EDA_LA

2023-05-14

Github Link for Commands - https://github.com/riyajaiswal25/EDA_LA

Analysis of Data on Hotel Bookings DataSet

Reading data(Creating a Dataframe)

```
mydata = read.csv("C:\\Users\\riyaj\\OneDrive\\Documents\\hotel.csv")
```

Performing operations on dataset

```
#shows the entire data set
mydata
```

```
##              hotel is_canceled lead_time arrival_date_year arrival_date_month
## 1    Resort Hotel           0       342              2015                July
## 2    Resort Hotel           0       737              2015                July
## 3    Resort Hotel           0         7              2015                July
## 4    Resort Hotel           0        13              2015                July
## 5    Resort Hotel           0        14              2015                July
## 6    Resort Hotel           0        14              2015                July
## 7    Resort Hotel           0         0              2015                July
## 8    Resort Hotel           0         9              2015                July
## 9    Resort Hotel           1        85              2015                July
## 10   Resort Hotel           1        75              2015                July
## 11   Resort Hotel           1        23              2015                July
## 12   Resort Hotel           0        35              2015                July
## 13   Resort Hotel           0        68              2015                July
## 14   Resort Hotel           0        18              2015                July
## 15   Resort Hotel           0        37              2015                July
## 16   Resort Hotel           0        68              2015                July
## 17   Resort Hotel           0        37              2015                July
## 18   Resort Hotel           0        12              2015                July
## 19   Resort Hotel           0         0              2015                July
## 20   Resort Hotel           0         7              2015                July
## 21   Resort Hotel           0        37              2015                July
## 22   Resort Hotel           0        72              2015                July
## 23   Resort Hotel           0        72              2015                July
## 24   Resort Hotel           0        72              2015                July
```

```
## 25   Resort Hotel          0       127         2015            July
## 26   Resort Hotel          0        78         2015            July
## 27   Resort Hotel          0        48         2015            July
## 28   Resort Hotel          1        60         2015            July
## 29   Resort Hotel          0        77         2015            July
## 30   Resort Hotel          0        99         2015            July
## 31   Resort Hotel          0       118         2015            July
## 32   Resort Hotel          0        95         2015            July
## 33   Resort Hotel          1        96         2015            July
## 34   Resort Hotel          0        69         2015            July
## 35   Resort Hotel          1        45         2015            July
## 36   Resort Hotel          1        40         2015            July
## 37   Resort Hotel          0        15         2015            July
## 38   Resort Hotel          0        36         2015            July
## 39   Resort Hotel          1        43         2015            July
## 40   Resort Hotel          0        70         2015            July
## 41   Resort Hotel          1        45         2015            July
## 42   Resort Hotel          0        45         2015            July
## 43   Resort Hotel          0        16         2015            July
## 44   Resort Hotel          0        70         2015            July
## 45   Resort Hotel          0       107         2015            July
## 46   Resort Hotel          1        47         2015            July
## 47   Resort Hotel          0        96         2015            July
## 48   Resort Hotel          0       113         2015            July
## 49   Resort Hotel          0        90         2015            July
## 50   Resort Hotel          0        50         2015            July
## 51   Resort Hotel          0       113         2015            July
## 52   Resort Hotel          0        93         2015            July
## 53   Resort Hotel          0        76         2015            July
## 54   Resort Hotel          0         3         2015            July
## 55   Resort Hotel          0         1         2015            July
## 56   Resort Hotel          0         1         2015            July
## 57   Resort Hotel          0         0         2015            July
## 58   Resort Hotel          0         0         2015            July
## 59   Resort Hotel          0         0         2015            July
## 60   Resort Hotel          0        14         2015            July
## 61   Resort Hotel          0        10         2015            July
## 62   Resort Hotel          0         5         2015            July
## 63   Resort Hotel          0        17         2015            July
## 64   Resort Hotel          0        93         2015            July
## 65   Resort Hotel          1         3         2015            July
## 66   Resort Hotel          0        10         2015            July
## 67   Resort Hotel          0         3         2015            July
## 68   Resort Hotel          0        51         2015            July
## 69   Resort Hotel          1        71         2015            July
## 70   Resort Hotel          1        63         2015            July
## 71   Resort Hotel          1        62         2015            July
## 72   Resort Hotel          1       101         2015            July
## 73   Resort Hotel          0         2         2015            July
## 74   Resort Hotel          0        15         2015            July
## 75   Resort Hotel          1        51         2015            July
## 76   Resort Hotel          0         3         2015            July
## 77   Resort Hotel          1        48         2015            July
## 78   Resort Hotel          0         2         2015            July
```

```
## 79   Resort Hotel          0       72          2015                July
## 80   Resort Hotel          0       81          2015                July
## 81   Resort Hotel          0       99          2015                July
## 82   Resort Hotel          1      368          2015                July
## 83   Resort Hotel          0      364          2015                July
## 84   Resort Hotel          1       81          2015                July
## 85   Resort Hotel          0       99          2015                July
## 86   Resort Hotel          0      324          2015                July
## 87   Resort Hotel          0       69          2015                July
## 88   Resort Hotel          1       79          2015                July
## 89   Resort Hotel          0       12          2015                July
## 90   Resort Hotel          0        9          2015                July
## 91   Resort Hotel          0        1          2015                July
## 92   Resort Hotel          0       21          2015                July
## 93   Resort Hotel          0        9          2015                July
## 94   Resort Hotel          0      109          2015                July
## 95   Resort Hotel          1      109          2015                July
## 96   Resort Hotel          1       72          2015                July
## 97   Resort Hotel          1       63          2015                July
## 98   Resort Hotel          0       63          2015                July
## 99   Resort Hotel          0      101          2015                July
## 100  Resort Hotel          0      102          2015                July
## 101  Resort Hotel          0        4          2015                July
## 102  Resort Hotel          0       98          2015                July
## 103  Resort Hotel          0       92          2015                July
## 104  Resort Hotel          0       95          2015                July
## 105  Resort Hotel          0      102          2015                July
## 106  Resort Hotel          1       26          2015                July
## 107  Resort Hotel          1       73          2015                July
## 108  Resort Hotel          1      102          2015                July
## 109  Resort Hotel          0      115          2015                July
## 110  Resort Hotel          0      102          2015                July
## 111  Resort Hotel          0       86          2015                July
## 112  Resort Hotel          0       78          2015                July
## 113  Resort Hotel          0       52          2015                July
## 114  Resort Hotel          0       29          2015                July
## 115  Resort Hotel          1      101          2015                July
## 116  Resort Hotel          0      109          2015                July
## 117  Resort Hotel          0       92          2015                July
## 118  Resort Hotel          0       92          2015                July
## 119  Resort Hotel          0       79          2015                July
## 120  Resort Hotel          0        2          2015                July
## 121  Resort Hotel          0       30          2015                July
## 122  Resort Hotel          1       51          2015                July
## 123  Resort Hotel          1       36          2015                July
## 124  Resort Hotel          1       73          2015                July
## 125  Resort Hotel          1       33          2015                July
## 126  Resort Hotel          0       32          2015                July
## 127  Resort Hotel          0        8          2015                July
## 128  Resort Hotel          0      100          2015                July
## 129  Resort Hotel          0        1          2015                July
## 130  Resort Hotel          0      100          2015                July
## 131  Resort Hotel          0      100          2015                July
## 132  Resort Hotel          0        9          2015                July
```

```
## 133 Resort Hotel          1        5            2015              July
## 134 Resort Hotel          0        0            2015              July
## 135 Resort Hotel          0        9            2015              July
## 136 Resort Hotel          0        2            2015              July
## 137 Resort Hotel          0        2            2015              July
## 138 Resort Hotel          0        9            2015              July
## 139 Resort Hotel          1        5            2015              July
## 140 Resort Hotel          0        2            2015              July
## 141 Resort Hotel          0       44            2015              July
## 142 Resort Hotel          0       80            2015              July
## 143 Resort Hotel          0       97            2015              July
## 144 Resort Hotel          0      109            2015              July
## 145 Resort Hotel          0       30            2015              July
## 146 Resort Hotel          0       64            2015              July
## 147 Resort Hotel          0       39            2015              July
## 148 Resort Hotel          0       90            2015              July
## 149 Resort Hotel          1       34            2015              July
## 150 Resort Hotel          1       93            2015              July
## 151 Resort Hotel          0       97            2015              July
## 152 Resort Hotel          0       29            2015              July
## 153 Resort Hotel          1      101            2015              July
## 154 Resort Hotel          0       27            2015              July
## 155 Resort Hotel          0        8            2015              July
## 156 Resort Hotel          0       82            2015              July
## 157 Resort Hotel          0       94            2015              July
## 158 Resort Hotel          0      110            2015              July
## 159 Resort Hotel          0       96            2015              July
## 160 Resort Hotel          0       79            2015              July
## 161 Resort Hotel          0      115            2015              July
## 162 Resort Hotel          0      111            2015              July
## 163 Resort Hotel          0       51            2015              July
## 164 Resort Hotel          0       94            2015              July
## 165 Resort Hotel          0       81            2015              July
## 166 Resort Hotel          0       84            2015              July
## 167 Resort Hotel          0       51            2015              July
## 168 Resort Hotel          0      111            2015              July
## 169 Resort Hotel          0        0            2015              July
## 170 Resort Hotel          0        2            2015              July
## 171 Resort Hotel          0        7            2015              July
## 172 Resort Hotel          0       98            2015              July
## 173 Resort Hotel          0       95            2015              July
## 174 Resort Hotel          1       48            2015              July
## 175 Resort Hotel          0       66            2015              July
## 176 Resort Hotel          0      104            2015              July
## 177 Resort Hotel          0       28            2015              July
## 178 Resort Hotel          0       34            2015              July
## 179 Resort Hotel          0       98            2015              July
## 180 Resort Hotel          0      104            2015              July
## 181 Resort Hotel          0       68            2015              July
## 182 Resort Hotel          1       86            2015              July
## 183 Resort Hotel          0      258            2015              July
## 184 Resort Hotel          0      111            2015              July
## 185 Resort Hotel          1       94            2015              July
## 186 Resort Hotel          0      112            2015              July
```

```
## 187 Resort Hotel         0    100       2015            July
## 188 Resort Hotel         0     33       2015            July
## 189 Resort Hotel         0     97       2015            July
## 190 Resort Hotel         0     80       2015            July
## 191 Resort Hotel         0     90       2015            July
## 192 Resort Hotel         0    111       2015            July
## 193 Resort Hotel         0     65       2015            July
## 194 Resort Hotel         1     67       2015            July
## 195 Resort Hotel         0     55       2015            July
## 196 Resort Hotel         0     21       2015            July
## 197 Resort Hotel         0      8       2015            July
## 198 Resort Hotel         0      8       2015            July
## 199 Resort Hotel         0      0       2015            July
## 200 Resort Hotel         0      0       2015            July
## 201 Resort Hotel         0      0       2015            July
## 202 Resort Hotel         0      8       2015            July
## 203 Resort Hotel         0     66       2015            July
## 204 Resort Hotel         0     88       2015            July
## 205 Resort Hotel         0      0       2015            July
## 206 Resort Hotel         1     43       2015            July
## 207 Resort Hotel         1     88       2015            July
## 208 Resort Hotel         0     54       2015            July
## 209 Resort Hotel         1    292       2015            July
## 210 Resort Hotel         0    112       2015            July
## 211 Resort Hotel         0     68       2015            July
## 212 Resort Hotel         0      7       2015            July
## 213 Resort Hotel         0      1       2015            July
## 214 Resort Hotel         1    113       2015            July
## 215 Resort Hotel         0      5       2015            July
## 216 Resort Hotel         0     83       2015            July
## 217 Resort Hotel         1    105       2015            July
## 218 Resort Hotel         0      0       2015            July
## 219 Resort Hotel         1      1       2015            July
## 220 Resort Hotel         1      1       2015            July
## 221 Resort Hotel         0      1       2015            July
## 222 Resort Hotel         1    102       2015            July
## 223 Resort Hotel         0    113       2015            July
## 224 Resort Hotel         1    280       2015            July
## 225 Resort Hotel         0     96       2015            July
## 226 Resort Hotel         0    394       2015            July
## 227 Resort Hotel         0     33       2015            July
## 228 Resort Hotel         0     82       2015            July
## 229 Resort Hotel         0    100       2015            July
## 230 Resort Hotel         0    100       2015            July
## 231 Resort Hotel         0     17       2015            July
## 232 Resort Hotel         0     68       2015            July
## 233 Resort Hotel         0     12       2015            July
## 234 Resort Hotel         1     77       2015            July
## 235 Resort Hotel         1     24       2015            July
## 236 Resort Hotel         1     44       2015            July
## 237 Resort Hotel         0     78       2015            July
## 238 Resort Hotel         1     17       2015            July
## 239 Resort Hotel         1    103       2015            July
## 240 Resort Hotel         0     16       2015            July
```

```
## 241 Resort Hotel          0      14         2015           July
## 242 Resort Hotel          0      77         2015           July
## 243 Resort Hotel          0      90         2015           July
## 244 Resort Hotel          0      90         2015           July
## 245 Resort Hotel          0      90         2015           July
## 246 Resort Hotel          0     366         2015           July
## 247 Resort Hotel          0     249         2015           July
## 248 Resort Hotel          1      69         2015           July
## 249 Resort Hotel          0      10         2015           July
## 250 Resort Hotel          0      22         2015           July
## 251 Resort Hotel          0      91         2015           July
## 252 Resort Hotel          0      23         2015           July
## 253 Resort Hotel          0      11         2015           July
## 254 Resort Hotel          0       3         2015           July
## 255 Resort Hotel          0      13         2015           July
## 256 Resort Hotel          0     108         2015           July
## 257 Resort Hotel          0      91         2015           July
## 258 Resort Hotel          0      37         2015           July
## 259 Resort Hotel          0      21         2015           July
## 260 Resort Hotel          0     106         2015           July
## 261 Resort Hotel          0      30         2015           July
## 262 Resort Hotel          0      30         2015           July
## 263 Resort Hotel          1      51         2015           July
## 264 Resort Hotel          0      79         2015           July
## 265 Resort Hotel          0      21         2015           July
## 266 Resort Hotel          0      35         2015           July
## 267 Resort Hotel          0      78         2015           July
## 268 Resort Hotel          0      31         2015           July
## 269 Resort Hotel          0      78         2015           July
## 270 Resort Hotel          0      78         2015           July
## 271 Resort Hotel          0      44         2015           July
## 272 Resort Hotel          0      34         2015           July
## 273 Resort Hotel          0      87         2015           July
## 274 Resort Hotel          0      11         2015           July
## 275 Resort Hotel          0     115         2015           July
## 276 Resort Hotel          0      86         2015           July
## 277 Resort Hotel          0      41         2015           July
## 278 Resort Hotel          0      32         2015           July
## 279 Resort Hotel          0      34         2015           July
## 280 Resort Hotel          0      34         2015           July
## 281 Resort Hotel          1     100         2015           July
## 282 Resort Hotel          0      44         2015           July
## 283 Resort Hotel          0     304         2015           July
## 284 Resort Hotel          1      36         2015           July
## 285 Resort Hotel          0     117         2015           July
## 286 Resort Hotel          0      70         2015           July
## 287 Resort Hotel          0     110         2015           July
## 288 Resort Hotel          1     109         2015           July
## 289 Resort Hotel          0      33         2015           July
## 290 Resort Hotel          0      33         2015           July
## 291 Resort Hotel          0      33         2015           July
## 292 Resort Hotel          0       0         2015           July
## 293 Resort Hotel          0       0         2015           July
## 294 Resort Hotel          0       0         2015           July
```

```
