     0     1     1     1     0     1     1
## X3403     0     0     1     0     1     0     1     1     1     1     1     1
## X3506     0     0     1     0     1     0     0     0     1     0     1     0
## X3507     0     0     0     0     0     0     1     1     0     1     1     1
## X3605     0     0     0     0     0     0     0     0     0     0     1     0
## X3701     0     0     0     0     0     0     0     0     0     1     0     0
## X3707     0     0     0     0     0     0     0     0     0     1     0     0
## X3802     0     0     0     1     0     0     0     0     0     0     0     0
## X3808     0     0     1     1     1     0     0     1     1     0     1     0
## X3809     0     1     1     1     1     0     1     1     1     0     1     1
## X3810     1     1     0     1     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     0     0     0     0     0     1     1     0     1     0     1
## X3815     0     0     0     0     0     0     1     1     0     1     1     1
## X3816     0     0     1     1     1     0     0     1     1     0     1     0
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     1     0
## X3902     0     0     0     0     0     0     1     1     0     1     1     1
## X3908     0     0     1     1     1     0     0     1     1     0     1     0
## X3909     0     0     0     0     0     0     1     1     0     1     1     1
## X3910     0     0     0     0     0     0     1     1     0     1     1     1
## X3911     0     0     0     0     0     0     1     1     0     1     1     1
## X3915     0     0     0     0     0     0     1     1     0     1     1     1
## X3916     0     0     0     0     0     0     0     0     0     1     0     0
## X3917     0     1     1     1     1     0     1     1     1     0     1     1
## X3919     0     0     0     0     0     0     1     1     0     1     0     1
## X3920     0     0     0     0     0     0     1     0     0     1     1     1
## X3921     0     0     0     0     0     0     1     1     0     1     0     1
## X3923     0     0     0     0     1     0     0     0     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     0     0     0     0     1     1     0     1     1     1
## X3926     0     0     1     1     1     0     1     1     1     0     1     1
## X4001     0     0     0     0     0     0     0     0     0     1     0     0
## X4005     0     0     0     0     0     0     0     0     0     0     1     0
## X4006     0     0     0     0     0     0     0     0     0     0     1     0
## X4008     0     0     1     1     1     0     0     1     1     0     1     0
## X4009     0     0     0     0     0     0     0     0     0     0     1     0
## X4010     0     1     0     1     1     0     0     0     0     0     0     0
## X4012     0     0     0     0     0     0     0     0     0     0     1     0
## X4013     0     0     0     0     0     0     0     0     0     0     1     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     0     0     0     1     0
## X4202     0     0     0     0     0     0     1     0     0     1     0     1
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     0     0     0     1     0     1     0     0     1     0     1
## X4415     0     0     0     0     0     0     1     0     0     1     1     1
## X4416     0     1     0     1     1     0     1     1     0     1     0     1
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     1     0     0     0     0     0     0     0
## X4421     0     0     1     1     1     0     0     1     1     0     1     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     0     0     0     1     1     0     1     1     1
## X4808     0     0     0     0     0     0     1     0     0     1     0     1
## X4818     0     0     0     0     0     0     0     0     0     1     0     0
## X4819     0     0     0     0     0     0     0     0     0     0     0     0
## X4821     0     0     0     0     0     0     0     0     0     1     0     0
## X4822     0     0     0     0     0     0     1     1     0     1     1     1
## X4823     0     0     0     1     0     0     1     1     0     1     1     1
## X4901     0     0     1     1     1     0     0     1     1     0     1     0
```

```
## X4902     0     0     1     1     1     0     0     1     1     0     1     0
## X4907     0     0     1     1     1     0     0     1     1     0     1     0
## X4911     0     0     1     1     1     0     0     1     1     0     1     0
## X5111     0     0     0     0     0     0     1     1     0     1     1     1
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     0     0     0     0     0     0     0     0     0     1     0     0
## X5206     0     0     0     0     0     0     0     0     0     1     0     0
## X5208     0     0     0     0     0     0     0     0     0     1     0     0
## X5209     0     0     0     0     0     0     0     0     0     1     0     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     0     0     0     0     0     0     0     0     1     0     0
## X5402     0     0     0     1     0     0     0     0     0     1     0     0
## X5407     0     0     1     0     1     0     1     1     1     1     1     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     1     0     0     0     0     0     0     0
## X5508     0     0     1     1     1     0     0     0     1     0     0     0
## X5509     0     0     0     0     1     0     0     0     0     1     0     0
## X5511     0     0     0     0     1     0     0     0     0     0     0     0
## X5512     0     0     0     0     1     0     0     0     0     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     0     0     0     0     0     0     0     0     1     0     0
## X5515     0     0     0     0     0     0     0     0     0     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     0     1     1     1     0     0     1     1     0     1     0
## X5603     0     0     0     0     0     0     1     1     0     1     0     1
## X5609     0     0     0     0     1     0     0     0     0     0     0     0
## X5806     0     0     0     0     0     0     0     0     0     1     0     0
## X5807     0     0     0     0     0     0     0     0     0     1     0     0
## X5903     0     0     0     0     0     0     1     1     0     1     1     1
## X5907     0     0     0     0     0     0     0     0     0     0     0     0
## X5911     0     0     0     0     1     0     0     0     0     1     0     0
## X6002     0     0     1     0     0     0     1     1     1     1     0     1
## X6101     0     0     0     0     0     0     0     0     0     0     0     0
## X6103     0     0     0     0     0     0     0     0     0     1     0     0
## X6104     0     0     1     1     1     0     0     1     1     1     0     0
## X6105     0     0     0     0     0     0     0     0     0     0     0     0
## X6106     0     0     1     1     1     0     0     1     1     1     0     0
## X6107     0     0     0     0     0     0     0     0     0     1     0     0
## X6109     0     0     0     0     0     0     0     0     0     1     0     0
## X6110     0     0     0     0     1     0     0     0     0     0     0     0
## X6111     0     0     0     0     0     0     0     0     0     1     0     0
## X6112     0     1     0     1     0     0     0     0     0     1     0     0
## X6114     0     0     0     0     1     0     0     0     0     1     0     0
## X6115     0     0     1     1     1     0     0     1     1     1     0     0
## X6117     0     0     0     0     0     0     0     0     0     0     0     0
## X6201     0     0     0     0     0     0     0     0     0     1     0     0
## X6202     0     0     0     0     0     0     0     0     0     1     0     0
## X6203     0     0     0     0     0     0     0     0     0     1     0     0
## X6204     0     0     0     0     0     0     0     0     0     1     0     0
## X6205     0     0     1     1     1     0     0     1     1     0     1     0
## X6206     0     0     1     0     1     0     0     0     1     0     0     0
## X6210     0     0     0     0     0     0     0     0     0     1     0     0
## X6211     0     0     0     0     0     0     0     0     0     1     0     0
## X6212     0     0     0     0     0     1     1     0     0     1     0     1
## X6217     0     0     0     0     0     0     0     0     0     1     0     0
## X6302     0     0     0     0     0     0     0     0     0     1     0     0
## X6303     0     0     0     0     0     0     0     0     0     1     0     0
## X6304     0     0     0     0     0     0     0     0     0     1     0     0
## X6305     0     0     0     0     0     0     1     1     0     1     0     1
## X6306     0     0     0     0     0     0     1     1     0     1     1     1
## X6307     0     0     0     0     0     0     0     0     0     1     0     0
## X6401     0     0     1     1     1     0     0     1     1     0     1     0
## X6403     0     0     1     1     1     0     0     1     1     0     1     0
## X6404     0     0     0     0     0     0     1     1     0     1     1     1
##       X7608 X7609 X7615 X7616 X8204 X8205 X8207 X8208 X8209 X8301 X8302 X8306
## X102      0     0     1     0     0     1     1     0     1     0     0     1
## X210      0     0     0     0     0     0     0     1     0     0     0     0
## X401      0     0     1     1     0     1     1     0     1     0     0     1
## X403      0     0     1     0     0     0     1     1     1     0     0     1
## X406      0     0     0     1     0     0     0     0     0     0     1     0
## X510      0     0     0     0     0     0     0     0     0     0     1     0
## X602      0     0     0     0     0     0     0     0     0     0     1     1
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     0     0     0     0     0     0     0     1     1     1
## X703      0     0     0     0     0     0     0     0     0     0     1     0
## X709      0     0     0     0     0     0     0     0     0     1     1     0
## X712      1     1     0     0     1     0     0     0     0     0     0     0
## X713      0     0     0     0     0     0     0     0     0     1     1     1
## X804      0     0     0     0     0     0     0     0     0     0     1     0
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```
## X805      0     0     0     0     0     0     0     0     0     0     1     0
## X808      0     0     0     0     0     0     0     0     0     0     1     0
## X809      0     0     1     0     0     1     1     0     1     0     0     1
## X813      0     0     0     0     0     0     0     0     0     0     1     1
## X901      0     0     0     0     0     0     0     0     0     0     1     0
## X904      0     0     0     0     0     0     0     1     0     0     0     0
## X1001     0     0     0     0     0     1     0     0     0     1     1     1
## X1003     0     0     1     1     0     1     1     0     1     0     1     1
## X1005     0     0     0     0     0     0     0     0     0     0     1     0
## X1102     0     0     0     1     0     1     0     0     0     0     0     0
## X1108     0     0     0     1     0     1     0     0     0     0     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     1     0
## X1208     0     0     0     1     0     1     0     0     0     0     0     0
## X1213     0     0     0     0     0     0     0     0     0     1     1     0
## X1214     0     0     0     0     0     0     0     0     0     0     1     0
## X1302     0     0     0     0     0     0     0     0     0     0     1     1
## X1507     0     0     0     0     0     0     0     0     0     0     0     0
## X1514     0     0     0     0     0     0     0     0     0     0     0     0
## X1517     0     0     1     1     0     1     1     0     1     0     0     1
## X1601     0     0     0     0     0     0     0     1     0     0     0     0
## X1602     0     0     1     0     0     0     1     1     1     0     0     1
## X1704     0     0     1     0     0     0     1     1     1     0     1     1
## X1806     0     0     1     1     0     1     1     1     1     0     1     1
## X1901     0     0     1     1     0     1     1     0     1     0     1     1
## X1902     0     0     0     0     0     0     0     0     0     0     0     0
## X1905     0     0     1     1     0     1     1     0     1     0     1     1
## X2001     0     0     0     0     0     0     0     0     0     0     0     0
## X2002     0     0     0     0     0     0     0     0     0     0     0     0
## X2003     0     0     0     0     0     0     0     0     0     0     0     0
## X2004     0     0     0     0     0     0     0     0     0     0     0     0
## X2005     0     0     1     0     0     0     1     0     1     0     1     1
## X2006     0     0     1     0     0     1     1     0     1     0     1     1
## X2007     0     0     1     0     0     1     1     0     1     0     0     1
## X2008     0     0     1     1     0     1     1     1     1     0     1     1
## X2101     0     0     0     0     0     0     0     0     0     0     0     0
## X2102     0     0     1     0     0     1     1     1     1     0     0     1
## X2103     0     0     0     0     0     0     0     1     0     0     0     0
## X2104     0     0     0     0     0     0     0     1     0     0     0     0
## X2106     0     0     0     1     0     0     0     1     0     0     0     0
## X2202     0     0     0     1     0     1     0     0     0     0     0     0
## X2206     0     0     0     0     0     0     0     0     0     0     1     1
## X2208     0     0     1     0     0     1     1     0     1     0     0     1
## X2209     0     0     0     0     0     0     0     0     0     0     0     0
## X2302     0     0     0     0     0     0     0     1     0     0     0     0
## X2309     0     0     0     1     0     1     0     0     0     0     0     0
## X2402     0     0     1     0     0     1     1     0     1     0     0     1
## X2403     0     0     1     0     0     1     1     0     1     0     0     1
## X2507     0     0     0     0     0     0     0     0     0     0     1     1
## X2508     0     0     1     1     0     1     1     0     1     0     0     1
## X2512     0     0     0     0     0     0     0     0     0     0     1     0
## X2517     0     0     1     0     0     1     1     0     1     1     1     1
## X2519     0     0     0     1     0     1     0     0     0     0     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     1     0
## X2522     0     0     0     0     0     0     0     0     0     0     1     0
## X2525     0     0     0     0     0     0     0     0     0     1     1     0
## X2530     0     0     1     0     0     1     1     0     1     0     1     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     1     0     0     1     1     0     1     0     0     1
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     1     0     0     0     0
## X2713     0     0     0     0     0     0     0     1     0     0     0     0
## X2714     0     0     0     0     0     0     0     1     0     0     0     0
## X2716     0     0     1     0     0     0     1     0     1     1     1     1
## X2804     0     0     1     1     0     1     1     1     1     0     0     1
## X2811     0     0     1     1     0     1     1     1     1     0     0     1
## X2825     1     1     0     0     1     0     0     0     0     0     0     0
## X2826     0     0     0     1     0     1     0     0     0     0     0     0
## X2832     0     0     0     1     0     1     0     0     0     0     0     0
## X2833     0     0     0     1     0     1     0     0     0     0     0     0
## X2835     0     0     0     1     0     1     0     0     0     0     0     0
## X2836     0     0     0     0     0     0     0     0     0     0     1     0
## X2901     0     0     1     1     0     1     1     1     1     0     0     1
## X2903     0     0     0     0     0     0     0     1     0     0     0     0
## X2907     0     0     0     1     0     1     0     0     0     0     0     0
## X2915     0     0     0     1     0     1     0     0     0     0     0     0
## X2933     0     0     0     1     0     1     0     0     0     0     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     1     0
## X3202     0     0     0     1     0     1     0     0     0     0     0     0
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## X3204     0     0     1     1     0     1     1     0     1     0     0     1
## X3205     0     0     0     0     0     0     0     1     0     0     0     0
## X3206     0     0     0     1     0     1     0     1     0     0     0     0
## X3207     0     0     0     0     0     0     0     0     0     0     1     0
## X3208     1     1     0     0     1     0     0     1     0     0     0     0
## X3209     0     0     0     0     0     0     0     1     0     0     0     0
## X3210     0     0     0     1     0     1     0     0     0     0     0     0
## X3211     0     0     0     0     0     0     0     1     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     1     0
## X3214     0     0     0     0     0     0     0     1     0     0     0     0
## X3215     0     0     0     0     0     0     0     1     0     0     0     0
## X3302     0     0     0     1     0     1     0     0     0     0     0     0
## X3303     0     0     1     0     0     1     1     0     1     0     0     1
## X3304     0     0     1     0     0     1     1     0     1     0     0     1
## X3305     0     0     1     0     0     1     1     0     1     0     0     1
## X3307     0     0     1     0     0     1     1     0     1     0     0     1
## X3402     0     0     1     1     0     1     1     0     1     0     0     0
## X3403     0     0     1     1     0     1     1     0     1     0     0     1
## X3506     0     0     1     0     0     0     1     1     1     0     0     0
## X3507     0     0     0     1     0     1     0     0     0     0     0     0
## X3605     0     0     0     0     0     0     0     1     0     0     0     0
## X3701     0     0     0     0     0     0     0     1     0     0     0     0
## X3707     0     0     0     0     0     0     0     1     0     0     0     0
## X3802     0     0     0     0     0     0     0     0     0     0     1     0
## X3808     0     0     1     0     0     1     1     0     1     0     0     1
## X3809     0     0     1     1     0     1     1     0     1     0     0     1
## X3810     1     1     0     0     1     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     1     0
## X3814     0     0     0     1     0     1     0     1     0     0     0     0
## X3815     0     0     0     1     0     1     0     0     0     0     0     0
## X3816     0     0     1     0     0     1     1     0     1     0     0     1
## X3819     0     0     0     0     0     0     0     0     0     0     1     0
## X3820     0     0     0     0     0     0     0     0     0     0     1     0
## X3823     0     0     0     0     0     0     0     1     0     0     0     0
## X3902     0     0     0     1     0     1     0     0     0     0     0     0
## X3908     0     0     1     0     0     1     1     0     1     0     0     1
## X3909     0     0     0     1     0     1     0     0     0     0     0     0
## X3910     0     0     0     1     0     1     0     0     0     0     0     0
## X3911     0     0     0     1     0     1     0     0     0     0     0     0
## X3915     0     0     0     1     0     1     0     0     0     0     0     0
## X3916     0     0     0     0     0     0     0     1     0     0     0     0
## X3917     0     0     1     1     0     1     1     0     1     0     0     1
## X3919     0     0     0     1     0     1     0     1     0     0     0     0
## X3920     0     0     0     1     0     0     0     1     0     0     0     0
## X3921     0     0     0     1     0     1     0     1     0     0     0     0
## X3923     0     0     0     0     0     0     0     0     0     0     1     1
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     0     1     0     1     0     0     0     0     0     0
## X3926     0     0     1     1     0     1     1     0     1     0     1     1
## X4001     0     0     0     0     0     0     0     1     0     0     0     0
## X4005     0     0     0     0     0     0     0     1     0     0     0     0
## X4006     0     0     0     0     0     0     0     1     0     0     0     0
## X4008     0     0     1     0     0     1     1     0     1     0     0     1
## X4009     0     0     0     0     0     0     0     1     0     0     0     0
## X4010     0     0     0     0     0     0     0     0     0     0     1     1
## X4012     0     0     0     0     0     0     0     1     0     0     0     0
## X4013     0     0     0     0     0     0     0     1     0     0     0     0
## X4015     0     0     0     1     0     0     0     0     0     0     1     0
## X4016     0     0     0     1     0     0     0     1     0     0     1     0
## X4202     0     0     0     1     0     0     0     1     0     0     0     0
## X4203     0     0     0     1     0     0     0     0     0     0     1     0
## X4409     0     0     0     1     0     0     0     0     0     0     0     1
## X4415     0     0     0     1     0     0     0     1     0     0     0     0
## X4416     0     0     0     1     0     1     0     0     0     0     1     1
## X4418     0     0     0     0     0     0     0     0     0     1     1     0
## X4420     0     0     0     0     0     0     0     0     0     0     1     1
## X4421     0     0     1     0     0     1     1     0     1     0     0     1
## X4602     0     0     0     0     0     0     0     0     0     0     1     0
## X4804     0     0     0     1     0     1     0     0     0     0     0     0
## X4808     0     0     0     1     0     0     0     1     0     0     0     0
## X4818     0     0     0     0     0     0     0     1     0     0     0     0
## X4819     0     0     0     0     0     0     0     0     0     0     0     0
## X4821     0     0     0     0     0     0     0     1     0     0     0     0
## X4822     0     0     0     1     0     1     0     0     0     0     0     0
## X4823     0     0     0     1     0     1     0     0     0     0     0     0
## X4901     0     0     1     0     0     1     1     0     1     0     0     1
## X4902     0     0     1     0     0     1     1     0     1     0     0     1
## X4907     0     0     1     0     0     1     1     0     1     0     0     1
## X4911     0     0     1     0     0     1     1     0     1     0     0     1
```

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## X5111     0     0     0     1     0     1     0     0     0     0     0     0
## X5112     0     0     0     0     0     0     0     0     0     0     1     0
## X5205     0     0     0     0     0     0     0     1     0     0     0     0
## X5206     0     0     0     0     0     0     0     1     0     0     0     0
## X5208     0     0     0     0     0     0     0     1     0     0     0     0
## X5209     0     0     0     0     0     0     0     1     0     0     0     0
## X5210     0     0     0     0     0     0     0     0     0     0     1     0
## X5211     0     0     0     0     0     0     0     1     0     0     0     0
## X5402     0     0     0     0     0     0     0     1     0     0     0     0
## X5407     0     0     1     1     0     1     1     1     1     0     0     0
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     1     1
## X5508     0     0     1     0     0     0     1     0     1     0     0     1
## X5509     0     0     0     0     0     0     0     1     0     0     0     1
## X5511     0     0     0     0     0     0     0     0     0     0     1     1
## X5512     0     0     0     0     0     0     0     0     0     0     1     1
## X5513     0     0     0     0     0     0     0     0     0     0     1     0
## X5514     0     0     0     0     0     0     0     1     0     0     0     0
## X5515     0     0     0     0     0     0     0     0     0     0     1     0
## X5516     0     0     0     0     0     0     0     0     0     0     1     0
## X5601     0     0     1     0     0     1     1     0     1     0     0     1
## X5603     0     0     0     1     0     1     0     0     0     0     1     0
## X5609     0     0     0     0     0     0     0     0     0     0     1     1
## X5806     0     0     0     0     0     0     0     1     0     0     0     0
## X5807     0     0     0     0     0     0     0     1     0     0     0     0
## X5903     0     0     0     1     0     1     0     0     0     0     0     0
## X5907     0     0     0     0     0     0     0     0     0     0     0     0
## X5911     0     0     0     0     0     0     0     1     0     0     1     1
## X6002     0     0     1     1     0     1     1     1     1     0     0     0
## X6101     0     0     0     0     0     0     0     0     0     0     0     0
## X6103     0     0     0     0     0     0     0     1     0     0     0     0
## X6104     0     0     1     0     0     1     1     1     1     0     0     1
## X6105     0     0     0     0     0     0     0     0     0     0     0     0
## X6106     0     0     1     0     0     1     1     1     1     0     0     1
## X6107     0     0     0     0     0     0     0     1     0     0     0     0
## X6109     0     0     0     0     0     0     0     1     0     0     0     0
## X6110     0     0     0     0     0     0     0     0     0     0     1     1
## X6111     0     0     0     0     0     0     0     1     0     0     0     0
## X6112     0     0     0     0     0     0     0     1     0     0     1     0
## X6114     0     0     0     0     0     0     0     1     0     0     1     1
## X6115     0     0     1     0     0     1     1     1     1     0     0     1
## X6117     0     0     0     0     0     0     0     0     0     0     0     0
## X6201     0     0     0     0     0     0     0     1     0     0     0     0
## X6202     0     0     0     0     0     0     0     1     0     0     0     0
## X6203     0     0     0     0     0     0     0     1     0     0     0     0
## X6204     0     0     0     0     0     0     0     1     0     0     0     0
## X6205     0     0     1     0     0     1     1     0     1     0     0     1
## X6206     0     0     1     0     0     0     1     1     1     0     0     1
## X6210     0     0     0     0     0     0     0     1     0     0     0     0
## X6211     0     0     0     0     0     0     0     1     0     0     1     0
## X6212     0     0     0     1     0     0     0     1     0     1     1     0
## X6217     0     0     0     0     0     0     0     1     0     0     0     0
## X6302     0     0     0     0     0     0     0     1     0     0     0     0
## X6303     0     0     0     0     0     0     0     1     0     0     0     0
## X6304     0     0     0     0     0     0     0     1     0     0     0     0
## X6305     0     0     0     1     0     1     0     1     0     0     0     0
## X6306     0     0     0     1     0     1     0     0     0     0     0     0
## X6307     0     0     0     1     0     0     0     1     0     0     0     0
## X6401     0     0     1     0     0     1     1     0     1     0     0     1
## X6403     0     0     1     0     0     1     1     0     1     0     0     1
## X6404     0     0     0     1     0     1     0     0     0     0     0     0
##       X8307 X8308 X8309 X8311 X8402 X8406 X8408 X8409 X8411 X8412 X8413 X8414
## X102      0     0     0     1     0     1     0     0     1     0     0     0
## X210      0     0     1     1     0     0     0     0     0     0     0     0
## X401      1     0     1     1     0     1     0     1     1     0     1     1
## X403      0     0     1     1     0     1     0     0     1     0     0     0
## X406      0     0     1     0     0     0     0     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     1     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     0     0     0     1     0     0     1     0     0     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     0     0     0     0     1     0     0     1     0     1     0
## X712      0     0     0     0     1     0     1     0     0     0     1     0
## X713      0     0     0     0     0     1     0     1     1     1     1     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     1     0     0     1     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     1     0     1     0     0     1     0     0     0
```

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## X813      0     0     0     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     1     0     0     1     0     0     0
## X904      0     0     0     1     0     0     0     0     0     0     0     0
## X1001     0     0     0     0     0     1     0     1     1     1     1     0
## X1003     1     0     0     1     0     0     0     1     0     1     0     1
## X1005     0     0     0     0     0     0     0     0     0     0     0     0
## X1102     1     0     1     1     0     0     0     1     0     0     1     1
## X1108     1     0     1     1     0     0     0     1     0     0     1     1
## X1202     0     0     0     0     0     1     0     0     1     0     0     0
## X1208     1     0     1     1     0     0     0     1     0     0     1     1
## X1213     0     0     0     0     0     1     0     0     1     0     1     0
## X1214     0     0     0     0     0     1     0     0     1     0     1     0
## X1302     0     0     0     0     0     1     0     0     1     0     1     0
## X1507     0     0     1     0     0     0     0     0     0     0     0     0
## X1514     0     0     1     0     0     0     0     0     0     0     0     0
## X1517     1     0     1     1     0     1     0     1     1     0     1     1
## X1601     0     0     1     1     0     0     0     0     0     0     0     0
## X1602     0     0     1     1     0     1     0     0     1     0     0     0
## X1704     0     0     0     1     0     1     0     0     1     0     0     0
## X1806     1     0     0     1     0     1     0     1     1     0     0     1
## X1901     1     0     1     0     0     1     0     1     1     0     0     1
## X1902     0     0     1     0     0     0     0     0     0     0     0     0
## X1905     1     1     0     0     0     1     0     1     1     0     0     1
## X2001     0     0     1     0     0     0     0     0     0     0     0     0
## X2002     0     0     1     0     0     0     0     0     0     0     0     0
## X2003     0     0     1     0     0     0     0     0     0     0     0     0
## X2004     0     0     1     0     0     0     0     0     0     0     0     0
## X2005     0     0     1     0     0     1     0     0     1     0     0     0
## X2006     0     0     0     1     0     1     0     0     1     0     0     0
## X2007     0     0     1     1     0     1     0     0     1     0     0     0
## X2008     1     0     0     1     0     1     0     1     1     0     0     1
## X2101     0     0     1     0     0     0     0     0     0     0     0     0
## X2102     0     0     0     1     0     1     0     0     1     0     0     0
## X2103     0     0     1     1     0     0     0     0     0     0     0     0
## X2104     0     0     0     1     0     0     0     0     0     0     0     0
## X2106     1     0     1     1     0     0     0     1     0     0     1     1
## X2202     1     0     1     0     0     0     0     1     0     0     1     1
## X2206     0     0     0     0     0     0     0     0     0     0     0     0
## X2208     0     0     0     1     0     1     0     0     1     0     0     0
## X2209     0     0     1     0     0     0     0     0     0     0     0     0
## X2302     0     0     0     1     0     0     0     0     0     0     0     0
## X2309     1     0     1     1     0     0     0     1     0     0     1     1
## X2402     0     0     0     1     0     1     0     0     1     0     0     0
## X2403     0     0     0     1     0     1     0     0     1     0     0     0
## X2507     0     0     0     0     0     1     0     0     1     0     0     0
## X2508     1     0     1     1     0     1     0     1     1     0     1     1
## X2512     0     0     0     0     0     1     0     0     1     0     0     0
## X2517     0     0     0     0     0     1     0     0     1     0     0     0
## X2519     1     0     1     1     0     0     0     1     0     0     1     1
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     1     0
## X2525     0     0     0     0     0     1     0     0     1     0     0     0
## X2530     0     0     0     1     0     1     0     0     1     0     0     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     1     0     1     0     0     1     0     0     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     1     0     0     0     0     0     0     0     0
## X2713     0     1     0     0     0     0     0     0     0     0     0     0
## X2714     0     1     0     0     0     0     0     0     0     0     0     0
## X2716     0     0     0     0     0     1     0     0     1     0     0     0
## X2804     1     0     1     1     0     0     0     1     0     0     0     1
## X2811     1     0     1     1     0     0     0     1     0     0     0     1
## X2825     0     0     0     0     1     0     1     0     0     0     1     0
## X2826     1     0     1     1     0     0     0     1     0     0     1     1
## X2832     1     0     1     1     0     0     0     1     0     0     1     1
## X2833     1     0     1     1     0     0     0     1     0     0     1     1
## X2835     1     0     1     1     0     0     0     1     0     0     1     1
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     1     0     1     1     0     0     0     1     0     0     0     1
## X2903     0     1     0     0     0     1     0     0     1     0     1     0
## X2907     1     0     1     1     0     0     0     1     0     0     1     1
## X2915     1     0     1     1     0     0     0     1     0     0     1     1
## X2933     1     0     1     1     0     0     0     1     0     0     1     1
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     1     0     1     1     0     0     0     1     0     0     1     1
## X3204     1     0     1     1     0     0     0     1     0     0     0     1
## X3205     0     1     0     0     0     0     0     0     0     0     0     0
## X3206     1     1     1     0     0     0     0     1     0     0     1     1
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```
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     1     0     0     1     0     1     0     0     0     1     0
## X3209     0     1     0     0     0     0     0     0     0     0     0     0
## X3210     1     0     1     1     0     0     0     1     0     0     1     1
## X3211     0     1     0     0     0     0     0     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     1     0     0     0     1     0     0     1     0     1     0
## X3215     0     1     0     0     0     0     0     0     0     0     0     0
## X3302     1     0     1     1     0     0     0     1     0     0     1     1
## X3303     0     0     0     1     0     1     0     0     1     0     0     0
## X3304     0     0     0     1     0     1     0     0     1     0     0     0
## X3305     0     0     0     1     0     1     0     0     1     0     0     0
## X3307     0     0     0     1     0     1     0     0     1     0     0     0
## X3402     1     0     1     1     0     1     0     1     1     0     0     1
## X3403     1     0     1     1     0     0     0     1     0     0     0     1
## X3506     0     1     0     1     0     0     0     0     0     0     0     0
## X3507     1     0     1     1     0     0     0     1     0     0     1     1
## X3605     0     0     0     1     0     0     0     0     0     0     0     0
## X3701     0     1     0     0     0     0     0     0     0     0     0     0
## X3707     0     1     0     0     0     0     0     0     0     0     0     0
## X3802     0     0     0     0     0     1     0     0     1     0     1     0
## X3808     0     0     0     1     0     1     0     0     1     0     0     0
## X3809     1     0     0     1     0     1     0     1     1     0     1     1
## X3810     0     0     0     0     1     0     1     0     0     0     1     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     1     1     1     0     0     0     0     1     0     0     1     1
## X3815     1     0     1     1     0     0     0     1     0     0     1     1
## X3816     0     0     0     1     0     1     0     0     1     0     0     0
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     1     0     0     0     0     0     0     0     0
## X3902     1     0     1     1     0     0     0     1     0     0     1     1
## X3908     0     0     1     1     0     1     0     0     1     0     0     0
## X3909     1     0     1     1     0     0     0     1     0     0     1     1
## X3910     1     0     1     1     0     0     0     1     0     0     1     1
## X3911     1     0     1     1     0     0     0     1     0     0     1     1
## X3915     1     0     1     1     0     0     0     1     0     0     1     1
## X3916     0     1     0     0     0     0     0     0     0     0     0     0
## X3917     1     0     0     1     0     0     0     1     0     0     1     1
## X3919     1     1     1     0     0     0     0     1     0     0     1     1
## X3920     1     1     1     1     0     0     0     1     0     0     0     1
## X3921     1     1     1     0     0     0     0     1     0     0     1     1
## X3923     0     0     1     0     0     0     0     0     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     1     0     1     1     0     0     0     1     0     0     1     1
## X3926     1     0     0     1     0     1     0     1     1     0     1     1
## X4001     0     1     0     0     0     0     0     0     0     0     0     0
## X4005     0     0     0     1     0     0     0     0     0     0     0     0
## X4006     0     0     0     1     0     0     0     0     0     0     0     0
## X4008     0     0     0     1     0     1     0     0     1     0     0     0
## X4009     0     0     0     1     0     0     0     0     0     0     0     0
## X4010     0     0     1     0     0     0     0     0     0     0     1     0
## X4012     0     0     0     1     0     0     0     0     0     0     0     0
## X4013     0     0     0     1     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     1     0     0     0     0     0     0     0     0
## X4202     1     1     1     0     0     0     0     1     0     0     1     1
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     1     0     1     0     0     0     0     1     0     0     1     1
## X4415     1     0     1     1     0     0     0     1     0     0     1     1
## X4416     1     0     1     0     0     1     0     1     1     0     1     1
## X4418     0     0     0     0     0     1     0     0     1     0     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     0
## X4421     0     0     0     1     0     1     0     0     1     0     0     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     1     0     1     1     0     0     0     1     0     0     1     1
## X4808     1     1     1     0     0     0     0     1     0     0     1     1
## X4818     0     1     0     0     0     0     0     0     0     0     0     0
## X4819     0     0     1     0     0     0     0     0     0     0     0     0
## X4821     0     1     1     0     0     0     0     0     0     0     0     0
## X4822     1     0     1     1     0     0     0     1     0     0     1     1
## X4823     1     0     1     1     0     1     0     1     1     0     1     1
## X4901     0     0     0     1     0     1     0     0     1     0     0     0
## X4902     0     0     0     1     0     1     0     0     1     0     0     0
## X4907     0     0     0     1     0     1     0     0     1     0     0     0
## X4911     0     0     1     1     0     1     0     0     1     0     0     0
## X5111     1     0     1     1     0     1     0     1     1     0     1     1
## X5112     0     0     0     0     0     1     0     0     1     0     0     0
## X5205     0     1     0     0     0     0     0     0     0     0     0     0
```

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## X5206     0     1     0     0     0     0     0     0     0     0     0     0
## X5208     0     1     0     0     0     0     0     0     0     0     0     0
## X5209     0     1     1     0     0     0     0     0     0     0     0     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     1     0     0     0     0     0     0     0     0     0     0
## X5402     0     1     0     0     0     1     0     0     1     0     1     0
## X5407     1     1     0     1     0     0     0     1     0     0     0     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     0
## X5508     0     0     1     0     0     1     0     0     1     0     1     0
## X5509     0     1     0     0     0     0     0     0     0     0     0     0
## X5511     0     0     0     0     0     0     0     0     0     0     0     0
## X5512     0     0     1     0     0     0     0     0     0     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     1     0     0     0     0     0     0     0     0     0     0
## X5515     0     0     1     0     0     1     0     0     1     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     0     0     1     0     1     0     0     1     0     0     0
## X5603     1     0     1     0     0     0     0     1     0     0     1     1
## X5609     0     0     0     0     0     0     0     0     0     0     0     0
## X5806     0     1     1     0     0     0     0     0     0     0     0     0
## X5807     0     1     1     0     0     0     0     0     0     0     0     0
## X5903     1     0     1     1     0     0     0     1     0     0     1     1
## X5907     0     0     1     0     0     0     0     0     0     0     0     0
## X5911     0     1     0     0     0     1     0     0     1     0     0     0
## X6002     1     1     1     0     0     0     0     1     0     0     0     1
## X6101     0     0     1     0     0     0     0     0     0     0     0     0
## X6103     0     1     0     0     0     0     0     0     0     0     0     0
## X6104     0     1     0     0     0     1     0     0     1     0     0     0
## X6105     0     0     1     0     0     0     0     0     0     0     0     0
## X6106     0     1     0     0     0     1     0     0     1     0     0     0
## X6107     0     1     0     0     0     0     0     0     0     0     0     0
## X6109     0     1     0     0     0     0     0     0     0     0     0     0
## X6110     0     0     1     0     0     0     0     0     0     0     0     0
## X6111     0     1     0     0     0     0     0     0     0     0     0     0
## X6112     0     1     0     0     0     0     0     0     0     1     1     0
## X6114     0     1     0     0     0     1     0     0     1     0     0     0
## X6115     0     1     0     0     0     1     0     0     1     0     0     0
## X6117     0     0     1     0     0     0     0     0     0     0     0     0
## X6201     0     1     0     0     0     0     0     0     0     0     0     0
## X6202     0     1     0     0     0     0     0     0     0     0     0     0
## X6203     0     1     1     0     0     0     0     0     0     0     0     0
## X6204     0     1     0     0     0     0     0     0     0     0     0     0
## X6205     0     0     1     1     0     1     0     0     1     0     0     0
## X6206     0     1     0     0     0     0     0     0     0     0     0     0
## X6210     0     1     0     0     0     0     0     0     0     0     0     0
## X6211     0     1     1     0     0     0     0     0     0     0     0     0
## X6212     1     1     1     0     0     0     0     1     0     0     0     1
## X6217     0     1     0     0     0     0     0     0     0     0     0     0
## X6302     0     1     0     0     0     0     0     0     0     0     0     0
## X6303     0     1     0     0     0     0     0     0     0     0     0     0
## X6304     0     1     0     0     0     0     0     0     0     0     0     0
## X6305     1     1     1     0     0     0     0     1     0     0     1     1
## X6306     1     0     1     1     0     0     0     1     0     0     1     1
## X6307     0     1     0     0     0     0     0     0     0     0     0     0
## X6401     0     0     0     1     0     1     0     0     1     0     0     0
## X6403     0     0     0     1     0     1     0     0     1     0     0     0
## X6404     1     0     1     1     0     0     0     1     0     0     1     1
##       X8419 X8421 X8422 X8423 X8424 X8425 X8427 X8428 X8430 X8431 X8437 X8438
## X102      0     1     1     0     1     0     0     0     1     0     0     1
## X210      0     1     1     0     0     0     1     0     0     0     0     1
## X401      0     1     0     0     1     0     0     0     1     1     0     1
## X403      0     1     1     0     1     0     1     0     1     0     0     1
## X406      0     1     1     0     0     0     1     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     0     0     0     0     1     0     0     0     0     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     1     0     1     0     0     0     1     0     0     0     0
## X712      0     0     0     0     0     1     0     1     0     0     1     0
## X713      0     0     0     1     0     0     0     1     0     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     1     1     0     1     0     0     0     1     0     0     1
## X813      0     0     0     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     1     0     0     0     0     0     0     0     0     0     1
```

