L24 LAB 09 (MD)

AnaGSanjuanM

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Hecho con gusto por Carla Carolina Pérez Hernández (UAEH)

————————— LABORATORIO 9 —————————

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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

—————————Exportaciones hidalguenses—————————

Primero ser carga 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
```

Ahora, se carga el archivo csv en el cuadrante de Envitoment/Importar database/FromText(base))

Seleccionar archivo desde la ruta de su ordenador. Una vez cargada, de la consola copiamos el enlace de ubicación del archivo csv (lo que quedó entre comillas). Damos la indicación de leer la matriz M definida en formato csv y que R la importó como "~/Doctorado ICEA/Asignaturas/3er Semestre/TemasSelectos1 ComplejidadEconómica/Labs/Lab 9/L9 Input/rca_2014.csv". Se puede apreciar en el cuadrante de Enviroment.

```
M = as.matrix(
  read.csv("~/Doctorado ICEA/Asignaturas/3er Semestre/TemasSelectos1 ComplejidadEconómica/Labs/Lab 9/L9 Input/rca
_2014.csv" ,
          sep = ",",
          header = T,
          row.names = 1))
```

Para visualizar los primeros diez datos de la matriz.Se muestran los primero diez datos de la matriz que está conformada por 83 renglones y 429 columnas.

```
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
```

Cálculo de co-ocurrencia entre personas/paises/estados

```
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
```

Cálculo co-ocurrencia entre productos t es transpuesta

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

Para visualizarla

```
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  1  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  4
## 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   1
## 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
```

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## 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
```

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## 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
```

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## 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
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## 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
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## 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
```

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## 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
## 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
## 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
## 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
## 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
## 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
## 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
```

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## 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
## 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
```

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## 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
## 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
## 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
## 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
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```
## 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
## 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
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## 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
## 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
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## 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     1
## 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
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## 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
## 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
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## 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
## 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
## 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
## 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
```

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## 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
## 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
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## 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
```

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## 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
## 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
```

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## 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
## 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
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## 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
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## 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
## 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
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## 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
```

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## 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
## 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
## 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
## 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
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## 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
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## 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
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## 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
## 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
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## 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
## 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
## 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
## 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
## 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
## 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
## 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
## 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
## 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
## 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
```

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## 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
## 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
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## 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
## 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
```

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## 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
## 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
```

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## 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
## 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
```

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## 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
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## 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
```

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## 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
## 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
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## 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
## 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
```

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## 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
## 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
## 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
## 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
## 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
## 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
## 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
## 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
## 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
## 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
## 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
## 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
## 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
## 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
## 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
## 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
## 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
## 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
```

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## 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
##           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
## 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
## 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
## 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    1    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
## 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
## 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
## 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
## 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
## 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
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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   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
## 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
```

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## 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
## 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
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## 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
## 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
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## 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
## 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
## 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
```

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## 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 ]
```

Cálculo del relacionamiento o proximidad

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

Para visualizar

```
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
```

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## 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
## 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
## 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
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## 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  0.3000000   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
## 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  1.0000000   5.000000  0.0000000  0.000000  0.0000000   2.000000
## 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
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## 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
## 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   2.000000
## 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   2.000000
## 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
## 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
```

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## 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
## 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   1.000000   15.000000 1.0000000    0.000000    0.000000 27.634216  3.0000000
## 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
## 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   5.000000  2.3863600
## X6217    0.000000   0.000000 0.0000000  5.000000   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  7.000000   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
## 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
## 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  2.1072037
## 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  5.0000000
## 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
## 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  4.0000000
## 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  1.0000000
## 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
## 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  7.0000000
## 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  3.0000000
## 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
```

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## 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
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## 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
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## 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
```

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## 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
## 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
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## 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
## 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
```

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## 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
## 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  1.6000000  0.0000000  1.6000000  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
```

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## 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
## 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
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## 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
## 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
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## 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
## 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
```

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## 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
## 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
```

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## 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
## 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
```

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## 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  3.0000000  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
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## 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
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## 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
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```
## 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 23.729708 0.0000000  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
```

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## 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
## 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
```

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## 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
## 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
```

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## 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
## 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
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## 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
## 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
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## 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
## 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
```

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## 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
## 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
```

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## 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
## 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
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## 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
## 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  3.000000 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
```

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## 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
## 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
```

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## 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
## 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
```

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## 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
## 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
```

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## 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
## 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
```

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## 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
## 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
## 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
```

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## 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
## 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
```

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## 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
## 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
```

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## 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
## 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 1.000000 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
```

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## 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
## 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
## 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
## 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
## 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
```

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## 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
## 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
```

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## 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
## 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
## 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 3.7978668 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
```

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## 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
## 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
```