## 295 Resort Hotel              0           0              2015              July
## 296 Resort Hotel              0          84              2015              July
## 297 Resort Hotel              0          71              2015              July
## 298 Resort Hotel              0          16              2015              July
## 299 Resort Hotel              0          54              2015              July
##     arrival_date_week_number arrival_date_day_of_month stays_in_weekend_nights
## 1                         27                         1                       0
## 2                         27                         1                       0
## 3                         27                         1                       0
## 4                         27                         1                       0
## 5                         27                         1                       0
## 6                         27                         1                       0
## 7                         27                         1                       0
## 8                         27                         1                       0
## 9                         27                         1                       0
## 10                        27                         1                       0
## 11                        27                         1                       0
## 12                        27                         1                       0
## 13                        27                         1                       0
## 14                        27                         1                       0
## 15                        27                         1                       0
## 16                        27                         1                       0
## 17                        27                         1                       0
## 18                        27                         1                       0
## 19                        27                         1                       0
## 20                        27                         1                       0
## 21                        27                         1                       1
## 22                        27                         1                       2
## 23                        27                         1                       2
## 24                        27                         1                       2
## 25                        27                         1                       2
## 26                        27                         1                       2
## 27                        27                         1                       2
## 28                        27                         1                       2
## 29                        27                         1                       2
## 30                        27                         1                       2
## 31                        27                         1                       4
## 32                        27                         1                       4
## 33                        27                         1                       2
## 34                        27                         2                       2
## 35                        27                         2                       1
## 36                        27                         2                       1
## 37                        27                         2                       1
## 38                        27                         2                       1
## 39                        27                         2                       1
## 40                        27                         2                       2
## 41                        27                         2                       2
## 42                        27                         2                       2
## 43                        27                         2                       2
## 44                        27                         2                       2
## 45                        27                         2                       2
## 46                        27                         2                       2
## 47                        27                         2                       2
## 48                        27                         2                       2
```

```
## 49                     27                        2                        2
## 50                     27                        2                        2
## 51                     27                        2                        2
## 52                     27                        2                        3
## 53                     27                        2                        4
## 54                     27                        2                        0
## 55                     27                        2                        0
## 56                     27                        2                        0
## 57                     27                        2                        0
## 58                     27                        2                        0
## 59                     27                        2                        0
## 60                     27                        2                        0
## 61                     27                        2                        0
## 62                     27                        2                        0
## 63                     27                        2                        0
## 64                     27                        2                        0
## 65                     27                        2                        0
## 66                     27                        3                        0
## 67                     27                        3                        0
## 68                     27                        3                        0
## 69                     27                        3                        0
## 70                     27                        3                        0
## 71                     27                        3                        0
## 72                     27                        3                        0
## 73                     27                        3                        0
## 74                     27                        3                        0
## 75                     27                        3                        0
## 76                     27                        3                        1
## 77                     27                        3                        1
## 78                     27                        3                        2
## 79                     27                        3                        2
## 80                     27                        3                        2
## 81                     27                        3                        2
## 82                     27                        3                        3
## 83                     27                        3                        3
## 84                     27                        3                        3
## 85                     27                        3                        3
## 86                     27                        3                        4
## 87                     27                        3                        4
## 88                     27                        3                        6
## 89                     27                        3                        0
## 90                     27                        3                        0
## 91                     27                        3                        0
## 92                     27                        3                        0
## 93                     27                        3                        0
## 94                     27                        3                        0
## 95                     27                        3                        0
## 96                     27                        3                        0
## 97                     27                        3                        2
## 98                     27                        3                        2
## 99                     27                        3                        2
## 100                    27                        3                        2
## 101                    27                        4                        2
## 102                    27                        4                        2
```

```
## 103              27                         4                      2
## 104              27                         4                      2
## 105              27                         4                      2
## 106              27                         4                      2
## 107              27                         4                      2
## 108              27                         4                      2
## 109              27                         4                      2
## 110              27                         4                      2
## 111              27                         4                      2
## 112              27                         4                      2
## 113              27                         4                      2
## 114              27                         4                      2
## 115              27                         4                      2
## 116              27                         4                      2
## 117              27                         4                      4
## 118              27                         4                      4
## 119              27                         4                      4
## 120              27                         4                      0
## 121              27                         4                      0
## 122              27                         4                      0
## 123              27                         4                      0
## 124              27                         4                      0
## 125              27                         4                      0
## 126              27                         4                      0
## 127              27                         4                      0
## 128              27                         4                      1
## 129              27                         4                      1
## 130              27                         4                      1
## 131              27                         4                      1
## 132              28                         5                      1
## 133              28                         5                      1
## 134              28                         5                      1
## 135              28                         5                      1
## 136              28                         5                      1
## 137              28                         5                      1
## 138              28                         5                      1
## 139              28                         5                      1
## 140              28                         5                      1
## 141              28                         5                      2
## 142              28                         5                      2
## 143              28                         5                      2
## 144              28                         5                      2
## 145              28                         5                      2
## 146              28                         5                      2
## 147              28                         5                      2
## 148              28                         5                      2
## 149              28                         5                      2
## 150              28                         5                      2
## 151              28                         5                      2
## 152              28                         5                      2
## 153              28                         5                      2
## 154              28                         5                      2
## 155              28                         5                      4
## 156              28                         5                      4
```

```
## 157                    28                    5                    4
## 158                    28                    5                    4
## 159                    28                    5                    4
## 160                    28                    5                    4
## 161                    28                    6                    1
## 162                    28                    6                    1
## 163                    28                    6                    1
## 164                    28                    6                    1
## 165                    28                    6                    1
## 166                    28                    6                    1
## 167                    28                    6                    1
## 168                    28                    6                    0
## 169                    28                    6                    0
## 170                    28                    6                    1
## 171                    28                    6                    1
## 172                    28                    6                    1
## 173                    28                    6                    1
## 174                    28                    6                    1
## 175                    28                    6                    1
## 176                    28                    6                    1
## 177                    28                    6                    1
## 178                    28                    6                    1
## 179                    28                    6                    1
## 180                    28                    6                    1
## 181                    28                    6                    2
## 182                    28                    6                    2
## 183                    28                    6                    2
## 184                    28                    6                    3
## 185                    28                    6                    3
## 186                    28                    6                    3
## 187                    28                    6                    3
## 188                    28                    6                    3
## 189                    28                    6                    3
## 190                    28                    6                    3
## 191                    28                    6                    4
## 192                    28                    6                    4
## 193                    28                    6                    2
## 194                    28                    7                    0
## 195                    28                    7                    0
## 196                    28                    7                    0
## 197                    28                    7                    0
## 198                    28                    7                    0
## 199                    28                    7                    0
## 200                    28                    7                    0
## 201                    28                    7                    0
## 202                    28                    7                    0
## 203                    28                    7                    0
## 204                    28                    7                    0
## 205                    28                    7                    0
## 206                    28                    7                    0
## 207                    28                    7                    2
## 208                    28                    7                    2
## 209                    28                    7                    2
## 210                    28                    7                    4
```

```
## 211                    28                    8                    0
## 212                    28                    8                    0
## 213                    28                    8                    0
## 214                    28                    8                    0
## 215                    28                    8                    0
## 216                    28                    8                    0
## 217                    28                    8                    0
## 218                    28                    8                    0
## 219                    28                    8                    0
## 220                    28                    8                    0
## 221                    28                    8                    0
## 222                    28                    8                    1
## 223                    28                    8                    2
## 224                    28                    8                    2
## 225                    28                    8                    2
## 226                    28                    8                    2
## 227                    28                    8                    2
## 228                    28                    8                    2
## 229                    28                    8                    2
## 230                    28                    8                    2
## 231                    28                    9                    0
## 232                    28                    9                    0
## 233                    28                    9                    0
## 234                    28                    9                    0
## 235                    28                    9                    0
## 236                    28                    9                    0
## 237                    28                    9                    0
## 238                    28                    9                    1
## 239                    28                    9                    1
## 240                    28                    9                    1
## 241                    28                    9                    2
## 242                    28                    9                    2
## 243                    28                    9                    2
## 244                    28                    9                    2
## 245                    28                    9                    2
## 246                    28                    9                    2
## 247                    28                    9                    2
## 248                    28                    9                    2
## 249                    28                   10                    0
## 250                    28                   10                    0
## 251                    28                   10                    0
## 252                    28                   10                    0
## 253                    28                   10                    0
## 254                    28                   10                    0
## 255                    28                   10                    0
## 256                    28                   10                    0
## 257                    28                   10                    0
## 258                    28                   10                    1
## 259                    28                   10                    1
## 260                    28                   10                    1
## 261                    28                   10                    2
## 262                    28                   10                    2
## 263                    28                   10                    2
## 264                    28                   10                    2
```

```