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## X1001     0     0     0     0     0     0     0     0     0     0     0     0
## X1003     0     0     0     0     1     0     0     0     1     1     0     1
## X1005     0     0     0     0     0     0     0     0     0     0     0     0
## X1102     0     1     0     0     0     0     0     0     0     1     0     1
## X1108     0     1     0     0     0     0     0     0     0     1     0     1
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     1     0     0     0     0     0     0     0     1     0     1
## X1213     0     1     0     0     0     0     0     0     0     0     0     0
## X1214     0     1     0     1     0     0     0     1     0     1     0     0
## X1302     0     0     0     1     0     0     0     1     0     0     0     0
## X1507     0     1     1     0     0     0     1     0     0     0     0     0
## X1514     0     1     1     0     0     0     1     0     0     0     0     0
## X1517     0     1     0     0     1     0     0     0     1     1     0     1
## X1601     0     1     1     0     0     0     1     0     0     0     0     1
## X1602     0     1     1     0     1     0     1     0     1     0     0     1
## X1704     0     0     0     0     1     0     0     0     1     0     0     1
## X1806     0     0     0     0     1     0     0     0     1     0     0     1
## X1901     0     0     0     0     1     0     1     0     1     0     0     0
## X1902     0     1     1     0     0     0     1     0     0     0     0     0
## X1905     1     0     0     0     1     0     0     0     1     0     0     0
## X2001     0     1     1     0     0     0     1     0     0     0     0     0
## X2002     0     1     1     0     0     0     1     0     0     0     0     0
## X2003     0     1     1     0     0     0     1     0     0     0     0     0
## X2004     0     1     1     0     0     0     1     0     0     0     0     0
## X2005     0     0     1     0     1     0     1     0     1     0     0     0
## X2006     0     0     1     0     1     0     0     0     1     0     0     1
## X2007     0     1     1     0     1     0     1     0     1     0     0     1
## X2008     0     0     0     0     1     0     0     0     1     0     0     1
## X2101     0     1     1     0     0     0     1     0     0     0     0     0
## X2102     0     1     1     0     1     0     0     0     1     0     0     1
## X2103     0     1     1     0     0     0     1     0     0     0     0     1
## X2104     0     1     0     0     0     0     0     0     0     0     0     1
## X2106     0     1     0     0     0     0     1     0     0     1     0     1
## X2202     0     1     0     0     0     0     1     0     0     1     0     0
## X2206     0     0     0     0     0     0     0     0     0     0     0     0
## X2208     0     0     1     0     1     0     0     0     1     0     0     1
## X2209     0     1     1     0     0     0     1     0     0     0     0     0
## X2302     0     1     0     0     0     0     0     0     0     0     0     1
## X2309     0     1     0     0     0     0     0     0     0     1     0     1
## X2402     0     1     1     0     1     0     0     0     1     0     0     1
## X2403     0     1     1     0     1     0     0     0     1     0     0     1
## X2507     0     0     0     0     0     0     0     0     0     0     0     0
## X2508     0     1     0     0     1     0     0     0     1     1     0     1
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     0     0     1     1     1     0     0     1     1     1     0     0
## X2519     0     1     0     0     0     0     0     0     0     1     0     1
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     1     1     1     0     0     0     1     0     1     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     0     1     0     1     0     0     0     1     0     0     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     1     1     0     1     0     0     0     1     0     0     1
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     1     0     0     0     0     0     0     0     0     0     1
## X2713     1     0     1     0     0     0     0     0     0     0     0     0
## X2714     1     0     1     0     0     0     0     0     0     0     0     0
## X2716     0     1     0     0     1     0     0     0     1     0     0     0
## X2804     0     1     0     0     1     0     0     0     1     1     0     1
## X2811     0     1     0     0     1     0     0     0     1     1     0     1
## X2825     0     0     0     0     0     1     0     1     0     0     1     0
## X2826     0     1     0     0     0     0     0     0     0     1     0     1
## X2832     0     1     0     0     0     0     0     0     0     1     0     1
## X2833     0     1     0     0     0     0     0     0     0     1     0     1
## X2835     0     1     0     0     0     0     0     0     0     1     0     1
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     1     0     0     1     0     0     0     1     1     0     1
## X2903     1     0     1     0     0     0     0     0     0     0     0     0
## X2907     0     1     0     0     0     0     0     0     0     1     0     1
## X2915     0     1     0     0     0     0     0     0     0     1     0     1
## X2933     0     1     0     0     0     0     0     0     0     1     0     1
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     1     0     0     0     0     0     0     0     1     0     1
## X3204     0     1     0     0     1     0     0     0     1     1     0     1
## X3205     1     0     1     0     0     0     0     0     0     0     0     0
## X3206     1     0     0     0     0     0     0     0     0     1     0     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     1     0     1     0     0     1     0     1     0     0     1     0
## X3209     1     0     1     0     0     0     0     0     0     0     0     0
```

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## X3210     0     1     0     0     0     0     0     0     0     1     0     1
## X3211     1     0     1     0     0     0     0     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     1     0     1     0     0     0     0     0     0     0     0     0
## X3215     1     0     1     0     0     0     0     0     0     0     0     0
## X3302     0     1     0     0     0     0     1     0     0     1     0     1
## X3303     0     1     1     0     1     0     0     0     1     0     0     1
## X3304     0     1     1     0     1     0     0     0     1     0     0     1
## X3305     0     0     1     0     1     0     0     0     1     0     0     1
## X3307     0     1     1     0     1     0     0     0     1     0     0     1
## X3402     0     1     1     0     1     0     1     0     1     1     0     1
## X3403     0     0     0     0     1     0     0     0     1     1     0     1
## X3506     1     1     1     0     1     0     1     0     1     0     0     1
## X3507     0     1     0     0     0     0     1     0     0     1     0     1
## X3605     0     1     0     0     0     0     0     0     0     0     0     1
## X3701     1     0     1     0     0     0     0     0     0     0     0     0
## X3707     1     0     1     0     0     0     0     0     0     0     0     0
## X3802     0     1     0     0     0     0     0     0     0     0     0     0
## X3808     0     1     1     0     1     0     0     0     1     0     0     1
## X3809     0     1     1     1     1     0     0     1     1     1     0     1
## X3810     0     0     0     0     0     1     0     1     0     0     1     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     1     0     0     0     0     0     0     0     0     1     0     0
## X3815     0     1     0     0     0     0     0     0     0     1     0     1
## X3816     0     1     1     0     1     0     0     0     1     0     0     1
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     1     0     0     0     0     0     0     0     0     0     1
## X3902     0     1     0     0     0     0     0     0     0     1     0     1
## X3908     0     1     1     0     1     0     1     0     1     0     0     1
## X3909     0     1     0     0     0     0     0     0     0     1     0     1
## X3910     0     1     0     0     0     0     0     0     0     1     0     1
## X3911     0     1     0     0     0     0     0     0     0     1     0     1
## X3915     0     1     0     0     0     0     0     0     0     1     0     1
## X3916     1     0     1     0     0     0     0     0     0     0     0     0
## X3917     0     1     1     1     1     0     0     1     1     1     0     1
## X3919     1     0     0     0     0     0     0     0     0     1     0     0
## X3920     1     1     0     0     0     0     0     0     0     1     0     1
## X3921     1     0     0     0     0     0     0     0     0     1     0     0
## X3923     0     0     1     0     0     0     1     0     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     1     0     0     0     0     0     0     0     1     0     1
## X3926     0     1     0     0     1     0     0     0     1     1     0     1
## X4001     1     0     1     0     0     0     0     0     0     0     0     0
## X4005     0     1     0     0     0     0     0     0     0     0     0     1
## X4006     0     1     0     0     0     0     0     0     0     0     0     1
## X4008     0     1     1     0     1     0     0     0     1     0     0     1
## X4009     0     1     0     0     0     0     0     0     0     0     0     1
## X4010     0     1     1     1     0     0     1     1     0     1     0     0
## X4012     0     1     0     0     0     0     0     0     0     0     0     1
## X4013     0     1     0     0     0     0     0     0     0     0     0     1
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     1     0     0     0     0     0     0     0     0     0     1
## X4202     1     0     0     0     0     0     0     0     0     1     0     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     1     0     0     0     0     1     0     0     1     0     0
## X4415     0     1     0     0     0     0     1     0     0     1     0     1
## X4416     0     1     0     1     0     0     0     1     0     1     0     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     0
## X4421     0     0     1     0     1     0     0     0     1     0     0     1
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     1     0     0     0     0     0     0     0     1     0     1
## X4808     1     1     0     0     0     0     0     0     0     1     0     0
## X4818     1     0     1     0     0     0     0     0     0     0     0     0
## X4819     0     1     1     0     0     0     1     0     0     0     0     0
## X4821     1     0     1     0     0     0     1     0     0     0     0     0
## X4822     0     1     0     0     0     0     0     0     0     1     0     1
## X4823     0     1     0     0     0     0     0     0     0     1     0     1
## X4901     0     1     1     0     1     0     0     0     1     0     0     1
## X4902     0     1     1     0     1     0     0     0     1     0     0     1
## X4907     0     1     1     0     1     0     0     0     1     0     0     1
## X4911     0     1     1     0     1     0     1     0     1     0     0     1
## X5111     0     0     0     0     0     0     0     0     0     1     0     1
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     1     0     1     0     0     0     0     0     0     0     0     0
## X5206     1     0     1     0     0     0     0     0     0     0     0     0
## X5208     1     0     1     0     0     0     0     0     0     0     0     0
## X5209     1     0     1     0     0     0     1     0     0     0     0     0
```

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## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     1     0     1     0     0     0     0     0     0     0     0     0
## X5402     1     0     1     0     0     0     0     0     0     0     0     0
## X5407     1     0     1     0     1     0     0     0     1     1     0     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     0
## X5508     0     1     1     0     1     0     1     0     1     0     0     0
## X5509     1     0     1     0     0     0     0     0     0     0     0     0
## X5511     0     0     0     0     0     0     0     0     0     0     0     0
## X5512     0     0     1     0     0     0     1     0     0     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     1     0     1     0     0     0     0     0     0     0     0     0
## X5515     0     1     1     0     0     0     1     0     0     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     1     1     0     1     0     0     0     1     0     0     1
## X5603     0     1     0     0     0     0     1     0     0     1     0     0
## X5609     0     0     0     0     0     0     0     0     0     0     0     0
## X5806     1     0     1     0     0     0     1     0     0     0     0     0
## X5807     1     0     1     0     0     0     1     0     0     0     0     0
## X5903     0     1     0     0     0     0     0     0     0     1     0     1
## X5907     0     1     1     0     0     0     1     0     0     0     0     0
## X5911     1     0     0     0     0     0     0     0     0     0     0     0
## X6002     1     0     1     0     1     0     1     0     1     0     0     0
## X6101     0     1     1     0     0     0     1     0     0     0     0     0
## X6103     1     0     1     0     0     0     0     0     0     0     0     0
## X6104     1     0     1     0     1     0     0     0     1     0     0     0
## X6105     0     1     1     0     0     0     1     0     0     0     0     0
## X6106     1     0     1     0     1     0     0     0     1     0     0     0
## X6107     1     0     1     0     0     0     0     0     0     0     0     0
## X6109     1     0     1     0     0     0     0     0     0     0     0     0
## X6110     0     1     1     0     0     0     1     0     0     0     0     0
## X6111     1     0     1     0     0     0     0     0     0     0     0     0
## X6112     1     0     1     1     0     0     0     1     0     1     0     0
## X6114     1     0     0     0     0     0     0     0     0     0     0     0
## X6115     1     0     1     0     1     0     0     0     1     0     0     0
## X6117     0     1     1     0     0     0     1     0     0     0     0     0
## X6201     1     0     1     0     0     0     0     0     0     0     0     0
## X6202     1     0     1     0     0     0     0     0     0     0     0     0
## X6203     1     0     1     0     0     0     1     0     0     0     0     0
## X6204     1     0     1     0     0     0     0     0     0     0     0     0
## X6205     0     1     1     0     1     0     1     0     1     0     0     1
## X6206     1     0     1     0     1     0     0     0     1     0     0     0
## X6210     1     0     1     0     0     0     0     0     0     0     0     0
## X6211     1     0     1     0     0     0     1     0     0     0     0     0
## X6212     1     0     1     0     0     0     1     0     0     1     0     0
## X6217     1     0     1     0     0     0     0     0     0     0     0     0
## X6302     1     0     1     0     0     0     0     0     0     0     0     0
## X6303     1     0     1     0     0     0     0     0     0     0     0     0
## X6304     1     0     1     0     0     0     0     0     0     0     0     0
## X6305     1     0     0     0     0     0     0     0     0     1     0     0
## X6306     0     1     0     0     0     0     0     0     0     1     0     1
## X6307     1     0     1     0     0     0     0     0     0     0     0     0
## X6401     0     1     1     0     1     0     0     0     1     0     0     1
## X6403     0     0     1     0     1     0     0     0     1     0     0     1
## X6404     0     1     0     0     0     0     0     0     0     1     0     1
##       X8439 X8441 X8445 X8447 X8450 X8451 X8452 X8455 X8456 X8460 X8466 X8467
## X102      0     0     0     0     0     0     0     0     0     0     0     0
## X210      0     0     0     0     1     0     1     0     0     0     0     0
## X401      0     0     0     0     0     0     0     0     0     0     0     0
## X403      0     0     0     0     1     0     1     0     0     0     0     0
## X406      0     0     0     0     1     0     1     0     0     0     1     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     1     0     1     0     1     0     0     0     1     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     0     1     0     0     0     0     0     0     0     1     0
## X712      1     0     0     0     0     0     0     1     0     0     0     1
## X713      0     0     0     0     0     0     0     0     0     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     0     0     0     0     0     0     0     0     0
## X813      0     0     1     0     0     0     0     0     0     0     1     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     0     0     0
## X1001     0     0     0     0     0     0     0     0     0     0     0     0
## X1003     0     0     0     0     0     0     0     0     0     0     0     0
## X1005     0     0     0     0     0     0     0     0     0     0     0     0
```

```
## X1102     0     0     0     0     0     0     0     0     0     0     0     0
## X1108     0     0     0     0     0     0     0     0     0     0     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     0     0     0     0     0     0     0     0     0     0
## X1213     0     0     0     0     0     0     0     0     0     0     0     0
## X1214     0     0     1     0     0     1     0     0     0     0     1     0
## X1302     0     0     1     0     0     1     0     0     0     0     1     0
## X1507     0     0     0     0     1     0     1     0     0     0     1     0
## X1514     0     0     0     0     1     0     1     0     0     0     1     0
## X1517     0     0     0     0     0     0     0     0     0     0     0     0
## X1601     0     0     0     0     1     0     1     0     0     0     0     0
## X1602     0     0     0     0     1     0     1     0     0     0     0     0
## X1704     0     0     1     0     0     0     0     0     0     0     0     0
## X1806     0     0     1     0     0     0     0     0     0     0     0     0
## X1901     0     0     1     0     1     0     1     0     0     0     0     0
## X1902     0     0     0     0     1     0     1     0     0     0     1     0
## X1905     0     1     1     1     0     0     0     0     1     1     0     0
## X2001     0     0     0     0     1     0     1     0     0     0     1     0
## X2002     0     0     0     0     1     0     1     0     0     0     1     0
## X2003     0     0     0     0     1     0     1     0     0     0     1     0
## X2004     0     0     0     0     1     0     1     0     0     0     1     0
## X2005     0     0     1     0     1     0     1     0     0     0     1     0
## X2006     0     0     0     0     0     0     0     0     0     0     0     0
## X2007     0     0     0     0     1     0     1     0     0     0     1     0
## X2008     0     0     1     0     0     0     0     0     0     0     0     0
## X2101     0     0     0     0     1     0     1     0     0     0     1     0
## X2102     0     0     0     0     0     0     0     0     0     0     0     0
## X2103     0     0     0     0     1     0     1     0     0     0     0     0
## X2104     0     0     0     0     0     0     0     0     0     0     0     0
## X2106     0     0     0     0     1     0     1     0     0     0     0     0
## X2202     0     0     0     0     1     0     1     0     0     0     0     0
## X2206     0     0     1     0     0     0     0     0     0     0     1     0
## X2208     0     0     0     0     0     1     0     0     0     0     0     0
## X2209     0     0     0     0     1     0     1     0     0     0     1     0
## X2302     0     0     0     0     0     0     0     0     0     0     0     0
## X2309     0     0     0     0     0     0     0     0     0     0     0     0
## X2402     0     0     0     0     0     0     0     0     0     0     0     0
## X2403     0     0     0     0     0     0     0     0     0     0     0     0
## X2507     0     0     1     0     0     0     0     0     0     0     1     0
## X2508     0     0     0     0     0     0     0     0     0     0     0     0
## X2512     0     0     0     0     0     1     0     0     0     0     0     0
## X2517     0     0     1     0     0     0     0     0     0     0     0     0
## X2519     0     0     0     0     0     0     0     0     0     0     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     1     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     0     0     0     0     0     0     0     0     0     0     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     0     0     0     0     0     0     0     0     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     0     0
## X2713     0     1     0     1     0     0     0     0     1     1     1     0
## X2714     0     1     0     1     0     0     0     0     1     1     1     0
## X2716     0     0     0     0     0     1     0     0     0     0     0     0
## X2804     0     0     0     0     0     0     0     0     0     0     0     0
## X2811     0     0     0     0     0     0     0     0     0     0     0     0
## X2825     1     0     0     0     0     0     0     1     0     0     0     1
## X2826     0     0     0     0     0     0     0     0     0     0     0     0
## X2832     0     0     0     0     0     0     0     0     0     0     0     0
## X2833     0     0     0     0     0     0     0     0     0     0     0     0
## X2835     0     0     0     0     0     0     0     0     0     0     0     0
## X2836     0     0     0     0     0     0     0     0     0     0     1     0
## X2901     0     0     0     0     0     0     0     0     0     0     0     0
## X2903     0     1     0     1     0     0     0     0     1     1     1     0
## X2907     0     0     0     0     0     0     0     0     0     0     0     0
## X2915     0     0     0     0     0     0     0     0     0     0     0     0
## X2933     0     0     0     0     0     0     0     0     0     0     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     0     0     0     0     0     0     0     0     0     0
## X3204     0     0     0     0     0     0     0     0     0     0     0     0
## X3205     0     1     0     1     0     0     0     0     1     1     1     0
## X3206     0     1     0     1     0     0     0     0     1     1     0     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     1     1     0     1     0     0     0     1     1     1     0     1
## X3209     0     1     0     1     0     0     0     0     1     1     1     0
## X3210     0     0     0     0     0     0     0     0     0     0     0     0
## X3211     0     1     0     1     0     0     0     0     1     1     1     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
```

```
## X3214     0     1     0     1     0     0     0     0     1     1     1     0
## X3215     0     1     0     1     0     0     0     0     1     1     1     0
## X3302     0     0     0     0     1     0     1     0     0     0     1     0
## X3303     0     0     0     0     0     0     0     0     0     0     0     0
## X3304     0     0     0     0     0     0     0     0     0     0     0     0
## X3305     0     0     0     0     0     0     0     0     0     0     0     0
## X3307     0     0     0     0     0     0     0     0     0     0     0     0
## X3402     0     0     0     0     1     0     1     0     0     0     0     0
## X3403     0     0     0     0     0     0     0     0     0     0     1     0
## X3506     0     1     0     1     1     0     1     0     1     1     0     0
## X3507     0     0     0     0     1     0     1     0     0     0     1     0
## X3605     0     0     0     0     0     0     0     0     0     0     0     0
## X3701     0     1     0     1     0     0     0     0     1     1     1     0
## X3707     0     1     0     1     0     0     0     0     1     1     1     0
## X3802     0     0     0     0     0     0     0     0     0     0     1     0
## X3808     0     0     0     0     0     0     0     0     0     0     0     0
## X3809     0     0     0     0     0     0     0     0     0     0     1     0
## X3810     1     0     0     0     0     0     0     1     0     0     0     1
## X3811     0     0     0     0     0     0     0     0     0     0     1     0
## X3814     0     1     0     1     0     0     0     0     1     1     0     0
## X3815     0     0     0     0     0     0     0     0     0     0     0     0
## X3816     0     0     0     0     0     0     0     0     0     0     0     0
## X3819     0     0     0     0     0     0     0     0     0     0     1     0
## X3820     0     0     0     0     0     0     0     0     0     0     1     0
## X3823     0     0     0     0     0     0     0     0     0     0     0     0
## X3902     0     0     0     0     0     0     0     0     0     0     0     0
## X3908     0     0     0     0     1     0     1     0     0     0     1     0
## X3909     0     0     0     0     0     0     0     0     0     0     0     0
## X3910     0     0     0     0     0     0     0     0     0     0     0     0
## X3911     0     0     0     0     0     0     0     0     0     0     0     0
## X3915     0     0     0     0     0     0     0     0     0     0     0     0
## X3916     0     1     0     1     0     0     0     0     1     1     1     0
## X3917     0     0     1     0     0     0     0     0     0     0     1     0
## X3919     0     1     0     1     0     0     0     0     1     1     0     0
## X3920     0     1     0     1     0     0     0     0     1     1     0     0
## X3921     0     1     0     1     0     0     0     0     1     1     1     0
## X3923     0     0     1     0     1     0     1     0     0     0     1     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     0     0     0     0     0     0     0     0     0     0
## X3926     0     0     0     0     0     0     0     0     0     0     1     0
## X4001     0     1     0     1     0     0     0     0     1     1     1     0
## X4005     0     0     0     0     0     0     0     0     0     0     0     0
## X4006     0     0     0     0     0     0     0     0     0     0     0     0
## X4008     0     0     0     0     0     0     0     0     0     0     0     0
## X4009     0     0     0     0     0     0     0     0     0     0     0     0
## X4010     0     0     1     0     1     0     1     0     0     0     1     0
## X4012     0     0     0     0     0     0     0     0     0     0     0     0
## X4013     0     0     0     0     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     1     0
## X4016     0     0     0     0     0     0     0     0     0     0     1     0
## X4202     0     1     0     1     0     0     0     0     1     1     0     0
## X4203     0     0     0     0     0     0     0     0     0     0     1     0
## X4409     0     0     1     0     1     0     1     0     0     0     1     0
## X4415     0     0     0     0     1     0     1     0     0     0     0     0
## X4416     0     0     1     0     0     1     0     0     0     0     1     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     1     0     0     0     0     0     0     0     1     0
## X4421     0     0     1     0     0     0     0     0     0     0     1     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     0     0     0     0     0     0     0     0     0
## X4808     0     1     0     1     0     0     0     0     1     1     1     0
## X4818     0     1     0     1     0     0     0     0     1     1     1     0
## X4819     0     0     0     0     1     0     1     0     0     0     1     0
## X4821     0     1     0     1     1     0     1     0     1     1     1     0
## X4822     0     0     0     0     0     0     0     0     0     0     0     0
## X4823     0     0     0     0     0     0     0     0     0     0     1     0
## X4901     0     0     0     0     0     0     0     0     0     0     0     0
## X4902     0     0     0     0     0     0     0     0     0     0     0     0
## X4907     0     0     0     0     0     0     0     0     0     0     0     0
## X4911     0     0     0     0     1     0     1     0     0     0     1     0
## X5111     0     0     0     0     0     1     0     0     0     0     0     0
## X5112     0     0     0     0     0     1     0     0     0     0     0     0
## X5205     0     1     0     1     0     0     0     0     1     1     1     0
## X5206     0     1     0     1     0     0     0     0     1     1     1     0
## X5208     0     1     0     1     0     0     0     0     1     1     1     0
## X5209     0     1     0     1     1     0     1     0     1     1     1     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     1     0     1     0     0     0     0     1     1     1     0
## X5402     0     1     0     1     0     0     0     0     1     1     1     0
```

```
## X5407     0     1     0     1     0     0     0     0     1     1     0     0
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     1     0     0     0     0     0     0     0     1     0
## X5508     0     0     0     0     1     0     1     0     0     0     1     0
## X5509     0     1     1     1     0     0     0     0     1     1     1     0
## X5511     0     0     1     0     0     0     0     0     0     0     1     0
## X5512     0     0     1     0     1     0     1     0     0     0     1     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     1     0     1     0     0     0     0     1     1     1     0
## X5515     0     0     0     0     1     1     1     0     0     0     1     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     0     0     0     0     0     0     0     0     0     0     0
## X5603     0     0     0     0     1     0     1     0     0     0     0     0
## X5609     0     0     1     0     0     0     0     0     0     0     1     0
## X5806     0     1     0     1     1     0     1     0     1     1     1     0
## X5807     0     1     0     1     1     0     1     0     1     1     1     0
## X5903     0     0     0     0     0     0     0     0     0     0     0     0
## X5907     0     0     0     0     1     0     1     0     0     0     1     0
## X5911     0     1     1     1     0     1     0     0     1     1     1     0
## X6002     0     1     0     1     1     0     1     0     1     1     0     0
## X6101     0     0     0     0     1     0     1     0     0     0     1     0
## X6103     0     1     0     1     0     0     0     0     1     1     1     0
## X6104     0     1     0     1     0     0     0     0     1     1     0     0
## X6105     0     0     0     0     1     0     1     0     0     0     1     0
## X6106     0     1     0     1     0     0     0     0     1     1     0     0
## X6107     0     1     0     1     0     0     0     0     1     1     1     0
## X6109     0     1     0     1     0     0     0     0     1     1     1     0
## X6110     0     0     1     0     1     0     1     0     0     0     1     0
## X6111     0     1     0     1     0     0     0     0     1     1     1     0
## X6112     0     1     0     1     0     0     0     0     1     1     1     0
## X6114     0     1     1     1     0     1     0     0     1     1     1     0
## X6115     0     1     0     1     0     0     0     0     1     1     0     0
## X6117     0     0     0     0     1     0     1     0     0     0     1     0
## X6201     0     1     0     1     0     0     0     0     1     1     1     0
## X6202     0     1     0     1     0     0     0     0     1     1     1     0
## X6203     0     1     0     1     1     0     1     0     1     1     1     0
## X6204     0     1     0     1     0     0     0     0     1     1     1     0
## X6205     0     0     0     0     1     0     1     0     0     0     1     0
## X6206     0     1     1     1     0     0     0     0     1     1     1     0
## X6210     0     1     0     1     0     0     0     0     1     1     1     0
## X6211     0     1     0     1     1     0     1     0     1     1     1     0
## X6212     0     1     0     1     1     0     1     0     1     1     1     0
## X6217     0     1     0     1     0     0     0     0     1     1     1     0
## X6302     0     1     0     1     0     0     0     0     1     1     1     0
## X6303     0     1     0     1     0     0     0     0     1     1     1     0
## X6304     0     1     0     1     0     0     0     0     1     1     1     0
## X6305     0     1     0     1     0     0     0     0     1     1     0     0
## X6306     0     0     0     0     0     0     0     0     0     0     0     0
## X6307     0     1     0     1     0     0     0     0     1     1     1     0
## X6401     0     0     0     0     0     0     0     0     0     0     0     0
## X6403     0     0     0     0     0     0     0     0     0     0     1     0
## X6404     0     0     0     0     0     0     0     0     0     0     0     0
##       X8468 X8471 X8474 X8475 X8477 X8479 X8480 X8481 X8483 X8484 X8485 X8501
## X102      0     0     0     0     0     0     0     0     1     0     1     1
## X210      1     1     0     1     1     0     0     0     0     0     1     0
## X401      0     0     1     0     0     0     0     1     1     0     1     1
## X403      1     1     0     1     1     0     0     0     1     0     1     0
## X406      0     1     0     1     0     0     0     0     0     0     1     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     1     0     1     0     0     0     0     0     0     1     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     0     0     1     0     1     0     1     1     0     0     0
## X712      0     0     0     0     0     1     1     0     0     1     0     1
## X713      0     0     0     1     0     0     0     1     1     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     1     0
## X805      0     0     0     0     0     0     0     0     0     0     1     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     0     0     0     0     0     0     1     0     1     1
## X813      0     0     0     0     0     1     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      1     0     0     0     1     0     0     0     0     0     0     0
## X1001     0     0     0     1     0     0     0     1     1     0     0     0
## X1003     0     0     1     0     0     0     0     0     0     0     0     1
## X1005     0     0     0     0     0     0     0     0     0     0     1     0
## X1102     0     0     1     0     0     1     0     1     0     0     0     1
## X1108     0     0     1     0     0     1     0     1     0     0     0     1
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
```

```
## X1208     0     0     1     0     0     1     0     1     0     0     0     1
## X1213     0     0     0     1     0     0     0     1     1     0     0     0
## X1214     0     0     1     1     0     1     0     1     1     0     0     0
## X1302     0     0     0     1     0     1     0     1     1     0     0     0
## X1507     0     1     0     1     0     0     0     0     0     0     1     0
## X1514     0     1     0     1     0     0     0     0     0     0     1     0
## X1517     0     0     1     0     0     0     0     1     1     0     1     1
## X1601     1     1     0     1     1     0     0     0     0     0     1     0
## X1602     1     1     0     1     1     0     0     0     1     0     1     0
## X1704     1     0     0     0     1     0     0     0     0     0     1     0
## X1806     1     0     0     0     1     0     0     0     0     0     0     0
## X1901     0     1     0     1     0     0     0     0     0     0     1     0
## X1902     0     1     0     1     0     0     0     0     0     0     1     0
## X1905     0     0     0     0     0     0     0     0     0     0     0     0
## X2001     0     1     0     1     0     0     0     0     0     0     1     0
## X2002     0     1     0     1     0     0     0     0     0     0     1     0
## X2003     0     1     0     1     0     0     0     0     0     0     1     0
## X2004     0     1     0     1     0     0     0     0     0     0     1     0
## X2005     0     1     0     1     0     0     0     0     0     0     1     0
## X2006     0     0     0     0     0     0     0     0     1     0     1     1
## X2007     0     1     0     1     0     0     0     0     1     0     1     0
## X2008     1     0     0     0     1     0     0     0     0     0     0     0
## X2101     0     1     0     1     0     0     0     0     0     0     1     0
## X2102     1     0     0     0     1     0     0     0     1     0     1     1
## X2103     1     1     0     1     1     0     0     0     0     0     1     0
## X2104     1     0     0     0     1     0     0     0     0     0     0     0
## X2106     1     1     1     1     1     0     0     1     0     0     1     0
## X2202     0     1     1     1     0     0     0     1     0     0     1     0
## X2206     0     0     0     0     0     1     0     0     0     0     0     0
## X2208     0     0     0     0     0     1     0     0     1     0     1     1
## X2209     0     1     0     1     0     0     0     0     0     0     1     0
## X2302     1     0     0     0     1     0     0     0     0     0     0     0
## X2309     0     0     1     0     0     1     0     1     0     0     0     1
## X2402     0     0     0     0     0     0     0     0     1     0     1     1
## X2403     0     0     0     0     0     0     0     0     1     0     1     1
## X2507     0     0     0     0     0     1     0     0     0     0     0     0
## X2508     0     0     1     0     0     0     0     1     1     0     1     1
## X2512     0     0     0     0     0     1     0     0     0     0     0     0
## X2517     0     0     1     0     0     1     0     0     1     0     0     1
## X2519     0     0     1     0     0     1     0     1     0     0     0     1
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     1     0     0     1     0     1     1     0     0     1
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     0     0     0     0     0     0     0     1     0     1     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     0     0     0     0     0     1     0     1     1
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     1     0     0     0     1     0     0     0     0     0     0     0
## X2713     0     0     0     0     0     0     0     0     0     0     0     0
## X2714     0     0     0     0     0     0     0     0     0     0     0     0
## X2716     0     0     0     1     0     1     0     1     1     0     1     0
## X2804     1     0     1     0     1     0     0     1     0     0     0     1
## X2811     1     0     1     0     1     0     0     1     0     0     0     1
## X2825     0     0     0     0     0     1     1     0     0     1     0     1
## X2826     0     0     1     0     0     1     0     1     0     0     0     1
## X2832     0     0     1     0     0     1     0     1     0     0     0     1
## X2833     0     0     1     0     0     1     0     1     0     0     0     1
## X2835     0     0     1     0     0     1     0     1     0     0     0     1
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     1     0     1     0     1     0     0     1     0     0     0     1
## X2903     0     0     0     1     0     1     0     1     1     0     0     0
## X2907     0     0     1     0     0     1     0     1     0     0     0     1
## X2915     0     0     1     0     0     1     0     1     0     0     0     1
## X2933     0     0     1     0     0     1     0     1     0     0     0     1
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     1     0     0     1     0     1     0     0     0     1
## X3204     0     0     1     0     0     0     0     1     1     0     1     1
## X3205     0     0     0     0     0     0     0     0     0     0     0     0
## X3206     0     0     1     0     0     0     0     1     0     0     0     0
## X3207     0     0     0     1     0     0     0     0     0     0     0     0
## X3208     0     0     0     1     0     1     1     0     0     1     0     1
## X3209     0     0     0     0     0     0     0     0     0     0     0     0
## X3210     0     0     1     0     0     1     0     1     0     0     0     1
## X3211     0     0     0     0     0     0     0     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     0     1     0     1     0     1     1     0     0     0
## X3215     0     0     0     0     0     0     0     0     0     0     0     0
## X3302     0     1     1     1     0     1     0     1     0     0     1     0
```