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## 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
## 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
```

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## 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
## 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 1.0000000 0.0000000
## X5208 0.0000000 0.0000000   0.000000   0.000000   0.000000 1.0000000 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 2.0000000 1.7659834
## X5807 0.0000000 0.0000000   0.000000   0.000000   5.000000 2.0000000 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
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## 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
## 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
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## 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
## 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
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## 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
## 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
```

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## 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
## 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
```

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## 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 3.000000
## 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
## 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  3.0000000  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
```

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## 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
## 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
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## 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
## 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
```

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## 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
## 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 7.9023179  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 4.0000000  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 6.0000000  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 1.0000000  0.000000  0.000000
## X3814  0.000000  0.000000 0.0000000  0.000000 7.0000000  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 4.0000000  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
```

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## 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
## 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 2.0000000  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
```

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## 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
## 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
```

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## 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
## 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
```

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## 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
## 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   3.000000 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
## 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 3.0000000 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
```

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## 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    3.000000 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    9.000000 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    9.000000 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 4.0000000 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
```

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## 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
```

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## 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
## 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
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## 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
## 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
```

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## 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
## 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
```

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## 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
## 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
```

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## 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
## 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
```

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## 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
## 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
```

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## 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
## 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
```

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## 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
## 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
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## 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
## 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
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## 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
## 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
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## 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
## 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
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## 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
## 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
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## 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
## 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
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## 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
## 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
```

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## 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  1.000000 0.000000  0.0000000  0.0000000 0.0000000
## X2606 0.000000 0.000000  5.000000 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
```

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## 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
## 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
```

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## 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
## 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
```

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## 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
## 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
## X2102   0.0000000 0.000000 0.000000 0.0000000 0.000000 1.7243718 1.2941723
## 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
## X2302   0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## 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
## X2602   0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X2606   0.0000000 0.000000 0.000000 0.0000000 0.000000 2.3649893 1.7749670
## X2607   0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X2608   0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X2710   0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X2713   0.0000000 7.055790 7.055790 3.7522635 7.055790 0.0000000 2.4193187
## 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
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## 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
## X2901   0.0000000 0.000000 0.000000 0.0000000 0.000000 1.0168283 0.7631486
## 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
## X3210   0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X3211   0.0000000 7.055790 7.055790 3.7522635 7.055790 0.0000000 2.4193187
## 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
## X3402   2.2935182 0.000000 0.000000 1.0051041 0.000000 1.7269509 0.6480545
## 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
## X4001   0.0000000 7.055790 7.055790 3.7522635 7.055790 0.0000000 2.4193187
## 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
## X4010   4.6347986 0.000000 0.000000 2.0311369 0.000000 1.7449299 1.3096015
## 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
## X4416   0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.9602537
## X4418   0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 0.0000000
## X4420   0.0000000 0.000000 0.000000 0.0000000 0.000000 0.0000000 5.0055996
## 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
```

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## 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
## X5205  0.0000000 7.055790 7.055790 3.7522635 7.055790 0.0000000 2.4193187
## 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
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## 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
## 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
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## 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
## 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
```

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## 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
## 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
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## 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
## 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
```

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## 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
```

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## 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
## 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 1.0000000
## 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
```

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## 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
## 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
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## 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
## 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
```

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## 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
## 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 3.0000000
## 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
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## 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
## 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
```

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## 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
## 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
```

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## 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
## 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
```

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## 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
## 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
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## 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
## 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
```

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## 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
## 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
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## 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
## 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
```

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## 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
## 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
```

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## 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
## 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 1.000000
## 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 1.000000
## 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
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## 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
## 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 2.000000
## X3206    0.000000 0.0000000  0.000000  0.000000  0.000000  0.000000 1.000000
## X3207    0.000000 0.0000000  0.000000 12.000000  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
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## 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
## 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
```

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## 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
## 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  3.000000
## 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   1.000000   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
```

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## 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
## 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
```

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## 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
## 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
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## 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
## 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
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## 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
## 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
```

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## 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
## X3823 12.2167612  0.0000000  9.000000  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 2.0000000
## 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 1.0000000 0.0000000
## X5208  0.0000000  0.0000000  0.000000  0.000000  0.0000000 1.0000000 0.7000000
## X5209  0.0000000  0.0000000  0.000000  0.000000  0.0000000 1.0000000 0.9000000
## X5210  0.0000000  0.0000000  0.000000  0.000000  0.0000000 1.0000000 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
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## 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
## 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
```

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## 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
## 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
```

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## 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
## 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 1.0000000
## 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 1.0000000
## 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
## 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
```

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## 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
## 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
```

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## 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
## 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 6.8260772 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
```

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## 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
## 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
```

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## 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 2.0000000 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
```

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## 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
```

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## 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 2.0000000
## 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
## X5601 0.000000 0.0000000 1.6328933  0.000000  1.9935739  0.000000 0.0000000
## 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
```

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## X6002 1.531759 1.4431981 0.9663564  0.000000  0.5899041  0.000000 1.1422391
## X6101 0.000000 4.0335710 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## X6103 7.055790 0.0000000 0.0000000  0.000000  0.0000000  0.000000 0.0000000
## 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
## 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
## X3808  1.9935739     0.000000 0.0000000 0.0000000 0.000000 1.0459273 1.4288979
## 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
```