## 265                           28               10                    2
## 266                           28               10                    2
## 267                           28               10                    2
## 268                           28               10                    2
## 269                           28               10                    2
## 270                           28               10                    2
## 271                           28               10                    2
## 272                           28               10                    2
## 273                           28               10                    2
## 274                           28               10                    2
## 275                           28               10                    2
## 276                           28               10                    3
## 277                           28               10                    4
## 278                           28               10                    4
## 279                           28               10                    2
## 280                           28               10                    2
## 281                           28               11                    2
## 282                           28               11                    2
## 283                           28               11                    2
## 284                           28               11                    2
## 285                           28               11                    2
## 286                           28               11                    2
## 287                           28               11                    2
## 288                           28               11                    2
## 289                           28               11                    2
## 290                           28               11                    2
## 291                           28               11                    2
## 292                           28               11                    0
## 293                           28               11                    0
## 294                           28               11                    0
## 295                           28               11                    0
## 296                           28               11                    1
## 297                           28               11                    1
## 298                           28               11                    1
## 299                           28               11                    2
##     stays_in_week_nights adults children babies meal country market_segment
## 1                      0      2        0      0   BB     PRT         Direct
## 2                      0      2        0      0   BB     PRT         Direct
## 3                      1      1        0      0   BB     GBR         Direct
## 4                      1      1        0      0   BB     GBR      Corporate
## 5                      2      2        0      0   BB     GBR      Online TA
## 6                      2      2        0      0   BB     GBR      Online TA
## 7                      2      2        0      0   BB     PRT         Direct
## 8                      2      2        0      0   FB     PRT         Direct
## 9                      3      2        0      0   BB     PRT      Online TA
## 10                     3      2        0      0   HB     PRT   Offline TA/TO
## 11                     4      2        0      0   BB     PRT      Online TA
## 12                     4      2        0      0   HB     PRT      Online TA
## 13                     4      2        0      0   BB     USA      Online TA
## 14                     4      2        1      0   HB     ESP      Online TA
## 15                     4      2        0      0   BB     PRT      Online TA
## 16                     4      2        0      0   BB     IRL      Online TA
## 17                     4      2        0      0   BB     PRT   Offline TA/TO
## 18                     1      2        0      0   BB     IRL      Online TA
```

```
## 19                1   2   0   0   BB   FRA     Corporate
## 20                4   2   0   0   BB   GBR        Direct
## 21                4   1   0   0   BB   GBR     Online TA
## 22                4   2   0   0   BB   PRT        Direct
## 23                4   2   0   0   BB   PRT        Direct
## 24                4   2   0   0   BB   PRT        Direct
## 25                5   2   0   0   HB   GBR  Offline TA/TO
## 26                5   2   0   0   BB   PRT  Offline TA/TO
## 27                5   2   0   0   BB   IRL  Offline TA/TO
## 28                5   2   0   0   BB   PRT     Online TA
## 29                5   2   0   0   BB   PRT     Online TA
## 30                5   2   0   0   BB   PRT     Online TA
## 31               10   1   0   0   BB   NULL       Direct
## 32               11   2   0   0   BB   GBR  Offline TA/TO
## 33                8   2   0   0   BB   PRT        Direct
## 34                4   2   0   0   BB   IRL  Offline TA/TO
## 35                3   3   0   0   BB   PRT     Online TA
## 36                3   3   0   0   BB   PRT     Online TA
## 37                3   2   0   0   BB   ESP     Online TA
## 38                3   3   0   0   BB   PRT     Online TA
## 39                3   3   0   0   BB   PRT     Online TA
## 40                3   2   0   0   HB   ROU        Direct
## 41                3   2   0   0   BB   PRT     Online TA
## 42                3   2   0   0   BB   IRL  Offline TA/TO
## 43                3   2   0   0   BB   ESP        Direct
## 44                3   2   0   0   HB   ROU        Direct
## 45                5   2   0   0   BB   PRT     Online TA
## 46                5   2   2   0   BB   PRT     Online TA
## 47                5   2   0   0   BB   ESP  Offline TA/TO
## 48                5   2   0   0   BB   NOR  Offline TA/TO
## 49                5   2   0   0   HB   GBR  Offline TA/TO
## 50                5   2   0   0   HB   IRL     Online TA
## 51                5   2   0   0   BB   NOR  Offline TA/TO
## 52                8   2   0   0   BB   IRL  Offline TA/TO
## 53               10   2   0   0   BB   OMN  Offline TA/TO
## 54                1   2   0   0   BB   ESP     Online TA
## 55                1   2   0   0   BB   ARG     Online TA
## 56                1   2   2   0   BB   ESP        Direct
## 57                1   2   0   0   BB   PRT        Direct
## 58                1   2   0   0   BB   PRT     Online TA
## 59                1   2   0   0   BB   PRT        Direct
## 60                2   2   0   0   BB   USA     Online TA
## 61                2   2   0   0   BB   PRT     Online TA
## 62                2   2   0   0   BB   IRL     Online TA
## 63                3   2   0   0   BB   ESP        Direct
## 64                3   2   0   0   BB   IRL  Offline TA/TO
## 65                3   2   0   0   HB   PRT     Online TA
## 66                2   2   2   0   BB   USA     Online TA
## 67                2   2   0   0   BB   ESP     Online TA
## 68                2   2   0   0   BB   POL     Online TA
## 69                2   3   0   0   BB   PRT  Offline TA/TO
## 70                2   2   0   0   BB   PRT     Online TA
## 71                2   2   0   0   BB   PRT     Online TA
## 72                2   2   0   0   BB   PRT     Online TA
```

```
## 73                2    2    0    0    HB    PRT    Offline TA/TO
## 74                2    2    0    0    BB    ESP      Online TA
## 75                2    3    0    0    BB    PRT      Online TA
## 76                2    2    0    0    BB    ESP      Online TA
## 77                2    2    0    0    BB    PRT      Online TA
## 78                2    1    0    0    BB    PRT      Online TA
## 79                2    2    0    0    BB    DEU    Offline TA/TO
## 80                6    3    0    0    BB    PRT    Offline TA/TO
## 81                7    2    0    0    BB    FRA    Offline TA/TO
## 82                7    2    0    0    BB    PRT    Offline TA/TO
## 83                7    2    0    0    BB    GBR    Offline TA/TO
## 84                7    2    0    0    HB    PRT         Direct
## 85                7    2    0    0    HB    GBR    Offline TA/TO
## 86               10    2    0    0    HB    GBR    Offline TA/TO
## 87               10    2    0    0    BB    GBR      Online TA
## 88               15    2    1    0    BB    PRT    Offline TA/TO
## 89                1    2    0    0    BB    GBR      Online TA
## 90                1    2    0    0    BB    PRT      Online TA
## 91                1    2    0    0    BB    ESP      Online TA
## 92                1    2    0    0    BB    PRT      Online TA
## 93                1    2    0    0    BB    USA      Online TA
## 94                1    2    0    0    BB    BEL      Online TA
## 95                2    2    0    0    BB    PRT      Online TA
## 96                2    2    0    0    BB    PRT      Online TA
## 97                5    2    0    0    BB    PRT      Online TA
## 98                5    3    0    0    HB    ESP    Offline TA/TO
## 99                5    2    1    0    BB    PRT      Online TA
## 100               5    2    0    0    BB    DEU         Direct
## 101               1    2    0    0    BB    ESP         Direct
## 102               1    2    0    0    BB    FRA    Offline TA/TO
## 103               4    1    2    0    BB    FRA    Offline TA/TO
## 104               4    2    0    0    BB    PRT      Online TA
## 105               5    2    0    0    BB    PRT      Online TA
## 106               5    2    2    0    BB    PRT      Online TA
## 107               5    3    0    0    HB    PRT         Direct
## 108               5    2    0    0    BB    PRT      Online TA
## 109               5    2    0    0    BB    PRT    Offline TA/TO
## 110               5    2    0    1    BB    PRT      Online TA
## 111               5    2    0    0    BB    CHE      Online TA
## 112               5    2    0    1    HB    PRT      Online TA
## 113               5    2    0    0    BB    GBR      Online TA
## 114               6    3    0    0    BB    PRT      Online TA
## 115               6    2    0    0    BB    PRT      Online TA
## 116               6    2    0    0    BB    PRT      Online TA
## 117               6    2    0    0    BB    GBR    Offline TA/TO
## 118               6    2    0    0    BB    PRT    Offline TA/TO
## 119               6    2    1    0    HB    PRT         Direct
## 120               1    2    2    0    BB    PRT      Online TA
## 121               1    2    0    0    BB    PRT    Offline TA/TO
## 122               1    1    0    0    HB    PRT      Online TA
## 123               1    1    0    0    BB    PRT         Direct
## 124               1    2    0    0    BB    PRT      Online TA
## 125               1    2    0    0    BB    PRT      Online TA
## 126               1    4    0    0    FB    PRT    Complementary
```

```
## 127                    1     2     0     0     BB   ESP      Online TA
## 128                    1     2     0     0     BB   FRA      Online TA
## 129                    1     2     0     0     BB   PRT      Online TA
## 130                    1     2     0     0     BB   FRA      Online TA
## 131                    1     2     0     0     BB   FRA      Online TA
## 132                    0     2     0     0     BB   ESP      Online TA
## 133                    0     2     0     0     BB   PRT      Online TA
## 134                    0     2     0     0     BB   ESP      Online TA
## 135                    0     1     0     0     BB   DEU      Online TA
## 136                    0     1     0     0     BB   PRT      Online TA
## 137                    0     2     0     0     BB   PRT      Online TA
## 138                    0     1     0     0     BB   DEU      Online TA
## 139                    0     2     0     0     BB   PRT      Online TA
## 140                    0     2     0     0     BB   PRT         Direct
## 141                    0     3     0     0     HB   PRT      Online TA
## 142                    0     2     0     0     BB   FRA      Online TA
## 143                    2     2     0     0     BB   ESP      Online TA
## 144                    3     2     1     0     BB    CN   Offline TA/TO
## 145                    3     2     0     0     BB   ESP      Online TA
## 146                    3     2     0     0     BB   PRT      Online TA
## 147                    4     2     0     0     BB   ESP      Online TA
## 148                    4     2     0     0     BB   PRT      Online TA
## 149                    4     2     2     0     BB   PRT      Online TA
## 150                    5     2     0     0     HB   PRT   Offline TA/TO
## 151                    5     2     2     0     HB   PRT         Direct
## 152                    5     2     0     0     BB   IRL      Online TA
## 153                    5     2     0     0     HB   PRT      Online TA
## 154                    5     2     0     0     BB   ESP   Offline TA/TO
## 155                    5     2     2     0     BB   CHE      Online TA
## 156                    6     2     0     0     BB   PRT   Offline TA/TO
## 157                    6     3     0     0     BB   PRT         Direct
## 158                    7     2     0     0     BB   GBR   Offline TA/TO
## 159                   10     1     0     0     HB   GBR   Offline TA/TO
## 160                   10     2     0     0     HB   GBR   Offline TA/TO
## 161                    4     2     2     0     BB   PRT      Online TA
## 162                    3     2     0     0     BB   PRT      Online TA
## 163                    3     2     0     0     BB   USA      Online TA
## 164                    3     3     0     0     BB    CN   Offline TA/TO
## 165                    3     2     2     0     HB   CHE         Direct
## 166                    3     2     0     1     BB   PRT      Online TA
## 167                    3     3     0     0     BB   USA      Online TA
## 168                    0     2     0     0     BB   PRT      Online TA
## 169                    0     1     0     0     BB   PRT         Direct
## 170                    0     2     1     0     BB   PRT         Direct
## 171                    1     2     0     0     BB   PRT      Online TA
## 172                    1     2     0     0     BB   USA      Online TA
## 173                    2     2     0     0     BB   GRC      Online TA
## 174                    3     2     0     0     HB   PRT      Online TA
## 175                    3     2     0     0     HB   PRT   Offline TA/TO
## 176                    3     2     0     0     BB   PRT      Online TA
## 177                    4     2     0     0     BB   PRT      Online TA
## 178                    4     2     0     0     HB   PRT         Direct
## 179                    5     2     0     0     HB   ESP      Online TA
## 180                    5     2     0     0     BB   PRT      Online TA
```

```
## 181                   5    2    2    0    HB    PRT      Online TA
## 182                   5    1    0    0    HB    PRT   Offline TA/TO
## 183                   5    2    0    0    BB    GBR   Offline TA/TO
## 184                   5    2    0    0    HB    PRT      Online TA
## 185                   7    2    0    0    BB    PRT      Online TA
## 186                   7    2    0    0    BB    GBR   Offline TA/TO
## 187                   7    2    0    0    BB    GBR   Offline TA/TO
## 188                   7    2    0    0    HB    PRT         Direct
## 189                   7    2    0    0    HB    GBR   Offline TA/TO
## 190                   8    1    0    0    BB    FRA         Direct
## 191                  10    2    0    0    BB    ITA   Offline TA/TO
## 192                  10    2    0    0    BB    GBR   Offline TA/TO
## 193                   5    2    0    0    BB    PRT   Offline TA/TO
## 194                   2    2    0    0    BB    PRT      Online TA
## 195                   3    2    0    0    BB    ESP      Online TA
## 196                   3    2    1    0    HB    PRT         Direct
## 197                   0    2    0    0    BB    PRT         Direct
## 198                   0    2    0    0    BB    PRT      Online TA
## 199                   1    1    0    0    BB    GBR      Online TA
## 200                   1    3    0    0    HB    PRT         Direct
## 201                   1    1    0    0    BB    GBR      Online TA
## 202                   4    3    2    0    BB    ESP      Online TA
## 203                   4    2    0    0    BB    PRT      Online TA
## 204                   4    3    0    0    HB    USA   Offline TA/TO
## 205                   4    2    0    0    BB    NLD         Direct
## 206                   5    2    0    0    HB    PRT   Offline TA/TO
## 207                   5    2    0    0    HB    PRT      Online TA
## 208                   5    2    0    0    BB    IRL   Offline TA/TO
## 209                   5    2    0    0    BB    PRT   Offline TA/TO
## 210                  10    2    0    0    HB    IRL   Offline TA/TO
## 211                   3    2    0    0    BB    GBR      Online TA
## 212                   4    2    0    0    BB    PRT      Online TA
## 213                   4    2    0    0    BB    ESP      Online TA
## 214                   4    2    0    0    BB    PRT      Online TA
## 215                   4    2    0    0    BB    ESP      Online TA
## 216                   4    2    0    0    BB    PRT   Offline TA/TO
## 217                   4    2    0    0    BB    PRT      Online TA
## 218                   1    1    0    0    BB    PRT   Offline TA/TO
## 219                   1    2    0    0    BB    PRT      Corporate
## 220                   1    2    0    0    BB    PRT      Corporate
## 221                   2    2    0    0    BB    CHE      Corporate
## 222                   4    2    0    0    BB    PRT         Direct
## 223                   4    2    0    0    BB    PRT         Direct
## 224                   5    2    1    0    HB    PRT   Offline TA/TO
## 225                   5    2    0    0    BB    GBR      Online TA
## 226                   5    2    0    0    HB    GBR   Offline TA/TO
## 227                   5    2    0    0    HB    PRT      Online TA
## 228                   6    3    0    0    BB    IRL         Direct
## 229                   7    3    0    0    BB    DNK      Online TA
## 230                   7    2    0    0    BB    DNK      Online TA
## 231                   1    2    2    0    BB    PRT      Online TA
## 232                   2    3    0    0    BB    ARG         Direct
## 233                   2    2    2    0    BB    PRT         Direct
## 234                   3    2    0    0    BB    PRT         Direct
```

```
## 235                          3    2    2    0    BB    PRT      Online TA
## 236                          3    2    2    0    BB    PRT      Online TA
## 237                          3    2    0    1    BB    PRT      Online TA
## 238                          3    2    0    0    BB    PRT      Online TA
## 239                          3    2    0    0    BB    PRT      Online TA
## 240                          3    1    0    0    BB    RUS         Direct
## 241                          3    2    0    0    BB    SWE      Online TA
## 242                          3    2    0    0    BB    POL  Offline TA/TO
## 243                          5    2    0    0    BB    FRA  Offline TA/TO
## 244                          5    2    0    0    BB    GBR  Offline TA/TO
## 245                          5    2    0    0    BB    GBR  Offline TA/TO
## 246                          5    2    0    0    HB    GBR  Offline TA/TO
## 247                          5    2    0    0    HB    PRT      Online TA
## 248                          6    2    0    0    HB    PRT      Online TA
## 249                          1    2    0    0    BB    USA         Direct
## 250                          2    2    0    0    BB    PRT      Online TA
## 251                          2    2    0    0    BB    PRT      Online TA
## 252                          2    2    0    0    BB    PRT      Online TA
## 253                          2    2    0    0    BB    PRT      Online TA
## 254                          2    2    0    0    BB    PRT      Online TA
## 255                          2    2    1    0    HB    PRT      Online TA
## 256                          2    2    0    0    BB    PRT      Online TA
## 257                          2    2    0    0    BB    PRT      Online TA
## 258                          2    2    0    0    BB    GBR      Online TA
## 259                          2    2    0    0    BB    AUS         Direct
## 260                          2    2    0    0    BB    GBR      Online TA
## 261                          2    2    0    0    FB    PRT         Direct
## 262                          2    2    0    0    FB    PRT         Direct
## 263                          3    2    0    0    BB    PRT      Online TA
## 264                          3    2    0    0    BB    POL      Online TA
## 265                          3    2    0    2    HB    PRT         Direct
## 266                          3    2    2    0    BB    EST      Online TA
## 267                          5    2    0    0    HB    PRT      Online TA
## 268                          5    2    0    0    HB    PRT         Direct
## 269                          5    2    0    0    HB    PRT      Online TA
## 270                          5    2    0    0    HB    PRT      Online TA
## 271                          5    1    0    0    HB    RUS  Offline TA/TO
## 272                          5    2    1    0    HB    GBR      Online TA
## 273                          5    2    1    1    FB    PRT  Offline TA/TO
## 274                          6    3    1    0    BB    PRT         Direct
## 275                          7    2    0    0    BB    IRL      Online TA
## 276                          7    2    0    0    BB    PRT      Online TA
## 277                          7    2    0    1    BB    GBR      Online TA
## 278                          9    2    0    0    BB    DNK      Online TA
## 279                          5    2    1    0    HB    GBR      Online TA
## 280                          5    2    0    0    HB    GBR      Online TA
## 281                          3    2    1    0    HB    PRT  Offline TA/TO
## 282                          3    2    0    0    BB    ESP      Online TA
## 283                          4    2    0    1    BB    PRT         Direct
## 284                          4    2    0    0    BB    PRT      Online TA
## 285                          4    3    0    0    HB    PRT  Offline TA/TO
## 286                          4    2    0    0    BB    ESP      Online TA
## 287                          5    2    0    0    BB    PRT         Direct
## 288                          5    2    0    0    BB    PRT      Online TA
```

```