```
## X3303     0     0     0     0     0     0     0     0     1     0     1     1
## X3304     0     0     0     0     0     0     0     0     1     0     1     1
## X3305     0     0     0     0     0     0     0     0     1     0     1     1
## X3307     0     0     0     0     0     0     0     0     1     0     1     1
## X3402     0     1     1     1     0     0     0     0     0     0     1     1
## X3403     0     0     1     0     0     0     0     1     1     0     1     1
## X3506     1     1     0     1     1     0     0     0     0     0     1     0
## X3507     0     1     1     1     0     1     0     1     0     0     1     0
## X3605     1     0     0     0     1     0     0     0     0     0     0     0
## X3701     0     0     0     0     0     0     0     0     0     0     0     0
## X3707     0     0     0     0     0     0     0     0     0     0     0     0
## X3802     0     0     0     1     0     1     0     1     1     0     0     0
## X3808     0     0     0     0     0     0     0     0     1     0     1     1
## X3809     0     0     1     0     0     1     0     1     1     0     0     1
## X3810     0     0     0     0     0     1     1     0     0     1     0     1
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     0     1     0     0     0     0     1     0     0     0     0
## X3815     0     0     1     0     0     1     0     1     0     0     0     1
## X3816     0     0     0     0     0     0     0     0     1     0     1     1
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     1     0     0     0     1     0     0     0     0     0     0     0
## X3902     0     0     1     0     0     1     0     1     0     0     0     1
## X3908     0     1     0     1     0     0     0     0     1     0     1     0
## X3909     0     0     1     0     0     1     0     1     0     0     0     1
## X3910     0     0     1     0     0     1     0     1     0     0     0     1
## X3911     0     0     1     0     0     1     0     1     0     0     0     1
## X3915     0     0     1     0     0     1     0     1     0     0     0     1
## X3916     0     0     0     0     0     0     0     0     0     0     0     0
## X3917     0     0     1     0     0     1     0     1     1     0     0     1
## X3919     0     0     1     0     0     0     0     1     0     0     0     0
## X3920     1     0     1     0     1     0     0     1     0     0     0     0
## X3921     0     0     1     0     0     0     0     1     0     0     0     0
## X3923     0     1     0     1     0     1     0     0     0     0     1     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     1     0     0     1     0     1     0     0     0     1
## X3926     0     0     1     1     0     1     0     1     1     0     0     1
## X4001     0     0     0     0     0     0     0     0     0     0     0     0
## X4005     1     0     0     0     1     0     0     0     0     0     0     0
## X4006     1     0     0     0     1     0     0     0     0     0     0     0
## X4008     0     0     0     0     0     0     0     0     1     0     1     1
## X4009     1     0     0     0     1     0     0     0     0     0     0     0
## X4010     0     1     1     1     0     1     0     1     1     0     1     1
## X4012     1     0     0     0     1     0     0     0     0     0     0     0
## X4013     1     0     0     0     1     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     1     0     0     0     1     0     0     0     0     0     0     0
## X4202     0     0     1     0     0     0     0     1     0     0     0     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     1     1     1     0     1     0     1     0     0     1     0
## X4415     1     1     1     1     1     0     0     1     0     0     1     0
## X4416     0     0     1     0     0     1     0     1     1     0     0     1
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     0     1     0     0     0     0     0     0
## X4421     0     0     0     0     0     1     0     0     1     0     1     1
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     1     0     0     1     0     1     0     0     0     1
## X4808     0     0     1     1     0     1     0     1     1     0     0     0
## X4818     0     0     0     0     0     0     0     0     0     0     0     0
## X4819     0     1     0     1     0     0     0     0     0     0     1     0
## X4821     0     1     0     1     0     0     0     0     0     0     1     0
## X4822     0     0     1     0     0     1     0     1     0     0     0     1
## X4823     0     0     1     1     0     1     0     1     1     0     0     1
## X4901     0     0     0     0     0     0     0     0     1     0     1     1
## X4902     0     0     0     0     0     0     0     0     1     0     1     1
## X4907     0     0     0     0     0     0     0     0     1     0     1     1
## X4911     0     1     0     1     0     0     0     0     1     0     1     0
## X5111     0     0     1     0     0     1     0     1     0     0     0     1
## X5112     0     0     0     0     0     1     0     0     0     0     0     0
## X5205     0     0     0     0     0     0     0     0     0     0     0     0
## X5206     0     0     0     0     0     0     0     0     0     0     0     0
## X5208     0     0     0     0     0     0     0     0     0     0     0     0
## X5209     0     1     0     1     0     0     0     0     0     0     1     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     0     0     0     0     0     0     0     0     0     0     0
## X5402     0     0     0     1     0     1     0     1     1     0     0     0
## X5407     0     0     1     0     0     0     0     0     0     0     0     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     1     0     0     0     0     0     0
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```
## X5508     0     1     0     1     0     0     0     1     1     0     1     0
## X5509     0     0     0     0     0     1     0     0     0     0     0     0
## X5511     0     0     0     0     0     1     0     0     0     0     0     0
## X5512     0     1     0     1     0     1     0     0     0     0     1     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     0     0     0     0     0     0     0     0     0     0     0
## X5515     0     1     0     1     0     1     0     0     0     0     1     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     0     0     0     0     0     0     0     1     0     1     1
## X5603     0     1     1     1     0     0     0     1     0     0     1     0
## X5609     0     0     0     0     0     1     0     0     0     0     0     0
## X5806     0     1     0     1     0     0     0     0     0     0     1     0
## X5807     0     1     0     1     0     0     0     0     0     0     1     0
## X5903     0     0     1     0     0     1     0     1     0     0     0     1
## X5907     0     1     0     1     0     0     0     0     0     0     1     0
## X5911     0     0     0     0     0     1     0     0     0     0     0     0
## X6002     0     1     0     1     0     0     0     0     0     0     1     0
## X6101     0     1     0     1     0     0     0     0     0     0     1     0
## X6103     0     0     0     0     0     0     0     0     0     0     0     0
## X6104     0     0     0     0     0     0     0     0     1     0     1     0
## X6105     0     1     0     1     0     0     0     0     0     0     1     0
## X6106     0     0     0     0     0     0     0     0     1     0     1     0
## X6107     0     0     0     0     0     0     0     0     0     0     0     0
## X6109     0     0     0     0     0     0     0     0     0     0     0     0
## X6110     0     1     0     1     0     1     0     0     0     0     1     0
## X6111     0     0     0     0     0     0     0     0     0     0     0     0
## X6112     0     0     1     0     0     1     0     1     1     0     0     1
## X6114     0     0     0     0     0     1     0     0     0     0     0     0
## X6115     0     0     0     0     0     0     0     0     1     0     1     0
## X6117     0     1     0     1     0     0     0     0     0     0     1     0
## X6201     0     0     0     0     0     0     0     0     0     0     0     0
## X6202     0     0     0     0     0     0     0     0     0     0     0     0
## X6203     0     1     0     1     0     0     0     0     0     0     1     0
## X6204     0     0     0     0     0     0     0     0     0     0     0     0
## X6205     0     1     0     1     0     0     0     0     1     0     1     0
## X6206     0     0     0     0     0     0     0     0     1     0     1     0
## X6210     0     0     0     0     0     0     0     0     0     0     0     0
## X6211     0     1     0     1     0     0     0     0     0     0     1     0
## X6212     0     1     1     1     0     0     0     0     0     0     0     0
## X6217     0     0     0     0     0     0     0     0     0     0     0     0
## X6302     0     0     0     0     0     0     0     0     0     0     0     0
## X6303     0     0     0     0     0     0     0     0     0     0     0     0
## X6304     0     0     0     0     0     0     0     0     0     0     0     0
## X6305     0     0     1     0     0     0     0     1     0     0     0     0
## X6306     0     0     1     0     0     1     0     1     0     0     0     1
## X6307     0     0     0     0     0     0     0     0     0     0     0     0
## X6401     0     0     0     0     0     0     0     0     1     0     1     1
## X6403     0     0     0     0     0     0     0     0     1     0     1     1
## X6404     0     0     1     0     0     1     0     1     0     0     0     1
##       X8503 X8504 X8509 X8511 X8512 X8514 X8515 X8516 X8517 X8518 X8519 X8521
## X102      1     0     0     1     0     0     1     1     1     0     0     1
## X210      0     0     0     0     0     0     1     0     1     0     0     0
## X401      1     1     1     1     1     1     1     1     1     0     1     1
## X403      1     0     0     1     0     0     1     0     1     0     0     1
## X406      0     0     0     0     0     0     0     0     1     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      1     0     0     0     0     0     0     0     1     0     0     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     0     0     0     0     0     0     0     0     0     0     0
## X712      0     0     0     0     0     1     0     0     0     0     0     0
## X713      1     0     0     0     0     0     0     0     0     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      1     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      1     0     0     1     0     0     1     1     1     0     0     1
## X813      0     0     0     0     0     0     0     0     0     0     0     0
## X901      1     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     1     0     0     0     0     0
## X1001     1     0     0     0     0     0     0     0     0     0     0     0
## X1003     0     0     1     0     1     1     1     1     0     0     1     1
## X1005     0     0     0     0     0     0     0     0     0     0     0     0
## X1102     1     1     1     0     1     1     1     1     0     0     1     0
## X1108     1     1     1     0     1     1     1     1     0     0     1     0
## X1202     1     0     0     0     0     0     0     0     0     0     0     0
## X1208     1     1     1     0     1     1     1     1     0     0     1     0
## X1213     1     0     0     0     0     0     0     0     0     0     0     0
## X1214     1     0     0     0     0     0     0     0     0     0     0     0
```

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## X1302     1     0     0     0     0     0     0     0     0     0     0     0
## X1507     0     0     0     0     0     0     0     0     1     0     0     0
## X1514     0     0     0     0     0     0     0     0     1     0     0     0
## X1517     1     1     1     1     1     1     1     1     1     0     1     1
## X1601     0     0     0     0     0     0     1     0     1     0     0     0
## X1602     0     0     0     1     0     0     1     0     1     0     0     1
## X1704     1     0     0     0     0     0     1     0     1     0     0     1
## X1806     1     0     1     0     1     0     1     1     0     0     1     1
## X1901     1     0     1     0     1     0     0     0     1     0     1     1
## X1902     0     0     0     0     0     0     0     0     1     0     0     0
## X1905     1     1     1     1     1     0     0     0     0     1     1     1
## X2001     0     0     0     0     0     0     0     0     1     0     0     0
## X2002     0     0     0     0     0     0     0     0     1     0     0     0
## X2003     0     0     0     0     0     0     0     0     1     0     0     0
## X2004     0     0     0     0     0     0     0     0     1     0     0     0
## X2005     1     0     0     0     0     0     0     0     1     0     0     1
## X2006     1     0     0     1     0     0     1     1     1     0     0     1
## X2007     0     0     0     1     0     0     1     1     1     0     0     1
## X2008     1     0     1     0     1     0     1     0     0     0     1     1
## X2101     0     0     0     0     0     0     0     0     1     0     0     0
## X2102     0     0     0     1     0     0     1     1     1     0     0     1
## X2103     0     0     0     0     0     0     1     0     1     0     0     0
## X2104     0     0     0     0     0     0     1     0     0     0     0     0
## X2106     0     1     1     0     1     1     1     0     1     0     1     0
## X2202     0     1     1     0     1     1     0     0     1     0     1     0
## X2206     0     0     0     0     0     0     0     0     0     0     0     0
## X2208     1     0     0     1     0     0     1     1     1     0     0     1
## X2209     0     0     0     0     0     0     0     0     1     0     0     0
## X2302     0     0     0     0     0     0     1     0     0     0     0     0
## X2309     1     1     1     0     1     1     1     1     0     0     1     0
## X2402     1     0     0     1     0     0     1     1     1     0     0     1
## X2403     1     0     0     1     0     0     1     1     1     0     0     1
## X2507     1     0     0     0     0     0     0     0     0     0     0     0
## X2508     1     1     1     1     1     1     1     1     1     0     1     1
## X2512     1     0     0     0     0     0     0     0     0     0     0     0
## X2517     0     0     0     0     0     0     0     0     0     0     0     1
## X2519     1     1     1     0     1     1     1     1     0     0     1     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     0     0     0     0     0     0     0     0     0
## X2525     1     0     0     0     0     0     0     0     0     0     0     0
## X2530     1     0     0     1     0     0     1     1     1     0     0     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     1     0     0     1     0     0     1     1     1     0     0     1
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     1     0     0     0     0     0
## X2713     0     1     0     1     0     0     0     0     0     1     0     0
## X2714     0     1     0     1     0     0     0     0     0     1     0     0
## X2716     1     0     0     1     0     0     0     1     1     0     0     1
## X2804     1     0     1     0     1     1     1     1     1     0     1     1
## X2811     1     0     1     0     1     1     1     1     1     0     1     1
## X2825     0     0     0     0     0     1     0     0     0     0     0     0
## X2826     1     1     1     0     1     1     1     1     0     0     1     0
## X2832     1     1     1     0     1     1     1     1     0     0     1     0
## X2833     1     1     1     0     1     1     1     1     0     0     1     0
## X2835     1     1     1     0     1     1     1     1     0     0     1     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     1     0     1     0     1     1     1     1     1     0     1     1
## X2903     1     1     0     1     0     0     0     1     0     1     0     0
## X2907     1     1     1     0     1     1     1     1     0     0     1     0
## X2915     1     1     1     0     1     1     1     1     0     0     1     0
## X2933     1     1     1     0     1     1     1     1     0     0     1     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     1     1     1     0     1     1     1     1     0     0     1     0
## X3204     1     1     1     1     1     1     1     1     1     0     1     1
## X3205     0     1     0     1     0     0     0     0     0     1     0     0
## X3206     0     1     1     1     1     1     0     0     0     1     1     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     1     0     1     0     1     0     0     0     1     0     0
## X3209     0     1     0     1     0     0     0     0     0     1     0     0
## X3210     1     1     1     0     1     1     1     1     0     0     1     0
## X3211     0     1     0     1     0     0     0     0     0     1     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     1     1     0     1     0     0     0     1     0     1     0     0
## X3215     0     1     0     1     0     0     0     0     0     1     0     0
## X3302     0     1     1     0     1     1     1     1     1     0     1     0
## X3303     1     0     0     1     0     0     1     1     1     0     0     1
## X3304     1     0     0     1     0     0     1     1     1     0     0     1
## X3305     1     0     0     1     0     0     1     1     1     0     0     1
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## X3307     1     0     0     1     0     0     1     1     1     0     0     1
## X3402     1     0     1     0     1     1     1     1     1     0     1     1
## X3403     1     1     1     1     1     1     1     1     1     0     1     1
## X3506     0     0     0     1     0     0     1     0     1     1     0     1
## X3507     0     1     1     0     1     1     1     1     1     0     1     0
## X3605     0     0     0     0     0     0     1     0     0     0     0     0
## X3701     0     1     0     1     0     0     0     0     0     1     0     0
## X3707     0     1     0     1     0     0     0     0     0     1     0     0
## X3802     1     0     0     0     0     0     0     1     0     0     0     0
## X3808     1     0     0     1     0     0     1     1     1     0     0     1
## X3809     1     0     1     0     1     1     1     1     0     0     1     1
## X3810     0     0     0     0     0     1     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     1     1     1     1     1     0     0     0     1     1     0
## X3815     1     1     1     0     1     1     1     1     0     0     1     0
## X3816     1     0     0     1     0     0     1     1     1     0     0     1
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     1     0     0     0     0     0
## X3902     1     1     1     0     1     1     1     1     0     0     1     0
## X3908     0     0     0     1     0     0     1     1     1     0     0     1
## X3909     1     1     1     0     1     1     1     1     0     0     1     0
## X3910     1     1     1     0     1     1     1     1     0     0     1     0
## X3911     1     1     1     0     1     1     1     1     0     0     1     0
## X3915     1     1     1     0     1     1     1     1     0     0     1     0
## X3916     0     1     0     1     0     0     0     0     0     1     0     0
## X3917     1     0     1     0     1     1     1     1     0     0     1     1
## X3919     0     1     1     1     1     1     0     0     0     1     1     0
## X3920     0     1     1     1     1     1     1     0     0     1     1     0
## X3921     0     1     1     1     1     1     0     0     0     1     1     0
## X3923     0     0     0     0     0     0     0     0     1     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     1     1     1     0     1     1     1     1     0     0     1     0
## X3926     1     0     1     0     1     1     1     1     0     0     1     1
## X4001     0     1     0     1     0     0     0     0     0     1     0     0
## X4005     0     0     0     0     0     0     1     0     0     0     0     0
## X4006     0     0     0     0     0     0     1     0     0     0     0     0
## X4008     1     0     0     1     0     0     1     1     1     0     0     1
## X4009     0     0     0     0     0     0     1     0     0     0     0     0
## X4010     0     0     0     0     0     0     0     0     1     0     0     0
## X4012     0     0     0     0     0     0     1     0     0     0     0     0
## X4013     0     0     0     0     0     0     1     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     1     0     0     0     0     0
## X4202     0     1     1     1     1     1     0     0     0     1     1     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     1     1     0     1     1     0     0     1     0     1     0
## X4415     0     1     1     0     1     1     1     0     1     0     1     0
## X4416     1     1     1     0     1     1     0     0     0     0     1     0
## X4418     1     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     0
## X4421     0     0     0     1     0     0     1     1     1     0     0     1
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     1     1     1     0     1     1     1     1     0     0     1     0
## X4808     1     1     1     1     1     1     0     1     0     1     1     0
## X4818     0     1     0     1     0     0     0     0     0     1     0     0
## X4819     0     0     0     0     0     0     0     0     1     0     0     0
## X4821     0     1     0     1     0     0     0     0     1     1     0     0
## X4822     1     1     1     0     1     1     1     1     0     0     1     0
## X4823     1     1     1     0     1     1     1     1     0     0     1     0
## X4901     1     0     0     1     0     0     1     1     1     0     0     1
## X4902     1     0     0     1     0     0     1     1     1     0     0     1
## X4907     1     0     0     1     0     0     1     1     1     0     0     1
## X4911     0     0     0     1     0     0     1     1     1     0     0     1
## X5111     1     1     1     0     1     1     1     1     0     0     1     0
## X5112     1     0     0     0     0     0     0     0     0     0     0     0
## X5205     0     1     0     1     0     0     0     0     0     1     0     0
## X5206     0     1     0     1     0     0     0     0     0     1     0     0
## X5208     0     1     0     1     0     0     0     0     0     1     0     0
## X5209     0     1     0     1     0     0     0     0     1     1     0     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     1     0     1     0     0     0     0     0     1     0     0
## X5402     1     1     0     1     0     0     0     1     0     1     0     0
## X5407     0     1     1     1     1     1     1     1     0     1     1     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     0
## X5508     1     0     0     1     0     0     0     1     1     0     0     1
## X5509     0     1     0     1     0     0     0     0     0     1     0     0
## X5511     0     0     0     0     0     0     0     0     0     0     0     0
```

```
## X5512     0     0     0     0     0     0     0     0     1     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     1     0     1     0     0     0     0     0     1     0     0
## X5515     1     0     0     0     0     0     0     0     1     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     1     0     0     1     0     0     1     1     1     0     0     1
## X5603     0     1     1     0     1     1     0     0     1     0     1     0
## X5609     0     0     0     0     0     0     0     0     0     0     0     0
## X5806     0     1     0     1     0     0     0     0     1     1     0     0
## X5807     0     1     0     1     0     0     0     0     1     1     0     0
## X5903     1     1     1     0     1     1     1     1     0     0     1     0
## X5907     0     0     0     0     0     0     0     0     1     0     0     0
## X5911     0     1     0     1     0     0     0     0     0     1     0     0
## X6002     0     1     1     1     1     0     0     0     1     1     1     1
## X6101     0     0     0     0     0     0     0     0     1     0     0     0
## X6103     0     1     0     1     0     0     0     0     0     1     0     0
## X6104     0     1     0     1     0     0     0     0     1     1     0     1
## X6105     0     0     0     0     0     0     0     0     1     0     0     0
## X6106     0     1     0     1     0     0     0     0     1     1     0     1
## X6107     0     1     0     1     0     0     0     0     0     1     0     0
## X6109     0     1     0     1     0     0     0     0     0     1     0     0
## X6110     0     0     0     0     0     0     0     0     1     0     0     0
## X6111     0     1     0     1     0     0     0     0     0     1     0     0
## X6112     0     1     0     1     0     0     0     0     0     1     0     0
## X6114     1     1     0     1     0     0     0     0     0     1     0     0
## X6115     0     1     0     1     0     0     0     0     1     1     0     1
## X6117     0     0     0     0     0     0     0     0     1     0     0     0
## X6201     0     1     0     1     0     0     0     0     0     1     0     0
## X6202     0     1     0     1     0     0     0     0     0     1     0     0
## X6203     0     1     0     1     0     0     0     0     1     1     0     0
## X6204     0     1     0     1     0     0     0     0     0     1     0     0
## X6205     0     0     0     1     0     0     1     1     1     0     0     1
## X6206     0     1     0     1     0     0     0     0     1     1     0     1
## X6210     0     1     0     1     0     0     0     0     0     1     0     0
## X6211     0     1     0     1     0     0     0     0     1     1     0     0
## X6212     0     1     1     0     1     1     0     0     0     1     1     0
## X6217     0     1     0     1     0     0     0     0     0     1     0     0
## X6302     0     1     0     1     0     0     0     0     0     1     0     0
## X6303     0     1     0     1     0     0     0     0     0     1     0     0
## X6304     0     1     0     1     0     0     0     0     0     1     0     0
## X6305     0     1     1     1     1     1     0     0     0     1     1     0
## X6306     1     1     1     0     1     1     1     1     0     0     1     0
## X6307     0     1     0     1     0     0     0     0     0     1     0     0
## X6401     1     0     0     1     0     0     1     1     1     0     0     1
## X6403     1     0     0     1     0     0     1     1     1     0     0     1
## X6404     1     1     1     0     1     1     1     1     0     0     1     0
##       X8523 X8525 X8526 X8529 X8531 X8532 X8533 X8535 X8536 X8537 X8538 X8541
## X102      0     1     1     1     0     0     0     0     0     0     0     0
## X210      0     0     0     1     0     0     0     0     0     0     1     1
## X401      0     1     1     1     1     0     1     1     1     0     0     0
## X403      0     1     1     1     0     0     0     0     0     0     0     1
## X406      0     0     0     1     0     0     0     0     0     0     1     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     0     1     0     0     0     0     0     0     0     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      1     0     0     0     0     0     0     0     1     0     0     1
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0     0     0     0     0     0     0     0     1     0     0     1
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     1     1     1     0     0     0     0     0     0     0     0
## X813      0     0     0     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     0     0     1
## X1001     0     0     0     0     0     0     0     0     1     1     0     1
## X1003     0     1     1     0     1     0     0     0     0     0     0     0
## X1005     0     0     0     0     0     0     0     0     0     0     0     1
## X1102     0     0     0     0     1     0     1     1     1     1     1     0
## X1108     0     0     0     0     1     0     1     1     1     1     1     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     0     0     1     0     1     1     1     1     1     0
## X1213     0     0     0     0     0     0     0     0     1     1     0     1
## X1214     1     0     1     0     0     0     0     0     1     0     0     1
## X1302     1     0     0     0     0     0     0     0     1     0     0     1
## X1507     0     0     0     1     0     0     0     0     0     0     1     0
## X1514     0     0     0     1     0     0     0     0     0     0     1     0
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## X1517     0     1     1     1     1     0     1     1     1     0     0     0
## X1601     0     0     0     1     0     0     0     0     0     0     1     1
## X1602     0     1     1     1     0     0     0     0     0     0     0     1
## X1704     0     1     1     1     0     0     0     0     0     0     0     1
## X1806     0     1     0     0     1     0     0     0     0     0     0     1
## X1901     0     1     0     1     1     0     0     0     0     0     0     0
## X1902     0     0     0     1     0     0     0     0     0     0     1     0
## X1905     1     1     0     0     1     1     1     1     0     1     0     0
## X2001     0     0     0     1     0     0     0     0     0     0     1     0
## X2002     0     0     0     1     0     0     0     0     0     0     1     0
## X2003     0     0     0     1     0     0     0     0     0     0     1     0
## X2004     0     0     0     1     0     0     0     0     0     0     1     0
## X2005     0     1     1     1     0     0     0     0     0     0     0     0
## X2006     0     1     1     1     0     0     0     0     0     0     0     0
## X2007     0     1     1     1     0     0     0     0     0     0     0     0
## X2008     0     1     0     0     1     0     0     0     0     0     0     1
## X2101     0     0     0     1     0     0     0     0     0     0     1     0
## X2102     0     1     1     1     0     0     0     0     0     0     0     1
## X2103     0     0     0     1     0     0     0     0     0     0     1     1
## X2104     0     0     0     0     0     0     0     0     0     0     0     1
## X2106     0     0     0     1     1     0     1     1     1     0     1     1
## X2202     0     0     0     1     1     0     1     1     1     1     1     0
## X2206     0     0     0     0     0     0     0     0     0     0     0     0
## X2208     0     1     1     1     0     0     0     0     0     0     0     0
## X2209     0     0     0     1     0     0     0     0     0     0     1     0
## X2302     0     0     0     0     0     0     0     0     0     0     0     1
## X2309     0     0     0     0     1     0     1     1     1     1     1     0
## X2402     0     1     1     1     0     0     0     0     0     0     0     0
## X2403     0     1     1     1     0     0     0     0     0     0     0     0
## X2507     0     0     0     0     0     0     0     0     0     0     0     0
## X2508     0     1     1     1     1     0     1     1     1     0     0     0
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     1     1     1     0     0     0     0     0     0     0     0     1
## X2519     0     0     0     0     1     0     1     1     1     1     1     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     1     0     1     0     0     0     0     0     1     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     1     1     1     0     0     0     0     0     0     0     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     1     1     1     0     0     0     0     0     0     0     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     0     1
## X2713     1     0     0     0     0     1     1     1     0     1     1     0
## X2714     1     0     0     0     0     1     1     1     0     1     1     0
## X2716     0     1     1     1     0     0     0     0     1     0     0     0
## X2804     0     1     1     1     1     0     0     0     1     0     0     1
## X2811     0     1     1     1     1     0     0     0     1     0     0     1
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     0     0     0     0     1     0     1     1     1     1     1     0
## X2832     0     0     0     0     1     0     1     1     1     1     1     0
## X2833     0     0     0     0     1     0     1     1     1     1     1     0
## X2835     0     0     0     0     1     0     1     1     1     1     1     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     1     1     1     1     0     0     0     1     0     0     1
## X2903     1     0     0     0     0     1     1     1     1     1     1     0
## X2907     0     0     0     0     1     0     1     1     1     1     1     0
## X2915     0     0     0     0     1     0     1     1     1     1     1     0
## X2933     0     0     0     0     1     0     1     1     1     1     1     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     0     0     1     0     1     1     1     1     1     0
## X3204     0     1     1     1     1     0     1     1     1     0     0     0
## X3205     1     0     0     0     0     1     1     1     0     1     1     0
## X3206     1     0     0     0     1     1     1     1     1     1     1     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     1     0     0     0     0     1     1     1     0     1     1     0
## X3209     1     0     0     0     0     1     1     1     0     1     1     0
## X3210     0     0     0     0     1     0     1     1     1     1     1     0
## X3211     1     0     0     0     0     1     1     1     0     1     1     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     1     0     0     0     0     1     1     1     1     1     1     0
## X3215     1     0     0     0     0     1     1     1     0     1     1     0
## X3302     0     0     0     1     1     0     1     1     1     1     1     0
## X3303     0     1     1     1     0     0     0     0     0     0     0     0
## X3304     0     1     1     1     0     0     0     0     0     0     0     0
## X3305     0     1     1     1     0     0     0     0     0     0     0     0
## X3307     0     1     1     1     0     0     0     0     0     0     0     0
## X3402     0     1     1     1     1     0     0     0     0     0     1     0
## X3403     0     1     1     1     1     0     1     1     1     0     0     0
```

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## X3506     1     1     1     1     0     1     0     0     0     0     1     1
## X3507     0     0     0     1     1     0     1     1     1     1     1     0
## X3605     0     0     0     0     0     0     0     0     0     0     0     1
## X3701     1     0     0     0     0     1     1     1     0     1     1     0
## X3707     1     0     0     0     0     1     1     1     0     1     1     0
## X3802     0     0     0     0     0     0     0     0     1     1     1     0
## X3808     0     1     1     1     0     0     0     0     0     0     0     0
## X3809     1     1     1     0     1     0     0     0     1     0     0     0
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     1     0     0     0     1     1     1     1     1     1     1     0
## X3815     0     0     0     0     1     0     1     1     1     1     1     0
## X3816     0     1     1     1     0     0     0     0     0     0     0     0
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     0     1
## X3902     0     0     0     0     1     0     1     1     1     1     1     0
## X3908     0     1     1     1     0     0     0     0     0     0     0     0
## X3909     0     0     0     0     1     0     1     1     1     1     1     0
## X3910     0     0     0     0     1     0     1     1     1     1     1     0
## X3911     0     0     0     0     1     0     1     1     1     1     1     0
## X3915     0     0     0     0     1     0     1     1     1     1     1     0
## X3916     1     0     0     0     0     1     1     1     0     1     1     0
## X3917     1     1     1     0     1     0     0     0     1     0     0     0
## X3919     1     0     0     0     1     1     1     1     1     1     1     0
## X3920     1     0     0     0     1     1     1     1     1     1     1     1
## X3921     1     0     0     0     1     1     1     1     1     1     1     0
## X3923     0     0     0     1     0     0     0     0     0     0     1     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     0     0     1     0     1     1     1     1     1     0
## X3926     0     1     1     0     1     0     0     0     1     1     1     0
## X4001     1     0     0     0     0     1     1     1     0     1     1     0
## X4005     0     0     0     0     0     0     0     0     0     0     0     1
## X4006     0     0     0     0     0     0     0     0     0     0     0     1
## X4008     0     1     1     1     0     0     0     0     0     0     0     0
## X4009     0     0     0     0     0     0     0     0     0     0     0     1
## X4010     1     0     1     1     0     0     0     0     1     0     1     0
## X4012     0     0     0     0     0     0     0     0     0     0     0     1
## X4013     0     0     0     0     0     0     0     0     0     0     0     1
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     0     0     0     0     0     0     0     0     0     0     1
## X4202     1     0     0     0     1     1     1     1     1     1     1     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     0     0     1     1     0     1     1     1     0     1     0
## X4415     0     0     0     1     1     0     1     1     1     0     1     1
## X4416     1     0     1     0     1     0     1     1     1     1     0     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     0
## X4421     0     1     1     1     0     0     0     0     0     0     0     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     0     1     0     1     1     1     1     1     0
## X4808     1     0     0     0     1     1     1     1     1     1     1     0
## X4818     1     0     0     0     0     1     1     1     0     1     1     0
## X4819     0     0     0     1     0     0     0     0     0     0     1     0
## X4821     1     0     0     1     0     1     1     1     0     1     1     0
## X4822     0     0     0     0     1     0     1     1     1     1     1     0
## X4823     0     0     0     0     1     0     1     1     1     1     1     0
## X4901     0     1     1     1     0     0     0     0     0     0     0     0
## X4902     0     1     1     1     0     0     0     0     0     0     0     0
## X4907     0     1     1     1     0     0     0     0     0     0     0     0
## X4911     0     1     1     1     0     0     0     0     0     0     0     0
## X5111     0     0     0     0     1     0     1     1     1     1     1     0
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     1     0     0     0     0     1     1     1     0     1     1     0
## X5206     1     0     0     0     0     1     1     1     0     1     1     0
## X5208     1     0     0     0     0     1     1     1     0     1     1     0
## X5209     1     0     0     1     0     1     1     1     0     1     1     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     1     0     0     0     0     1     1     1     0     1     1     0
## X5402     1     0     0     0     0     1     1     1     1     1     1     0
## X5407     1     1     1     0     1     1     1     1     0     1     1     0
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     0
## X5508     0     1     1     1     0     0     0     0     1     0     1     0
## X5509     1     0     0     0     0     1     1     1     0     1     1     0
## X5511     0     0     0     0     0     0     0     0     0     0     0     0
## X5512     0     0     0     1     0     0     0     0     0     0     1     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     1     0     0     0     0     1     1     1     0     1     1     0
```