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## 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
## 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
```

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## 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
## 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
## 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  6.0000000  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
```

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## 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
## 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 3.1513815
## 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
```

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## 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
## 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
## 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  3.0000000
## X3811  0.000000 0.0000000  0.000000 0.000000  0.000000 0.000000  3.0000000
## 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  3.0000000
## 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
```

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## 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
## 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
## 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 10.0000000  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
## 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
## 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
```

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## 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
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## 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
## 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 1.5000000 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
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## 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
## 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
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## 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
## 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
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## 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
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## 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
## X4415 2.0686986 0.0000000 2.0686986 1.5444487 1.6927153 0.8674934 1.2258151
## 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
## 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
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## 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
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## 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
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## 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
## 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
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## 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
## 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
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## 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
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## 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
## 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
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## 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
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## 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
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## 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
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## 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
## 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
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## 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
## 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
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## 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
## 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
## X5603 2.2477256 0.000000 1.2680622 1.2680622 1.3523191 1.0682917 1.6394161
## 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
## X5911 0.0000000 3.525146 1.5333219 1.5333219 0.0000000 1.2917623 0.9911784
## X6002 1.1809994 1.531759 1.3325316 1.3325316 0.7105359 1.1226053 1.2920763
## X6101 0.0000000 0.000000 0.0000000 0.0000000 0.0000000 0.0000000 2.4074607
## 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
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## 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
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## 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
## 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
```

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## 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
## 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
```

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## 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
```

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## 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
## 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 3.7000000  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
```

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## 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
## 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 1.8000000  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 1.0000000  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 1.0000000  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
```

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## 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
## 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
## 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 2.0000000 3.0772452  0.000000
## X2602  0.000000 0.0000000  0.000000  4.000000 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
## 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
## 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 2.0000000  0.000000  0.000000 0.0000000 2.0000000  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 1.0000000 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
## 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   0.0000000 3.1513815 3.1513815 3.1513815   0.00000   0.000000 1.5349916
## X4901   0.0000000 0.0000000 0.0000000 0.0000000   0.00000   0.000000 1.9440463
## X4902   0.0000000 0.0000000 0.0000000 0.0000000   0.00000   0.000000 1.9440463
## X4907   0.0000000 0.0000000 0.0000000 0.0000000   0.00000   0.000000 1.9440463
## X4911   0.0000000 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
## 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 1.9000000 1.9000000 1.9000000    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
```

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## 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
## 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
```

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## 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
## 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
```

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## 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
## 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
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## 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
## 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
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## 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
## 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
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## 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
## 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 ]
```

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 y Surfboard puede que no esten tan relacionados, abajo de 1 no es relacionado mientras que mayor a 1 si es relacionado.

Transformar matriz de relacionamiento en una matriz binaria. Opcional (sólo para trabajar con datos binarios)

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

Para visualizar

```
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    1    0    1    0    0    0    0    1
## 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   1   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
```

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## 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
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## 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
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## 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
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## 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
## 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
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## 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
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## 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
## 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
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## 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
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## 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
```

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## 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
## 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
## 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
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```
## 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
## 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
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## 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
## 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
## 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
```

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## 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
## 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
## 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
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```
## 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
## 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
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## 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
## 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
```

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## 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
## 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
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## 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
## 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
## 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   1   0   1   0   1   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
```

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## 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
## 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
## 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
```

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## 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   1   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
## 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
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## 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
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## 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
## 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
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## 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
## 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
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## 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
## 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
## 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
```

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## 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
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## 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
## 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
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## 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
## 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
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## 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
## 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
## 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
## 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    1
## 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
## 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
```

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## 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
## 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
## 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
## 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
## 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    1
## 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
## 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
## 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
## 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
## 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
```

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## 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   1   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
## 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
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## 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
## 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
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## 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
## 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
## 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
## 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
## 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     1     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
## 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
```

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## 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
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## 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
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## 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
## 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
## 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   1   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
## 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
## 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
```

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## 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
## 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
```

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## 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
```

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## 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
## 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
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## 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
## 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
```

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## 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
## 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
## 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
```

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## 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
## 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
## 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
## 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
## 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
## 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 ]
```
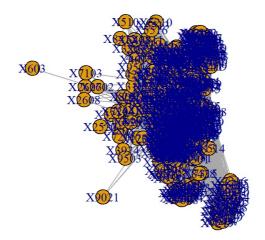
Generación de gráfica

```
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

Exportar resultados del relacionamiento binario

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

Exportar resultados de co ocurrencias

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

Ya que exportamos los resultados, se pueden trabajar con cytoscape o gephi.