## 289                 2       2         0         0   BB     GBR        Online TA
## 290                 2       2         0         0   BB     PRT        Online TA
## 291                 2       2         0         0   BB     CZE        Online TA
## 292                 1       1         0         0   BB     GBR           Direct
## 293                 1       2         0         0   HB     DEU        Online TA
## 294                 1       2         0         0   BB     ESP           Direct
## 295                 1       2         0         0   BB     ESP        Online TA
## 296                 1       2         0         0   HB     PRT        Corporate
## 297                 1       2         0         0   BB     ESP     Offline TA/TO
## 298                 1       2         0         0   BB     ROU        Online TA
## 299                 1       2         0         0   BB     PRT        Online TA
##     distribution_channel is_repeated_guest previous_cancellations
## 1                 Direct                 0                      0
## 2                 Direct                 0                      0
## 3                 Direct                 0                      0
## 4              Corporate                 0                      0
## 5                  TA/TO                 0                      0
## 6                  TA/TO                 0                      0
## 7                 Direct                 0                      0
## 8                 Direct                 0                      0
## 9                  TA/TO                 0                      0
## 10                 TA/TO                 0                      0
## 11                 TA/TO                 0                      0
## 12                 TA/TO                 0                      0
## 13                 TA/TO                 0                      0
## 14                 TA/TO                 0                      0
## 15                 TA/TO                 0                      0
## 16                 TA/TO                 0                      0
## 17                 TA/TO                 0                      0
## 18                 TA/TO                 0                      0
## 19             Corporate                 0                      0
## 20                Direct                 0                      0
## 21                 TA/TO                 0                      0
## 22                Direct                 0                      0
## 23                Direct                 0                      0
## 24                Direct                 0                      0
## 25                 TA/TO                 0                      0
## 26                 TA/TO                 0                      0
## 27                 TA/TO                 0                      0
## 28                 TA/TO                 0                      0
## 29                 TA/TO                 0                      0
## 30                 TA/TO                 0                      0
## 31                Direct                 0                      0
## 32                 TA/TO                 0                      0
## 33                Direct                 0                      0
## 34                 TA/TO                 0                      0
## 35                 TA/TO                 0                      0
## 36                 TA/TO                 0                      0
## 37                 TA/TO                 0                      0
## 38                 TA/TO                 0                      0
## 39                 TA/TO                 0                      0
## 40                Direct                 0                      0
## 41                 TA/TO                 0                      0
## 42                 TA/TO                 0                      0
```

18

```
## 43                Direct                  0                        0
## 44                Direct                  0                        0
## 45                 TA/TO                  0                        0
## 46                 TA/TO                  0                        0
## 47                 TA/TO                  0                        0
## 48                 TA/TO                  0                        0
## 49                 TA/TO                  0                        0
## 50                 TA/TO                  0                        0
## 51                 TA/TO                  0                        0
## 52                 TA/TO                  0                        0
## 53                 TA/TO                  0                        0
## 54                 TA/TO                  0                        0
## 55                 TA/TO                  0                        0
## 56                Direct                  0                        0
## 57                Direct                  0                        0
## 58                 TA/TO                  0                        0
## 59                Direct                  0                        0
## 60                 TA/TO                  0                        0
## 61                 TA/TO                  0                        0
## 62                 TA/TO                  0                        0
## 63                Direct                  0                        0
## 64                 TA/TO                  0                        0
## 65                 TA/TO                  0                        0
## 66                 TA/TO                  0                        0
## 67                 TA/TO                  0                        0
## 68                 TA/TO                  0                        0
## 69                 TA/TO                  0                        0
## 70                 TA/TO                  0                        0
## 71                 TA/TO                  0                        0
## 72                 TA/TO                  0                        0
## 73                 TA/TO                  0                        0
## 74                 TA/TO                  0                        0
## 75                 TA/TO                  0                        0
## 76                 TA/TO                  0                        0
## 77                 TA/TO                  0                        0
## 78                 TA/TO                  0                        0
## 79                 TA/TO                  0                        0
## 80                 TA/TO                  0                        0
## 81                 TA/TO                  0                        0
## 82                 TA/TO                  0                        0
## 83                 TA/TO                  0                        0
## 84                Direct                  0                        0
## 85                 TA/TO                  0                        0
## 86                 TA/TO                  0                        0
## 87                 TA/TO                  0                        0
## 88                 TA/TO                  0                        0
## 89                 TA/TO                  0                        0
## 90                 TA/TO                  0                        0
## 91                 TA/TO                  0                        0
## 92                 TA/TO                  0                        0
## 93                 TA/TO                  0                        0
## 94                 TA/TO                  0                        0
## 95                 TA/TO                  0                        0
## 96                 TA/TO                  0                        0
```

```
## 97              TA/TO              0              0
## 98              TA/TO              0              0
## 99              TA/TO              0              0
## 100             Direct             0              0
## 101             Direct             0              0
## 102             TA/TO              0              0
## 103             TA/TO              0              0
## 104             TA/TO              0              0
## 105             TA/TO              0              0
## 106             TA/TO              0              0
## 107             Direct             0              0
## 108             TA/TO              0              0
## 109             TA/TO              0              0
## 110             TA/TO              0              0
## 111             TA/TO              0              0
## 112             TA/TO              0              0
## 113             TA/TO              0              0
## 114             TA/TO              0              0
## 115             TA/TO              0              0
## 116             TA/TO              0              0
## 117             TA/TO              0              0
## 118             TA/TO              0              0
## 119             Direct             0              0
## 120             TA/TO              0              0
## 121             TA/TO              0              0
## 122             TA/TO              0              0
## 123             Direct             0              0
## 124             TA/TO              0              0
## 125             TA/TO              0              0
## 126             Direct             0              0
## 127             TA/TO              0              0
## 128             TA/TO              0              0
## 129             TA/TO              0              0
## 130             TA/TO              0              0
## 131             TA/TO              0              0
## 132             TA/TO              0              0
## 133             TA/TO              0              0
## 134             TA/TO              0              0
## 135             TA/TO              0              0
## 136             TA/TO              0              0
## 137             TA/TO              0              0
## 138             TA/TO              0              0
## 139             TA/TO              0              0
## 140             Direct             0              0
## 141             TA/TO              0              0
## 142             TA/TO              0              0
## 143             TA/TO              0              0
## 144             TA/TO              0              0
## 145             TA/TO              0              0
## 146             TA/TO              0              0
## 147             TA/TO              0              0
## 148             TA/TO              0              0
## 149             TA/TO              0              0
## 150             TA/TO              0              0
```

```
## 151              Direct             0              0
## 152              TA/TO              0              0
## 153              TA/TO              0              0
## 154              TA/TO              0              0
## 155              TA/TO              0              0
## 156              TA/TO              0              0
## 157              Direct             0              0
## 158              TA/TO              0              0
## 159              TA/TO              0              0
## 160              TA/TO              0              0
## 161              TA/TO              0              0
## 162              TA/TO              0              0
## 163              TA/TO              0              0
## 164              TA/TO              0              0
## 165              Direct             0              0
## 166              TA/TO              0              0
## 167              TA/TO              0              0
## 168              TA/TO              0              0
## 169              Direct             0              0
## 170              Direct             0              0
## 171              TA/TO              0              0
## 172              TA/TO              0              0
## 173              TA/TO              0              0
## 174              TA/TO              0              0
## 175              TA/TO              0              0
## 176              TA/TO              0              0
## 177              TA/TO              0              0
## 178              Direct             0              0
## 179              TA/TO              0              0
## 180              TA/TO              0              0
## 181              TA/TO              0              0
## 182              TA/TO              0              0
## 183              TA/TO              0              0
## 184              TA/TO              0              0
## 185              TA/TO              0              0
## 186              TA/TO              0              0
## 187              TA/TO              0              0
## 188              Direct             0              0
## 189              TA/TO              0              0
## 190              Direct             0              0
## 191              TA/TO              0              0
## 192              TA/TO              0              0
## 193              TA/TO              0              0
## 194              TA/TO              0              0
## 195              TA/TO              0              0
## 196              Direct             0              0
## 197              Direct             0              0
## 198              TA/TO              0              0
## 199              TA/TO              0              0
## 200              Direct             0              0
## 201              TA/TO              0              0
## 202              TA/TO              0              0
## 203              TA/TO              0              0
## 204              TA/TO              0              0
```

```
## 205           Direct              0                    0
## 206            TA/TO              0                    0
## 207            TA/TO              0                    0
## 208            TA/TO              0                    0
## 209            TA/TO              0                    0
## 210            TA/TO              0                    0
## 211            TA/TO              0                    0
## 212            TA/TO              0                    0
## 213            TA/TO              0                    0
## 214            TA/TO              0                    0
## 215            TA/TO              0                    0
## 216            TA/TO              0                    0
## 217            TA/TO              0                    0
## 218            TA/TO              0                    0
## 219         Corporate            0                    0
## 220         Corporate            0                    0
## 221         Corporate            0                    0
## 222           Direct             0                    0
## 223           Direct             0                    0
## 224            TA/TO             0                    0
## 225            TA/TO             0                    0
## 226            TA/TO             0                    0
## 227            TA/TO             0                    0
## 228           Direct             0                    0
## 229            TA/TO             0                    0
## 230            TA/TO             0                    0
## 231            TA/TO             0                    0
## 232           Direct             0                    0
## 233           Direct             0                    0
## 234           Direct             0                    0
## 235            TA/TO             0                    0
## 236            TA/TO             0                    0
## 237            TA/TO             0                    0
## 238            TA/TO             0                    0
## 239            TA/TO             0                    0
## 240           Direct             0                    0
## 241            TA/TO             0                    0
## 242            TA/TO             0                    0
## 243            TA/TO             0                    0
## 244            TA/TO             0                    0
## 245            TA/TO             0                    0
## 246            TA/TO             0                    0
## 247            TA/TO             0                    0
## 248            TA/TO             0                    0
## 249           Direct             0                    0
## 250            TA/TO             0                    0
## 251            TA/TO             0                    0
## 252            TA/TO             0                    0
## 253            TA/TO             0                    0
## 254            TA/TO             0                    0
## 255            TA/TO             0                    0
## 256            TA/TO             0                    0
## 257            TA/TO             0                    0
## 258            TA/TO             0                    0
```

```
## 259             Direct               0                    0
## 260              TA/TO               0                    0
## 261             Direct               0                    0
## 262             Direct               0                    0
## 263              TA/TO               0                    0
## 264              TA/TO               0                    0
## 265             Direct               0                    0
## 266              TA/TO               0                    0
## 267              TA/TO               0                    0
## 268             Direct               0                    0
## 269              TA/TO               0                    0
## 270              TA/TO               0                    0
## 271              TA/TO               0                    0
## 272              TA/TO               0                    0
## 273              TA/TO               0                    0
## 274             Direct               0                    0
## 275              TA/TO               0                    0
## 276              TA/TO               0                    0
## 277              TA/TO               0                    0
## 278              TA/TO               0                    0
## 279              TA/TO               0                    0
## 280              TA/TO               0                    0
## 281              TA/TO               0                    0
## 282              TA/TO               0                    0
## 283              TA/TO               0                    0
## 284              TA/TO               0                    0
## 285              TA/TO               0                    0
## 286              TA/TO               0                    0
## 287             Direct               0                    0
## 288              TA/TO               0                    0
## 289              TA/TO               0                    0
## 290              TA/TO               0                    0
## 291              TA/TO               0                    0
## 292             Direct               0                    0
## 293              TA/TO               0                    0
## 294             Direct               0                    0
## 295              TA/TO               0                    0
## 296          Corporate               0                    0
## 297              TA/TO               0                    0
## 298              TA/TO               0                    0
## 299              TA/TO               0                    0
##     previous_bookings_not_canceled reserved_room_type assigned_room_type
## 1                                0                  C                  C
## 2                                0                  C                  C
## 3                                0                  A                  C
## 4                                0                  A                  A
## 5                                0                  A                  A
## 6                                0                  A                  A
## 7                                0                  C                  C
## 8                                0                  C                  C
## 9                                0                  A                  A
## 10                               0                  D                  D
## 11                               0                  E                  E
## 12                               0                  D                  D
```

```