```
## X5515     0     0     0     1     0     0     0     0     0     0     1     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     1     1     1     0     0     0     0     0     0     0     0
## X5603     0     0     0     1     1     0     1     1     1     1     1     0
## X5609     0     0     0     0     0     0     0     0     0     0     0     0
## X5806     1     0     0     1     0     1     1     1     0     1     1     0
## X5807     1     0     0     1     0     1     1     1     0     1     1     0
## X5903     0     0     0     0     1     0     1     1     1     1     1     0
## X5907     0     0     0     1     0     0     0     0     0     0     1     0
## X5911     1     0     0     0     0     1     1     1     0     1     0     0
## X6002     1     1     0     1     1     1     1     1     0     1     1     0
## X6101     0     0     0     1     0     0     0     0     0     0     1     0
## X6103     1     0     0     0     0     1     1     1     0     1     1     0
## X6104     1     1     1     1     0     1     1     1     0     1     0     0
## X6105     0     0     0     1     0     0     0     0     0     0     1     0
## X6106     1     1     1     1     0     1     1     1     0     1     0     0
## X6107     1     0     0     0     0     1     1     1     0     1     1     0
## X6109     1     0     0     0     0     1     1     1     0     1     1     0
## X6110     0     0     0     1     0     0     0     0     0     0     1     0
## X6111     1     0     0     0     0     1     1     1     0     1     1     0
## X6112     1     0     1     0     0     1     1     1     1     1     1     0
## X6114     1     0     0     0     0     1     1     1     0     1     0     0
## X6115     1     1     1     1     0     1     1     1     0     1     0     0
## X6117     0     0     0     1     0     0     0     0     0     0     1     0
## X6201     1     0     0     0     0     1     1     1     0     1     1     0
## X6202     1     0     0     0     0     1     1     1     0     1     1     0
## X6203     1     0     0     1     0     1     1     1     0     1     1     0
## X6204     1     0     0     0     0     1     1     1     0     1     1     0
## X6205     0     1     1     1     0     0     0     0     0     0     0     0
## X6206     1     1     1     1     0     1     1     1     0     0     0     0
## X6210     1     0     0     0     0     1     1     1     0     1     1     0
## X6211     1     0     0     1     0     1     1     1     0     1     1     0
## X6212     1     0     0     0     1     1     1     1     0     1     1     0
## X6217     1     0     0     0     0     1     1     1     0     1     1     0
## X6302     1     0     0     0     0     1     1     1     0     1     1     0
## X6303     1     0     0     0     0     1     1     1     0     1     1     0
## X6304     1     0     0     0     0     1     1     1     0     1     1     0
## X6305     1     0     0     0     1     1     1     1     1     1     1     0
## X6306     0     0     0     0     1     0     1     1     1     1     1     0
## X6307     1     0     0     0     0     1     1     1     0     1     1     0
## X6401     0     1     1     1     0     0     0     0     0     0     0     0
## X6403     0     1     1     1     0     0     0     0     0     0     0     0
## X6404     0     0     0     0     1     0     1     1     1     1     1     0
##       X8542 X8543 X8544 X8545 X8546 X8547 X8606 X8607 X8609 X8701 X8702 X8707
## X102      0     0     1     1     0     0     0     0     0     0     1     0
## X210      0     1     0     0     0     1     0     0     0     0     0     0
## X401      0     0     1     1     0     0     0     0     0     0     1     0
## X403      0     1     1     1     0     0     0     0     0     0     1     0
## X406      0     0     0     0     0     1     0     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     0     0     0     0     0     0     0     0     0     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      1     0     1     0     0     0     0     0     0     0     0     0
## X712      0     0     0     0     0     0     1     1     1     1     0     1
## X713      1     0     0     0     0     0     0     0     0     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      0     0     1     1     0     0     0     0     0     0     1     0
## X813      0     0     0     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     1     0     0     0     0     0     0     0     0     0     0
## X1001     0     0     0     0     0     0     0     0     0     0     0     0
## X1003     0     0     1     1     0     0     0     0     0     0     1     0
## X1005     0     0     0     0     0     0     0     0     0     0     0     0
## X1102     0     0     0     0     0     1     0     0     0     0     0     0
## X1108     0     0     0     0     0     1     0     0     0     0     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     0     0     0     1     0     0     0     0     0     0
## X1213     0     0     1     0     0     0     0     0     0     0     0     0
## X1214     1     0     1     0     0     0     0     0     0     0     0     0
## X1302     1     0     0     0     0     0     0     0     0     0     0     0
## X1507     0     0     0     0     0     1     0     0     0     0     0     0
## X1514     0     0     0     0     0     1     0     0     0     0     0     0
## X1517     0     0     1     1     0     0     0     0     0     0     1     0
## X1601     0     1     0     0     0     1     0     0     0     0     0     0
## X1602     0     1     1     1     0     0     0     0     0     0     1     0
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## X1704     0     1     1     1     0     0     0     0     0     0     1     0
## X1806     0     1     1     1     0     0     0     0     0     0     1     0
## X1901     0     0     1     1     0     0     0     0     0     0     1     0
## X1902     0     0     0     0     0     1     0     0     0     0     0     0
## X1905     0     0     1     1     1     0     0     0     0     0     1     0
## X2001     0     0     0     0     0     1     0     0     0     0     0     0
## X2002     0     0     0     0     0     1     0     0     0     0     0     0
## X2003     0     0     0     0     0     1     0     0     0     0     0     0
## X2004     0     0     0     0     0     1     0     0     0     0     0     0
## X2005     0     0     1     1     0     0     0     0     0     0     1     0
## X2006     0     0     1     1     0     0     0     0     0     0     1     0
## X2007     0     0     1     1     0     1     0     0     0     0     1     0
## X2008     0     1     1     1     0     0     0     0     0     0     1     0
## X2101     0     0     0     0     0     1     0     0     0     0     0     0
## X2102     0     1     1     1     0     0     0     0     0     0     1     0
## X2103     0     1     0     0     0     1     0     0     0     0     0     0
## X2104     0     1     0     0     0     0     0     0     0     0     0     0
## X2106     0     1     0     0     0     1     0     0     0     0     0     0
## X2202     0     0     0     0     0     1     0     0     0     0     0     0
## X2206     0     0     0     0     0     0     0     0     0     0     0     0
## X2208     0     0     1     1     0     0     0     0     0     0     1     0
## X2209     0     0     0     0     0     1     0     0     0     0     0     0
## X2302     0     1     0     0     0     0     0     0     0     0     0     0
## X2309     0     0     0     0     0     1     0     0     0     0     0     0
## X2402     0     0     1     1     0     0     0     0     0     0     1     0
## X2403     0     0     1     1     0     0     0     0     0     0     1     0
## X2507     0     0     0     0     0     0     0     0     0     0     0     0
## X2508     0     0     1     1     0     0     0     0     0     0     1     0
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     1     0     1     1     0     0     0     0     0     0     1     0
## X2519     0     0     0     0     0     1     0     0     0     0     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     1     0     0     0     0     0     0     0     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     0     0     1     1     0     0     0     0     0     0     1     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     1     1     0     0     0     0     0     0     1     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     1     0     0     0     0     0     0     0     0     0     0
## X2713     0     0     0     0     1     1     0     0     0     0     0     0
## X2714     0     0     0     0     1     1     0     0     0     0     0     0
## X2716     0     0     1     1     0     0     0     0     0     0     1     0
## X2804     0     1     1     1     0     0     0     0     0     0     1     0
## X2811     0     1     1     1     0     0     0     0     0     0     1     0
## X2825     0     0     0     0     0     0     1     1     1     1     0     1
## X2826     0     0     0     0     0     1     0     0     0     0     0     0
## X2832     0     0     0     0     0     1     0     0     0     0     0     0
## X2833     0     0     0     0     0     1     0     0     0     0     0     0
## X2835     0     0     0     0     0     1     0     0     0     0     0     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     1     1     1     0     0     0     0     0     0     1     0
## X2903     0     0     0     0     1     1     0     0     0     0     0     0
## X2907     0     0     0     0     0     1     0     0     0     0     0     0
## X2915     0     0     0     0     0     1     0     0     0     0     0     0
## X2933     0     0     0     0     0     1     0     0     0     0     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     0     0     0     1     0     0     0     0     0     0
## X3204     0     0     1     1     0     0     0     0     0     0     1     0
## X3205     0     0     0     0     1     1     0     0     0     0     0     0
## X3206     0     0     0     0     1     1     0     0     0     0     0     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     0     0     0     1     1     1     1     1     1     0     1
## X3209     0     0     0     0     1     1     0     0     0     0     0     0
## X3210     0     0     0     0     0     1     0     0     0     0     0     0
## X3211     0     0     0     0     1     1     0     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     0     0     1     1     0     0     0     0     0     0
## X3215     0     0     0     0     1     1     0     0     0     0     0     0
## X3302     0     0     0     0     0     1     0     0     0     0     0     0
## X3303     0     0     1     1     0     0     0     0     0     0     1     0
## X3304     0     0     1     1     0     0     0     0     0     0     1     0
## X3305     0     0     1     1     0     0     0     0     0     0     1     0
## X3307     0     0     1     1     0     0     0     0     0     0     1     0
## X3402     0     0     1     1     0     1     0     0     0     0     1     0
## X3403     0     0     1     1     0     0     0     0     0     0     1     0
## X3506     0     1     1     1     1     1     0     0     0     0     1     0
## X3507     0     0     0     0     0     1     0     0     0     0     0     0
## X3605     0     1     0     0     0     0     0     0     0     0     0     0
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## X3701     0     0     0     0     1     1     0     0     0     0     0     0
## X3707     0     0     0     0     1     1     0     0     0     0     0     0
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     0     0     1     1     0     0     0     0     0     0     1     0
## X3809     1     0     1     1     0     0     0     0     0     0     1     0
## X3810     0     0     0     0     0     0     1     1     1     1     0     1
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     0     0     0     1     1     0     0     0     0     0     0
## X3815     0     0     0     0     0     1     0     0     0     0     0     0
## X3816     0     0     1     1     0     0     0     0     0     0     1     0
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     1     0     0     0     0     0     0     0     0     0     0
## X3902     0     0     0     0     0     1     0     0     0     0     0     0
## X3908     0     0     1     1     0     1     0     0     0     0     1     0
## X3909     0     0     0     0     0     1     0     0     0     0     0     0
## X3910     0     0     0     0     0     1     0     0     0     0     0     0
## X3911     0     0     0     0     0     1     0     0     0     0     0     0
## X3915     0     0     0     0     0     1     0     0     0     0     0     0
## X3916     0     0     0     0     1     1     0     0     0     0     0     0
## X3917     1     0     1     1     0     0     0     0     0     0     1     0
## X3919     0     0     0     0     1     1     0     0     0     0     0     0
## X3920     0     1     0     0     1     1     0     0     0     0     0     0
## X3921     0     0     0     0     1     1     0     0     0     0     0     0
## X3923     0     0     0     0     0     1     0     0     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     0     0     0     1     0     0     0     0     0     0
## X3926     0     0     1     1     0     0     0     0     0     0     1     0
## X4001     0     0     0     0     1     1     0     0     0     0     0     0
## X4005     0     1     0     0     0     0     0     0     0     0     0     0
## X4006     0     1     0     0     0     0     0     0     0     0     0     0
## X4008     0     0     1     1     0     0     0     0     0     0     1     0
## X4009     0     1     0     0     0     0     0     0     0     0     0     0
## X4010     1     0     0     0     0     1     0     0     0     0     0     0
## X4012     0     1     0     0     0     0     0     0     0     0     0     0
## X4013     0     1     0     0     0     0     0     0     0     0     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     0
## X4016     0     1     0     0     0     0     0     0     0     0     0     0
## X4202     0     0     0     0     1     1     0     0     0     0     0     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     0
## X4409     0     0     0     0     0     1     0     0     0     0     0     0
## X4415     0     1     0     0     0     1     0     0     0     0     0     0
## X4416     1     0     0     0     0     0     0     0     0     0     0     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     0
## X4421     0     0     1     1     0     0     0     0     0     0     1     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     0     0     1     0     0     0     0     0     0
## X4808     0     0     0     0     1     1     0     0     0     0     0     0
## X4818     0     0     0     0     1     1     0     0     0     0     0     0
## X4819     0     0     0     0     0     1     0     0     0     0     0     0
## X4821     0     0     0     0     1     1     0     0     0     0     0     0
## X4822     0     0     0     0     0     1     0     0     0     0     0     0
## X4823     0     0     0     0     0     1     0     0     0     0     0     0
## X4901     0     0     1     1     0     0     0     0     0     0     1     0
## X4902     0     0     1     1     0     0     0     0     0     0     1     0
## X4907     0     0     1     1     0     0     0     0     0     0     1     0
## X4911     0     0     1     1     0     1     0     0     0     0     1     0
## X5111     0     0     0     0     0     1     0     0     0     0     0     0
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     0     0     0     0     1     1     0     0     0     0     0     0
## X5206     0     0     0     0     1     1     0     0     0     0     0     0
## X5208     0     0     0     0     1     1     0     0     0     0     0     0
## X5209     0     0     0     0     1     1     0     0     0     0     0     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     0     0     0     1     1     0     0     0     0     0     0
## X5402     0     0     0     0     1     1     0     0     0     0     0     0
## X5407     0     0     1     1     1     1     0     0     0     0     1     0
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     0
## X5508     0     0     1     1     0     0     0     0     0     0     1     0
## X5509     0     0     0     0     1     1     0     0     0     0     0     0
## X5511     0     0     0     0     0     0     0     0     0     0     0     0
## X5512     0     0     0     0     0     1     0     0     0     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     0     0     0     1     1     0     0     0     0     0     0
## X5515     0     0     0     0     0     1     0     0     0     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     0     1     1     0     0     0     0     0     0     1     0
```

```
## X5603     0     0     0     0     0     1     0     0     0     0     0     0
## X5609     0     0     0     0     0     0     0     0     0     0     0     0
## X5806     0     0     0     0     1     1     0     0     0     0     0     0
## X5807     0     0     0     0     1     1     0     0     0     0     0     0
## X5903     0     0     0     0     0     1     0     0     0     0     0     0
## X5907     0     0     0     0     0     1     0     0     0     0     0     0
## X5911     0     0     0     0     1     1     0     0     0     0     0     0
## X6002     0     0     1     1     1     1     0     0     0     0     1     0
## X6101     0     0     0     0     0     1     0     0     0     0     0     0
## X6103     0     0     0     0     1     1     0     0     0     0     0     0
## X6104     0     0     1     1     1     0     0     0     0     0     1     0
## X6105     0     0     0     0     0     1     0     0     0     0     0     0
## X6106     0     0     1     1     1     0     0     0     0     0     1     0
## X6107     0     0     0     0     1     1     0     0     0     0     0     0
## X6109     0     0     0     0     1     1     0     0     0     0     0     0
## X6110     0     0     0     0     0     1     0     0     0     0     0     0
## X6111     0     0     0     0     1     1     0     0     0     0     0     0
## X6112     1     0     0     0     1     1     0     0     0     0     0     0
## X6114     0     0     0     0     1     1     0     0     0     0     0     0
## X6115     0     0     1     1     1     0     0     0     0     0     1     0
## X6117     0     0     0     0     0     1     0     0     0     0     0     0
## X6201     0     0     0     0     1     1     0     0     0     0     0     0
## X6202     0     0     0     0     1     1     0     0     0     0     0     0
## X6203     0     0     0     0     1     1     0     0     0     0     0     0
## X6204     0     0     0     0     1     1     0     0     0     0     0     0
## X6205     0     0     1     1     0     1     0     0     0     0     1     0
## X6206     0     0     1     1     1     0     0     0     0     0     1     0
## X6210     0     0     0     0     1     1     0     0     0     0     0     0
## X6211     0     0     0     0     1     1     0     0     0     0     0     0
## X6212     0     0     0     0     1     1     0     0     0     0     0     0
## X6217     0     0     0     0     1     1     0     0     0     0     0     0
## X6302     0     0     0     0     1     1     0     0     0     0     0     0
## X6303     0     0     0     0     1     1     0     0     0     0     0     0
## X6304     0     0     0     0     1     1     0     0     0     0     0     0
## X6305     0     0     0     0     1     1     0     0     0     0     0     0
## X6306     0     0     0     0     0     1     0     0     0     0     0     0
## X6307     0     0     0     0     1     1     0     0     0     0     0     0
## X6401     0     0     1     1     0     0     0     0     0     0     1     0
## X6403     0     0     1     1     0     0     0     0     0     0     1     0
## X6404     0     0     0     0     0     1     0     0     0     0     0     0
##       X8708 X8716 X8802 X8803 X8907 X9001 X9006 X9013 X9017 X9018 X9019 X9020
## X102      1     0     1     0     0     0     1     0     0     0     0     0
## X210      1     0     0     0     1     0     0     0     0     0     0     0
## X401      0     0     1     0     0     1     1     0     0     1     1     1
## X403      1     0     1     0     1     0     1     0     0     0     0     0
## X406      1     1     0     0     0     0     0     0     0     0     0     0
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      1     1     0     0     0     0     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     1     0     0     0     0     0     0     0     0     0     0
## X703      0     0     0     0     0     0     0     0     0     0     0     0
## X709      0     1     0     0     0     0     0     1     0     0     0     0
## X712      1     0     0     1     0     0     0     0     1     0     0     0
## X713      0     1     0     0     0     0     0     1     0     0     0     0
## X804      0     0     0     0     0     0     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     0     0
## X809      1     0     1     0     0     0     1     0     0     0     0     0
## X813      0     1     0     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     1     0     0     0     0     0     0     0
## X1001     0     1     0     0     0     0     0     0     0     0     0     0
## X1003     0     1     1     0     0     1     1     0     0     1     1     1
## X1005     0     0     0     0     0     0     0     0     0     0     0     0
## X1102     0     0     0     0     0     1     0     0     0     1     1     1
## X1108     0     0     0     0     0     1     0     0     0     1     1     1
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     0     0     0     1     0     0     0     1     1     1
## X1213     0     0     0     0     0     0     0     0     0     0     0     0
## X1214     1     1     0     0     0     0     0     1     0     0     0     0
## X1302     0     1     0     0     0     0     0     1     0     0     0     0
## X1507     1     0     0     0     0     0     0     0     0     0     0     0
## X1514     1     0     0     0     0     0     0     0     0     0     0     0
## X1517     0     0     1     0     0     1     1     0     0     1     1     1
## X1601     1     0     0     0     1     0     0     0     0     0     0     0
## X1602     1     0     1     0     1     0     1     0     0     0     0     0
## X1704     0     1     1     0     1     0     1     0     0     0     0     0
## X1806     0     1     1     0     1     1     1     0     0     1     1     1
## X1901     0     1     1     0     0     1     1     0     0     1     1     1
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```
## X1902     1     0     0     0     0     0     0     0     0     0     0     0
## X1905     0     1     1     0     0     1     1     0     0     1     1     1
## X2001     1     0     0     0     0     0     0     0     0     0     0     0
## X2002     1     0     0     0     0     0     0     0     0     0     0     0
## X2003     1     0     0     0     0     0     0     0     0     0     0     0
## X2004     1     0     0     0     0     0     0     0     0     0     0     0
## X2005     1     1     1     0     0     0     1     0     0     0     0     0
## X2006     1     0     1     0     0     0     1     0     0     0     0     0
## X2007     1     0     1     0     0     0     1     0     0     0     0     0
## X2008     0     1     1     0     1     1     1     0     0     1     1     1
## X2101     1     0     0     0     0     0     0     0     0     0     0     0
## X2102     0     0     1     0     1     0     1     0     0     0     0     0
## X2103     1     0     0     0     1     0     0     0     0     0     0     0
## X2104     0     0     0     0     1     0     0     0     0     0     0     0
## X2106     0     0     0     0     1     1     0     0     0     1     1     1
## X2202     0     0     0     0     0     1     0     0     0     1     1     1
## X2206     0     1     0     0     0     0     0     0     0     0     0     0
## X2208     1     0     1     0     0     0     1     0     0     0     0     0
## X2209     1     0     0     0     0     0     0     0     0     0     0     0
## X2302     0     0     0     0     1     0     0     0     0     0     0     0
## X2309     0     0     0     0     0     1     0     0     0     1     1     1
## X2402     1     0     1     0     0     0     1     0     0     0     0     0
## X2403     1     0     1     0     0     0     1     0     0     0     0     0
## X2507     0     1     0     0     0     0     0     0     0     0     0     0
## X2508     0     0     1     0     0     1     1     0     0     1     1     1
## X2512     1     0     0     0     0     0     0     0     0     0     0     0
## X2517     0     1     1     0     0     0     1     1     0     0     0     0
## X2519     0     0     0     0     0     1     0     0     0     1     1     1
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     1     0     0     0     0     0     1     0     0     0     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     1     0     1     0     0     0     1     0     0     0     0     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     1     0     1     0     0     0     1     0     0     0     0     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     1     0     0     0     0     0     0     0
## X2713     1     0     0     0     0     0     0     0     0     0     0     0
## X2714     1     0     0     0     0     0     0     0     0     0     0     0
## X2716     1     0     1     0     0     0     1     0     0     0     0     0
## X2804     0     0     1     0     1     1     1     0     0     1     1     1
## X2811     0     0     1     0     1     1     1     0     0     1     1     1
## X2825     1     0     0     1     0     0     0     0     1     0     0     0
## X2826     0     0     0     0     0     1     0     0     0     1     1     1
## X2832     0     0     0     0     0     1     0     0     0     1     1     1
## X2833     0     0     0     0     0     1     0     0     0     1     1     1
## X2835     0     0     0     0     0     1     0     0     0     1     1     1
## X2836     0     1     0     0     0     0     0     0     0     0     0     0
## X2901     0     0     1     0     1     1     1     0     0     1     1     1
## X2903     1     0     0     0     0     0     0     0     0     0     0     0
## X2907     0     0     0     0     0     1     0     0     0     1     1     1
## X2915     0     0     0     0     0     1     0     0     0     1     1     1
## X2933     0     0     0     0     0     1     0     0     0     1     1     1
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     0     0     0     1     0     0     0     1     1     1
## X3204     0     0     1     0     0     1     1     0     0     1     1     1
## X3205     1     0     0     0     0     0     0     0     0     0     0     0
## X3206     0     0     0     0     0     1     0     0     0     1     1     1
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     1     0     0     1     0     0     0     0     1     0     0     0
## X3209     1     0     0     0     0     0     0     0     0     0     0     0
## X3210     0     0     0     0     0     1     0     0     0     1     1     1
## X3211     1     0     0     0     0     0     0     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     1     0     0     0     0     0     0     0     0     0     0     0
## X3215     1     0     0     0     0     0     0     0     0     0     0     0
## X3302     0     0     0     0     0     1     0     0     0     1     1     1
## X3303     1     0     1     0     0     0     1     0     0     0     0     0
## X3304     1     0     1     0     0     0     1     0     0     0     0     0
## X3305     1     0     1     0     0     0     1     0     0     0     0     0
## X3307     1     0     1     0     0     0     1     0     0     0     0     0
## X3402     0     0     1     0     0     1     1     0     0     1     1     1
## X3403     0     1     1     0     0     1     1     0     0     1     1     1
## X3506     1     0     1     0     1     0     1     0     0     0     0     0
## X3507     0     0     0     0     0     1     0     0     0     1     1     1
## X3605     0     0     0     0     1     0     0     0     0     0     0     0
## X3701     1     0     0     0     0     0     0     0     0     0     0     0
## X3707     1     0     0     0     0     0     0     0     0     0     0     0
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
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## X3808     1     0     1     0     0     0     1     0     0     0     0     0
## X3809     0     1     1     0     0     1     1     1     0     1     1     1
## X3810     1     0     0     1     0     0     0     0     1     0     0     0
## X3811     0     1     0     0     0     0     0     0     0     0     0     0
## X3814     0     0     0     0     0     1     0     0     0     1     1     1
## X3815     0     0     0     0     0     1     0     0     0     1     1     1
## X3816     1     0     1     0     0     0     1     0     0     0     0     0
## X3819     0     1     0     0     0     0     0     0     0     0     0     0
## X3820     0     1     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     1     0     0     0     0     0     0     0
## X3902     0     0     0     0     0     1     0     0     0     1     1     1
## X3908     1     0     1     0     0     0     1     0     0     0     0     0
## X3909     0     0     0     0     0     1     0     0     0     1     1     1
## X3910     0     0     0     0     0     1     0     0     0     1     1     1
## X3911     0     0     0     0     0     1     0     0     0     1     1     1
## X3915     0     0     0     0     0     1     0     0     0     1     1     1
## X3916     1     0     0     0     0     0     0     0     0     0     0     0
## X3917     0     1     1     0     0     1     1     1     0     1     1     1
## X3919     0     0     0     0     0     1     0     0     0     1     1     1
## X3920     0     0     0     0     1     1     0     0     0     1     1     1
## X3921     0     1     0     0     0     1     0     0     0     1     1     1
## X3923     1     1     0     0     0     0     0     0     0     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     0     0     0     1     0     0     0     1     1     1
## X3926     0     1     1     0     0     1     1     0     0     1     1     1
## X4001     1     0     0     0     0     0     0     0     0     0     0     0
## X4005     0     0     0     0     1     0     0     0     0     0     0     0
## X4006     0     0     0     0     1     0     0     0     0     0     0     0
## X4008     1     0     1     0     0     0     1     0     0     0     0     0
## X4009     0     0     0     0     1     0     0     0     0     0     0     0
## X4010     0     1     0     0     0     0     0     1     0     0     0     0
## X4012     0     0     0     0     1     0     0     0     0     0     0     0
## X4013     0     0     0     0     1     0     0     0     0     0     0     0
## X4015     0     1     0     0     0     0     0     0     0     0     0     0
## X4016     0     1     0     0     1     0     0     0     0     0     0     0
## X4202     0     0     0     0     0     1     0     0     0     1     1     1
## X4203     0     1     0     0     0     0     0     0     0     0     0     0
## X4409     0     1     0     0     0     1     0     0     0     1     1     1
## X4415     0     0     0     0     1     1     0     0     0     1     1     1
## X4416     0     1     0     0     0     1     0     1     0     1     1     1
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     1     0     0     0     0     0     0     0     0     0     0
## X4421     0     1     1     0     0     0     1     0     0     0     0     0
## X4602     0     0     0     0     0     0     0     0     0     0     0     0
## X4804     0     0     0     0     0     1     0     0     0     1     1     1
## X4808     0     0     0     0     0     1     0     0     0     1     1     1
## X4818     1     0     0     0     0     0     0     0     0     0     0     0
## X4819     1     0     0     0     0     0     0     0     0     0     0     0
## X4821     1     0     0     0     0     0     0     0     0     0     0     0
## X4822     0     0     0     0     0     1     0     0     0     1     1     1
## X4823     0     0     0     0     0     1     0     0     0     1     1     1
## X4901     1     0     1     0     0     0     1     0     0     0     0     0
## X4902     1     0     1     0     0     0     1     0     0     0     0     0
## X4907     1     0     1     0     0     0     1     0     0     0     0     0
## X4911     1     0     1     0     0     0     1     0     0     0     0     0
## X5111     1     0     0     0     0     1     0     0     0     1     1     1
## X5112     1     0     0     0     0     0     0     0     0     0     0     0
## X5205     1     0     0     0     0     0     0     0     0     0     0     0
## X5206     1     0     0     0     0     0     0     0     0     0     0     0
## X5208     1     0     0     0     0     0     0     0     0     0     0     0
## X5209     1     0     0     0     0     0     0     0     0     0     0     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     1     0     0     0     0     0     0     0     0     0     0     0
## X5402     1     0     0     0     0     0     0     0     0     0     0     0
## X5407     0     0     1     0     0     1     1     0     0     1     1     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     1     0     0     0     0     0     0     0     0     0     0
## X5508     1     0     1     0     0     0     1     0     0     0     0     0
## X5509     1     1     0     0     0     0     0     0     0     0     0     0
## X5511     0     1     0     0     0     0     0     0     0     0     0     0
## X5512     1     1     0     0     0     0     0     0     0     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     1     0     0     0     0     0     0     0     0     0     0     0
## X5515     1     0     0     0     0     0     0     0     0     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     1     0     1     0     0     0     1     0     0     0     0     0
## X5603     0     0     0     0     0     1     0     0     0     1     1     1
## X5609     0     1     0     0     0     0     0     0     0     0     0     0
## X5806     1     0     0     0     0     0     0     0     0     0     0     0
```

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## X5807     1     0     0     0     0     0     0     0     0     0     0     0
## X5903     0     0     0     0     0     1     0     0     0     1     1     1
## X5907     1     0     0     0     0     0     0     0     0     0     0     0
## X5911     1     1     0     0     0     0     0     0     0     0     0     0
## X6002     1     0     1     0     0     1     1     0     0     1     1     1
## X6101     1     0     0     0     0     0     0     0     0     0     0     0
## X6103     1     0     0     0     0     0     0     0     0     0     0     0
## X6104     1     0     1     0     0     0     1     0     0     0     0     0
## X6105     1     0     0     0     0     0     0     0     0     0     0     0
## X6106     1     0     1     0     0     0     1     0     0     0     0     0
## X6107     1     0     0     0     0     0     0     0     0     0     0     0
## X6109     1     0     0     0     0     0     0     0     0     0     0     0
## X6110     1     1     0     0     0     0     0     0     0     0     0     0
## X6111     1     0     0     0     0     0     0     0     0     0     0     0
## X6112     1     1     0     0     0     0     0     1     0     0     0     0
## X6114     1     1     0     0     0     0     0     0     0     0     0     0
## X6115     1     0     1     0     0     0     1     0     0     0     0     0
## X6117     1     0     0     0     0     0     0     0     0     0     0     0
## X6201     1     0     0     0     0     0     0     0     0     0     0     0
## X6202     1     0     0     0     0     0     0     0     0     0     0     0
## X6203     1     0     0     0     0     0     0     0     0     0     0     0
## X6204     1     0     0     0     0     0     0     0     0     0     0     0
## X6205     1     0     1     0     0     0     1     0     0     0     0     0
## X6206     1     1     1     0     0     0     1     0     0     0     0     0
## X6210     1     0     0     0     0     0     0     0     0     0     0     0
## X6211     1     1     0     0     0     0     0     0     0     0     0     0
## X6212     0     1     0     0     0     1     0     0     0     1     1     1
## X6217     1     0     0     0     0     0     0     0     0     0     0     0
## X6302     1     0     0     0     0     0     0     0     0     0     0     0
## X6303     1     0     0     0     0     0     0     0     0     0     0     0
## X6304     1     0     0     0     0     0     0     0     0     0     0     0
## X6305     0     0     0     0     0     1     0     0     0     1     1     1
## X6306     0     0     0     0     0     1     0     0     0     1     1     1
## X6307     1     1     0     0     0     0     0     0     0     0     0     0
## X6401     1     0     1     0     0     0     1     0     0     0     0     0
## X6403     1     1     1     0     0     0     1     0     0     0     0     0
## X6404     0     0     0     0     0     1     0     0     0     1     1     1
##       X9021 X9023 X9025 X9026 X9027 X9028 X9030 X9031 X9032 X9105 X9106 X9401
## X102      0     0     1     0     1     0     0     0     1     0     0     1
## X210      0     0     0     0     0     0     0     0     1     1     0     0
## X401      0     0     1     1     0     0     0     0     1     0     0     1
## X403      0     0     0     0     0     0     0     0     1     1     0     1
## X406      0     0     0     0     0     0     0     0     1     0     0     1
## X510      0     0     0     0     0     0     0     0     0     0     0     0
## X602      0     0     0     0     0     1     0     0     0     0     0     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     0     0     0     0     0     0     0     0     0     0     1
## X703      0     0     0     0     0     1     0     0     0     0     0     0
## X709      0     0     0     1     0     1     0     1     0     0     1     0
## X712      0     1     0     0     0     0     0     1     0     0     0     0
## X713      0     0     0     1     0     1     0     1     0     0     1     0
## X804      0     0     0     0     0     1     0     0     0     0     0     0
## X805      0     0     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     1     0     0     0     0     0     0
## X809      0     0     1     0     1     0     0     0     1     0     0     1
## X813      0     0     0     0     0     0     0     0     0     0     0     0
## X901      0     0     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     1     0     0
## X1001     0     0     0     1     1     1     0     1     0     0     0     0
## X1003     1     0     1     0     0     0     0     0     1     0     0     1
## X1005     0     0     0     0     0     1     0     0     0     0     0     0
## X1102     0     0     1     1     0     0     0     0     1     0     0     0
## X1108     0     0     1     1     0     0     0     0     1     0     0     0
## X1202     0     0     0     0     0     0     0     0     0     0     0     0
## X1208     0     0     1     1     0     0     0     0     1     0     0     0
## X1213     0     0     0     1     1     1     0     1     0     0     0     0
## X1214     0     0     0     1     0     1     0     1     0     0     1     0
## X1302     0     0     0     1     0     1     0     1     0     0     1     0
## X1507     0     0     0     0     0     0     0     0     1     0     0     0
## X1514     0     0     0     0     0     0     0     0     1     0     0     0
## X1517     0     0     1     1     0     0     0     0     1     0     0     1
## X1601     0     0     0     0     0     0     0     0     1     1     0     0
## X1602     0     0     0     0     0     0     0     0     1     1     0     1
## X1704     0     0     0     0     0     0     0     0     0     1     0     1
## X1806     0     0     1     0     0     0     0     0     0     1     0     1
## X1901     0     0     1     0     0     0     0     0     1     0     0     1
## X1902     0     0     0     0     0     0     0     0     1     0     0     0
## X1905     0     0     1     0     1     0     1     0     0     0     0     0
## X2001     0     0     0     0     0     0     0     0     1     0     0     0
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```
## X2002     0     0     0     0     0     0     0     0     1     0     0     0
## X2003     0     0     0     0     0     0     0     0     1     0     0     0
## X2004     0     0     0     0     0     0     0     0     1     0     0     0
## X2005     0     0     0     0     0     0     0     0     1     0     0     1
## X2006     0     0     1     0     1     0     0     0     1     0     0     1
## X2007     0     0     1     0     1     0     0     0     1     0     0     1
## X2008     0     0     1     0     0     0     0     0     0     1     0     1
## X2101     0     0     0     0     0     0     0     0     1     0     0     0
## X2102     0     0     1     0     1     0     0     0     1     1     0     1
## X2103     0     0     0     0     0     0     0     0     1     1     0     0
## X2104     0     0     0     0     0     0     0     0     0     1     0     0
## X2106     0     0     1     1     0     0     0     0     1     1     0     0
## X2202     0     0     1     1     0     0     0     0     1     0     0     0
## X2206     0     0     0     0     0     0     0     0     0     0     0     0
## X2208     0     0     1     0     1     0     0     0     1     0     0     1
## X2209     0     0     0     0     0     0     0     0     1     0     0     0
## X2302     0     0     0     0     0     0     0     0     0     1     0     0
## X2309     0     0     1     1     0     0     0     0     1     0     0     0
## X2402     0     0     1     0     1     0     0     0     1     0     0     1
## X2403     0     0     1     0     1     0     0     0     1     0     0     1
## X2507     0     0     0     0     0     0     0     0     0     0     0     0
## X2508     0     0     1     1     0     0     0     0     1     0     0     1
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     1     0     0     0     0     1     0     1     0     0     1     1
## X2519     0     0     1     1     0     0     0     0     1     0     0     0
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     0     0     1     0     1     0     1     0     0     1     0
## X2525     0     0     0     0     0     0     0     0     0     0     0     0
## X2530     1     0     1     0     1     0     0     0     1     0     0     1
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     1     0     1     0     0     0     1     0     0     1
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     1     0     0
## X2713     0     0     0     0     1     0     1     0     0     0     0     0
## X2714     0     0     0     0     1     0     1     0     0     0     0     0
## X2716     0     0     0     1     1     1     0     1     0     0     0     1
## X2804     0     0     1     1     0     0     0     0     1     1     0     1
## X2811     0     0     1     1     0     0     0     0     1     1     0     1
## X2825     0     1     0     0     0     0     0     1     0     0     0     0
## X2826     0     0     1     1     0     0     0     0     1     0     0     0
## X2832     0     0     1     1     0     0     0     0     1     0     0     0
## X2833     0     0     1     1     0     0     0     0     1     0     0     0
## X2835     0     0     1     1     0     0     0     0     1     0     0     0
## X2836     0     0     0     0     0     0     0     0     0     0     0     0
## X2901     0     0     1     1     0     0     0     0     1     1     0     1
## X2903     0     0     0     1     1     0     1     1     0     0     0     0
## X2907     0     0     1     1     0     0     0     0     1     0     0     0
## X2915     0     0     1     1     0     0     0     0     1     0     0     0
## X2933     0     0     1     1     0     0     0     0     1     0     0     0
## X3105     0     0     0     0     0     0     0     0     0     0     0     0
## X3202     0     0     1     1     0     0     0     0     1     0     0     0
## X3204     0     0     1     1     0     0     0     0     1     0     0     1
## X3205     0     0     0     0     1     0     1     0     0     0     0     0
## X3206     0     0     1     1     1     0     1     0     0     0     0     0
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     1     0     0     1     0     1     1     0     0     0     0
## X3209     0     0     0     0     1     0     1     0     0     0     0     0
## X3210     0     0     1     1     0     0     0     0     1     0     0     0
## X3211     0     0     0     0     1     0     1     0     0     0     0     0
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     0     1     1     0     1     1     0     0     0     0
## X3215     0     0     0     0     1     0     1     0     0     0     0     0
## X3302     0     0     1     1     0     0     0     0     1     0     0     0
## X3303     0     0     1     0     1     0     0     0     1     0     0     1
## X3304     0     0     1     0     1     0     0     0     1     0     0     1
## X3305     0     0     1     0     1     0     0     0     1     0     0     1
## X3307     0     0     1     0     1     0     0     0     1     0     0     1
## X3402     0     0     1     0     0     0     0     0     1     0     0     1
## X3403     0     0     1     1     0     0     0     0     1     0     0     1
## X3506     0     0     0     0     1     0     1     0     1     1     0     1
## X3507     0     0     1     1     0     0     0     0     1     0     0     0
## X3605     0     0     0     0     0     0     0     0     0     1     0     0
## X3701     0     0     0     0     1     0     1     0     0     0     0     0
## X3707     0     0     0     0     1     0     1     0     0     0     0     0
## X3802     0     0     0     1     1     0     0     1     0     0     0     0
## X3808     0     0     1     0     1     0     0     0     1     0     0     1
## X3809     0     0     1     1     0     1     0     1     1     0     1     1
## X3810     0     1     0     0     0     0     0     1     0     0     0     0
```

```
## X3811     0     0     0     0     0     0     0     0     0     0     0     0
## X3814     0     0     1     1     1     0     1     0     0     0     0     0
## X3815     0     0     1     1     0     0     0     0     1     0     0     0
## X3816     0     0     1     0     1     0     0     0     1     0     0     1
## X3819     0     0     0     0     0     0     0     0     0     0     0     0
## X3820     0     0     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     1     0     0
## X3902     0     0     1     1     0     0     0     0     1     0     0     0
## X3908     0     0     1     0     1     0     0     0     1     0     0     1
## X3909     0     0     1     1     0     0     0     0     1     0     0     0
## X3910     0     0     1     1     0     0     0     0     1     0     0     0
## X3911     0     0     1     1     0     0     0     0     1     0     0     0
## X3915     0     0     1     1     0     0     0     0     1     0     0     0
## X3916     0     0     0     0     1     0     1     0     0     0     0     0
## X3917     0     0     1     1     0     1     0     1     1     0     1     1
## X3919     0     0     1     1     1     0     1     0     0     0     0     0
## X3920     0     0     0     1     0     0     1     0     0     1     0     0
## X3921     0     0     1     1     1     0     1     0     0     0     0     0
## X3923     0     0     0     0     0     0     0     0     1     0     0     0
## X3924     0     0     0     0     0     0     0     0     0     0     0     0
## X3925     0     0     1     1     0     0     0     0     1     0     0     0
## X3926     0     0     1     1     1     0     0     1     1     0     0     1
## X4001     0     0     0     0     1     0     1     0     0     0     0     0
## X4005     0     0     0     0     0     0     0     0     0     1     0     0
## X4006     0     0     0     0     0     0     0     0     0     1     0     0
## X4008     0     0     1     0     1     0     0     0     1     0     0     1
## X4009     0     0     0     0     0     0     0     0     0     1     0     0
## X4010     0     0     0     1     0     1     0     1     1     0     1     0
## X4012     0     0     0     0     0     0     0     0     0     1     0     0
## X4013     0     0     0     0     0     0     0     0     0     1     0     0
## X4015     0     0     0     0     0     0     0     0     0     0     0     1
## X4016     0     0     0     0     0     0     0     0     0     1     0     1
## X4202     0     0     0     1     0     0     1     0     0     0     0     0
## X4203     0     0     0     0     0     0     0     0     0     0     0     1
## X4409     0     0     1     1     0     0     0     0     1     0     0     0
## X4415     0     0     1     1     0     0     0     0     1     1     0     0
## X4416     0     0     1     1     0     1     0     1     0     0     1     0
## X4418     0     0     0     0     0     0     0     0     0     0     0     0
## X4420     0     0     0     0     0     0     0     0     0     0     0     0
## X4421     0     0     1     0     1     0     0     0     1     0     0     1
## X4602     0     0     0     0     0     1     0     0     0     0     0     0
## X4804     0     0     1     1     0     0     0     0     1     0     0     0
## X4808     0     0     0     1     1     0     1     1     0     0     0     0
## X4818     0     0     0     0     1     0     1     0     0     0     0     0
## X4819     0     0     0     0     0     0     0     0     1     0     0     0
## X4821     0     0     0     0     1     0     1     0     1     0     0     0
## X4822     0     0     1     1     0     0     0     0     1     0     0     0
## X4823     0     0     1     1     1     0     0     1     1     0     0     0
## X4901     0     0     1     0     1     0     0     0     1     0     0     1
## X4902     0     0     1     0     1     0     0     0     1     0     0     1
## X4907     0     0     1     0     1     0     0     0     1     0     0     1
## X4911     0     0     1     0     1     0     0     0     1     0     0     1
## X5111     0     0     1     1     0     0     0     0     1     0     0     0
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     0     0     0     0     1     0     1     0     0     0     0     0
## X5206     0     0     0     0     1     0     1     0     0     0     0     0
## X5208     0     0     0     0     1     0     1     0     0     0     0     0
## X5209     0     0     0     0     1     0     1     0     1     0     0     0
## X5210     0     0     0     0     0     0     0     0     0     0     0     0
## X5211     0     0     0     0     1     0     1     0     0     0     0     0
## X5402     0     0     0     1     1     0     1     1     0     0     0     0
## X5407     0     0     1     0     1     0     1     0     1     0     0     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     0     0     0     0     0     0     0     0     0     0     0
## X5508     0     0     1     1     1     0     0     1     1     0     0     1
## X5509     0     0     0     0     1     0     1     0     0     0     0     0
## X5511     0     0     0     0     0     0     0     0     0     0     0     0
## X5512     0     0     0     0     0     0     0     0     1     0     0     0
## X5513     0     0     0     0     0     0     0     0     0     0     0     0
## X5514     0     0     0     0     1     0     1     0     0     0     0     0
## X5515     0     0     0     0     0     0     0     0     1     0     0     0
## X5516     0     0     0     0     0     0     0     0     0     0     0     0
## X5601     0     0     1     0     1     0     0     0     1     0     0     1
## X5603     0     0     1     1     0     0     0     0     1     0     0     0
## X5609     0     0     0     0     0     0     0     0     0     0     0     0
## X5806     0     0     0     0     1     0     1     0     1     0     0     0
## X5807     0     0     0     0     1     0     1     0     1     0     0     0
## X5903     0     0     1     1     0     0     0     0     1     0     0     0
## X5907     0     0     0     0     0     0     0     0     1     0     0     0
```

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## X5911     0     0     0     0     1     0     1     0     0     0     0     0
## X6002     0     0     1     0     1     0     1     0     1     0     0     1
## X6101     0     0     0     0     0     0     0     0     1     0     0     0
## X6103     0     0     0     0     1     0     1     0     0     0     0     0
## X6104     0     0     1     0     1     0     1     0     0     0     0     1
## X6105     0     0     0     0     0     0     0     0     1     0     0     0
## X6106     0     0     1     0     1     0     1     0     0     0     0     1
## X6107     0     0     0     0     1     0     1     0     0     0     0     0
## X6109     0     0     0     0     1     0     1     0     0     0     0     0
## X6110     0     0     0     0     0     0     0     0     1     0     0     0
## X6111     0     0     0     0     1     0     1     0     0     0     0     0
## X6112     0     0     0     1     1     1     1     1     0     0     1     0
## X6114     0     0     0     0     1     0     1     0     0     0     0     0
## X6115     0     0     1     0     1     0     1     0     0     0     0     1
## X6117     0     0     0     0     0     0     0     0     1     0     0     0
## X6201     0     0     0     0     1     0     1     0     0     0     0     0
## X6202     0     0     0     0     1     0     1     0     0     0     0     0
## X6203     0     0     0     0     1     0     1     0     1     0     0     0
## X6204     0     0     0     0     1     0     1     0     0     0     0     0
## X6205     0     0     1     0     1     0     0     0     1     0     0     1
## X6206     0     0     0     0     1     0     1     0     0     0     0     1
## X6210     0     0     0     0     1     0     1     0     0     0     0     0
## X6211     0     0     0     0     1     0     1     0     0     0     0     0
## X6212     0     0     0     0     0     0     1     0     1     0     0     0
## X6217     0     0     0     0     1     0     1     0     0     0     0     0
## X6302     0     0     0     0     1     0     1     0     0     0     0     0
## X6303     0     0     0     0     1     0     1     0     0     0     0     0
## X6304     0     0     0     0     1     0     1     0     0     0     0     0
## X6305     0     0     1     1     1     0     1     0     0     0     0     0
## X6306     0     0     1     1     0     0     0     0     1     0     0     0
## X6307     0     0     0     0     1     0     1     0     0     0     0     1
## X6401     0     0     1     0     1     0     0     0     1     0     0     1
## X6403     0     0     1     0     1     0     0     0     1     0     0     1
## X6404     0     0     1     1     0     0     0     0     1     0     0     0
##       X9402 X9403 X9404 X9405 X9406 X9503 X9504 X9505 X9506 X9508 X9602 X9606
## X102      0     0     0     1     1     0     0     0     0     1     0     0
## X210      0     0     0     0     0     0     0     0     0     0     1     1
## X401      1     1     0     1     1     0     0     0     0     1     1     0
## X403      0     0     0     0     0     0     0     0     0     1     1     0
## X406      0     0     0     0     0     0     0     0     1     0     0     1
## X510      0     1     0     0     0     0     0     0     0     0     0     0
## X602      0     1     0     0     0     0     0     0     0     0     1     0
## X603      0     0     0     0     0     0     0     0     0     0     0     0
## X702      0     1     0     0     0     0     0     1     1     0     0     0
## X703      0     1     0     0     0     0     0     0     0     0     1     0
## X709      0     1     0     0     0     0     1     1     0     1     0     0
## X712      0     0     0     0     0     0     0     0     0     0     0     0
## X713      0     1     0     0     0     0     1     0     0     0     0     0
## X804      0     1     0     0     0     0     0     0     0     0     1     0
## X805      0     1     0     0     0     0     0     0     0     0     0     0
## X808      0     0     0     0     0     0     0     0     0     0     1     0
## X809      0     0     0     1     1     0     0     0     0     1     0     0
## X813      0     1     0     0     0     0     0     1     0     0     0     0
## X901      0     1     0     0     0     0     0     0     0     0     0     0
## X904      0     0     0     0     0     0     0     0     0     0     1     0
## X1001     0     1     0     1     0     1     1     1     0     1     1     0
## X1003     1     1     0     1     1     1     1     1     1     1     0     0
## X1005     0     1     0     0     0     1     1     1     0     1     1     0
## X1102     1     1     0     1     1     0     0     0     0     0     1     1
## X1108     1     1     0     1     1     0     0     0     0     0     1     1
## X1202     0     1     0     0     0     0     0     0     0     0     0     0
## X1208     1     1     0     1     1     0     0     0     0     0     1     1
## X1213     0     1     0     0     0     0     0     0     0     0     1     0
## X1214     0     1     0     0     0     0     1     1     0     1     0     0
## X1302     0     1     0     0     0     0     1     1     0     1     0     0
## X1507     0     0     0     0     0     0     0     0     0     0     0     1
## X1514     0     0     0     0     0     0     0     0     0     0     0     1
## X1517     1     1     0     1     1     0     0     0     0     1     1     0
## X1601     0     0     0     0     0     0     0     0     0     0     1     1
## X1602     0     0     0     0     0     0     0     0     0     1     1     0
## X1704     0     1     0     0     0     1     1     1     0     1     1     0
## X1806     1     1     0     1     1     1     1     1     0     1     1     0
## X1901     1     1     0     1     1     0     0     1     0     1     0     0
## X1902     0     0     0     0     0     0     0     0     0     0     0     1
## X1905     1     1     1     1     1     0     0     1     0     0     0     0
## X2001     0     0     0     0     0     0     0     0     0     0     0     1
## X2002     0     0     0     0     0     0     0     0     0     0     0     1
## X2003     0     0     0     0     0     0     0     0     0     0     0     1
## X2004     0     0     0     0     0     0     0     0     0     0     0     1
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## X2005     0     1     0     0     0     0     0     1     0     1     0     0
## X2006     0     1     0     1     1     0     0     0     0     1     0     0
## X2007     0     0     0     1     1     0     0     0     0     1     0     1
## X2008     1     1     0     1     1     0     0     1     0     1     1     0
## X2101     0     0     0     0     0     0     0     0     0     0     0     1
## X2102     0     0     0     1     1     0     0     0     0     1     1     0
## X2103     0     0     0     0     0     0     0     0     0     0     1     1
## X2104     0     0     0     0     0     0     0     0     0     0     1     0
## X2106     1     0     0     0     0     0     0     0     0     0     1     1
## X2202     1     1     0     1     1     0     0     0     0     0     1     1
## X2206     0     1     0     0     0     0     0     1     0     0     0     0
## X2208     0     0     0     1     1     0     0     0     0     1     0     0
## X2209     0     0     0     0     0     0     0     0     0     0     0     1
## X2302     0     0     0     0     0     0     0     0     0     0     1     0
## X2309     1     1     0     1     1     0     0     0     0     0     1     1
## X2402     0     0     0     1     1     0     0     0     0     1     0     0
## X2403     0     0     0     1     1     0     0     0     0     1     0     0
## X2507     0     1     0     0     0     0     0     1     0     0     0     0
## X2508     1     1     0     1     1     0     0     0     0     1     1     0
## X2512     0     0     0     0     0     0     0     0     0     0     0     0
## X2517     0     1     0     0     0     0     1     1     0     1     0     0
## X2519     1     1     0     1     1     0     0     0     0     0     1     1
## X2520     0     0     0     0     0     0     0     0     0     0     0     0
## X2522     0     1     0     0     0     0     1     0     0     1     0     0
## X2525     0     1     0     0     0     0     0     0     0     0     0     0
## X2530     0     1     0     1     1     0     0     0     0     1     0     0
## X2602     0     0     0     0     0     0     0     0     0     0     0     0
## X2606     0     0     0     1     1     0     0     0     0     1     0     0
## X2607     0     0     0     0     0     0     0     0     0     0     0     0
## X2608     0     0     0     0     0     0     0     0     0     0     0     0
## X2710     0     0     0     0     0     0     0     0     0     0     1     0
## X2713     0     0     1     0     0     0     0     0     0     0     0     1
## X2714     0     0     1     0     0     0     0     0     0     0     0     1
## X2716     0     1     0     0     0     0     0     0     0     1     1     0
## X2804     1     0     0     1     1     0     0     0     0     1     1     0
## X2811     1     0     0     1     1     0     0     0     0     1     1     0
## X2825     0     0     0     0     0     0     0     0     0     0     0     0
## X2826     1     1     0     1     1     0     0     0     0     0     1     1
## X2832     1     1     0     1     1     0     0     0     0     0     1     1
## X2833     1     1     0     1     1     0     0     0     0     0     1     1
## X2835     1     1     0     1     1     0     0     0     0     0     1     1
## X2836     0     1     0     0     0     0     0     0     0     0     0     0
## X2901     1     0     0     1     1     0     0     0     0     1     1     0
## X2903     0     0     1     0     0     0     0     0     0     0     0     1
## X2907     1     1     0     1     1     0     0     0     0     0     1     1
## X2915     1     1     0     1     1     0     0     0     0     0     1     1
## X2933     1     1     0     1     1     0     0     0     0     0     1     1
## X3105     0     1     0     0     0     0     0     0     0     0     0     0
## X3202     1     1     0     1     1     0     0     0     0     0     1     1
## X3204     1     0     0     1     1     0     0     0     0     1     1     0
## X3205     0     0     1     0     0     0     0     0     0     0     0     1
## X3206     1     0     1     1     1     0     0     0     0     0     1     1
## X3207     0     0     0     0     0     0     0     0     0     0     0     0
## X3208     0     0     1     0     0     0     0     0     0     0     0     1
## X3209     0     0     1     0     0     0     0     0     0     0     0     1
## X3210     1     1     0     1     1     0     0     0     0     0     1     1
## X3211     0     0     1     0     0     0     0     0     0     0     0     1
## X3212     0     0     0     0     0     0     0     0     0     0     0     0
## X3214     0     0     1     0     0     0     0     0     0     0     0     1
## X3215     0     0     1     0     0     0     0     0     0     0     0     1
## X3302     1     0     0     1     1     0     0     0     0     0     1     1
## X3303     0     0     0     1     1     0     0     0     0     1     0     0
## X3304     0     0     0     1     1     0     0     0     0     1     0     0
## X3305     0     1     0     1     1     0     0     0     0     1     0     0
## X3307     0     0     0     1     1     0     0     0     0     1     0     0
## X3402     1     1     0     1     1     0     0     0     0     1     0     1
## X3403     1     1     0     1     1     0     0     0     0     1     1     0
## X3506     0     0     1     0     0     0     0     0     0     1     0     1
## X3507     1     0     0     1     1     0     0     0     0     0     1     1
## X3605     0     0     0     0     0     0     0     0     0     0     1     0
## X3701     0     0     1     0     0     0     0     0     0     0     0     1
## X3707     0     0     1     0     0     0     0     0     0     0     0     1
## X3802     0     0     0     0     0     0     0     0     0     0     0     0
## X3808     0     0     0     1     1     0     0     0     0     1     0     0
## X3809     1     1     0     1     1     0     1     0     0     1     1     0
## X3810     0     0     0     0     0     0     0     0     0     0     0     0
## X3811     0     1     0     0     0     0     0     0     0     0     0     0
## X3814     1     0     1     1     1     0     0     0     0     0     1     1
## X3815     1     1     0     1     1     0     0     0     0     0     1     1
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## X3816     0     0     0     1     1     0     0     0     0     1     0     0
## X3819     0     1     0     0     0     0     0     0     0     0     0     0
## X3820     0     1     0     0     0     0     0     0     0     0     0     0
## X3823     0     0     0     0     0     0     0     0     0     0     1     0
## X3902     1     1     0     1     1     0     0     0     0     0     1     1
## X3908     0     0     0     1     1     0     0     0     0     1     0     1
## X3909     1     1     0     1     1     0     0     0     0     0     1     1
## X3910     1     1     0     1     1     0     0     0     0     0     1     1
## X3911     1     1     0     1     1     0     0     0     0     0     1     1
## X3915     1     1     0     1     1     0     0     0     0     0     1     1
## X3916     0     0     1     0     0     0     0     0     0     0     0     1
## X3917     1     1     0     1     1     0     1     1     0     1     1     0
## X3919     1     0     1     1     1     0     0     0     0     0     1     1
## X3920     1     0     1     0     0     0     0     0     0     0     1     1
## X3921     1     1     1     1     1     0     0     0     0     0     1     1
## X3923     0     1     0     0     0     1     1     1     0     0     0     1
## X3924     0     0     0     0     0     1     1     1     0     0     0     0
## X3925     1     1     0     1     1     0     0     0     0     0     1     1
## X3926     1     1     0     1     1     0     0     0     1     1     0     0
## X4001     0     0     1     0     0     0     0     0     0     0     0     1
## X4005     0     0     0     0     0     0     0     0     0     0     1     0
## X4006     0     0     0     0     0     0     0     0     0     0     1     0
## X4008     0     0     0     1     1     0     0     0     0     1     0     0
## X4009     0     0     0     0     0     0     0     0     0     0     1     0
## X4010     0     0     0     0     0     0     1     1     0     0     0     1
## X4012     0     0     0     0     0     0     0     0     0     0     1     0
## X4013     0     0     0     0     0     0     0     0     0     0     1     0
## X4015     0     0     0     0     0     0     0     0     1     0     0     0
## X4016     0     0     0     0     0     0     0     0     1     0     1     0
## X4202     1     1     1     0     0     0     0     0     0     0     1     1
## X4203     0     0     0     0     0     0     0     0     1     0     0     0
## X4409     1     1     0     0     0     0     0     1     0     0     1     1
## X4415     1     0     0     0     0     0     0     0     0     0     1     1
## X4416     1     1     0     1     1     0     1     1     0     0     1     0
## X4418     0     1     0     0     0     0     0     0     0     0     0     0
## X4420     0     1     0     0     0     0     0     1     0     0     0     0
## X4421     0     1     0     1     1     0     0     1     0     1     0     0
## X4602     0     0     0     0     0     0     0     0     0     0     1     0
## X4804     1     1     0     1     1     0     0     0     0     0     1     1
## X4808     1     0     1     0     0     0     0     0     0     0     1     1
## X4818     0     0     1     0     0     0     0     0     0     0     0     1
## X4819     0     0     0     0     0     0     0     0     0     0     0     1
## X4821     0     0     1     0     0     0     0     0     0     0     0     1
## X4822     1     1     0     1     1     0     0     0     0     0     1     1
## X4823     1     0     0     1     1     0     0     0     0     0     1     1
## X4901     0     0     0     1     1     0     0     0     0     1     0     0
## X4902     0     0     0     1     1     0     0     0     0     1     0     0
## X4907     0     0     0     1     1     0     0     0     0     1     0     0
## X4911     0     0     0     1     1     0     0     0     0     1     0     1
## X5111     1     0     0     1     1     0     0     0     0     0     1     1
## X5112     0     0     0     0     0     0     0     0     0     0     0     0
## X5205     0     0     1     0     0     0     0     0     0     0     0     1
## X5206     0     0     1     0     0     0     0     0     0     0     0     1
## X5208     0     0     1     0     0     0     0     0     0     0     0     1
## X5209     0     0     1     0     0     0     0     0     0     0     0     1
## X5210     0     1     0     0     0     0     0     0     0     0     0     0
## X5211     0     0     1     0     0     0     0     0     0     0     0     1
## X5402     0     0     1     0     0     0     0     0     0     0     0     1
## X5407     1     0     1     1     1     0     0     0     0     1     0     1
## X5408     0     0     0     0     0     0     0     0     0     0     0     0
## X5505     0     1     0     0     0     0     0     1     0     0     0     0
## X5508     0     0     0     0     0     0     0     0     0     1     0     0
## X5509     0     0     1     0     0     0     0     1     0     0     0     1
## X5511     0     1     0     0     0     0     0     1     0     0     0     0
## X5512     0     0     0     0     0     0     0     1     0     0     0     1
## X5513     0     1     0     0     0     0     0     0     0     0     0     0
## X5514     0     0     1     0     0     0     0     0     0     0     0     1
## X5515     0     0     0     0     0     0     0     0     0     0     0     1
## X5516     0     1     0     0     0     0     0     0     0     0     0     0
## X5601     0     0     0     1     1     0     0     0     0     1     0     0
## X5603     1     1     0     1     1     0     0     0     0     0     1     1
## X5609     0     1     0     0     0     0     0     1     0     0     0     0
## X5806     0     0     1     0     0     0     0     0     0     0     0     1
## X5807     0     0     1     0     0     0     0     0     0     0     0     1
## X5903     1     1     0     1     1     0     0     0     0     0     1     1
## X5907     0     0     0     0     0     0     0     0     0     0     0     1
## X5911     0     1     1     0     0     0     0     1     0     0     0     1
## X6002     1     0     1     1     1     0     0     0     0     1     0     1
## X6101     0     0     0     0     0     0     0     0     0     0     0     1
```

```
## X6103     0     0     1     0     0     0     0     0     0     0     0     1
## X6104     0     0     1     1     1     0     0     0     0     1     0     0
## X6105     0     0     0     0     0     0     0     0     0     0     0     1
## X6106     0     0     1     1     1     0     0     0     0     1     0     0
## X6107     0     0     1     0     0     0     0     0     0     0     0     1
## X6109     0     0     1     0     0     0     0     0     0     0     0     1
## X6110     0     1     0     0     0     0     0     1     0     0     0     1
## X6111     0     0     1     0     0     0     0     0     0     0     0     1
## X6112     0     0     1     0     0     0     1     0     0     0     0     1
## X6114     0     1     1     0     0     0     0     1     0     0     0     1
## X6115     0     0     1     1     1     1     1     1     0     1     0     0
## X6117     0     0     0     0     0     0     0     0     0     0     0     1
## X6201     0     0     1     0     0     0     0     0     0     0     0     1
## X6202     0     0     1     0     0     0     0     0     0     0     0     1
## X6203     0     0     1     0     0     0     0     0     0     0     0     1
## X6204     0     0     1     0     0     0     0     0     0     0     0     1
## X6205     0     0     0     1     1     0     0     0     0     1     0     1
## X6206     0     1     1     0     0     0     0     1     0     1     0     0
## X6210     0     0     1     0     0     0     0     0     0     0     0     1
## X6211     0     1     1     0     0     0     0     0     0     0     0     1
## X6212     1     1     1     0     0     0     0     0     0     0     0     1
## X6217     0     0     1     0     0     0     0     0     0     0     0     1
## X6302     0     0     1     0     0     0     0     0     0     0     0     1
## X6303     0     0     1     0     0     0     0     0     0     0     0     1
## X6304     0     0     1     0     0     0     0     0     0     0     0     1
## X6305     1     0     1     1     1     0     0     0     0     0     1     1
## X6306     1     1     0     1     1     0     0     0     0     0     1     1
## X6307     0     0     1     0     0     0     0     0     1     0     0     1
## X6401     0     0     0     1     1     0     0     0     0     1     0     0
## X6403     0     1     0     1     1     0     0     0     0     1     0     0
## X6404     1     1     0     1     1     0     0     0     0     0     1     1
##       X9607 X9608 X9612 X9616 X9617 X9706
## X102      0     0     0     1     0     1
## X210      1     1     1     0     1     0
## X401      1     0     0     1     0     1
## X403      1     1     1     1     1     1
## X406      1     0     1     0     0     0
## X510      0     0     0     0     0     0
## X602      0     0     0     0     0     0
## X603      0     0     0     0     0     0
## X702      0     0     1     0     0     0
## X703      0     0     0     0     0     0
## X709      0     0     0     0     0     0
## X712      0     0     0     0     0     0
## X713      0     0     0     0     0     0
## X804      0     0     0     0     0     0
## X805      0     0     0     0     0     0
## X808      0     0     0     0     0     0
## X809      0     0     0     1     0     1
## X813      0     0     0     0     0     0
## X901      0     0     0     0     0     0
## X904      0     1     0     0     1     0
## X1001     0     0     0     0     0     0
## X1003     0     0     0     1     0     1
## X1005     0     0     0     0     0     0
## X1102     1     0     0     0     0     0
## X1108     1     0     0     0     0     0
## X1202     0     0     0     0     0     0
## X1208     1     0     0     0     0     0
## X1213     0     0     0     0     0     0
## X1214     0     0     0     0     0     0
## X1302     0     0     0     0     0     0
## X1507     1     0     1     0     0     0
## X1514     1     0     1     0     0     0
## X1517     1     0     0     1     0     1
## X1601     1     1     1     0     1     0
## X1602     1     1     1     1     1     1
## X1704     0     1     0     1     1     1
## X1806     0     1     0     1     1     1
## X1901     1     0     1     1     0     1
## X1902     1     0     1     0     0     0
## X1905     0     0     0     1     0     1
## X2001     1     0     1     0     0     0
## X2002     1     0     1     0     0     0
## X2003     1     0     1     0     0     0
## X2004     1     0     1     0     0     0
## X2005     0     0     1     1     0     1
## X2006     0     0     0     1     0     1
## X2007     1     0     1     1     0     1
```

```
## X2008     0     1     0     1     1     1
## X2101     1     0     1     0     0     0
## X2102     0     1     0     1     1     1
## X2103     1     1     1     0     1     0
## X2104     0     1     0     0     1     0
## X2106     1     1     1     0     1     0
## X2202     1     0     1     0     0     0
## X2206     0     0     0     0     0     0
## X2208     1     0     0     1     0     1
## X2209     1     0     1     0     0     0
## X2302     0     1     0     0     1     0
## X2309     1     0     0     0     0     0
## X2402     0     0     0     1     0     1
## X2403     0     0     0     1     0     1
## X2507     0     0     0     0     0     0
## X2508     1     0     0     1     0     1
## X2512     1     0     0     0     0     0
## X2517     0     0     0     1     0     1
## X2519     1     0     0     0     0     0
## X2520     0     0     0     0     0     0
## X2522     0     0     0     0     0     0
## X2525     0     0     0     0     0     0
## X2530     0     0     0     1     0     1
## X2602     0     0     0     0     0     0
## X2606     0     0     0     1     0     1
## X2607     0     0     0     0     0     0
## X2608     0     0     0     0     0     0
## X2710     0     1     0     0     1     0
## X2713     0     0     0     0     0     0
## X2714     0     0     0     0     0     0
## X2716     1     0     0     1     0     1
## X2804     0     1     0     1     1     1
## X2811     0     1     0     1     1     1
## X2825     0     0     0     0     0     0
## X2826     1     0     0     0     0     0
## X2832     1     0     0     0     0     0
## X2833     1     0     0     0     0     0
## X2835     1     0     0     0     0     0
## X2836     0     0     0     0     0     0
## X2901     0     1     0     1     1     1
## X2903     0     0     0     0     0     0
## X2907     1     0     0     0     0     0
## X2915     1     0     0     0     0     0
## X2933     1     0     0     0     0     0
## X3105     0     0     0     0     0     0
## X3202     1     0     0     0     0     0
## X3204     1     0     0     1     0     1
## X3205     0     0     0     0     0     0
## X3206     1     0     0     0     0     0
## X3207     0     0     0     0     0     0
## X3208     0     0     0     0     0     0
## X3209     0     0     0     0     0     0
## X3210     1     0     0     0     0     0
## X3211     0     0     0     0     0     0
## X3212     0     0     0     0     0     0
## X3214     0     0     0     0     0     0
## X3215     0     0     0     0     0     0
## X3302     1     0     1     0     0     0
## X3303     0     0     0     1     0     1
## X3304     0     0     0     1     0     1
## X3305     0     0     0     1     0     1
## X3307     0     0     0     1     0     1
## X3402     1     0     1     1     0     1
## X3403     1     0     0     1     0     1
## X3506     0     1     1     1     1     1
## X3507     1     0     1     0     0     0
## X3605     0     1     0     0     1     0
## X3701     0     0     0     0     0     0
## X3707     0     0     0     0     0     0
## X3802     0     0     0     0     0     0
## X3808     0     0     0     1     0     1
## X3809     0     0     0     1     0     1
## X3810     0     0     0     0     0     0
## X3811     0     0     0     0     0     0
## X3814     1     0     0     0     0     0
## X3815     1     0     0     0     0     0
## X3816     0     0     0     1     0     1
## X3819     0     0     0     0     0     0
## X3820     0     0     0     0     0     0
```

```
## X3823     0     1     0     0     1     0
## X3902     1     0     0     0     0     0
## X3908     1     0     1     1     0     1
## X3909     1     0     0     0     0     0
## X3910     1     0     0     0     0     0
## X3911     1     0     0     0     0     0
## X3915     1     0     0     0     0     0
## X3916     0     0     0     0     0     0
## X3917     0     0     0     1     0     1
## X3919     1     0     0     0     0     0
## X3920     1     1     0     0     1     0
## X3921     1     0     0     0     0     0
## X3923     1     0     1     0     0     0
## X3924     0     0     0     0     0     0
## X3925     1     0     0     0     0     0
## X3926     0     0     0     1     0     1
## X4001     0     0     0     0     0     0
## X4005     0     1     0     0     1     0
## X4006     0     1     0     0     1     0
## X4008     0     0     0     1     0     1
## X4009     0     1     0     0     1     0
## X4010     1     0     1     0     0     0
## X4012     0     1     0     0     1     0
## X4013     0     1     0     0     1     0
## X4015     0     0     0     0     0     0
## X4016     0     1     0     0     1     0
## X4202     1     0     0     0     0     0
## X4203     0     0     0     0     0     0
## X4409     1     0     1     0     0     0
## X4415     1     1     1     0     1     0
## X4416     1     0     0     0     0     0
## X4418     0     0     0     0     0     0
## X4420     0     0     0     0     0     0
## X4421     0     0     0     1     0     1
## X4602     0     0     0     0     0     0
## X4804     1     0     0     0     0     0
## X4808     1     0     0     0     0     0
## X4818     0     0     0     0     0     0
## X4819     1     0     1     0     0     0
## X4821     1     0     1     0     0     0
## X4822     1     0     0     0     0     0
## X4823     1     0     0     0     0     0
## X4901     0     0     0     1     0     1
## X4902     0     0     0     1     0     1
## X4907     0     0     0     1     0     1
## X4911     1     0     1     1     0     1
## X5111     1     0     0     0     0     0
## X5112     1     0     0     0     0     0
## X5205     0     0     0     0     0     0
## X5206     0     0     0     0     0     0
## X5208     0     0     0     0     0     0
## X5209     1     0     1     0     0     0
## X5210     0     0     0     0     0     0
## X5211     0     0     0     0     0     0
## X5402     0     0     0     0     0     0
## X5407     0     0     0     1     0     1
## X5408     0     0     0     0     0     0
## X5505     0     0     0     0     0     0
## X5508     1     0     1     1     0     1
## X5509     0     0     0     0     0     0
## X5511     0     0     0     0     0     0
## X5512     1     0     1     0     0     0
## X5513     0     0     0     0     0     0
## X5514     0     0     0     0     0     0
## X5515     1     0     1     0     0     0
## X5516     0     0     0     0     0     0
## X5601     0     0     0     1     0     1
## X5603     1     0     1     0     0     0
## X5609     0     0     0     0     0     0
## X5806     1     0     1     0     0     0
## X5807     1     0     1     0     0     0
## X5903     1     0     0     0     0     0
## X5907     1     0     1     0     0     0
## X5911     1     0     0     0     0     0
## X6002     1     0     1     1     0     1
## X6101     1     0     1     0     0     0
## X6103     0     0     0     0     0     0
## X6104     0     0     0     1     0     1
## X6105     1     0     1     0     0     0
```

```
## X6106     0     0     0     1     0     1
## X6107     0     0     0     0     0     0
## X6109     0     0     0     0     0     0
## X6110     1     0     1     0     0     0
## X6111     0     0     0     0     0     0
## X6112     0     0     0     0     0     0
## X6114     1     0     0     0     0     0
## X6115     0     0     0     1     0     1
## X6117     1     0     1     0     0     0
## X6201     0     0     0     0     0     0
## X6202     0     0     0     0     0     0
## X6203     1     0     1     0     0     0
## X6204     0     0     0     0     0     0
## X6205     1     0     1     1     0     1
## X6206     0     0     0     1     0     1
## X6210     0     0     0     0     0     0
## X6211     1     0     1     0     0     0
## X6212     1     0     1     0     0     0
## X6217     0     0     0     0     0     0
## X6302     0     0     0     0     0     0
## X6303     0     0     0     0     0     0
## X6304     0     0     0     0     0     0
## X6305     1     0     0     0     0     0
## X6306     1     0     0     0     0     0
## X6307     0     0     0     0     0     0
## X6401     0     0     0     1     0     1
## X6403     0     0     0     1     0     1
## X6404     1     0     0     0     0     0
##  [ reached getOption("max.print") -- omitted 196 rows ]
```

Graficar

```
library (igraph)
```

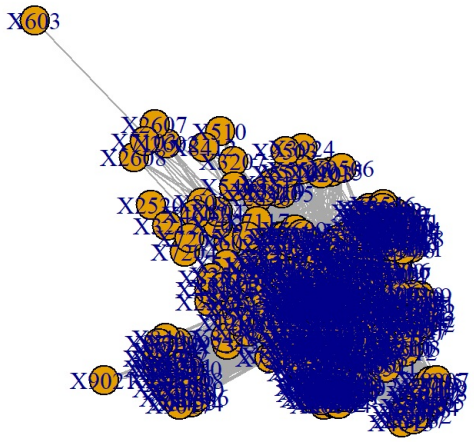
```
##
## Attaching package: 'igraph'
```