## 13                    0                    D                    E
## 14                    0                    G                    G
## 15                    0                    E                    E
## 16                    0                    D                    E
## 17                    0                    E                    E
## 18                    0                    A                    E
## 19                    0                    A                    G
## 20                    0                    G                    G
## 21                    0                    F                    F
## 22                    0                    A                    A
## 23                    0                    A                    A
## 24                    0                    D                    D
## 25                    0                    D                    I
## 26                    0                    D                    D
## 27                    0                    D                    D
## 28                    0                    E                    E
## 29                    0                    A                    A
## 30                    0                    D                    D
## 31                    0                    A                    A
## 32                    0                    D                    D
## 33                    0                    E                    E
## 34                    0                    A                    C
## 35                    0                    D                    D
## 36                    0                    D                    D
## 37                    0                    A                    C
## 38                    0                    D                    D
## 39                    0                    D                    D
## 40                    0                    E                    E
## 41                    0                    G                    G
## 42                    0                    D                    D
## 43                    0                    F                    F
## 44                    0                    E                    E
## 45                    0                    A                    A
## 46                    0                    G                    G
## 47                    0                    A                    A
## 48                    0                    E                    E
## 49                    0                    A                    B
## 50                    0                    E                    F
## 51                    0                    D                    D
## 52                    0                    A                    A
## 53                    0                    D                    D
## 54                    0                    A                    C
## 55                    0                    H                    H
## 56                    0                    C                    C
## 57                    0                    H                    H
## 58                    0                    A                    D
## 59                    0                    G                    G
## 60                    0                    A                    C
## 61                    0                    G                    G
## 62                    0                    E                    E
## 63                    0                    F                    F
## 64                    0                    A                    C
## 65                    0                    A                    A
## 66                    0                    G                    H
```

```
## 67                              0                    A                    C
## 68                              0                    D                    D
## 69                              0                    A                    A
## 70                              0                    A                    A
## 71                              0                    D                    D
## 72                              0                    A                    A
## 73                              0                    A                    A
## 74                              0                    A                    A
## 75                              0                    A                    A
## 76                              0                    A                    A
## 77                              0                    E                    E
## 78                              0                    A                    A
## 79                              0                    A                    A
## 80                              0                    D                    D
## 81                              0                    A                    A
## 82                              0                    A                    A
## 83                              0                    A                    A
## 84                              0                    A                    A
## 85                              0                    E                    E
## 86                              0                    E                    E
## 87                              0                    F                    F
## 88                              0                    A                    A
## 89                              0                    A                    C
## 90                              0                    A                    C
## 91                              0                    A                    C
## 92                              0                    E                    E
## 93                              0                    C                    C
## 94                              0                    A                    A
## 95                              0                    A                    A
## 96                              0                    A                    A
## 97                              0                    F                    F
## 98                              0                    E                    E
## 99                              0                    D                    D
## 100                             0                    E                    E
## 101                             0                    A                    C
## 102                             0                    D                    D
## 103                             0                    F                    F
## 104                             0                    A                    C
## 105                             0                    E                    E
## 106                             0                    H                    H
## 107                             0                    D                    D
## 108                             0                    A                    A
## 109                             0                    A                    A
## 110                             0                    A                    A
## 111                             0                    D                    D
## 112                             0                    E                    F
## 113                             0                    A                    A
## 114                             0                    E                    E
## 115                             0                    E                    E
## 116                             0                    A                    A
## 117                             0                    D                    D
## 118                             0                    D                    D
## 119                             0                    D                    D
## 120                             0                    H                    G
```

25

```
## 121                          0                    D                    C
## 122                          0                    A                    A
## 123                          0                    E                    G
## 124                          0                    A                    A
## 125                          0                    D                    D
## 126                          0                    H                    H
## 127                          0                    E                    E
## 128                          0                    A                    C
## 129                          0                    A                    A
## 130                          0                    A                    A
## 131                          0                    A                    C
## 132                          0                    A                    C
## 133                          0                    D                    D
## 134                          0                    A                    C
## 135                          0                    A                    A
## 136                          0                    A                    D
## 137                          0                    A                    E
## 138                          0                    A                    A
## 139                          0                    D                    D
## 140                          0                    G                    G
## 141                          0                    G                    G
## 142                          0                    D                    E
## 143                          0                    D                    D
## 144                          0                    A                    D
## 145                          0                    E                    E
## 146                          0                    E                    E
## 147                          0                    H                    H
## 148                          0                    A                    A
## 149                          0                    H                    H
## 150                          0                    D                    D
## 151                          0                    C                    C
## 152                          0                    F                    F
## 153                          0                    A                    A
## 154                          0                    E                    E
## 155                          0                    H                    H
## 156                          0                    D                    D
## 157                          0                    D                    C
## 158                          0                    D                    D
## 159                          0                    A                    A
## 160                          0                    D                    D
## 161                          0                    G                    G
## 162                          0                    A                    C
## 163                          0                    G                    G
## 164                          0                    D                    D
## 165                          0                    G                    G
## 166                          0                    D                    E
## 167                          0                    G                    G
## 168                          0                    A                    H
## 169                          0                    E                    H
## 170                          0                    A                    E
## 171                          0                    A                    E
## 172                          0                    D                    F
## 173                          0                    D                    D
## 174                          0                    E                    E
```

```
## 175                            0                    A                    E
## 176                            0                    A                    C
## 177                            0                    E                    E
## 178                            0                    F                    F
## 179                            0                    A                    C
## 180                            0                    E                    E
## 181                            0                    G                    G
## 182                            0                    A                    A
## 183                            0                    A                    A
## 184                            0                    A                    C
## 185                            0                    D                    D
## 186                            0                    A                    A
## 187                            0                    D                    D
## 188                            0                    F                    F
## 189                            0                    D                    D
## 190                            0                    A                    A
## 191                            0                    D                    D
## 192                            0                    A                    A
## 193                            0                    D                    D
## 194                            0                    A                    A
## 195                            0                    A                    A
## 196                            0                    F                    F
## 197                            0                    A                    A
## 198                            0                    A                    E
## 199                            0                    A                    A
## 200                            0                    C                    C
## 201                            0                    A                    A
## 202                            0                    H                    H
## 203                            0                    D                    D
## 204                            0                    D                    E
## 205                            0                    A                    A
## 206                            0                    A                    A
## 207                            0                    E                    E
## 208                            0                    D                    D
## 209                            0                    A                    A
## 210                            0                    D                    D
## 211                            0                    E                    E
## 212                            0                    A                    A
## 213                            0                    A                    A
## 214                            0                    A                    A
## 215                            0                    D                    D
## 216                            0                    A                    A
## 217                            0                    A                    A
## 218                            0                    A                    A
## 219                            0                    A                    A
## 220                            0                    A                    A
## 221                            0                    A                    F
## 222                            0                    A                    A
## 223                            0                    E                    E
## 224                            0                    D                    D
## 225                            0                    E                    F
## 226                            0                    D                    D
## 227                            0                    E                    E
## 228                            0                    A                    A
```

```
## 229                          0                    E                    E
## 230                          0                    E                    E
## 231                          0                    C                    C
## 232                          0                    A                    C
## 233                          0                    H                    G
## 234                          0                    D                    D
## 235                          0                    C                    C
## 236                          0                    G                    G
## 237                          0                    A                    A
## 238                          0                    A                    A
## 239                          0                    A                    A
## 240                          0                    A                    A
## 241                          0                    A                    A
## 242                          0                    A                    A
## 243                          0                    A                    D
## 244                          0                    A                    A
## 245                          0                    E                    E
## 246                          0                    E                    E
## 247                          0                    A                    A
## 248                          0                    A                    A
## 249                          0                    A                    A
## 250                          0                    A                    A
## 251                          0                    A                    A
## 252                          0                    A                    A
## 253                          0                    A                    A
## 254                          0                    A                    A
## 255                          0                    G                    G
## 256                          0                    D                    D
## 257                          0                    A                    A
## 258                          0                    C                    C
## 259                          0                    A                    C
## 260                          0                    E                    E
## 261                          0                    F                    F
## 262                          0                    F                    F
## 263                          0                    E                    E
## 264                          0                    A                    A
## 265                          0                    C                    C
## 266                          0                    G                    G
## 267                          0                    A                    A
## 268                          0                    D                    D
## 269                          0                    D                    D
## 270                          0                    E                    E
## 271                          0                    E                    E
## 272                          0                    F                    F
## 273                          0                    C                    C
## 274                          0                    C                    C
## 275                          0                    A                    A
## 276                          0                    D                    D
## 277                          0                    F                    F
## 278                          0                    C                    C
## 279                          0                    D                    D
## 280                          0                    F                    F
## 281                          0                    A                    A
## 282                          0                    A                    A
```

```
## 283                              0                A                A
## 284                              0                E                E
## 285                              0                D                D
## 286                              0                A                A
## 287                              0                E                E
## 288                              0                A                A
## 289                              0                E                E
## 290                              0                E                E
## 291                              0                E                E
## 292                              0                A                A
## 293                              0                A                A
## 294                              0                G                G
## 295                              0                A                A
## 296                              0                A                A
## 297                              0                A                A
## 298                              0                C                C
## 299                              0                E                F
##      booking_changes deposit_type agent company days_in_waiting_list
## 1                  3   No Deposit  NULL    NULL                    0
## 2                  4   No Deposit  NULL    NULL                    0
## 3                  0   No Deposit  NULL    NULL                    0
## 4                  0   No Deposit   304    NULL                    0
## 5                  0   No Deposit   240    NULL                    0
## 6                  0   No Deposit   240    NULL                    0
## 7                  0   No Deposit  NULL    NULL                    0
## 8                  0   No Deposit   303    NULL                    0
## 9                  0   No Deposit   240    NULL                    0
## 10                 0   No Deposit    15    NULL                    0
## 11                 0   No Deposit   240    NULL                    0
## 12                 0   No Deposit   240    NULL                    0
## 13                 0   No Deposit   240    NULL                    0
## 14                 1   No Deposit   241    NULL                    0
## 15                 0   No Deposit   241    NULL                    0
## 16                 0   No Deposit   240    NULL                    0
## 17                 0   No Deposit     8    NULL                    0
## 18                 0   No Deposit   240    NULL                    0
## 19                 0   No Deposit  NULL     110                    0
## 20                 0   No Deposit   250    NULL                    0
## 21                 0   No Deposit   241    NULL                    0
## 22                 1   No Deposit   250    NULL                    0
## 23                 1   No Deposit   250    NULL                    0
## 24                 1   No Deposit   250    NULL                    0
## 25                 0   No Deposit   115    NULL                    0
## 26                 0   No Deposit     5    NULL                    0
## 27                 0   No Deposit     8    NULL                    0
## 28                 0   No Deposit   240    NULL                    0
## 29                 0   No Deposit   240    NULL                    0
## 30                 0   No Deposit   240    NULL                    0
## 31                 2   No Deposit  NULL    NULL                    0
## 32                 0   No Deposit   241    NULL                    0
## 33                 0   No Deposit  NULL    NULL                    0
## 34                 0   No Deposit   175    NULL                    0
## 35                 0   No Deposit   241    NULL                    0
## 36                 0   No Deposit   241    NULL                    0
```