```
## The following object is masked from 'package:EconGeo':
##
##     diversity
```

```
## The following objects are masked from 'package:stats':
##
##     decompose, spectrum
```

```
## The following object is masked from 'package:base':
##
##     union
```

```
g1 = graph_from_adjacency_matrix(r, mode = "undirected")
plot(g1)
```



Exportar resultados del relacionamiento binario

```
write.csv(r,file = "relatedness.csv")
write.csv(c,file = "cocurrences.csv")
```

title: “LAB 10”

author: “JESSICA PAOLA AGUILAR SERVIN”

date: “2023-02-23”

output: html_document

T1_04_REDES COMPLEJAS(1) - Visión de redes complejas - parte 1

Objetivo: Estimar el Maximum Spanning Tree -árbol de expansión máxima- (asegurar una visión clara del espacio-producto).Red troncal: Estructura general de la red: vamos a poder v. redes complejas Regla 1: mantener n-1 conexiones como máximo Regla 2: Quitar las conexiones con el peso más bajo, nos vamos quedar con las del peso máximo (menos conexiones) Regla 3: No crear nodos aislados ——————————————————————————————————————— En este ejercicio vamos a: 1. Usar un matriz hipotetica de datos 2. Graficar sus próximos adyacentes

practica 3: Visión clara del espacio-producto: CASO HIPOTÉTICO
##

1)la visualización del espacio - producto sea una red conectada: evitar islas de productos aislados. 2)PROBLEMA: tratar de visualizar demasiados enlaces puede crear una complejidad visual innecesaria donde se obstruirán las conexiones más relevantes. calculamos el árbol de expansión máxima (MST) de la matriz de proximidad. MST es el conjunto de enlaces que conecta todos los nodos de la red utilizando un número mínimo de conexiones y la suma máxima posible de proximidades. Calculamos el MST usando el algoritmo de Kruskal: Básicamente, el algoritmo clasifica los valores de la matriz de proximidad en orden descendente y luego incluye enlaces en el MST si y solo si conectan un producto aislado. Por definición, el MST incluye todos los productos, pero el número de enlaces es el mínimo posible. Después de seleccionar los enlaces utilizando los criterios mencionados anteriormente, construimos una visualización utilizando un algoritmo de diseño dirigido por la fuerza.

Crear una matriz aleatoria de 200*200

```
M <- matrix(runif(200*200, min=0, max=100), ncol=200)
          diag(M) <- 0
          head(M[,1:6])
```

```
##           [,1]     [,2]      [,3]      [,4]     [,5]      [,6]
## [1,]  0.000000 33.36635 86.935517  8.375608 45.83037 47.292127
## [2,]  8.086913  0.00000 11.605955 39.091410 82.15133 61.126050
## [3,] 52.845448 10.63509  0.000000 22.700600 10.02156  5.516215
## [4,] 28.219008 90.94124 60.428810  0.000000 89.40508 11.161483
## [5,] 90.941054 92.43655  5.217044 13.384132  0.00000 89.480654
## [6,] 70.604329 25.67740 48.587643 13.243930 54.94695  0.000000
```

```
          dim(M)
```

```
## [1] 200 200
```

Cargar libreria

```
library (igraph)
```

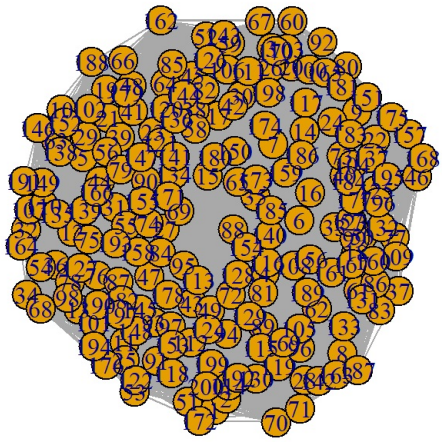
```
##
## Attaching package: 'igraph'
```

```
## The following objects are masked from 'package:stats':
##
##     decompose, spectrum
```

```
## The following object is masked from 'package:base':
##
##     union
```

Graficar la matriz obteniendo un gráfico saturado MST igraph calculando el arbol de expansión minima

```
g <-graph.adjacency(M, mode="undirected", weighted = TRUE)
plot (g)
```



Hacer la matariz en negariva para identificar valores maximos

```
M <- -M
head(M[,1:6])
```

```
##            [,1]      [,2]       [,3]       [,4]      [,5]       [,6]
## [1,]   0.000000 -33.36635 -86.935517  -8.375608 -45.83037 -47.292127
## [2,]  -8.086913   0.00000 -11.605955 -39.091410 -82.15133 -61.126050
## [3,] -52.845448 -10.63509   0.000000 -22.700600 -10.02156  -5.516215
## [4,] -28.219008 -90.94124 -60.428810   0.000000 -89.40508 -11.161483
## [5,] -90.941054 -92.43655  -5.217044 -13.384132   0.00000 -89.480654
## [6,] -70.604329 -25.67740 -48.587643 -13.243930 -54.94695   0.000000
```

Visualizar matiz

```
M
```

```
##               [,1]        [,2]         [,3]        [,4]        [,5]        [,6]
##   [1,]   0.0000000 -33.3663499 -86.93551661  -8.3756082 -45.8303744 -47.2921273
##   [2,]  -8.0869133   0.0000000 -11.60595545 -39.0914102 -82.1513288 -61.1260498
##   [3,] -52.8454475 -10.6350906   0.00000000 -22.7006004 -10.0215567  -5.5162151
##   [4,] -28.2190080 -90.9412442 -60.42881038   0.0000000 -89.4050754 -11.1614831
##   [5,] -90.9410538 -92.4365456  -5.21704403 -13.3841320   0.0000000 -89.4806537
##   [6,] -70.6043286 -25.6773960 -48.58764296 -13.2439298 -54.9469479   0.0000000
##   [7,] -58.8667507 -89.7843217 -64.04472871  -8.3795377 -99.5397505 -46.8726109
##   [8,] -92.7364546  -7.3899243  -4.98615555 -82.2271980 -92.8864752 -89.3984382
##   [9,] -16.6293650 -44.6755393 -81.03832214 -69.3327658 -15.4391884 -68.8781991
##  [10,]  -4.9029500 -63.8689479 -72.26930493 -21.2531326 -78.3944782 -85.6898918
##  [11,] -72.1709874 -80.1428644 -36.59557987  -5.9866018 -57.7149704 -67.8838807
##  [12,] -45.1139078 -57.6865343 -27.06271138 -55.8851540 -70.1652735 -41.9795640
##  [13,]  -4.5792306 -42.3332226 -93.74152718 -43.3754015 -49.7198252 -92.8503151
##  [14,] -80.2645965 -28.6044226 -91.23760541  -6.9386352 -66.1648983 -74.4089460
##  [15,] -95.7111008 -33.9745684 -48.30843774 -70.6722100 -42.8790587  -4.7773048
##  [16,] -58.3001304 -46.6494081 -50.77218313 -30.2867161 -29.7264798 -16.1703529
##  [17,] -86.9082828 -54.1100889 -45.19056217 -21.6203491 -15.3993854 -21.5379254
##  [18,] -57.7321017 -97.6045558 -65.80046806 -78.6487806 -70.1349616 -93.9496359
##  [19,] -43.6108948 -14.4008920 -33.53405478 -31.9471495 -52.4262684 -59.9226453
##  [20,] -91.4121115 -33.6347960 -45.10377767 -32.0536527 -89.4988637 -12.0732545
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## [200,] -52.335262   0.0000000
```
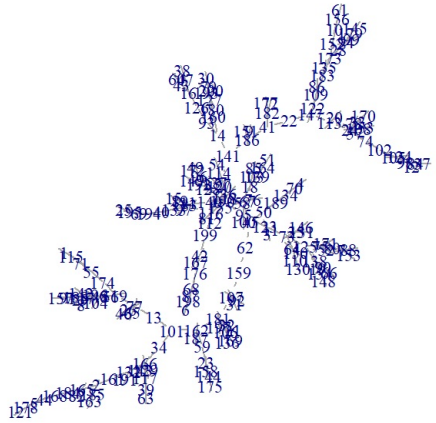

Grafica nueva con matriz negativa, ver el espacio-producto, tecnológico

```
g <-graph.adjacency(M, mode="undirected", weighted = TRUE)
MST<- minimum.spanning.tree(g)
plot(MST, vertex.shape="none", vertex.label.cex=.7)
```

```
## Warning in v(graph): Non-positive edge weight found, ignoring all weights
## during graph layout.
```



Matriz de adyacencias (nuevo relacionamiento) Ver las aristas que hay entre los nodos

```
A<- get.adjacency(MST, sparse = F)
```

VER LAS ARISTAS(PESOS)

```
head(A)
```

```
##      [,1] [,2] [,3] [,4] [,5] [,6] [,7] [,8] [,9] [,10] [,11] [,12] [,13] [,14]
## [1,]    0    0    0    0    0    0    0    0    0     0     0     0     0     0
## [2,]    0    0    0    0    0    0    0    0    0     0     0     0     0     0
## [3,]    0    0    0    0    0    0    0    0    0     0     0     0     0     0
## [4,]    0    0    0    0    0    0    0    0    0     0     0     0     0     0
## [5,]    0    0    0    0    0    0    0    0    0     0     0     0     0     0
## [6,]    0    0    0    0    0    0    0    0    0     0     0     0     0     0
##      [,15] [,16] [,17] [,18] [,19] [,20] [,21] [,22] [,23] [,24] [,25] [,26]
## [1,]     0     0     0     0     0     0     0     0     0     0     0     0
## [2,]     0     0     0     0     0     0     0     0     0     0     0     0
## [3,]     0     0     0     0     0     0     0     0     0     0     0     0
## [4,]     0     0     0     0     0     0     0     0     0     0     0     0
## [5,]     0     0     0     0     0     0     0     0     0     0     0     0
## [6,]     0     0     0     0     0     0     0     0     0     0     0     0
##      [,27] [,28] [,29] [,30] [,31] [,32] [,33] [,34] [,35] [,36] [,37] [,38]
## [1,]     0     0     0     0     0     0     0     0     0     0     0     0
## [2,]     0     0     0     0     0     0     0     0     0     0     0     0
## [3,]     0     0     0     0     0     0     0     0     0     0     0     0
## [4,]     0     0     0     0     0     0     0     0     0     0     0     0
## [5,]     0     0     0     0     0     0     0     0     0     0     0     0
## [6,]     0     0     0     0     0     0     0     0     0     0     0     0
##      [,39] [,40] [,41] [,42] [,43] [,44] [,45] [,46] [,47] [,48] [,49] [,50]
## [1,]     0     0     0     0     0     0     0     0     0     0     0     0
## [2,]     0     0     0     0     0     0     0     0     0     0     0     0
## [3,]     0     0     0     0     0     0     0     0     0     0     0     0
## [4,]     0     0     0     0     0     0     0     0     0     0     0     0
## [5,]     0     0     0     0     0     1     0     0     0     0     0     0
## [6,]     0     0     0     0     0     0     0     0     0     0     0     0
##      [,51] [,52] [,53] [,54] [,55] [,56] [,57] [,58] [,59] [,60] [,61] [,62]
## [1,]     0     0     0     0     0     0     0     0     0     0     0     0
## [2,]     0     0     0     0     0     0     0     0     0     0     0     0
## [3,]     0     0     0     0     0     0     0     0     0     0     0     0
## [4,]     0     0     0     0     0     0     0     0     0     0     0     0
## [5,]     0     0     0     0     0     0     0     0     0     0     0     0
## [6,]     0     0     0     0     0     0     0     0     0     0     0     0
##      [,63] [,64] [,65] [,66] [,67] [,68] [,69] [,70] [,71] [,72] [,73] [,74]
## [1,]     0     0     0     0     0     0     0     0     0     0     0     0
## [2,]     0     0     0     0     0     0     0     0     0     0     0     0
## [3,]     0     0     0     0     0     0     0     0     0     0     0     0
## [4,]     0     0     0     0     0     0     0     1     0     0     0     0
## [5,]     0     0     0     0     0     0     0     0     0     0     0     0
## [6,]     0     0     0     0     0     0     0     0     0     0     0     0
```

```
##      [,75] [,76] [,77] [,78] [,79] [,80] [,81] [,82] [,83] [,84] [,85] [,86]
## [1,]     0     0     0     0     0     0     0     0     0     0     0     0
## [2,]     0     0     0     0     0     0     0     0     0     0     0     0
## [3,]     0     0     0     0     0     0     0     0     0     0     0     0
## [4,]     0     0     0     0     0     0     0     0     0     0     0     0
## [5,]     0     0     0     0     0     0     0     0     0     0     0     0
## [6,]     0     0     0     0     0     0     0     0     0     0     0     0
##      [,87] [,88] [,89] [,90] [,91] [,92] [,93] [,94] [,95] [,96] [,97] [,98]
## [1,]     0     0     0     0     0     0     0     0     0     0     0     0
## [2,]     0     0     0     0     0     0     0     0     0     0     0     0
## [3,]     0     0     0     0     0     0     0     0     0     0     0     0
## [4,]     0     0     0     0     0     0     0     0     0     0     0     0
## [5,]     0     0     0     0     0     0     0     0     0     0     0     0
## [6,]     0     0     0     0     0     0     0     0     0     0     0     0
##      [,99] [,100] [,101] [,102] [,103] [,104] [,105] [,106] [,107] [,108]
## [1,]     0      0      0      0      0      0      0      0      0      0
## [2,]     0      0      0      0      0      0      0      0      0      0
## [3,]     0      0      0      0      0      0      0      0      0      0
## [4,]     0      0      0      0      0      0      0      0      0      0
## [5,]     0      0      0      0      0      0      0      0      0      0
## [6,]     0      0      0      0      0      0      0      0      0      0
##      [,109] [,110] [,111] [,112] [,113] [,114] [,115] [,116] [,117] [,118]
## [1,]      0      0      0      0      0      0      1      0      0      0
## [2,]      0      0      0      0      0      0      0      0      0      0
## [3,]      0      0      0      0      0      0      0      0      0      0
## [4,]      0      0      0      0      0      0      0      0      0      0
## [5,]      0      0      0      0      0      0      0      0      0      0
## [6,]      0      0      0      0      0      0      0      0      0      0
##      [,119] [,120] [,121] [,122] [,123] [,124] [,125] [,126] [,127] [,128]
## [1,]      0      0      0      0      0      0      0      0      0      0
## [2,]      0      0      0      0      0      0      0      0      0      0
## [3,]      0      0      0      0      1      0      0      0      0      0
## [4,]      0      0      0      0      0      0      0      0      0      0
## [5,]      0      0      0      0      0      0      0      0      0      0
## [6,]      0      0      0      0      0      0      0      0      0      0
##      [,129] [,130] [,131] [,132] [,133] [,134] [,135] [,136] [,137] [,138]
## [1,]      0      0      0      0      0      0      0      0      0      0
## [2,]      0      0      0      0      0      0      0      0      0      0
## [3,]      0      0      0      0      0      0      0      0      0      0
## [4,]      0      0      0      0      0      0      0      0      0      0
## [5,]      0      0      0      0      0      0      0      0      0      0
## [6,]      0      0      0      0      0      0      0      0      0      0
##      [,139] [,140] [,141] [,142] [,143] [,144] [,145] [,146] [,147] [,148]
## [1,]      0      0      0      0      0      0      0      0      0      0
## [2,]      0      0      0      0      0      0      0      0      0      0
## [3,]      0      0      0      0      0      0      0      0      0      0
## [4,]      0      0      0      0      0      0      0      0      0      0
## [5,]      0      0      0      0      0      0      0      0      0      0
## [6,]      0      0      0      0      0      0      0      0      0      0
##      [,149] [,150] [,151] [,152] [,153] [,154] [,155] [,156] [,157] [,158]
## [1,]      0      0      0      0      0      0      0      0      0      0
## [2,]      0      0      0      0      0      0      0      0      0      0
## [3,]      0      0      0      0      0      0      0      0      0      0
## [4,]      0      0      0      0      0      0      0      0      0      0
## [5,]      0      0      0      0      0      0      0      0      0      0
## [6,]      0      0      0      0      0      0      0      0      0      0
##      [,159] [,160] [,161] [,162] [,163] [,164] [,165] [,166] [,167] [,168]
## [1,]      0      0      0      0      0      0      0      0      0      0
## [2,]      0      0      1      0      0      0      1      0      0      0
## [3,]      0      0      0      0      0      0      0      0      0      0
## [4,]      0      0      0      0      0      0      0      0      0      0
## [5,]      0      0      0      0      0      0      0      0      0      0
## [6,]      0      0      0      0      0      0      0      0      0      0
##      [,169] [,170] [,171] [,172] [,173] [,174] [,175] [,176] [,177] [,178]
## [1,]      0      0      0      0      0      0      0      0      0      0
## [2,]      0      0      0      0      0      0      0      0      0      0
## [3,]      0      0      0      0      0      0      0      0      0      0
## [4,]      0      0      0      0      0      0      0      0      0      0
## [5,]      0      0      0      0      0      0      0      0      0      1
## [6,]      0      0      0      0      0      0      0      0      0      0
##      [,179] [,180] [,181] [,182] [,183] [,184] [,185] [,186] [,187] [,188]
## [1,]      0      0      0      0      0      0      0      0      0      0
## [2,]      0      0      0      0      0      0      1      0      0      0
## [3,]      0      0      0      0      0      0      0      0      0      0
## [4,]      0      0      0      0      0      0      0      0      0      0
## [5,]      0      0      0      0      0      0      0      0      0      0
## [6,]      0      0      0      0      0      0      0      0      0      0
##      [,189] [,190] [,191] [,192] [,193] [,194] [,195] [,196] [,197] [,198]
## [1,]      0      0      0      0      0      0      0      0      0      0
```

```
## [2,]      0      0      0      0      0      0      0      0      0      0
## [3,]      0      0      0      0      0      0      0      0      0      0
## [4,]      0      0      0      0      0      0      0      0      0      0
## [5,]      0      0      0      0      0      0      0      0      0      0
## [6,]      0      0      0      0      0      0      0      0      0      1
##      [,199] [,200]
## [1,]      0      0
## [2,]      0      0
## [3,]      0      0
## [4,]      0      0
## [5,]      0      0
## [6,]      0      0
```

Exportar nodos n-1 en gráfico gml

```
write.graph(MST,file="g.gml", format = "gml")
```

Exportar resultados para cytoscape o gephi

```
write.csv(A, file= "Adyacentes.csv")
```

title: “LAB 11”

author: “JESSICA PAOLA AGUILAR SERVIN”

date: “2023-02-23”

output: html_document

LABORATORIO 4: Visión clara del espacio-producto: CASO REAL_exportaciones hidalguenses
##

Objetivo: Estimar el Maximum Spanning Tree -Árbol de expansión máxima- (asegurar una visión clara del espacio-producto) Red troncal: Estructura general de la red: vamos a poder ver redes complejas Regla 1: mantener n-1 conexiones como máximo Regla 2: Quitar las conexiones con el peso más bajo, nos vamos quedar con las del peso máximo (menos conexiones) Regla 3: No crear nodos aislados ——————

1.Cómo crear una Visión clara del espacio-producto: árbol de expansión máxima (MST) Paquete: Balland, P.A. (2017) Economic Geography in R: Introduction to the EconGeo Package, Papers in Evolutionary Economic Geography, 17 (09): 1-75 Para instalar: https://www.paballand.com/install-r (https://www.paballand.com/install-r)

Cargar paquete

```
library(EconGeo)
```

```
##
## Please cite EconGeo in publications as:
```

```
##  Balland, P.A. (2017) Economic Geography in R: Introduction to the EconGeo Package, Papers in Evolutionary Eco
nomic Geography, 17 (09): 1-75
```

Ubicar archivo

```
M = as.matrix(
  read.csv("~/GitHub/JPAS_LABS24/INPUT/CUADERNOS MD/relatednessbinario.csv" ,
           sep = ",",
           header = T,
           row.names = 1))
```

Visualizar e Importar matriz relatednessbinario

```
head (M[,1:10])
```

```
##      X102 X210 X401 X403 X406 X510 X602 X603 X702 X703
## X102    0    0    1    1    0    0    0    0    0    0
## X210    0    0    0    1    1    0    0    0    1    0
## X401    1    0    0    0    0    0    0    0    0    0
## X403    1    1    0    0    1    0    0    0    0    0
## X406    0    1    0    1    0    0    0    0    1    0
## X510    0    0    0    0    0    0    0    0    0    0
```

```
dim (M)
```

```
## [1] 429 429
```

Grafica la matriz de proximidades natural

```
library (igraph)
```

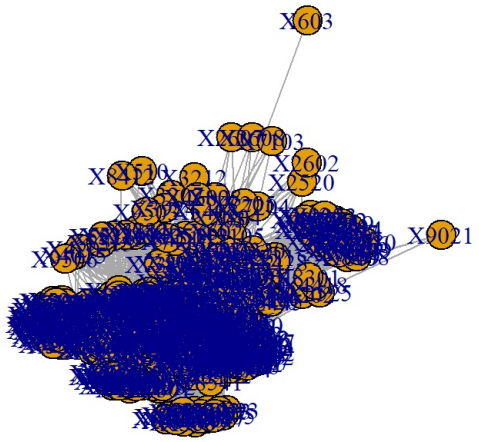
```
##
## Attaching package: 'igraph'
```

```
## The following object is masked from 'package:EconGeo':
##
##     diversity
```

```
## The following objects are masked from 'package:stats':
##
##     decompose, spectrum
```

```
## The following object is masked from 'package:base':
##
##     union
```

```
red_hidalgo1 <- graph.adjacency(M, mode= "undireCted" , weighted= TRUE)
plot(red_hidalgo1)
```



Transforma la matriz en en NEGATIVA y para identificar los máximos

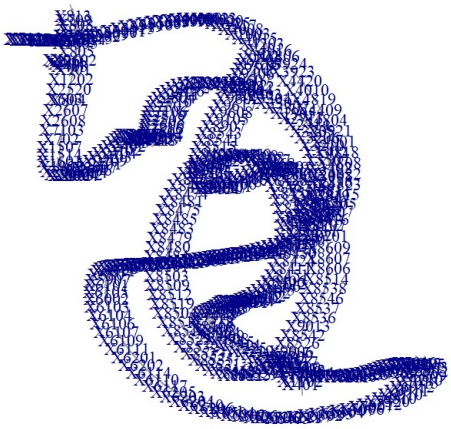
```
M <- -M
head(M[,1:6])
```

```
##      X102 X210 X401 X403 X406 X510
## X102    0    0   -1   -1    0    0
## X210    0    0    0   -1   -1    0
## X401   -1    0    0    0    0    0
## X403   -1   -1    0    0   -1    0
## X406    0   -1    0   -1    0    0
## X510    0    0    0    0    0    0
```

Grafica la nueva matriz negativa con MST

```
red_hidalgo2 <- graph.adjacency(M, mode= "undirected", weighted = TRUE)
MST <- minimum.spanning.tree(red_hidalgo2)
plot(MST, vertex.shape= "none", vertex.label.cex=.7)
```

```
## Warning in v(graph): Non-positive edge weight found, ignoring all weights
## during graph layout.
```



Exportar datos nodos n-1

```
write.graph(MST,file= "redhidalgo2.gml", format="gml")
```

Matriz de proximos adyaentes (nuevo relacionamiento). exportar LISTA DE EDGE

```
A <- get.adjacency(MST, sparse = F)
```

Exportar matriz de proximos adyacentes

```
write.csv(A, file = "AdyacentesConMST.csv")
```

title: “LAB 12”

author: “JESSICA PAOLA AGUILAR SERVIN”

date: “2023-02-23”

output: html_document

video 05 - DENSIDAD DEL RELACIONAMIENTO: CASO HIPOTÉTICO

Objetivo: Estimar la densidad del relacionamiento (rd) La densidad varia entre 0 y 1, los valores más grandes indican que la región ha avanzado a una VCR en muchos bienes proximos al bien i y tiene mayor probabilidad de exportarlo en el futuro….mayor densidad, mayor cercanía. Menor densidad, mayor lejanía. ——————————————————————————————— En este laboratorio vamos a: 1. Cargar una matriz hipotética de datos 2. Estimar la VCR de la matriz hipotética 3. Calcular las co-ocurrencias y el relacionamiento (espacio-producto) 4. Estimar la densidad del relacionamiento (rd). Buscamos saber si las industrias que estan relacionadas estan presentes en las regiones o no. Nivel de cercanía
5. Predecir la entrada de una nueva industria Econometría usar count(densidad del relacionamiento) como regresora (predictora) de la entrada de una nueva industria

LABORATORIO 5: densidad del relacionamiento (rd) ##

1.Cómo se mide la densidad del relacionamiento (rd)? Paquete: Balland, P.A. (2017) Economic Geography in R: Introduction to the EconGeo Package, Papers in Evolutionary Economic Geography, 17 (09): 1-75 Para instalar: https://www.paballand.com/install-r (https://www.paballand.com/install-r)

```
library (EconGeo)
```

```
##
## Please cite EconGeo in publications as:
```

```
##  Balland, P.A. (2017) Economic Geography in R: Introduction to the EconGeo Package, Papers in Evolutionary Eco
nomic Geography, 17 (09): 1-75
```

Preguntar la Ventaja comparativa revelada

```
?RCA
```

```
## starting httpd help server ... done
```

Usa la documentación para generar “mat” y crear una matriz con RCA copia los datos de las utilidades a la consola generate a region - industry matrix

```
set.seed(31)
mat <- matrix(sample(0:100,20, replace = T), ncol=4)
rownames (mat) <- c ("R1", "R2", "R3", "R4", "R5")
colnames(mat) <- c ("I1", "I2", "I3", "I4")
```

Escribe mat en la consola, visualizar matriz que tiene regiones e industrias

```
mat
```

```
##    I1 I2 I3 I4
## R1 44 63  8 83
## R2 48 42 10  1
## R3 74 54 96 16
## R4 39 26 28 13
## R5 89 61 45 76
```

```
dim(mat)
```

```
## [1] 5 4
```

Ve la nueva matriz binaria de RCA Correr el RCA de la matriz original (rca básicamente es un indicador de especialización, Produce mas de lo esperado basado en el tamaño de la región y de la industria)

```
mat= RCA(mat, binary = 1)
```

Visualizar matriz binarizada

```
mat
```

```
##    I1 I2 I3 I4
## R1  0  1  0  1
## R2  1  1  0  0
## R3  0  0  1  0
## R4  1  0  1  0
## R5  1  0  0  1
```

Calcula la matriz de co-ocurrencia de la mat transpuesta

```
c = co.occurrence(t(mat))
c
```

```
##    I1 I2 I3 I4
## I1  0  1  1  1
## I2  1  0  0  1
## I3  1  0  0  0
## I4  1  1  0  0
```

Calcula el relacionamiento con base en las co-ocurrencias

```
r= relatedness(c)
r
```

```
##           I1        I2       I3        I4
## I1 0.0000000 0.9090909 1.944444 0.9090909
## I2 0.9090909 0.0000000 0.000000 1.5000000
## I3 1.9444444 0.0000000 0.000000 0.0000000
## I4 0.9090909 1.5000000 0.000000 0.0000000
```

Aplicar la regla binaria y visualizar

```
r[r<1] =0
r[r>1] =1
r
```

```
##    I1 I2 I3 I4
## I1  0  0  1  0
## I2  0  0  0  1
## I3  1  0  0  0
## I4  0  1  0  0
```

Densidad del relacionamiento Asegurate que hayas computado la matriz binaria de RCA antes de computar el Relacionamiento-densidad Se usa la matriz de VCR Y el espacio producto (r)

```
mat
```

```
##    I1 I2 I3 I4
## R1  0  1  0  1
## R2  1  1  0  0
## R3  0  0  1  0
## R4  1  0  1  0
## R5  1  0  0  1
```

```
r
```

```
##    I1 I2 I3 I4
## I1  0  0  1  0
## I2  0  0  0  1
## I3  1  0  0  0
## I4  0  1  0  0
```

Con las dos matrices se calcula el relacionamiento y se visualiza el resultado

```
rd= relatedness.density(mat,r)
rd
```

```
##     I1  I2  I3  I4
## R1   0 100   0 100
## R2   0   0 100 100
## R3 100   0   0   0
## R4 100   0 100   0
## R5   0 100 100   0
```

Rango 0-100 la industria 1 (I1) esta relacionada con la industria 2 y 3 (I2, I3) (I1)R = 2 (I2;I3) Y la región 1 (R1) ya tiene la industria 2 (I2), pero no tiene la industria 3 (I3) HAY 2 INDUSTRIAS RELACIONADAS CON LA INDUSTRIA 1, POR ESO 2 PERO LA REGIÓN 1 SÓLO TIENE 1 DE ESAS INDUSTRIAS RELACIONADAS ENTONCES 1/2=0.5

Convertir la matriz en lista y visualizar

```
rd = get.list(rd)
```

```
##
## Attaching package: 'reshape'
```

```
## The following object is masked from 'package:Matrix':
##
##     expand
```

```
rd
```

```
##    Region Industry Count
## 1      R1       I1     0
## 2      R2       I1     0
## 3      R3       I1   100
## 4      R4       I1   100
## 5      R5       I1     0
## 6      R1       I2   100
## 7      R2       I2     0
## 8      R3       I2     0
## 9      R4       I2     0
## 10     R5       I2   100
## 11     R1       I3     0
## 12     R2       I3   100
## 13     R3       I3     0
## 14     R4       I3   100
## 15     R5       I3   100
## 16     R1       I4   100
## 17     R2       I4   100
## 18     R3       I4     0
## 19     R4       I4     0
## 20     R5       I4     0
```

Para econometría Predecir entrada

```
?entry.list
```

Mira la sección de ejemplos. Copia-pega los datos a la consola matrices en 2 momentos en el tiempo generate a first region - industry matrix in which cells represent the presence/absence of a RCA (period 1)

```
set.seed(31)
mat1 <- matrix(sample(0:1,20,replace=T), ncol = 4)
rownames(mat1) <- c ("R1", "R2", "R3", "R4", "R5")
colnames(mat1) <- c ("I1", "I2", "I3", "I4")

mat1
```

```
##    I1 I2 I3 I4
## R1  0  1  0  1
## R2  0  0  0  1
## R3  0  0  0  1
## R4  1  0  0  1
## R5  1  1  1  0
```

Generate a second region - industry matrix in which cells represent the presence/absence of a RCA (period 2)

```
mat2 <- mat1
mat2[3,1] <- 1

mat2
```

```
##    I1 I2 I3 I4
## R1  0  1  0  1
## R2  0  0  0  1
## R3  1  0  0  1
## R4  1  0  0  1
## R5  1  1  1  0
```

```
mat1
```

```
##    I1 I2 I3 I4
## R1  0  1  0  1
## R2  0  0  0  1
## R3  0  0  0  1
## R4  1  0  0  1
## R5  1  1  1  0
```

Evidenciar entradas

```
d = entry.list(mat1,mat2)
d
```

```
##    region industry entry period
## 1      R1       I1     0      2
## 2      R2       I1     0      2
## 3      R3       I1     1      2
## 4      R4       I1    NA      2
## 5      R5       I1    NA      2
## 6      R1       I2    NA      2
## 7      R2       I2     0      2
## 8      R3       I2     0      2
## 9      R4       I2     0      2
## 10     R5       I2    NA      2
## 11     R1       I3     0      2
## 12     R2       I3     0      2
## 13     R3       I3     0      2
## 14     R4       I3     0      2
## 15     R5       I3    NA      2
## 16     R1       I4    NA      2
## 17     R2       I4    NA      2
## 18     R3       I4    NA      2
## 19     R4       I4    NA      2
## 20     R5       I4     0      2
```

Ver que las posibilidades de entrada es cuando tienes un 0 de VCR cuando tienes 1 puedes: permanecer o salir, pero no entrar NA, no puede entrar 1 tiene potencial de entrada y entró 0 puede tener potencial de entrada, pero no ha entrado Visualizar resultado

```
colnames(d) = c("Region", "Industry", "Entry", "Period")
d= merge(d, rd, by= c("Region", "Industry"))

d
```

```
##    Region Industry Entry Period Count
## 1      R1       I1     0      2     0
## 2      R1       I2    NA      2   100
## 3      R1       I3     0      2     0
## 4      R1       I4    NA      2   100
## 5      R2       I1     0      2     0
## 6      R2       I2     0      2     0
## 7      R2       I3     0      2   100
## 8      R2       I4    NA      2   100
## 9      R3       I1     1      2   100
## 10     R3       I2     0      2     0
## 11     R3       I3     0      2     0
## 12     R3       I4    NA      2     0
## 13     R4       I1    NA      2   100
## 14     R4       I2     0      2     0
## 15     R4       I3     0      2   100
## 16     R4       I4    NA      2     0
## 17     R5       I1    NA      2     0
## 18     R5       I2    NA      2   100
## 19     R5       I3    NA      2   100
## 20     R5       I4     0      2     0
```

Abre d para identificar que se busca explicar que tanto la “densidad del relacionamiento” (x) impacta la entrada (y) Aabre rd que es la “densidad del relacionamiento” como regresora (variable explicativa-x-) de la “entrada” (variable explicada-y-)

```
summary (lm(d$Entry ~ d$Count))
```

```
##
## Call:
## lm(formula = d$Entry ~ d$Count)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -0.3333  0.0000  0.0000  0.0000  0.6667
##
## Coefficients:
##               Estimate Std. Error t value Pr(>|t|)
## (Intercept) -3.347e-17  9.623e-02   0.000    1.000
## d$Count      3.333e-03  1.843e-03   1.809    0.104
##
## Residual standard error: 0.2722 on 9 degrees of freedom
##   (9 observations deleted due to missingness)
## Multiple R-squared:  0.2667, Adjusted R-squared:  0.1852
## F-statistic: 3.273 on 1 and 9 DF,  p-value: 0.1039
```

Resultados lm(dependiente~independiente1+independiente2, data=datos) que tanto la “densidad del relacionamiento” impacta la entrada exportar resultados para cytoscape o gephi

title: “LAB 13”

author: “JESSICA PAOLA AGUILAR SERVIN”

date: “2023-02-23”

output: html_document

LABORATORIO - Gráficos en R con ggplot2

Instalar paqueterias necesarias cargar libreria ggplot2

```
library(ggplot2)
```

Leer Bases de datos

```
green_data <- read.csv("~/GitHub/JPAS_LAB13/INPUT/REGESIONES FINALES.csv")
```

Echando un ojo a los datos