```
## 37            0  No Deposit  240   NULL                  0
## 38            0  No Deposit  241   NULL                  0
## 39            0  No Deposit  241   NULL                  0
## 40            0  No Deposit  250   NULL                  0
## 41            0  No Deposit  241   NULL                  0
## 42            0  No Deposit    8   NULL                  0
## 43            0  No Deposit  NULL  NULL                  0
## 44            0  No Deposit  250   NULL                  0
## 45            0  No Deposit  240   NULL                  0
## 46            0  No Deposit  240   NULL                  0
## 47            0  No Deposit  134   NULL                  0
## 48            0  No Deposit  156   NULL                  0
## 49            1  No Deposit  243   NULL                  0
## 50            1  No Deposit  241   NULL                  0
## 51            0  No Deposit  156   NULL                  0
## 52            0  No Deposit  156   NULL                  0
## 53            0  No Deposit  243   NULL                  0
## 54            0  No Deposit  240   NULL                  0
## 55            0  No Deposit  240   NULL                  0
## 56            0  No Deposit  NULL  NULL                  0
## 57            0  No Deposit  NULL  NULL                  0
## 58            0  No Deposit  240   NULL                  0
## 59            0  No Deposit  NULL  NULL                  0
## 60            0  No Deposit  242   NULL                  0
## 61            0  No Deposit  241   NULL                  0
## 62            0  No Deposit  240   NULL                  0
## 63            0  No Deposit  250   NULL                  0
## 64            0  No Deposit  115   NULL                  0
## 65            0  No Deposit  240   NULL                  0
## 66            0  No Deposit  240   NULL                  0
## 67            0  No Deposit  240   NULL                  0
## 68            0  No Deposit  242   NULL                  0
## 69            0  No Deposit  242   NULL                  0
## 70            0  No Deposit  240   NULL                  0
## 71            0  No Deposit  240   NULL                  0
## 72            0  No Deposit  240   NULL                  0
## 73            0  No Deposit    3   NULL                  0
## 74            0  No Deposit  240   NULL                  0
## 75            0  No Deposit  242   NULL                  0
## 76            0  No Deposit  240   NULL                  0
## 77            0  No Deposit  240   NULL                  0
## 78            0  No Deposit  240   NULL                  0
## 79            0  No Deposit  105   NULL                  0
## 80            0  No Deposit    5   NULL                  0
## 81            0  No Deposit   40   NULL                  0
## 82            0  No Deposit   40   NULL                  0
## 83            0  No Deposit   40   NULL                  0
## 84            2  No Deposit  250   NULL                  0
## 85            0  No Deposit  115   NULL                  0
## 86            0  No Deposit   40   NULL                  0
## 87            1  No Deposit  241   NULL                  0
## 88            0  No Deposit  242   NULL                  0
## 89            0  No Deposit  240   NULL                  0
## 90            0  No Deposit  240   NULL                  0
```

```
## 91             0   No Deposit   240   NULL                        0
## 92             0   No Deposit   240   NULL                        0
## 93             0   No Deposit   241   NULL                        0
## 94             0   No Deposit   240   NULL                        0
## 95             0   No Deposit   240   NULL                        0
## 96             0   No Deposit   240   NULL                        0
## 97             0   No Deposit   242   NULL                        0
## 98             0   No Deposit   105   NULL                        0
## 99             0   No Deposit   240   NULL                        0
## 100            0   No Deposit   250   NULL                        0
## 101            0   No Deposit   250   NULL                        0
## 102            0   No Deposit     8   NULL                        0
## 103            0   No Deposit   241   NULL                        0
## 104            0   No Deposit   240   NULL                        0
## 105            0   No Deposit   240   NULL                        0
## 106            0   No Deposit   240   NULL                        0
## 107            0   No Deposit   250   NULL                        0
## 108            0   No Deposit   240   NULL                        0
## 109            0   No Deposit   134   NULL                        0
## 110            0   No Deposit   240   NULL                        0
## 111            0   No Deposit   240   NULL                        0
## 112            0   No Deposit   240   NULL                        0
## 113            0   No Deposit   147   NULL                        0
## 114            0   No Deposit   241   NULL                        0
## 115            0   No Deposit   240   NULL                        0
## 116            0   No Deposit   240   NULL                        0
## 117            0   No Deposit    40   NULL                        0
## 118            0   No Deposit    40   NULL                        0
## 119            1   No Deposit   250   NULL                        0
## 120            1   No Deposit   240   NULL                        0
## 121            0   No Deposit     8   NULL                        0
## 122            0   No Deposit   240   NULL                        0
## 123            1   No Deposit   250   NULL                        0
## 124            0   No Deposit   240   NULL                        0
## 125            0   No Deposit   240   NULL                        0
## 126            2   No Deposit  NULL   NULL                        0
## 127            0   No Deposit   240   NULL                        0
## 128            0   No Deposit   240   NULL                        0
## 129            0   No Deposit   240   NULL                        0
## 130            0   No Deposit   240   NULL                        0
## 131            0   No Deposit   240   NULL                        0
## 132            0   No Deposit   240   NULL                        0
## 133            0   No Deposit   240   NULL                        0
## 134            1   No Deposit   306   NULL                        0
## 135            0   No Deposit   184   NULL                        0
## 136            0   No Deposit   240   NULL                        0
## 137            0   No Deposit   240   NULL                        0
## 138            0   No Deposit   184   NULL                        0
## 139            0   No Deposit   240   NULL                        0
## 140            0   No Deposit  NULL   NULL                        0
## 141            3   No Deposit   240   NULL                        0
## 142            0   No Deposit   240   NULL                        0
## 143            0   No Deposit   240   NULL                        0
## 144            0   No Deposit   241   NULL                        0
```

```
## 145            0  No Deposit  240   NULL                0
## 146            0  No Deposit  240   NULL                0
## 147            0  No Deposit  240   NULL                0
## 148            0  No Deposit  240   NULL                0
## 149            0  No Deposit  240   NULL                0
## 150            0  No Deposit   15   NULL                0
## 151            1  No Deposit  250   NULL                0
## 152            0  No Deposit  241   NULL                0
## 153            0  No Deposit  240   NULL                0
## 154            0  No Deposit  175   NULL                0
## 155            1  No Deposit  240   NULL                0
## 156            0  No Deposit    5   NULL                0
## 157            3  No Deposit NULL   NULL                0
## 158            0  No Deposit   40   NULL                0
## 159            0  No Deposit   40   NULL                0
## 160            0  No Deposit  243   NULL                0
## 161            1  No Deposit  240   NULL                0
## 162            0  No Deposit  240   NULL                0
## 163            0  No Deposit  241   NULL                0
## 164            0  No Deposit   96   NULL                0
## 165            0  No Deposit  250   NULL                0
## 166            1  No Deposit  240   NULL                0
## 167            0  No Deposit  241   NULL                0
## 168            0  No Deposit  240   NULL                0
## 169            0  No Deposit  250   NULL                0
## 170            0  No Deposit NULL   NULL                0
## 171            0  No Deposit  240   NULL                0
## 172            0  No Deposit  240   NULL                0
## 173            0  No Deposit  240   NULL                0
## 174            0  No Deposit  240   NULL                0
## 175            0  No Deposit  175   NULL                0
## 176            1  No Deposit  240   NULL                0
## 177            0  No Deposit  240   NULL                0
## 178            0  No Deposit  250   NULL                0
## 179            0  No Deposit  240   NULL                0
## 180            1  No Deposit  240   NULL                0
## 181            0  No Deposit  240   NULL                0
## 182            0  No Deposit  175   NULL                0
## 183            0  No Deposit    2   NULL                0
## 184            0  No Deposit  240   NULL                0
## 185            0  No Deposit  240   NULL                0
## 186            0  No Deposit  242   NULL                0
## 187            1  No Deposit  241   NULL                0
## 188            5  No Deposit  250   NULL                0
## 189            0  No Deposit  156   NULL                0
## 190            1  No Deposit NULL   NULL                0
## 191            0  No Deposit    8   NULL                0
## 192            0  No Deposit   40   NULL                0
## 193            0  No Deposit  127   NULL                0
## 194            0  No Deposit  240   NULL                0
## 195            0  No Deposit  240   NULL                0
## 196            0  No Deposit  250   NULL                0
## 197            0  No Deposit NULL   NULL                0
## 198            0  No Deposit  240   NULL                0
```

```
## 199               0  No Deposit    240    NULL                  0
## 200               0  No Deposit   NULL    NULL                  0
## 201               0  No Deposit    240    NULL                  0
## 202               2  No Deposit    240    NULL                  0
## 203               0  No Deposit    240    NULL                  0
## 204               0  No Deposit     95    NULL                  0
## 205               2  No Deposit   NULL    NULL                  0
## 206               0  No Deposit    134    NULL                  0
## 207               0  No Deposit    240    NULL                  0
## 208               0  No Deposit      8    NULL                  0
## 209               0  No Deposit      2    NULL                  0
## 210               0  No Deposit    156    NULL                  0
## 211               0  No Deposit    240    NULL                  0
## 212               0  No Deposit    240    NULL                  0
## 213               0  No Deposit    240    NULL                  0
## 214               0  No Deposit    240    NULL                  0
## 215               0  No Deposit    240    NULL                  0
## 216               0  No Deposit    105    NULL                  0
## 217               0  No Deposit    240    NULL                  0
## 218               0  No Deposit    146    NULL                  0
## 219               0  No Deposit   NULL     110                  0
## 220               0  No Deposit   NULL     110                  0
## 221               0  No Deposit   NULL     110                  0
## 222               0  No Deposit      9    NULL                  0
## 223               1  No Deposit    250    NULL                  0
## 224               0  No Deposit     40    NULL                  0
## 225               0  No Deposit    240    NULL                  0
## 226               0  No Deposit     40    NULL                  0
## 227               0  No Deposit    240    NULL                  0
## 228               0  No Deposit    250    NULL                  0
## 229               1  No Deposit    240    NULL                  0
## 230               0  No Deposit    240    NULL                  0
## 231               0  No Deposit    242    NULL                  0
## 232               0  No Deposit    250    NULL                  0
## 233               2  No Deposit   NULL    NULL                  0
## 234               0  No Deposit    250    NULL                  0
## 235               0  No Deposit    242    NULL                  0
## 236               0  No Deposit    240    NULL                  0
## 237               0  No Deposit    240    NULL                  0
## 238               0  No Deposit    240    NULL                  0
## 239               0  No Deposit    240    NULL                  0
## 240               0  No Deposit    250    NULL                  0
## 241               0  No Deposit    241    NULL                  0
## 242               0  No Deposit    177    NULL                  0
## 243               0  No Deposit      6    NULL                  0
## 244               0  No Deposit     40    NULL                  0
## 245               0  No Deposit    143    NULL                  0
## 246               0  No Deposit     40    NULL                  0
## 247               0  No Deposit    240    NULL                  0
## 248               0  No Deposit    240    NULL                  0
## 249               0  No Deposit    250    NULL                  0
## 250               0  No Deposit    240    NULL                  0
## 251               0  No Deposit    240    NULL                  0
## 252               0  No Deposit    240    NULL                  0
```

```
## 253                0  No Deposit   240   NULL                    0
## 254                0  No Deposit   240   NULL                    0
## 255                2  No Deposit   240   NULL                    0
## 256                1  No Deposit   240   NULL                    0
## 257                0  No Deposit   240   NULL                    0
## 258                0  No Deposit   105   NULL                    0
## 259                0  No Deposit   250   NULL                    0
## 260                0  No Deposit   240   NULL                    0
## 261                0  No Deposit  NULL   NULL                    0
## 262                0  No Deposit  NULL   NULL                    0
## 263                0  No Deposit   240   NULL                    0
## 264                0  No Deposit   240   NULL                    0
## 265                1  No Deposit   250   NULL                    0
## 266                0  No Deposit   240   NULL                    0
## 267                1  No Deposit   240   NULL                    0
## 268                1  No Deposit   250   NULL                    0
## 269                1  No Deposit   240   NULL                    0
## 270                1  No Deposit   240   NULL                    0
## 271                2  No Deposit   244   NULL                    0
## 272                0  No Deposit   241   NULL                    0
## 273                0  No Deposit     5   NULL                    0
## 274                0  No Deposit   250   NULL                    0
## 275                0  No Deposit   240   NULL                    0
## 276                0  No Deposit   240   NULL                    0
## 277                0  No Deposit   241   NULL                    0
## 278                0  No Deposit   241   NULL                    0
## 279                0  No Deposit   241   NULL                    0
## 280                0  No Deposit   241   NULL                    0
## 281                0  No Deposit   149   NULL                    0
## 282                0  No Deposit   240   NULL                    0
## 283                1  No Deposit   240   NULL                    0
## 284                0  No Deposit   240   NULL                    0
## 285                0  No Deposit    15   NULL                    0
## 286                0  No Deposit   240   NULL                    0
## 287                0  No Deposit   250   NULL                    0
## 288                0  No Deposit   240   NULL                    0
## 289                0  No Deposit   241   NULL                    0
## 290                0  No Deposit   240   NULL                    0
## 291                1  No Deposit   240   NULL                    0
## 292                0  No Deposit  NULL   NULL                    0
## 293                1  No Deposit   240   NULL                    0
## 294                0  No Deposit  NULL   NULL                    0
## 295                0  No Deposit   240   NULL                    0
## 296                0  No Deposit  NULL    113                    0
## 297                0  No Deposit   175   NULL                    0
## 298                0  No Deposit   242   NULL                    0
## 299                0  No Deposit   240   NULL                    0
##      customer_type   adr required_car_parking_spaces
## 1        Transient  0.00                           0
## 2        Transient  0.00                           0
## 3        Transient 75.00                           0
## 4        Transient 75.00                           0
## 5        Transient 98.00                           0
## 6        Transient 98.00                           0
```

```
## 7          Transient 107.00                    0
## 8          Transient 103.00                    0
## 9          Transient  82.00                    0
## 10         Transient 105.50                    0
## 11         Transient 123.00                    0
## 12         Transient 145.00                    0
## 13         Transient  97.00                    0
## 14         Transient 154.77                    0
## 15         Transient  94.71                    0
## 16         Transient  97.00                    0
## 17          Contract  97.50                    0
## 18         Transient  88.20                    0
## 19         Transient 107.42                    0
## 20         Transient 153.00                    0
## 21         Transient  97.29                    0
## 22         Transient  84.67                    0
## 23         Transient  84.67                    0
## 24         Transient  99.67                    0
## 25          Contract  94.95                    0
## 26         Transient  63.60                    1
## 27          Contract  79.50                    0
## 28         Transient 107.00                    0
## 29         Transient  94.00                    0
## 30         Transient  87.30                    1
## 31         Transient  62.00                    0
## 32         Transient  63.86                    0
## 33         Transient 108.30                    0
## 34         Transient  65.50                    0
## 35         Transient 108.80                    0
## 36         Transient 108.80                    0
## 37         Transient  98.00                    0
## 38         Transient 108.80                    0
## 39         Transient 108.80                    0
## 40         Transient 137.00                    0
## 41         Transient 117.81                    0
## 42          Contract  79.50                    0
## 43         Transient 123.00                    0
## 44         Transient 137.00                    0
## 45         Transient 110.70                    0
## 46         Transient 153.00                    0
## 47         Transient  58.95                    0
## 48   Transient-Party  82.88                    0
## 49          Contract  82.35                    0
## 50         Transient 119.35                    0
## 51   Transient-Party  67.58                    0
## 52          Contract  56.01                    0
## 53          Contract 110.70                    0
## 54         Transient  88.20                    1
## 55         Transient 147.00                    1
## 56         Transient 107.00                    1
## 57         Transient 147.00                    0
## 58         Transient 117.90                    0
## 59         Transient 123.00                    0
## 60         Transient  98.00                    0
```