```
names(green_data)
```

```
## [1] "STATE"     "GCI_rank"  "ICE_rank"  "GCI_index" "ICE_index" "PIBE"
## [7] "LPIBE"
```

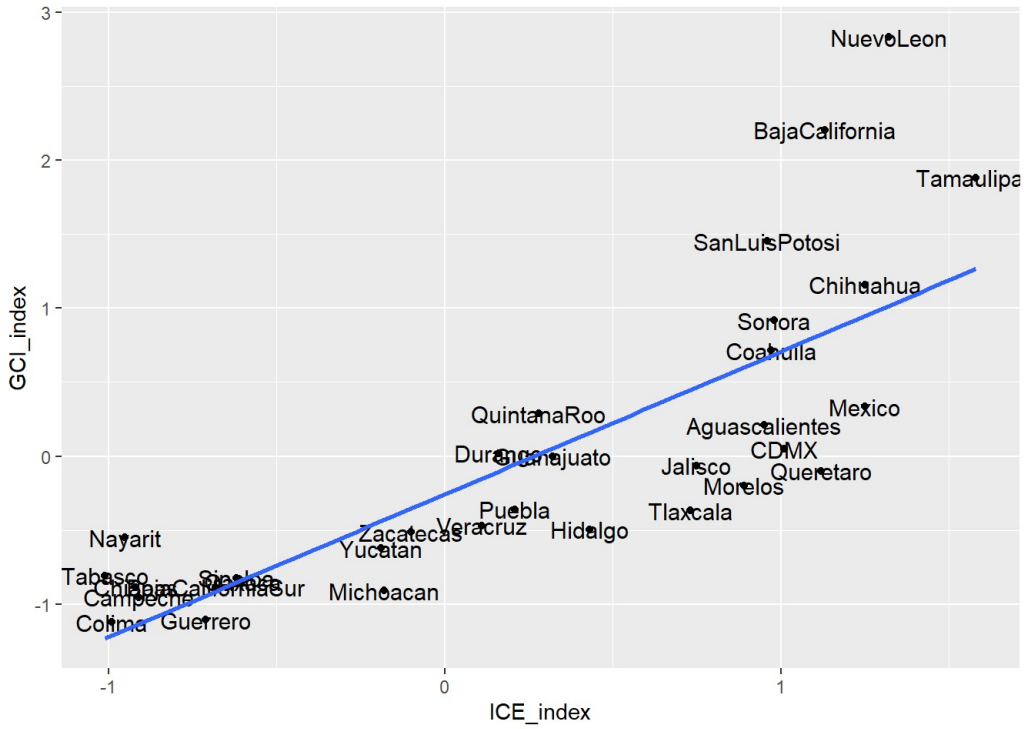
Generar primer grafico

```
p1 <- ggplot(data = green_data,
             mapping = aes(x = ICE_index,
                           y = GCI_index,)) +
geom_point()+
  geom_text(label= green_data$STATE,
            color= "black",
            size= 4)+
  geom_point() +
  geom_smooth(method = lm,
              se=FALSE,
              fullrange =T)
```

Visualizar p1

```
p1
```

```
## `geom_smooth()` using formula = 'y ~ x'
```



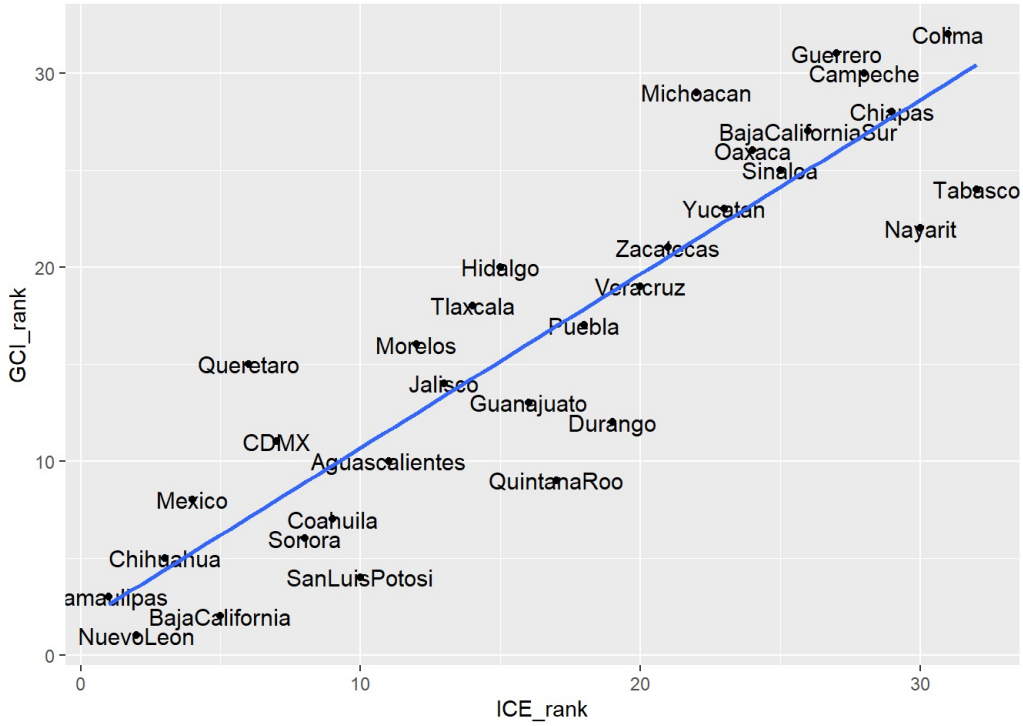
Generar segundo grafico reciclado del codigo anterior

```
p2 <- ggplot(data = green_data,
             mapping = aes(x = ICE_rank,
                           y = GCI_rank,)) +
  geom_point()+
  geom_text(label= green_data$STATE,
            color= "black",
            size= 4)+
  geom_point() +
  geom_smooth(method = lm,
              se=FALSE,
              fullrange =T)
```

Visualizar p2

```
p2
```

```
## `geom_smooth()` using formula = 'y ~ x'
```



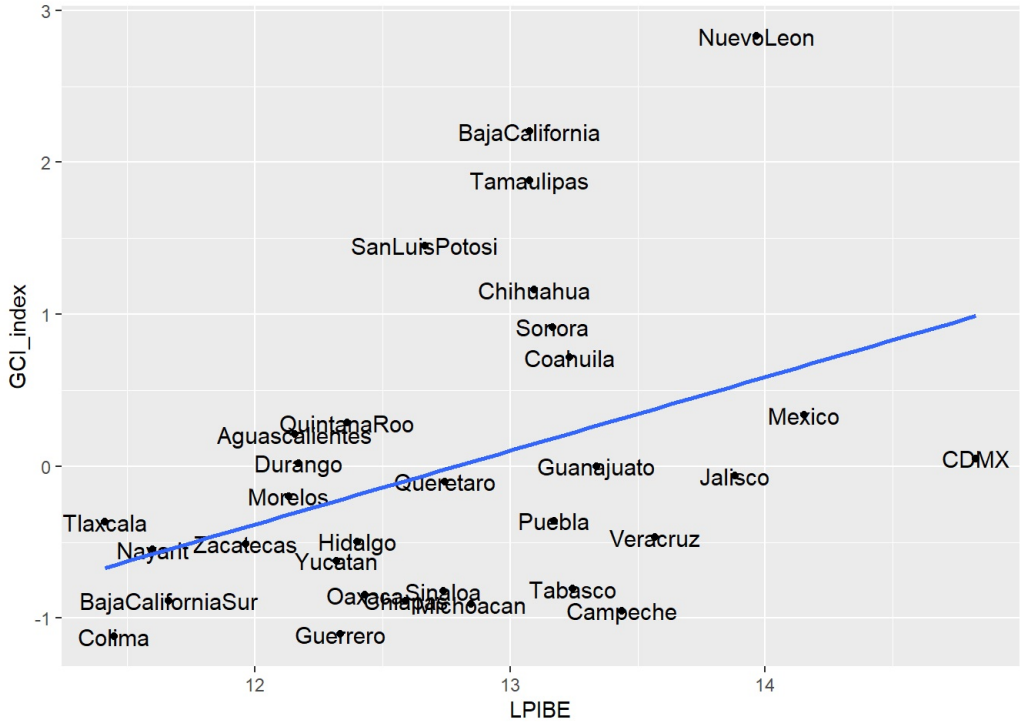
Generar tercer grafico

```
p3 <- ggplot(data = green_data,
             mapping = aes(x = LPIBE,
                           y = GCI_index,)) +
  geom_point()+
  geom_text(label= green_data$STATE,
            color= "black",
            size= 4)+
  geom_point() +
  geom_smooth(method = lm,
              se=FALSE,
              fullrange =T)
```

VIsualizar p3

```
p3
```

```
## `geom_smooth()` using formula = 'y ~ x'
```



Correlación entre las primeras variables

```
install.packages
```

```
## function (pkgs, lib, repos = getOption("repos"), contriburl = contrib.url(repos,
##     type), method, available = NULL, destdir = NULL, dependencies = NA,
##     type = getOption("pkgType"), configure.args = getOption("configure.args"),
##     configure.vars = getOption("configure.vars"), clean = FALSE,
##     Ncpus = getOption("Ncpus", 1L), verbose = getOption("verbose"),
##     libs_only = FALSE, INSTALL_opts, quiet = FALSE, keep_outputs = FALSE,
##     ...)
## {
##     if (!is.character(type))
##         stop("invalid 'type'; must be a character string")
##     type2 <- .Platform$pkgType
##     if (type == "binary") {
##         if (type2 == "source")
##             stop("type 'binary' is not supported on this platform")
##         else type <- type2
##         if (type == "both" && (!missing(contriburl) || !is.null(available)))
##             stop("specifying 'contriburl' or 'available' requires a single type, not type = \"both\"")
##     }
##     if (is.logical(clean) && clean)
##         clean <- "--clean"
##     if (is.logical(dependencies) && is.na(dependencies))
##         dependencies <- if (!missing(lib) && length(lib) > 1L)
##             FALSE
##         else c("Depends", "Imports", "LinkingTo")
##     get_package_name <- function(pkg) {
##         gsub("_[.](zip|tar[.]gz|tar[.]bzip2|tar[.]xz)", "", gsub(.standard_regexps()$valid_package_version,
##             "", basename(pkg)))
##     }
##     getConfigureArgs <- function(pkg) {
##         if (.Platform$OS.type == "windows")
##             return(character())
##         if (length(pkgs) == 1L && length(configure.args) && length(names(configure.args)) ==
##             0L)
##             return(paste0("--configure-args=", shQuote(paste(configure.args,
##                 collapse = " "))))
##         pkg <- get_package_name(pkg)
##         if (length(configure.args) && length(names(configure.args)) &&
##             pkg %in% names(configure.args))
##             config <- paste0("--configure-args=", shQuote(paste(configure.args[[pkg]],
##                 collapse = " "))))
##         else config <- character()
##         config
##     }
##     getConfigureVars <- function(pkg) {
##         if (.Platform$OS.type == "windows")
##             return(character())
##         if (length(pkgs) == 1L && length(configure.vars) && length(names(configure.vars)) ==
```

```
##             0L)
##             return(paste0("--configure-vars=", shQuote(paste(configure.vars,
##                 collapse = " "))))
##         pkg <- get_package_name(pkg)
##         if (length(configure.vars) && length(names(configure.vars)) &&
##             pkg %in% names(configure.vars))
##             config <- paste0("--configure-vars=", shQuote(paste(configure.vars[[pkg]],
##                 collapse = "")))
##         else config <- character()
##         config
##     }
##     get_install_opts <- function(pkg) {
##         if (!length(INSTALL_opts))
##             character()
##         else paste(INSTALL_opts[[get_package_name(pkg)]], collapse = " ")
##     }
##     if (missing(pkgs)) {
##         if (!interactive())
##             stop("no packages were specified")
##         if (.Platform$OS.type == "windows" || .Platform$GUI ==
##             "AQUA" || (capabilities("tcltk") && capabilities("X11") &&
##             suppressWarnings(tcltk::.TkUp))) {
##         }
##         else stop("no packages were specified")
##         if (is.null(available)) {
##             av <- available.packages(contriburl = contriburl,
##                 method = method, ...)
##             if (missing(repos))
##                 repos <- getOption("repos")
##             if (type != "both")
##                 available <- av
##         }
##         else av <- available
##         if (NROW(av)) {
##             pkgs <- select.list(sort(unique(rownames(av))), multiple = TRUE,
##                 title = "Packages", graphics = TRUE)
##         }
##     }
##     if (.Platform$OS.type == "windows" && length(pkgs)) {
##         pkgnames <- get_package_name(pkgs)
##         inuse <- search()
##         inuse <- sub("^package:", "", inuse[grep("^package:",
##             inuse)])
##         inuse <- pkgnames %in% inuse
##         if (any(inuse)) {
##             warning(sprintf(ngettext(sum(inuse), "package %s is in use and will not be installed",
##                 "packages %s are in use and will not be installed"),
##                 paste(sQuote(pkgnames[inuse]), collapse = ", ")),
##                 call. = FALSE, domain = NA, immediate. = TRUE)
##             pkgs <- pkgs[!inuse]
##         }
##     }
##     if (!length(pkgs))
##         return(invisible())
##     if (missing(lib) || is.null(lib)) {
##         lib <- .libPaths()[1L]
##         if (!quiet && length(.libPaths()) > 1L)
##             message(sprintf(ngettext(length(pkgs), "Installing package into %s\n(as %s is unspecified)",
##                 "Installing packages into %s\n(as %s is unspecified)"),
##                 sQuote(lib), sQuote("lib")), domain = NA)
##     }
##     ok <- dir.exists(lib) & (file.access(lib, 2) == 0L)
##     if (length(lib) > 1 && any(!ok))
##         stop(sprintf(ngettext(sum(!ok), "'lib' element %s is not a writable directory",
##             "'lib' elements %s are not writable directories"),
##             paste(sQuote(lib[!ok]), collapse = ", ")), domain = NA)
##     if (length(lib) == 1L && .Platform$OS.type == "windows") {
##         ok <- dir.exists(lib)
##         if (ok) {
##             fn <- file.path(lib, paste0("_test_dir_", Sys.getpid()))
##             unlink(fn, recursive = TRUE)
##             res <- try(dir.create(fn, showWarnings = FALSE))
##             if (inherits(res, "try-error") || !res)
##                 ok <- FALSE
##             else unlink(fn, recursive = TRUE)
##         }
##     }
##     if (length(lib) == 1L && !ok) {
##         warning(gettextf("'lib = \"%s\"' is not writable", lib),
```

```
##             domain = NA, immediate. = TRUE)
##         userdir <- unlist(strsplit(Sys.getenv("R_LIBS_USER"),
##             .Platform$path.sep))[1L]
##         if (interactive()) {
##             ans <- askYesNo(gettext("Would you like to use a personal library instead?"),
##                 default = FALSE)
##             if (!isTRUE(ans))
##                 stop("unable to install packages")
##             lib <- userdir
##             if (!file.exists(userdir)) {
##                 ans <- askYesNo(gettextf("Would you like to create a personal library\n%s\nto install packages
into?",
##                   sQuote(userdir)), default = FALSE)
##                 if (!isTRUE(ans))
##                   stop("unable to install packages")
##                 if (!dir.create(userdir, recursive = TRUE))
##                   stop(gettextf("unable to create %s", sQuote(userdir)),
##                     domain = NA)
##                 .libPaths(c(userdir, .libPaths()))
##             }
##         }
##         else stop("unable to install packages")
##     }
##     lib <- normalizePath(lib)
##     if (length(pkgs) == 1L && missing(repos) && missing(contriburl)) {
##         if ((type == "source" && any(grepl("[.]tar[.](gz|bz2|xz)$",
##             pkgs))) || (type %in% "win.binary" && endsWith(pkgs,
##             ".zip")) || (startsWith(type, "mac.binary") && endsWith(pkgs,
##             ".tgz"))) {
##             repos <- NULL
##             message("inferring 'repos = NULL' from 'pkgs'")
##         }
##         if (type == "both") {
##             if (type2 %in% "win.binary" && endsWith(pkgs, ".zip")) {
##                 repos <- NULL
##                 type <- type2
##                 message("inferring 'repos = NULL' from 'pkgs'")
##             }
##             else if (startsWith(type2, "mac.binary") && endsWith(pkgs,
##                 ".tgz")) {
##                 repos <- NULL
##                 type <- type2
##                 message("inferring 'repos = NULL' from 'pkgs'")
##             }
##             else if (grepl("[.]tar[.](gz|bz2|xz)$", pkgs)) {
##                 repos <- NULL
##                 type <- "source"
##                 message("inferring 'repos = NULL' from 'pkgs'")
##             }
##         }
##     }
##     if (length(pkgs) == 1L && is.null(repos) && type == "both") {
##         if ((type2 %in% "win.binary" && endsWith(pkgs, ".zip")) ||
##             (startsWith(type2, "mac.binary") && endsWith(pkgs,
##                 ".tgz"))) {
##             type <- type2
##         }
##         else if (grepl("[.]tar[.](gz|bz2|xz)$", pkgs)) {
##             type <- "source"
##         }
##     }
##     if (is.null(repos) && missing(contriburl)) {
##         tmpd <- destdir
##         nonlocalrepos <- any(web <- grepl("^(http|https|ftp)://",
##             pkgs))
##         if (is.null(destdir) && nonlocalrepos) {
##             tmpd <- file.path(tempdir(), "downloaded_packages")
##             if (!file.exists(tmpd) && !dir.create(tmpd))
##                 stop(gettextf("unable to create temporary directory %s",
##                   sQuote(tmpd)), domain = NA)
##         }
##         if (nonlocalrepos) {
##             df <- function(p, destfile, method, ...) download.file(p,
##                 destfile, method, mode = "wb", ...)
##             urls <- pkgs[web]
##             for (p in unique(urls)) {
##                 this <- pkgs == p
##                 destfile <- file.path(tmpd, basename(p))
##                 res <- try(df(p, destfile, method, ...))
```

```
##                 if (!inherits(res, "try-error") && res == 0L)
##                   pkgs[this] <- destfile
##                 else {
##                   pkgs[this] <- NA
##                 }
##             }
##         }
##     }
##     if (type == "both") {
##         if (type2 == "source")
##             stop("type == \"both\" can only be used on Windows or a CRAN build for macOS")
##         if (!missing(contriburl) || !is.null(available))
##             type <- type2
##     }
##     getDeps <- TRUE
##     if (type == "both") {
##         if (is.null(repos))
##             stop("type == \"both\" cannot be used with 'repos = NULL'")
##         type <- "source"
##         contriburl <- contrib.url(repos, "source")
##         if (missing(repos))
##             repos <- getOption("repos")
##         available <- available.packages(contriburl = contriburl,
##             method = method, fields = "NeedsCompilation", ...)
##         pkgs <- getDependencies(pkgs, dependencies, available,
##             lib, ...)
##         getDeps <- FALSE
##         av2 <- available.packages(contriburl = contrib.url(repos,
##             type2), method = method, ...)
##         bins <- row.names(av2)
##         bins <- pkgs[pkgs %in% bins]
##         srcOnly <- pkgs[!pkgs %in% bins]
##         binvers <- av2[bins, "Version"]
##         hasArchs <- !is.na(av2[bins, "Archs"])
##         needsCmp <- !(available[bins, "NeedsCompilation"] %in%
##             "no")
##         hasSrc <- hasArchs | needsCmp
##         srcvers <- available[bins, "Version"]
##         later <- as.numeric_version(binvers) < srcvers
##         action <- getOption("install.packages.compile.from.source",
##             "interactive")
##         if (!nzchar(Sys.which(Sys.getenv("MAKE", "make"))))
##             action <- "never"
##         if (any(later)) {
##             msg <- ngettext(sum(later), "There is a binary version available but the source version is later",
##                 "There are binary versions available but the source versions are later")
##             cat("\n", paste(strwrap(msg, indent = 2, exdent = 2),
##                 collapse = "\n"), ":\n", sep = "")
##             out <- data.frame(binary = binvers, source = srcvers,
##                 needs_compilation = hasSrc, row.names = bins,
##                 check.names = FALSE)[later, ]
##             print(out)
##             cat("\n")
##             if (any(later & hasSrc)) {
##                 if (action == "interactive" && interactive()) {
##                   msg <- ngettext(sum(later & hasSrc), "Do you want to install from sources the package which
needs compilation?",
##                     "Do you want to install from sources the packages which need compilation?")
##                   res <- askYesNo(msg)
##                   if (is.na(res))
##                     stop("Cancelled by user")
##                   if (!isTRUE(res))
##                     later <- later & !hasSrc
##                 }
##                 else if (action == "never") {
##                   cat("  Binaries will be installed\n")
##                   later <- later & !hasSrc
##                 }
##             }
##         }
##         bins <- bins[!later]
##         if (length(srcOnly)) {
##             s2 <- srcOnly[!(available[srcOnly, "NeedsCompilation"] %in%
##                 "no")]
##             if (length(s2)) {
##                 msg <- ngettext(length(s2), "Package which is only available in source form, and may need comp
ilation of C/C++/Fortran",
##                   "Packages which are only available in source form, and may need compilation of C/C++/Fortran
")
```

```
##                 msg <- c(paste0(msg, ": "), sQuote(s2))
##                 msg <- strwrap(paste(msg, collapse = " "), exdent = 2)
##                 message(paste(msg, collapse = "\n"), domain = NA)
##                 if (action == "interactive" && interactive()) {
##                   res <- askYesNo("Do you want to attempt to install these from sources?")
##                   if (is.na(res))
##                     stop("Cancelled by user")
##                   if (!isTRUE(res))
##                     pkgs <- setdiff(pkgs, s2)
##                 }
##                 else if (action == "never") {
##                   cat("  These will not be installed\n")
##                   pkgs <- setdiff(pkgs, s2)
##                 }
##             }
##         }
##         if (length(bins)) {
##             if (type2 == "win.binary")
##                 .install.winbinary(pkgs = bins, lib = lib, contriburl = contrib.url(repos,
##                   type2), method = method, available = av2, destdir = destdir,
##                   dependencies = NULL, libs_only = libs_only,
##                   quiet = quiet, ...)
##             else .install.macbinary(pkgs = bins, lib = lib, contriburl = contrib.url(repos,
##                 type2), method = method, available = av2, destdir = destdir,
##                 dependencies = NULL, quiet = quiet, ...)
##         }
##         pkgs <- setdiff(pkgs, bins)
##         if (!length(pkgs))
##             return(invisible())
##         message(sprintf(ngettext(length(pkgs), "installing the source package %s",
##             "installing the source packages %s"), paste(sQuote(pkgs),
##             collapse = ", ")), "\n", domain = NA)
##         flush.console()
##     }
##     else if (getOption("install.packages.check.source", "yes") %in%
##         "yes" && (type %in% "win.binary" || startsWith(type,
##         "mac.binary"))) {
##         if (missing(contriburl) && is.null(available) && !is.null(repos)) {
##             contriburl2 <- contrib.url(repos, "source")
##             if (missing(repos))
##                 repos <- getOption("repos")
##             av1 <- tryCatch(suppressWarnings(available.packages(contriburl = contriburl2,
##                 method = method, ...)), error = function(e) e)
##             if (inherits(av1, "error")) {
##                 message("source repository is unavailable to check versions")
##                 available <- available.packages(contriburl = contrib.url(repos,
##                   type), method = method, ...)
##             }
##             else {
##                 srcpkgs <- pkgs[pkgs %in% row.names(av1)]
##                 available <- available.packages(contriburl = contrib.url(repos,
##                   type), method = method, ...)
##                 bins <- pkgs[pkgs %in% row.names(available)]
##                 na <- srcpkgs[!srcpkgs %in% bins]
##                 if (length(na)) {
##                   msg <- sprintf(ngettext(length(na), "package %s is available as a source package but not as
a binary",
##                     "packages %s are available as source packages but not as binaries"),
##                     paste(sQuote(na), collapse = ", "))
##                   cat("\n   ", msg, "\n\n", sep = "")
##                 }
##                 binvers <- available[bins, "Version"]
##                 srcvers <- binvers
##                 OK <- bins %in% srcpkgs
##                 srcvers[OK] <- av1[bins[OK], "Version"]
##                 later <- as.numeric_version(binvers) < srcvers
##                 if (any(later)) {
##                   msg <- ngettext(sum(later), "There is a binary version available (and will be installed) but
the source version is later",
##                     "There are binary versions available (and will be installed) but the source versions are l
ater")
##                   cat("\n", paste(strwrap(msg, indent = 2, exdent = 2),
##                     collapse = "\n"), ":\n", sep = "")
##                   print(data.frame(binary = binvers, source = srcvers,
##                     row.names = bins, check.names = FALSE)[later,
##                     ])
##                   cat("\n")
##                 }
##             }
```

```
##         }
##     }
##     if (.Platform$OS.type == "windows") {
##         if (startsWith(type, "mac.binary"))
##             stop("cannot install macOS binary packages on Windows")
##         if (type %in% "win.binary") {
##             .install.winbinary(pkgs = pkgs, lib = lib, contriburl = contriburl,
##                 method = method, available = available, destdir = destdir,
##                 dependencies = dependencies, libs_only = libs_only,
##                 quiet = quiet, ...)
##             return(invisible())
##         }
##         have_spaces <- grep(" ", pkgs)
##         if (length(have_spaces)) {
##             p <- pkgs[have_spaces]
##             dirs <- shortPathName(dirname(p))
##             pkgs[have_spaces] <- file.path(dirs, basename(p))
##         }
##         pkgs <- gsub("\\", "/", pkgs, fixed = TRUE)
##     }
##     else {
##         if (startsWith(type, "mac.binary")) {
##             if (!grepl("darwin", R.version$platform))
##                 stop("cannot install macOS binary packages on this platform")
##             .install.macbinary(pkgs = pkgs, lib = lib, contriburl = contriburl,
##                 method = method, available = available, destdir = destdir,
##                 dependencies = dependencies, quiet = quiet, ...)
##             return(invisible())
##         }
##         if (type %in% "win.binary")
##             stop("cannot install Windows binary packages on this platform")
##         if (!file.exists(file.path(R.home("bin"), "INSTALL")))
##             stop("This version of R is not set up to install source packages\nIf it was installed from an RPM,
you may need the R-devel RPM")
##     }
##     cmd0 <- file.path(R.home("bin"), "R")
##     args0 <- c("CMD", "INSTALL")
##     output <- if (quiet)
##         FALSE
##     else ""
##     env <- character()
##     tlim <- Sys.getenv("_R_INSTALL_PACKAGES_ELAPSED_TIMEOUT_")
##     tlim <- if (is.na(tlim))
##         0
##     else tools:::get_timeout(tlim)
##     outdir <- getwd()
##     if (is.logical(keep_outputs)) {
##         if (is.na(keep_outputs))
##             keep_outputs <- FALSE
##     }
##     else if (is.character(keep_outputs) && (length(keep_outputs) ==
##         1L)) {
##         if (!dir.exists(keep_outputs) && !dir.create(keep_outputs,
##             recursive = TRUE))
##             stop(gettextf("unable to create %s", sQuote(keep_outputs)),
##                 domain = NA)
##         outdir <- normalizePath(keep_outputs)
##         keep_outputs <- TRUE
##     }
##     else stop(gettextf("invalid %s argument", sQuote("keep_outputs")),
##         domain = NA)
##     if (length(libpath <- .R_LIBS())) {
##         if (.Platform$OS.type == "windows") {
##             oldrlibs <- Sys.getenv("R_LIBS")
##             Sys.setenv(R_LIBS = libpath)
##             on.exit(Sys.setenv(R_LIBS = oldrlibs))
##         }
##         else env <- paste0("R_LIBS=", shQuote(libpath))
##     }
##     if (is.character(clean))
##         args0 <- c(args0, clean)
##     if (libs_only)
##         args0 <- c(args0, "--libs-only")
##     if (!missing(INSTALL_opts)) {
##         if (!is.list(INSTALL_opts)) {
##             args0 <- c(args0, paste(INSTALL_opts, collapse = " "))
##             INSTALL_opts <- list()
##         }
##     }
```

```
##     else {
##         INSTALL_opts <- list()
##     }
##     if (verbose)
##         message(gettextf("system (cmd0): %s", paste(c(cmd0, args0),
##             collapse = " ")), domain = NA)
##     if (is.null(repos) && missing(contriburl)) {
##         update <- cbind(path.expand(pkgs), lib)
##         for (i in seq_len(nrow(update))) {
##             if (is.na(update[i, 1L]))
##                 next
##             args <- c(args0, get_install_opts(update[i, 1L]),
##                 "-l", shQuote(update[i, 2L]), getConfigureArgs(update[i,
##                   1L]), getConfigureVars(update[i, 1L]), shQuote(update[i,
##                   1L]))
##             status <- system2(cmd0, args, env = env, stdout = output,
##                 stderr = output, timeout = tlim)
##             if (status > 0L)
##                 warning(gettextf("installation of package %s had non-zero exit status",
##                   sQuote(update[i, 1L])), domain = NA)
##             else if (verbose) {
##                 cmd <- paste(c(cmd0, args), collapse = " ")
##                 message(sprintf("%d): succeeded '%s'", i, cmd),
##                   domain = NA)
##             }
##         }
##         return(invisible())
##     }
##     tmpd <- destdir
##     nonlocalrepos <- !all(startsWith(contriburl, "file:"))
##     if (is.null(destdir) && nonlocalrepos) {
##         tmpd <- file.path(tempdir(), "downloaded_packages")
##         if (!file.exists(tmpd) && !dir.create(tmpd))
##             stop(gettextf("unable to create temporary directory %s",
##                 sQuote(tmpd)), domain = NA)
##     }
##     av2 <- NULL
##     if (is.null(available)) {
##         filters <- getOption("available_packages_filters")
##         if (!is.null(filters)) {
##             available <- available.packages(contriburl = contriburl,
##                 method = method, ...)
##         }
##         else {
##             f <- setdiff(available_packages_filters_default,
##                 c("R_version", "duplicates"))
##             av2 <- available.packages(contriburl = contriburl,
##                 filters = f, method = method, ...)
##             f <- available_packages_filters_db[["R_version"]]
##             f2 <- available_packages_filters_db[["duplicates"]]
##             available <- f2(f(av2))
##         }
##     }
##     if (getDeps)
##         pkgs <- getDependencies(pkgs, dependencies, available,
##             lib, ..., av2 = av2)
##     foundpkgs <- download.packages(pkgs, destdir = tmpd, available = available,
##         contriburl = contriburl, method = method, type = "source",
##         quiet = quiet, ...)
##     if (length(foundpkgs)) {
##         if (verbose)
##             message(gettextf("foundpkgs: %s", paste(foundpkgs,
##                 collapse = ", ")), domain = NA)
##         update <- unique(cbind(pkgs, lib))
##         colnames(update) <- c("Package", "LibPath")
##         found <- pkgs %in% foundpkgs[, 1L]
##         files <- foundpkgs[match(pkgs[found], foundpkgs[, 1L]),
##             2L]
##         if (verbose)
##             message(gettextf("files: %s", paste(files, collapse = ", \n\t")),
##                 domain = NA)
##         update <- cbind(update[found, , drop = FALSE], file = files)
##         if (nrow(update) > 1L) {
##             upkgs <- unique(pkgs <- update[, 1L])
##             DL <- .make_dependency_list(upkgs, available)
##             p0 <- .find_install_order(upkgs, DL)
##             update <- update[sort.list(match(pkgs, p0)), ]
##         }
##         if (Ncpus > 1L && nrow(update) > 1L) {
```

```
##             tlim_cmd <- character()
##             if (tlim > 0) {
##                 if (nzchar(timeout <- Sys.which("timeout"))) {
##                   tlim_cmd <- c(shQuote(timeout), "-s INT", tlim)
##                 }
##                 else warning("timeouts for parallel installs require the 'timeout' command")
##             }
##             args0 <- c(args0, "--pkglock")
##             tmpd2 <- file.path(tempdir(), "make_packages")
##             if (!file.exists(tmpd2) && !dir.create(tmpd2))
##                 stop(gettextf("unable to create temporary directory %s",
##                   sQuote(tmpd2)), domain = NA)
##             mfile <- file.path(tmpd2, "Makefile")
##             conn <- file(mfile, "wt")
##             deps <- paste(paste0(update[, 1L], ".ts"), collapse = " ")
##             deps <- strwrap(deps, width = 75, exdent = 2)
##             deps <- paste(deps, collapse = " \\\n")
##             cat("all: ", deps, "\n", sep = "", file = conn)
##             aDL <- .make_dependency_list(upkgs, available, recursive = TRUE)
##             for (i in seq_len(nrow(update))) {
##                 pkg <- update[i, 1L]
##                 fil <- update[i, 3L]
##                 args <- c(args0, get_install_opts(fil), "-l",
##                   shQuote(update[i, 2L]), getConfigureArgs(fil),
##                   getConfigureVars(fil), shQuote(fil), ">", paste0(pkg,
##                     ".out"), "2>&1")
##                 cmd <- paste(c("MAKEFLAGS=", tlim_cmd, shQuote(cmd0),
##                   args), collapse = " ")
##                 deps <- aDL[[pkg]]
##                 deps <- deps[deps %in% upkgs]
##                 deps <- if (length(deps))
##                   paste(paste0(deps, ".ts"), collapse = " ")
##                 else ""
##                 cat(paste0(pkg, ".ts: ", deps), paste("\t@echo begin installing package",
##                   sQuote(pkg)), paste0("\t@", cmd, " && touch ",
##                   pkg, ".ts"), paste0("\t@cat ", pkg, ".out"),
##                   "", sep = "\n", file = conn)
##             }
##             close(conn)
##             cwd <- setwd(tmpd2)
##             on.exit(setwd(cwd))
##             status <- system2(Sys.getenv("MAKE", "make"), c("-k -j",
##                 Ncpus), stdout = output, stderr = output, env = env)
##             if (status > 0L) {
##                 pkgs <- update[, 1L]
##                 tss <- sub("[.]ts$", "", dir(".", pattern = "[.]ts$"))
##                 failed <- pkgs[!pkgs %in% tss]
##                 for (pkg in failed) system(paste0("cat ", pkg,
##                   ".out"))
##                 warning(gettextf("installation of one or more packages failed,\n  probably %s",
##                   paste(sQuote(failed), collapse = ", ")), domain = NA)
##             }
##             if (keep_outputs)
##                 file.copy(paste0(update[, 1L], ".out"), outdir)
##             file.copy(Sys.glob(paste0(update[, 1L], "*.zip")),
##                 cwd)
##             file.copy(Sys.glob(paste0(update[, 1L], "*.tgz")),
##                 cwd)
##             file.copy(Sys.glob(paste0(update[, 1L], "*.tar.gz")),
##                 cwd)
##             setwd(cwd)
##             on.exit()
##             unlink(tmpd2, recursive = TRUE)
##         }
##         else {
##             tmpd2 <- tempfile()
##             if (!dir.create(tmpd2))
##                 stop(gettextf("unable to create temporary directory %s",
##                   sQuote(tmpd2)), domain = NA)
##             outfiles <- file.path(tmpd2, paste0(update[, 1L],
##                 ".out"))
##             for (i in seq_len(nrow(update))) {
##                 outfile <- if (keep_outputs)
##                   outfiles[i]
##                 else output
##                 fil <- update[i, 3L]
##                 args <- c(args0, get_install_opts(fil), "-l",
##                   shQuote(update[i, 2L]), getConfigureArgs(fil),
##                   getConfigureVars(fil), shQuote(fil))
```

```
##                 status <- system2(cmd0, args, env = env, stdout = outfile,
##                   stderr = outfile, timeout = tlim)
##                 if (!quiet && keep_outputs)
##                   writeLines(readLines(outfile))
##                 if (status > 0L)
##                   warning(gettextf("installation of package %s had non-zero exit status",
##                     sQuote(update[i, 1L])), domain = NA)
##                 else if (verbose) {
##                   cmd <- paste(c(cmd0, args), collapse = " ")
##                   message(sprintf("%d): succeeded '%s'", i, cmd),
##                     domain = NA)
##                 }
##             }
##             if (keep_outputs)
##                 file.copy(outfiles, outdir)
##             unlink(tmpd2, recursive = TRUE)
##         }
##         if (!quiet && nonlocalrepos && !is.null(tmpd) && is.null(destdir))
##             cat("\n", gettextf("The downloaded source packages are in\n\t%s",
##                 sQuote(normalizePath(tmpd, mustWork = FALSE))),
##                 "\n", sep = "", file = stderr())
##         libs_used <- unique(update[, 2L])
##         if (.Platform$OS.type == "unix" && .Library %in% libs_used) {
##             message("Updating HTML index of packages in '.Library'")
##             make.packages.html(.Library)
##         }
##     }
##     else if (!is.null(tmpd) && is.null(destdir))
##         unlink(tmpd, TRUE)
##     invisible()
## }
## <bytecode: 0x00000296782245e0>
## <environment: namespace:utils>
```

Cargar libreria