```
## 61         Transient 117.81                              0
## 62         Transient 135.00                              1
## 63         Transient 133.00                              0
## 64          Contract  58.95                              0
## 65         Transient 136.33                              0
## 66         Transient 153.00                              1
## 67         Transient 110.50                              0
## 68         Transient  97.00                              0
## 69         Transient 110.30                              0
## 70         Transient  82.00                              0
## 71         Transient  97.00                              0
## 72         Transient  73.80                              0
## 73         Transient  91.50                              0
## 74         Transient 114.50                              0
## 75         Transient 110.30                              0
## 76         Transient  90.90                              1
## 77         Transient 123.00                              0
## 78         Transient 122.00                              0
## 79         Transient 110.70                              1
## 80         Transient  85.86                              0
## 81          Contract  58.95                              0
## 82          Contract  55.68                              0
## 83          Contract  55.68                              0
## 84         Transient 124.00                              0
## 85          Contract 111.15                              0
## 86          Contract 134.73                              0
## 87         Transient  92.45                              0
## 88         Transient 108.73                              0
## 89         Transient  73.80                              0
## 90         Transient  98.00                              1
## 91         Transient 131.00                              0
## 92         Transient 123.00                              0
## 93         Transient  94.71                              0
## 94         Transient 123.00                              0
## 95         Transient 123.00                              0
## 96         Transient  73.80                              0
## 97         Transient 117.00                              0
## 98         Transient 196.54                              0
## 99         Transient  99.30                              1
## 100        Transient  90.95                              0
## 101        Transient  92.67                              0
## 102        Transient  71.55                              1
## 103        Transient  96.49                              0
## 104        Transient  85.80                              1
## 105        Transient  96.30                              0
## 106        Transient 163.00                              0
## 107        Transient 172.00                              0
## 108        Transient 110.70                              0
## 109        Transient  58.95                              0
## 110        Transient  73.80                              0
## 111        Transient  97.00                              0
## 112        Transient 139.00                              0
## 113        Transient  67.24                              0
## 114        Transient 116.50                              0
```

```
## 115           Transient  96.30                    0
## 116           Transient 123.00                    0
## 117            Contract  71.55                    0
## 118            Contract  71.55                    0
## 119           Transient 149.00                    0
## 120           Transient 163.00                    1
## 121            Contract  79.50                    0
## 122           Transient 105.00                    0
## 123           Transient 123.00                    0
## 124           Transient  73.80                    0
## 125           Transient 113.00                    0
## 126           Transient   0.00                    0
## 127           Transient 123.00                    0
## 128 Transient-Party  73.80                    1
## 129           Transient 114.50                    0
## 130 Transient-Party  73.80                    0
## 131 Transient-Party  73.80                    0
## 132           Transient  88.20                    0
## 133           Transient  97.00                    0
## 134           Transient  85.10                    0
## 135           Transient  89.00                    0
## 136           Transient  80.10                    0
## 137           Transient  98.00                    0
## 138           Transient 101.00                    1
## 139           Transient  97.00                    0
## 140           Transient 167.00                    0
## 141           Transient 225.00                    2
## 142           Transient  97.00                    1
## 143           Transient  87.30                    0
## 144           Transient  85.59                    1
## 145           Transient 123.00                    0
## 146           Transient 107.00                    0
## 147           Transient 163.00                    0
## 148           Transient  82.00                    0
## 149           Transient 163.00                    0
## 150           Transient 105.50                    0
## 151           Transient 164.20                    1
## 152           Transient  97.29                    0
## 153           Transient 114.00                    0
## 154           Transient  98.40                    0
## 155           Transient 175.00                    1
## 156           Transient  63.60                    1
## 157           Transient 124.45                    1
## 158            Contract 110.70                    0
## 159            Contract  74.07                    0
## 160            Contract 134.10                    0
## 161           Transient 167.00                    0
## 162           Transient 123.00                    0
## 163           Transient 117.81                    1
## 164           Transient 171.32                    0
## 165           Transient 210.00                    1
## 166           Transient  97.00                    0
## 167           Transient 117.81                    0
## 168           Transient   0.00                    0
```

```
## 169     Transient   0.00                    0
## 170     Transient 131.00                    0
## 171     Transient  98.00                    0
## 172     Transient  87.30                    1
## 173     Transient  97.00                    0
## 174     Transient 167.00                    0
## 175     Transient  91.50                    0
## 176     Transient  73.80                    0
## 177     Transient 123.00                    0
## 178     Transient 175.00                    1
## 179     Transient 117.80                    1
## 180     Transient 117.63                    0
## 181     Transient 185.00                    0
## 182     Transient  71.00                    0
## 183      Contract  47.25                    0
## 184     Transient 151.00                    0
## 185     Transient  87.30                    0
## 186     Transient 120.60                    0
## 187     Transient  63.86                    0
## 188     Transient 157.10                    0
## 189      Contract  91.37                    0
## 190     Transient  73.00                    0
## 191      Contract 110.70                    0
## 192      Contract  93.60                    0
## 193     Transient  83.50                    0
## 194     Transient  73.80                    0
## 195     Transient  82.00                    1
## 196     Transient 185.50                    0
## 197     Transient   0.00                    0
## 198     Transient   0.00                    0
## 199     Transient 109.80                    0
## 200     Transient 195.00                    1
## 201     Transient 109.80                    0
## 202     Transient 193.00                    0
## 203     Transient  97.00                    0
## 204     Transient 150.00                    0
## 205     Transient  98.00                    0
## 206     Transient  91.50                    0
## 207     Transient 139.00                    0
## 208     Transient  79.50                    0
## 209      Contract  47.25                    0
## 210      Contract 126.65                    0
## 211     Transient 107.00                    0
## 212     Transient 131.00                    1
## 213     Transient 131.00                    1
## 214     Transient 123.00                    0
## 215     Transient 146.00                    0
## 216     Transient 110.70                    0
## 217     Transient  73.80                    0
## 218     Transient  61.00                    0
## 219     Transient 104.72                    0
## 220     Transient 104.72                    0
## 221     Transient 104.72                    1
## 222     Transient  66.42                    0
```

```
## 223         Transient  77.96                        1
## 224          Contract 112.00                        0
## 225         Transient 107.00                        0
## 226          Contract  89.68                        0
## 227         Transient 155.00                        0
## 228         Transient 112.00                        0
## 229 Transient-Party 130.10                          0
## 230 Transient-Party 100.10                          0
## 231         Transient 123.00                        0
## 232         Transient 124.00                        1
## 233         Transient 146.00                        1
## 234         Transient  97.00                        0
## 235         Transient 123.00                        0
## 236         Transient 153.00                        0
## 237         Transient  82.00                        0
## 238         Transient 105.08                        0
## 239         Transient  65.42                        0
## 240         Transient  98.00                        0
## 241         Transient  75.46                        1
## 242         Transient  65.50                        0
## 243         Transient  90.95                        0
## 244          Contract  93.60                        0
## 245          Contract 119.25                        0
## 246          Contract 134.73                        0
## 247         Transient 112.00                        0
## 248         Transient 118.13                        0
## 249         Transient 131.00                        0
## 250         Transient  88.20                        0
## 251         Transient  73.80                        0
## 252         Transient  98.00                        0
## 253         Transient 110.50                        0
## 254         Transient 131.00                        0
## 255         Transient 185.00                        1
## 256         Transient  87.30                        0
## 257         Transient  73.80                        0
## 258         Transient 120.00                        0
## 259         Transient  98.00                        0
## 260         Transient  96.30                        0
## 261 Transient-Party 197.00                          0
## 262 Transient-Party 197.00                          0
## 263         Transient 123.00                        0
## 264         Transient  82.00                        0
## 265         Transient 165.00                        1
## 266         Transient 149.40                        0
## 267         Transient 106.84                        1
## 268         Transient 161.00                        1
## 269         Transient 134.43                        0
## 270         Transient 144.43                        1
## 271         Transient 152.00                        0
## 272         Transient 125.54                        0
## 273         Transient 133.83                        0
## 274         Transient 159.75                        1
## 275         Transient 120.60                        0
## 276         Transient 112.20                        0
```

```
## 277        Transient 110.60                             0
## 278        Transient 105.90                             0
## 279        Transient  95.27                             0
## 280        Transient 108.83                             0
## 281        Transient 153.96                             0
## 282        Transient 120.60                             0
## 283        Transient  90.67                             0
## 284        Transient 126.67                             0
## 285        Transient 144.40                             0
## 286        Transient  99.50                             1
## 287        Transient 139.40                             0
## 288        Transient  73.80                             0
## 289        Transient  89.97                             0
## 290        Transient 123.00                             0
## 291        Transient 123.00                             0
## 292        Transient 123.00                             0
## 293        Transient 144.90                             0
## 294        Transient 153.00                             0
## 295        Transient 131.00                             0
## 296        Transient 100.00                             1
## 297        Transient  65.50                             0
## 298        Transient 123.00                             0
## 299        Transient 123.00                             0
##     total_of_special_requests reservation_status reservation_status_date
## 1                           0          Check-Out              01-07-2015
## 2                           0          Check-Out              01-07-2015
## 3                           0          Check-Out              02-07-2015
## 4                           0          Check-Out              02-07-2015
## 5                           1          Check-Out              03-07-2015
## 6                           1          Check-Out              03-07-2015
## 7                           0          Check-Out              03-07-2015
## 8                           1          Check-Out              03-07-2015
## 9                           1           Canceled              06-05-2015
## 10                          0           Canceled              22-04-2015
## 11                          0           Canceled              23-06-2015
## 12                          0          Check-Out              05-07-2015
## 13                          3          Check-Out              05-07-2015
## 14                          1          Check-Out              05-07-2015
## 15                          0          Check-Out              05-07-2015
## 16                          3          Check-Out              05-07-2015
## 17                          0          Check-Out              05-07-2015
## 18                          0          Check-Out              02-07-2015
## 19                          0          Check-Out              02-07-2015
## 20                          1          Check-Out              05-07-2015
## 21                          1          Check-Out              06-07-2015
## 22                          1          Check-Out              07-07-2015
## 23                          1          Check-Out              07-07-2015
## 24                          1          Check-Out              07-07-2015
## 25                          1          Check-Out              01-07-2015
## 26                          0          Check-Out              08-07-2015
## 27                          0          Check-Out              08-07-2015
## 28                          2           Canceled              11-05-2015
## 29                          0          Check-Out              08-07-2015
## 30                          1          Check-Out              08-07-2015
```

```
## 31                      2          Check-Out          15-07-2015
## 32                      0          Check-Out          16-07-2015
## 33                      2           Canceled          29-05-2015
## 34                      0          Check-Out          08-07-2015
## 35                      1           Canceled          19-05-2015
## 36                      1           Canceled          19-06-2015
## 37                      0          Check-Out          06-07-2015
## 38                      1          Check-Out          06-07-2015
## 39                      0           Canceled          23-05-2015
## 40                      1          Check-Out          07-07-2015
## 41                      0           Canceled          18-05-2015
## 42                      0          Check-Out          07-07-2015
## 43                      0          Check-Out          07-07-2015
## 44                      1          Check-Out          07-07-2015
## 45                      2          Check-Out          09-07-2015
## 46                      0           Canceled          02-06-2015
## 47                      1          Check-Out          09-07-2015
## 48                      2          Check-Out          09-07-2015
## 49                      0          Check-Out          09-07-2015
## 50                      1          Check-Out          09-07-2015
## 51                      2          Check-Out          09-07-2015
## 52                      0          Check-Out          13-07-2015
## 53                      0          Check-Out          16-07-2015
## 54                      0          Check-Out          03-07-2015
## 55                      0          Check-Out          03-07-2015
## 56                      2          Check-Out          03-07-2015
## 57                      0          Check-Out          03-07-2015
## 58                      2          Check-Out          03-07-2015
## 59                      0          Check-Out          03-07-2015
## 60                      1          Check-Out          04-07-2015
## 61                      0          Check-Out          04-07-2015
## 62                      2          Check-Out          04-07-2015
## 63                      1          Check-Out          05-07-2015
## 64                      0          Check-Out          05-07-2015
## 65                      2           Canceled          29-06-2015
## 66                      0          Check-Out          05-07-2015
## 67                      0          Check-Out          05-07-2015
## 68                      0          Check-Out          05-07-2015
## 69                      2           Canceled          16-06-2015
## 70                      2           Canceled          18-06-2015
## 71                      1           Canceled          03-07-2015
## 72                      1           Canceled          12-06-2015
## 73                      0          Check-Out          05-07-2015
## 74                      0          Check-Out          05-07-2015
## 75                      0           Canceled          09-06-2015
## 76                      0          Check-Out          06-07-2015
## 77                      0           Canceled          26-05-2015
## 78                      0          Check-Out          07-07-2015
## 79                      0          Check-Out          07-07-2015
## 80                      0          Check-Out          11-07-2015
## 81                      0          Check-Out          12-07-2015
## 82                      0           Canceled          19-05-2015
## 83                      0          Check-Out          13-07-2015
## 84                      1           Canceled          09-06-2015
```

```