```
library(psych)
```

```
##
## Attaching package: 'psych'
```

```
## The following objects are masked from 'package:ggplot2':
##
##     %+%, alpha
```

Cargar la libreria y creación

```
library(readr)
correl <- read_csv("~/GitHub/JPAS_LABS24/INPUT/CUADERNOS MD/correl.csv")
```

```
## Rows: 32 Columns: 5
## ── Column specification ────────────────────────────────────────────────────────
## Delimiter: ","
## dbl (5): GCI_rank, ICE_rank, GCI_index, ICE_index, LPIBE
##
## ℹ Use `spec()` to retrieve the full column specification for this data.
## ℹ Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

VIsualizar tabla anterior

```
head(correl)
```

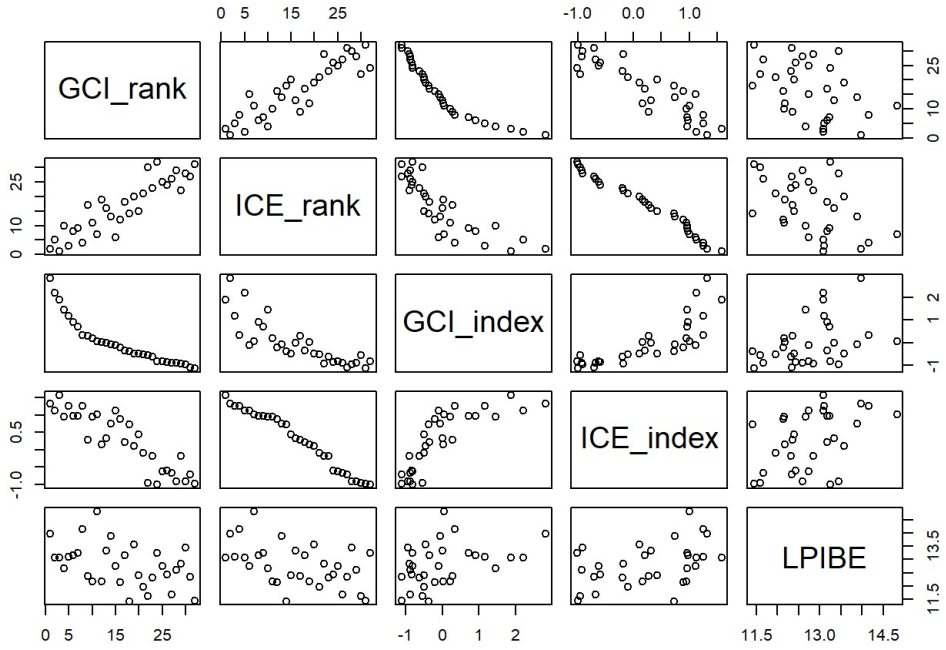
```
## # A tibble: 6 × 5
##   GCI_rank ICE_rank GCI_index ICE_index LPIBE
##      <dbl>    <dbl>     <dbl>     <dbl> <dbl>
## 1       10       11     0.210      0.95  12.2
## 2        2        5     2.20       1.13  13.1
## 3       27       26    -0.885     -0.68  11.7
## 4       30       28    -0.951     -0.91  13.4
## 5       28       29    -0.885     -0.92  12.6
## 6        5        3     1.16       1.25  13.1
```

Correlacionar de forma pariada las variables de la tabla generada

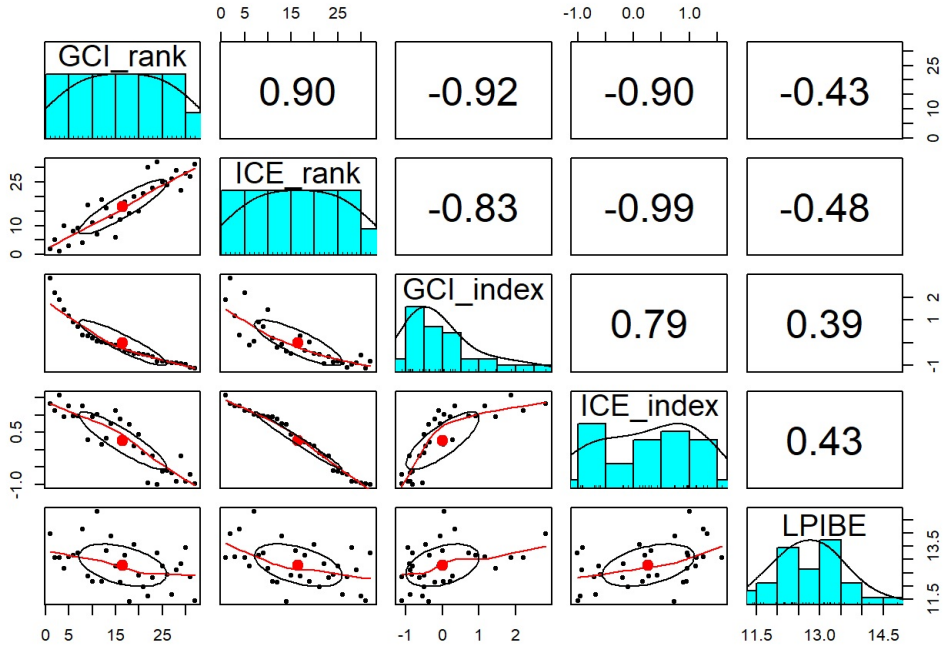
```
attach(correl)
names(correl)
```

```
## [1] "GCI_rank"  "ICE_rank"  "GCI_index" "ICE_index" "LPIBE"
```

```
pairs(correl)
```




```
pairs.panels(correl)
```



correl2 Calculamos la correlación

```
complex_corr <- cor(correl, method = "pearson")
complex_corr
```

```
##             GCI_rank   ICE_rank  GCI_index  ICE_index      LPIBE
## GCI_rank   1.0000000  0.8969941 -0.9166564 -0.8957551 -0.4288321
## ICE_rank   0.8969941  1.0000000 -0.8274473 -0.9875750 -0.4750548
## GCI_index -0.9166564 -0.8274473  1.0000000  0.7946666  0.3905008
## ICE_index -0.8957551 -0.9875750  0.7946666  1.0000000  0.4272882
## LPIBE     -0.4288321 -0.4750548  0.3905008  0.4272882  1.0000000
```

Redondeamos

```
complex_corr =round(complex_corr, digits=2)
complex_corr
```

```
##           GCI_rank ICE_rank GCI_index ICE_index LPIBE
## GCI_rank      1.00     0.90     -0.92     -0.90 -0.43
## ICE_rank      0.90     1.00     -0.83     -0.99 -0.48
## GCI_index    -0.92    -0.83      1.00      0.79  0.39
## ICE_index    -0.90    -0.99      0.79      1.00  0.43
## LPIBE        -0.43    -0.48      0.39      0.43  1.00
```

Gerar mapa de calor Llamar librerias

```
library(ggcorrplot)
library(ggplot2)
```

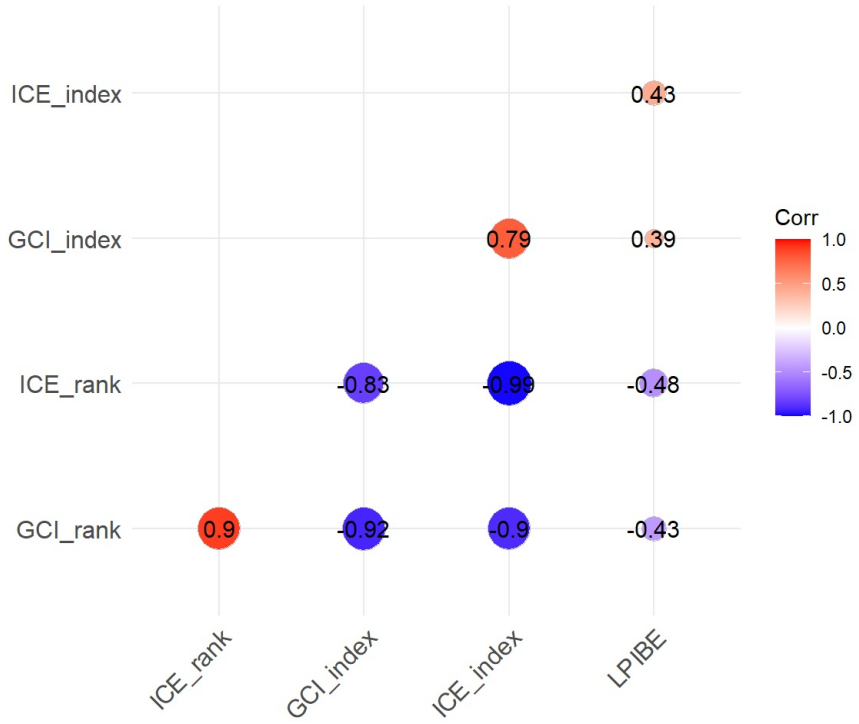
Generar grafico 4

```
p4 <- ggcorrplot(complex_corr, method = "circle", type= "lower", lab= TRUE)
ggtitle("Matriz de correlación")+
theme_minimal()
```

```
## NULL
```

Visualizar resultados

```
p4
```



Para generar un conjunto de graficos en una sola cuadricula Llamar al paquete

```
require(ggpubr)
```

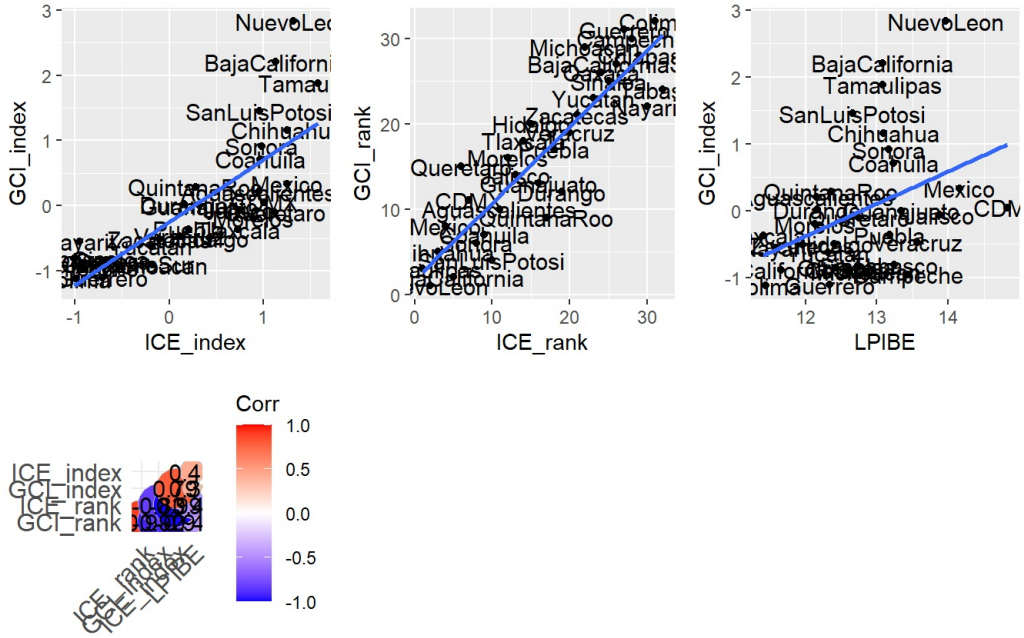
```
## Loading required package: ggpubr
```

```
ggpubr :: ggarrange (p1, p2, p3, p4, etiquetas = c ("A", "B", "C" , "D"))
```

```
## `geom_smooth()` using formula = 'y ~ x'
```

```
## `geom_smooth()` using formula = 'y ~ x'
## `geom_smooth()` using formula = 'y ~ x'
```

```
## Warning in as_grob.default(plot): Cannot convert object of class character into
## a grob.
```



Visualizacion de un grid

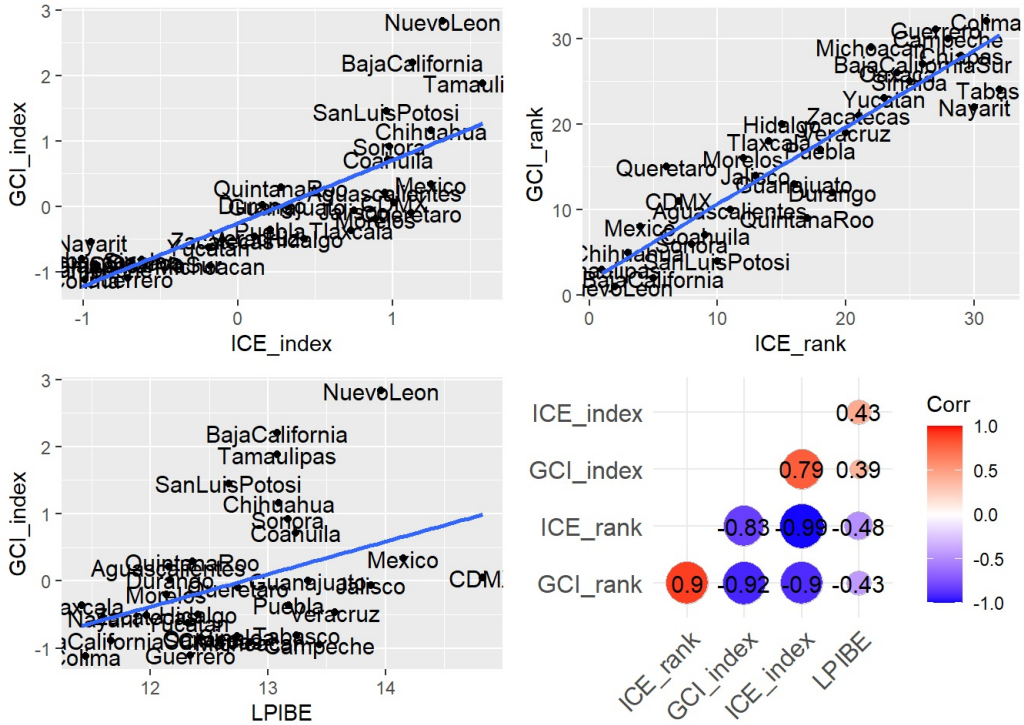
```
library(ggplot2)
require (gridExtra)
```

```
## Loading required package: gridExtra
```

```
F1 <- grid.arrange (p1, p2, p3, p4, nrow = 2)
```

```
## `geom_smooth()` using formula = 'y ~ x'
```

```
## `geom_smooth()` using formula = 'y ~ x'
## `geom_smooth()` using formula = 'y ~ x'
```



title: “LAB 16”

author: “JESSICA PAOLA AGUILAR SERVIN”

date: “2023-02-23”

output: html_document

LABORATORIO - Analisis de Redes en R - Indicadores básicos Globales

```
library(EconGeo)
```

```
##
## Please cite EconGeo in publications as:
```

```
##  Balland, P.A. (2017) Economic Geography in R: Introduction to the EconGeo Package, Papers in Evolutionary Eco
nomic Geography, 17 (09): 1-75
```

Cargar DATA

```
EL= read.csv("https://raw.githubusercontent.com/PABalland/ON/master/lesmis-el.csv")
```

Ver encabezado

```
head (EL)
```

```
##     Character1  Character2 Weight
## 1 Gillenormand JeanValjean      2
## 2      Zephine   Listolier      3
## 3         Joly     Feuilly      5
## 4       Brevet       Judge      2
## 5   Bamatabois JeanValjean      2
## 6     Gavroche JeanValjean      1
```

Transformar a matriz

```
MM <- get.matrix(EL)
```

Ver matriz simetrica (red no dirigida- red bidireccional) Diferencias entre red dirigida y no dirigida Esta es una red no dirigida porque la matriz de adyaciencias es simetrica

Elaboramos grafica

```
library(igraph)
```

```
##
## Attaching package: 'igraph'
```

```
## The following object is masked from 'package:EconGeo':
##
##     diversity
```

```
## The following objects are masked from 'package:stats':
##
##     decompose, spectrum
```

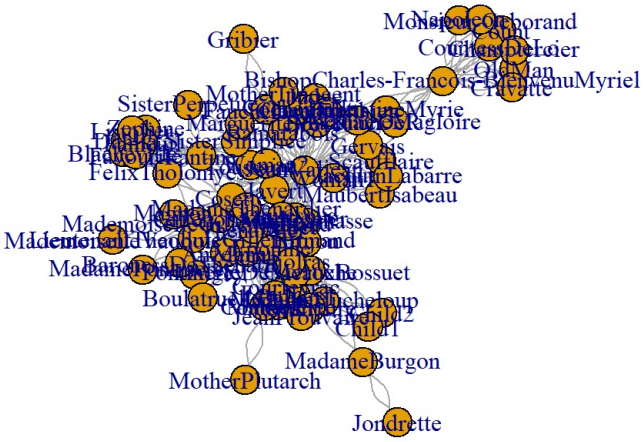
```
## The following object is masked from 'package:base':
##
##     union
```

```
g <- graph_from_data_frame(d=EL, directed = FALSE)
g
```

```
## IGRAPH 67f3be7 UN-- 77 508 --
## + attr: name (v/c), Weight (e/n)
## + edges from 67f3be7 (vertex names):
##  [1] Gillenormand   --JeanValjean
##  [2] Zephine        --Listolier
##  [3] Joly           --Feuilly
##  [4] Brevet         --Judge
##  [5] Bamatabois     --JeanValjean
##  [6] Gavroche       --JeanValjean
##  [7] MadameHucheloup--Courfeyrac
##  [8] Gavroche       --Javert
## + ... omitted several edges
```

Visualizar objeto grafico

```
plot(g)
```



Elimina los pesos

```
EL$Weight = NULL
```

Visualizar resultados

```
head(EL)
```

```
##     Character1  Character2
## 1 Gillenormand JeanValjean
## 2      Zephine   Listolier
## 3         Joly     Feuilly
## 4       Brevet       Judge
## 5   Bamatabois JeanValjean
## 6     Gavroche JeanValjean
```

LLAMAR LIBRERIA

```
library(networkD3)
```

Generar gáfico con netword3

```
simpleNetwork(EL)
```

MotherPlutarch
Fontaine
Jondrette
MadameBurgon
Eponine
SisterPerpetua
MadameThenardier
JacquinLabarre
SisterSimplice
Gervais
Chenildieu
MotherIsabeau
Napoleon
Gribier

title: “LAB 20”

author: “JESSICA PAOLA AGUILAR SERVIN”

date: “2023-02-23”

output: html_document

LABORATORIO - Gráficos en R con ggplot2

faceting (romper un gráfica en varias dentro de una cuadrícula)

Instalando paquete cargar libreria ggplot2

```
library(ggplot2)
```

Buscar Dataframe file.choose Leer base

```
densidad_verde <- read.csv("~/GitHub/JPAS_LABS24/INPUT/CUADERNOS MD/PARA FACETING.csv")
```

Ver nombres

```
names(densidad_verde)
```

```
##  [1] "ID"           "datamex_code" "Product"      "PCI.2018"     "N_PCI.2018"
##  [6] "Region"       "rca_bin"      "DENSITY"      "GCI_2018"     "GP_SINVCR"
## [11] "GCP_2018"
```

Crear grafica base

```
p <- ggplot(data= densidad_verde,
            mapping = aes(x= DENSITY,
                          y= PCI.2018,
                          color= Region))+
  geom_point()
```

Ver objeto p

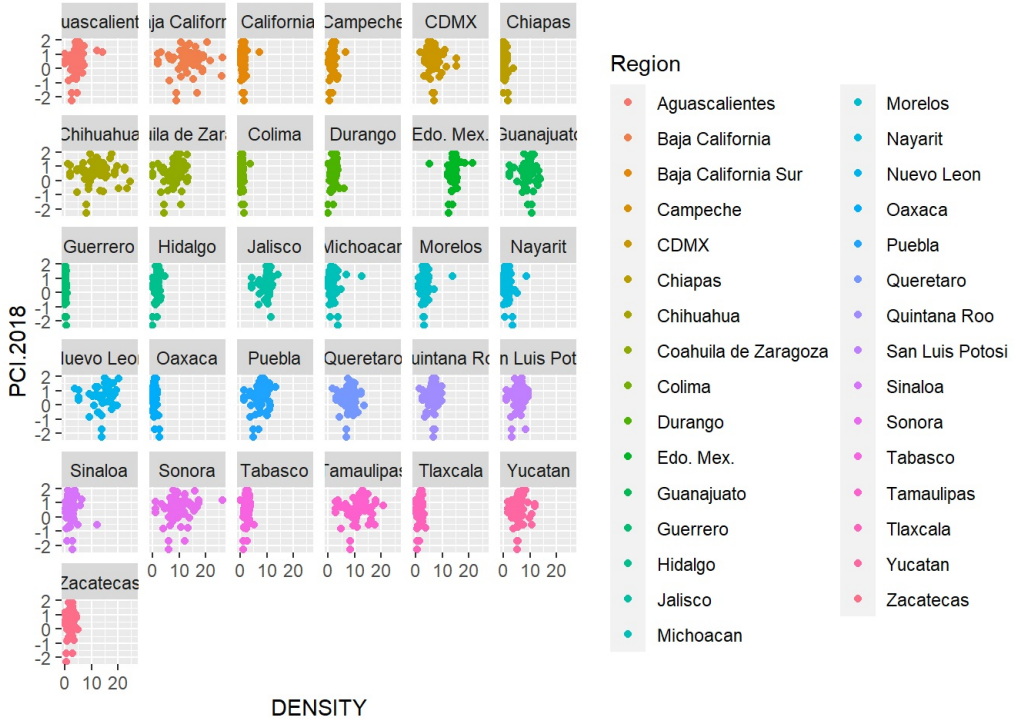
```
p
```

```
## Warning: Removed 496 rows containing missing values (`geom_point()`).
```

Manipular talbas facet_wrap (recomendado con una variable)

```
p + facet_wrap(~ Region)
```

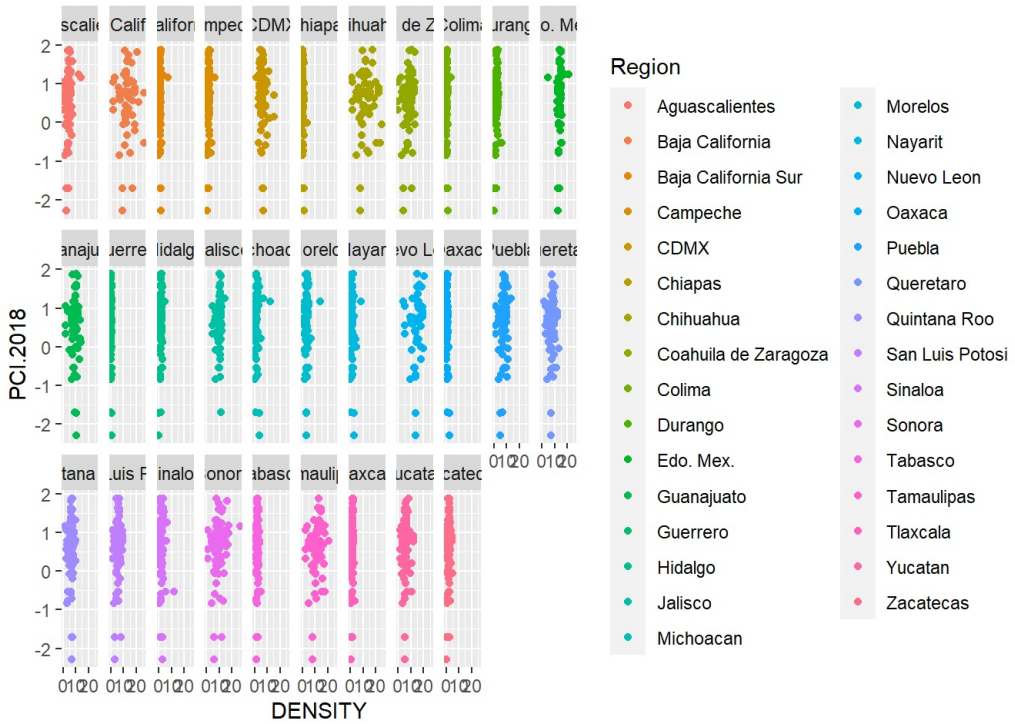
```
## Warning: Removed 496 rows containing missing values (`geom_point()`).
```



Manipulando número de filas

```
p + facet_wrap( ~ Region, nrow = 3)
```

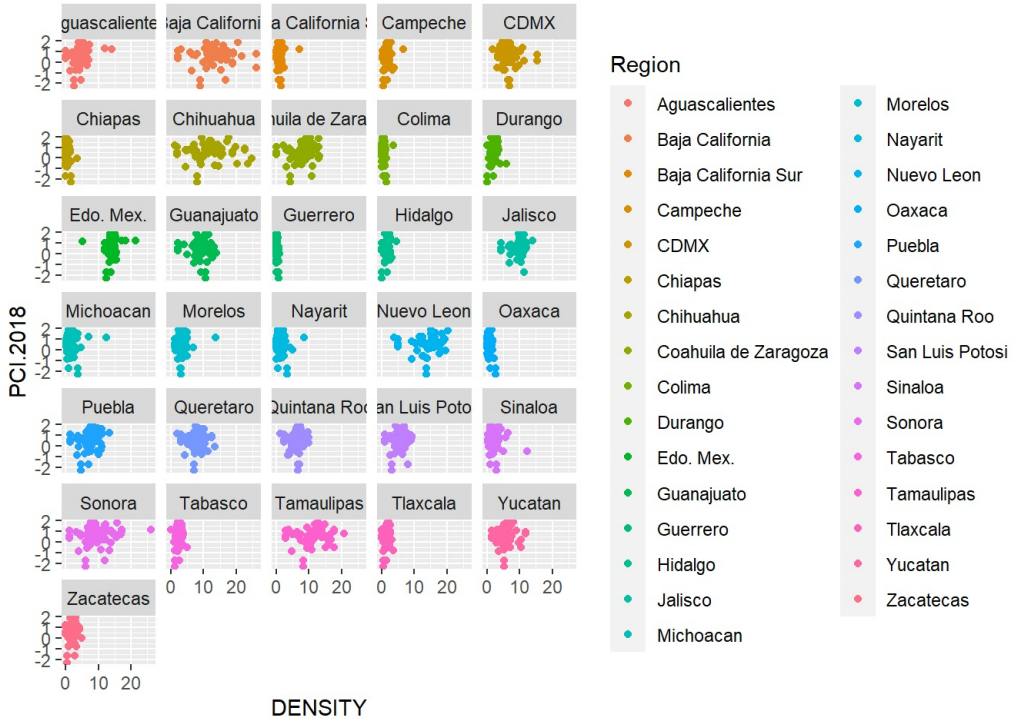
```
## Warning: Removed 496 rows containing missing values (`geom_point()`).
```



Manipulando número de columnas

```
p + facet_wrap(~ Region, ncol = 5)
```

```
## Warning: Removed 496 rows containing missing values (`geom_point()`).
```



CREAR UN SEGUNDO GRAFICO segunda opcion invertida crear objeto p llamar p

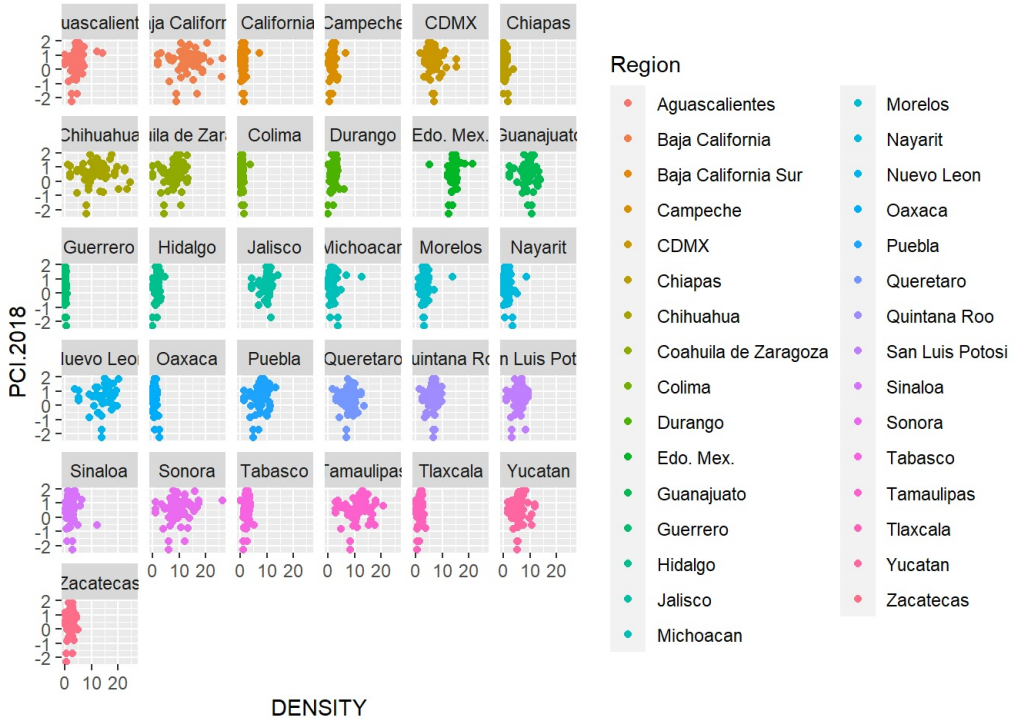
```
p
```

```
## Warning: Removed 496 rows containing missing values (`geom_point()`).
```

fFacet_wrap (recomendado con una variable)

```
p + facet_wrap(~ Region)
```

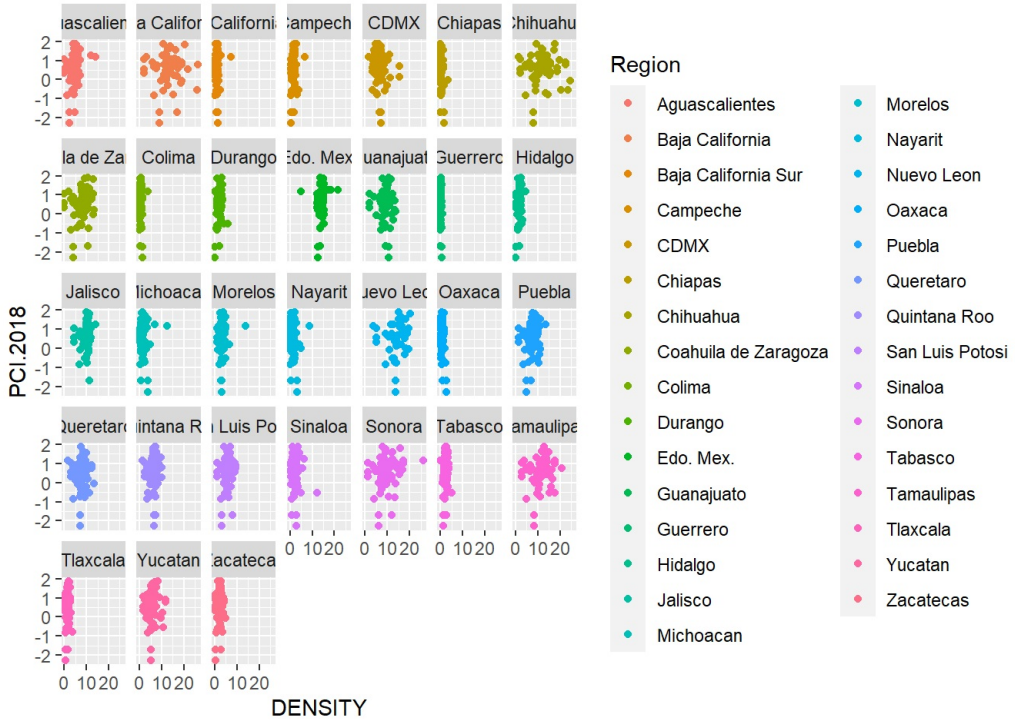
```
## Warning: Removed 496 rows containing missing values (`geom_point()`).
```



Manipulando número de filas

```
p + facet_wrap( ~ Region, nrow = 5)
```

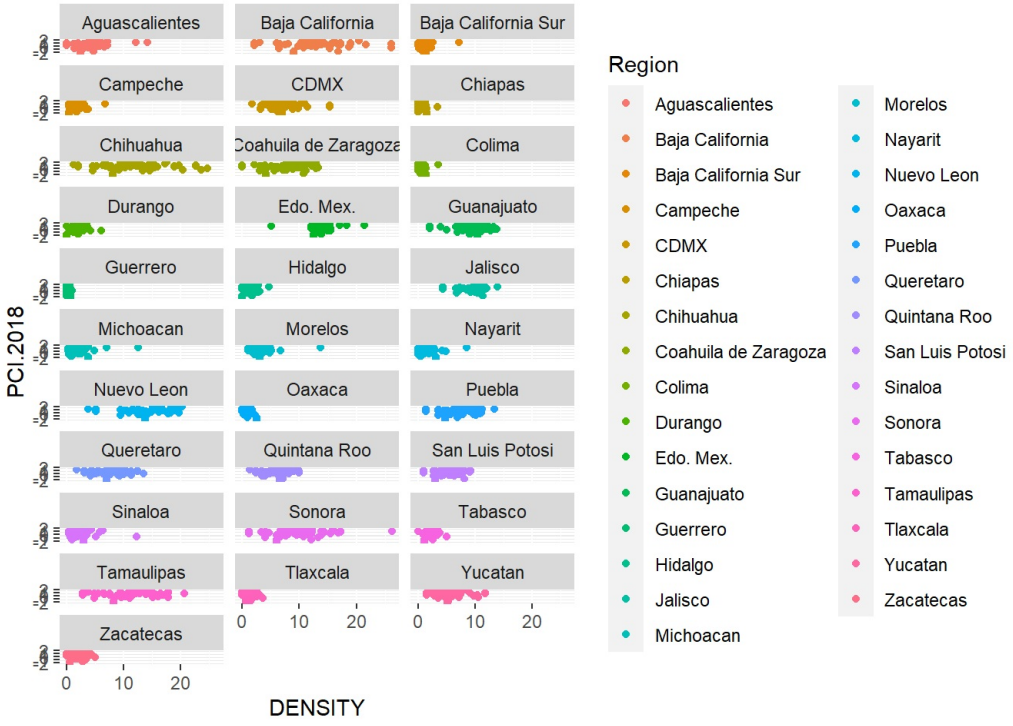
```
## Warning: Removed 496 rows containing missing values (`geom_point()`).
```



Manipulando número de columnas

```
p + facet_wrap(~ Region, ncol = 3)
```

```
## Warning: Removed 496 rows containing missing values (`geom_point()`).
```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Baja California Sur
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CDMX
Chiapas
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Coahuila de Zaragoza
Colima
Durango
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Tlaxcala
Yucatan
Zacatecas
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