## 85                          0          Check-Out          13-07-2015
## 86                          0          Check-Out          17-07-2015
## 87                          1          Check-Out          17-07-2015
## 88                          2           Canceled          15-04-2015
## 89                          0          Check-Out          04-07-2015
## 90                          2          Check-Out          04-07-2015
## 91                          1          Check-Out          04-07-2015
## 92                          0          Check-Out          04-07-2015
## 93                          0          Check-Out          04-07-2015
## 94                          2          Check-Out          04-07-2015
## 95                          1           Canceled          26-05-2015
## 96                          1           Canceled          29-06-2015
## 97                          1           Canceled          13-05-2015
## 98                          1          Check-Out          10-07-2015
## 99                          2          Check-Out          10-07-2015
## 100                         0          Check-Out          10-07-2015
## 101                         1          Check-Out          07-07-2015
## 102                         0          Check-Out          07-07-2015
## 103                         2          Check-Out          10-07-2015
## 104                         2          Check-Out          10-07-2015
## 105                         1          Check-Out          11-07-2015
## 106                         0           Canceled          09-06-2015
## 107                         1           Canceled          20-05-2015
## 108                         1           Canceled          22-04-2015
## 109                         1          Check-Out          11-07-2015
## 110                         2          Check-Out          11-07-2015
## 111                         2          Check-Out          11-07-2015
## 112                         2          Check-Out          11-07-2015
## 113                         0          Check-Out          11-07-2015
## 114                         1          Check-Out          12-07-2015
## 115                         1           Canceled          12-05-2015
## 116                         1          Check-Out          12-07-2015
## 117                         1          Check-Out          14-07-2015
## 118                         1          Check-Out          14-07-2015
## 119                         1          Check-Out          14-07-2015
## 120                         0          Check-Out          05-07-2015
## 121                         0          Check-Out          05-07-2015
## 122                         0           Canceled          29-05-2015
## 123                         0           No-Show           04-07-2015
## 124                         2           Canceled          13-05-2015
## 125                         0           Canceled          16-06-2015
## 126                         1          Check-Out          05-07-2015
## 127                         0          Check-Out          05-07-2015
## 128                         1          Check-Out          06-07-2015
## 129                         0          Check-Out          06-07-2015
## 130                         2          Check-Out          06-07-2015
## 131                         1          Check-Out          06-07-2015
## 132                         1          Check-Out          06-07-2015
## 133                         0           Canceled          01-07-2015
## 134                         0          Check-Out          06-07-2015
## 135                         0          Check-Out          06-07-2015
## 136                         0          Check-Out          06-07-2015
## 137                         0          Check-Out          06-07-2015
## 138                         0          Check-Out          06-07-2015
```

```
## 139                         0         Canceled      01-07-2015
## 140                         1        Check-Out      06-07-2015
## 141                         0        Check-Out      07-07-2015
## 142                         0        Check-Out      07-07-2015
## 143                         2        Check-Out      09-07-2015
## 144                         2        Check-Out      10-07-2015
## 145                         0        Check-Out      10-07-2015
## 146                         0        Check-Out      10-07-2015
## 147                         0        Check-Out      11-07-2015
## 148                         0        Check-Out      11-07-2015
## 149                         0         Canceled      17-06-2015
## 150                         0         Canceled      01-05-2015
## 151                         1        Check-Out      12-07-2015
## 152                         1        Check-Out      12-07-2015
## 153                         1         Canceled      30-03-2015
## 154                         0        Check-Out      12-07-2015
## 155                         1        Check-Out      14-07-2015
## 156                         2        Check-Out      15-07-2015
## 157                         1        Check-Out      15-07-2015
## 158                         0        Check-Out      16-07-2015
## 159                         0        Check-Out      19-07-2015
## 160                         0        Check-Out      19-07-2015
## 161                         0        Check-Out      11-07-2015
## 162                         2        Check-Out      10-07-2015
## 163                         2        Check-Out      10-07-2015
## 164                         1        Check-Out      10-07-2015
## 165                         0        Check-Out      10-07-2015
## 166                         2        Check-Out      10-07-2015
## 167                         2        Check-Out      10-07-2015
## 168                         2        Check-Out      06-07-2015
## 169                         0        Check-Out      06-07-2015
## 170                         0        Check-Out      07-07-2015
## 171                         2        Check-Out      08-07-2015
## 172                         1        Check-Out      08-07-2015
## 173                         1        Check-Out      09-07-2015
## 174                         0         Canceled      03-06-2015
## 175                         0        Check-Out      10-07-2015
## 176                         1        Check-Out      10-07-2015
## 177                         0        Check-Out      11-07-2015
## 178                         0        Check-Out      11-07-2015
## 179                         1        Check-Out      12-07-2015
## 180                         0        Check-Out      12-07-2015
## 181                         0        Check-Out      13-07-2015
## 182                         1         Canceled      26-06-2015
## 183                         0        Check-Out      13-07-2015
## 184                         1        Check-Out      14-07-2015
## 185                         0         Canceled      14-05-2015
## 186                         1        Check-Out      16-07-2015
## 187                         1        Check-Out      16-07-2015
## 188                         1        Check-Out      16-07-2015
## 189                         2        Check-Out      16-07-2015
## 190                         0        Check-Out      17-07-2015
## 191                         0        Check-Out      20-07-2015
## 192                         0        Check-Out      20-07-2015
```

```
## 193                         0        Check-Out      13-07-2015
## 194                         1         Canceled      07-05-2015
## 195                         2        Check-Out      10-07-2015
## 196                         1        Check-Out      10-07-2015
## 197                         1        Check-Out      07-07-2015
## 198                         1        Check-Out      07-07-2015
## 199                         3        Check-Out      08-07-2015
## 200                         0        Check-Out      08-07-2015
## 201                         3        Check-Out      08-07-2015
## 202                         1        Check-Out      11-07-2015
## 203                         2        Check-Out      11-07-2015
## 204                         1        Check-Out      11-07-2015
## 205                         0        Check-Out      11-07-2015
## 206                         0         Canceled      28-05-2015
## 207                         2         Canceled      13-04-2015
## 208                         0        Check-Out      14-07-2015
## 209                         0         Canceled      25-03-2015
## 210                         1        Check-Out      21-07-2015
## 211                         1        Check-Out      11-07-2015
## 212                         2        Check-Out      12-07-2015
## 213                         1        Check-Out      12-07-2015
## 214                         1         Canceled      28-05-2015
## 215                         1        Check-Out      12-07-2015
## 216                         1        Check-Out      12-07-2015
## 217                         1         Canceled      29-06-2015
## 218                         0        Check-Out      09-07-2015
## 219                         1         Canceled      08-07-2015
## 220                         1         Canceled      08-07-2015
## 221                         1        Check-Out      10-07-2015
## 222                         1         Canceled      28-05-2015
## 223                         1        Check-Out      14-07-2015
## 224                         1         Canceled      15-04-2015
## 225                         1        Check-Out      15-07-2015
## 226                         0        Check-Out      15-07-2015
## 227                         0        Check-Out      15-07-2015
## 228                         1        Check-Out      16-07-2015
## 229                         3        Check-Out      17-07-2015
## 230                         2        Check-Out      17-07-2015
## 231                         3        Check-Out      10-07-2015
## 232                         1        Check-Out      11-07-2015
## 233                         0        Check-Out      11-07-2015
## 234                         0         Canceled      02-06-2015
## 235                         1         Canceled      16-06-2015
## 236                         0         Canceled      16-06-2015
## 237                         2        Check-Out      12-07-2015
## 238                         0         Canceled      23-06-2015
## 239                         0         Canceled      27-06-2015
## 240                         1        Check-Out      13-07-2015
## 241                         1        Check-Out      14-07-2015
## 242                         0        Check-Out      14-07-2015
## 243                         0        Check-Out      16-07-2015
## 244                         0        Check-Out      16-07-2015
## 245                         0        Check-Out      16-07-2015
## 246                         0        Check-Out      16-07-2015
```

```
## 247                         1          Check-Out        16-07-2015
## 248                         2           Canceled        13-05-2015
## 249                         0          Check-Out        11-07-2015
## 250                         0          Check-Out        12-07-2015
## 251                         1          Check-Out        12-07-2015
## 252                         0          Check-Out        12-07-2015
## 253                         1          Check-Out        12-07-2015
## 254                         1          Check-Out        12-07-2015
## 255                         1          Check-Out        12-07-2015
## 256                         2          Check-Out        12-07-2015
## 257                         1          Check-Out        12-07-2015
## 258                         1          Check-Out        13-07-2015
## 259                         1          Check-Out        13-07-2015
## 260                         2          Check-Out        13-07-2015
## 261                         1          Check-Out        14-07-2015
## 262                         1          Check-Out        14-07-2015
## 263                         0           Canceled        29-06-2015
## 264                         2          Check-Out        15-07-2015
## 265                         3          Check-Out        15-07-2015
## 266                         0          Check-Out        15-07-2015
## 267                         2          Check-Out        17-07-2015
## 268                         1          Check-Out        17-07-2015
## 269                         2          Check-Out        17-07-2015
## 270                         2          Check-Out        17-07-2015
## 271                         0          Check-Out        17-07-2015
## 272                         3          Check-Out        17-07-2015
## 273                         2          Check-Out        17-07-2015
## 274                         0          Check-Out        18-07-2015
## 275                         2          Check-Out        19-07-2015
## 276                         0          Check-Out        20-07-2015
## 277                         0          Check-Out        21-07-2015
## 278                         0          Check-Out        23-07-2015
## 279                         3          Check-Out        17-07-2015
## 280                         1          Check-Out        17-07-2015
## 281                         0           Canceled        29-05-2015
## 282                         0          Check-Out        16-07-2015
## 283                         1          Check-Out        17-07-2015
## 284                         0           Canceled        08-06-2015
## 285                         1          Check-Out        17-07-2015
## 286                         2          Check-Out        17-07-2015
## 287                         1          Check-Out        18-07-2015
## 288                         1           Canceled        22-04-2015
## 289                         1          Check-Out        15-07-2015
## 290                         0          Check-Out        15-07-2015
## 291                         0          Check-Out        15-07-2015
## 292                         0          Check-Out        12-07-2015
## 293                         1          Check-Out        12-07-2015
## 294                         0          Check-Out        12-07-2015
## 295                         1          Check-Out        12-07-2015
## 296                         0          Check-Out        13-07-2015
## 297                         0          Check-Out        13-07-2015
## 298                         1          Check-Out        13-07-2015
## 299                         0          Check-Out        14-07-2015
```

```
#shows the first 6 rows
head(mydata)
```

```
##           hotel is_canceled lead_time arrival_date_year arrival_date_month
## 1 Resort Hotel           0       342              2015               July
## 2 Resort Hotel           0       737              2015               July
## 3 Resort Hotel           0         7              2015               July
## 4 Resort Hotel           0        13              2015               July
## 5 Resort Hotel           0        14              2015               July
## 6 Resort Hotel           0        14              2015               July
##   arrival_date_week_number arrival_date_day_of_month stays_in_weekend_nights
## 1                       27                         1                       0
## 2                       27                         1                       0
## 3                       27                         1                       0
## 4                       27                         1                       0
## 5                       27                         1                       0
## 6                       27                         1                       0
##   stays_in_week_nights adults children babies meal country market_segment
## 1                    0      2        0      0   BB     PRT          Direct
## 2                    0      2        0      0   BB     PRT          Direct
## 3                    1      1        0      0   BB     GBR          Direct
## 4                    1      1        0      0   BB     GBR       Corporate
## 5                    2      2        0      0   BB     GBR       Online TA
## 6                    2      2        0      0   BB     GBR       Online TA
##   distribution_channel is_repeated_guest previous_cancellations
## 1               Direct                 0                       0
## 2               Direct                 0                       0
## 3               Direct                 0                       0
## 4            Corporate                 0                       0
## 5                TA/TO                 0                       0
## 6                TA/TO                 0                       0
##   previous_bookings_not_canceled reserved_room_type assigned_room_type
## 1                              0                  C                  C
## 2                              0                  C                  C
## 3                              0                  A                  C
## 4                              0                  A                  A
## 5                              0                  A                  A
## 6                              0                  A                  A
##   booking_changes deposit_type agent company days_in_waiting_list customer_type
## 1               3   No Deposit  NULL    NULL                    0    Transient
## 2               4   No Deposit  NULL    NULL                    0    Transient
## 3               0   No Deposit  NULL    NULL                    0    Transient
## 4               0   No Deposit   304    NULL                    0    Transient
## 5               0   No Deposit   240    NULL                    0    Transient
## 6               0   No Deposit   240    NULL                    0    Transient
##   adr required_car_parking_spaces total_of_special_requests reservation_status
## 1   0                           0                         0          Check-Out
## 2   0                           0                         0          Check-Out
## 3  75                           0                         0          Check-Out
## 4  75                           0                         0          Check-Out
## 5  98                           0                         1          Check-Out
## 6  98                           0                         1          Check-Out
##   reservation_status_date
```

```
## 1                  01-07-2015
## 2                  01-07-2015
## 3                  02-07-2015
## 4                  02-07-2015
## 5                  03-07-2015
## 6                  03-07-2015
```

```r
#shows the last 6 rows
tail(mydata)
```

```
##             hotel is_canceled lead_time arrival_date_year arrival_date_month
## 294 Resort Hotel           0         0              2015               July
## 295 Resort Hotel           0         0              2015               July
## 296 Resort Hotel           0        84              2015               July
## 297 Resort Hotel           0        71              2015               July
## 298 Resort Hotel           0        16              2015               July
## 299 Resort Hotel           0        54              2015               July
##     arrival_date_week_number arrival_date_day_of_month stays_in_weekend_nights
## 294                       28                        11                       0
## 295                       28                        11                       0
## 296                       28                        11                       1
## 297                       28                        11                       1
## 298                       28                        11                       1
## 299                       28                        11                       2
##     stays_in_week_nights adults children babies meal country market_segment
## 294                    1      2        0      0   BB     ESP         Direct
## 295                    1      2        0      0   BB     ESP      Online TA
## 296                    1      2        0      0   HB     PRT      Corporate
## 297                    1      2        0      0   BB     ESP  Offline TA/TO
## 298                    1      2        0      0   BB     ROU      Online TA
## 299                    1      2        0      0   BB     PRT      Online TA
##     distribution_channel is_repeated_guest previous_cancellations
## 294                Direct                 0                      0
## 295                 TA/TO                 0                      0
## 296             Corporate                 0                      0
## 297                 TA/TO                 0                      0
## 298                 TA/TO                 0                      0
## 299                 TA/TO                 0                      0
##     previous_bookings_not_canceled reserved_room_type assigned_room_type
## 294                              0                  G                  G
## 295                              0                  A                  A
## 296                              0                  A                  A
## 297                              0                  A                  A
## 298                              0                  C                  C
## 299                              0                  E                  F
##     booking_changes deposit_type agent company days_in_waiting_list
## 294               0   No Deposit  NULL    NULL                    0
## 295               0   No Deposit   240    NULL                    0
## 296               0   No Deposit  NULL     113                    0
## 297               0   No Deposit   175    NULL                    0
## 298               0   No Deposit   242    NULL                    0
## 299               0   No Deposit   240    NULL                    0
##     customer_type   adr required_car_parking_spaces total_of_special_requests
## 294     Transient 153.0                           0                          0
```

```
## 295      Transient 131.0                 0                   1
## 296      Transient 100.0                 1                   0
## 297      Transient  65.5                 0                   0
## 298      Transient 123.0                 0                   1
## 299      Transient 123.0                 0                   0
##      reservation_status reservation_status_date
## 294           Check-Out              12-07-2015
## 295           Check-Out              12-07-2015
## 296           Check-Out              13-07-2015
## 297           Check-Out              13-07-2015
## 298           Check-Out              13-07-2015
## 299           Check-Out              14-07-2015
```

```
#shows the variable names and types
str(mydata)
```

```
## 'data.frame':    299 obs. of  32 variables:
##  $ hotel                        : chr  "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  $ is_canceled                  : int  0 0 0 0 0 0 0 0 1 1 ...
##  $ lead_time                    : int  342 737 7 13 14 14 0 9 85 75 ...
##  $ arrival_date_year            : int  2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 ...
##  $ arrival_date_month           : chr  "July" "July" "July" "July" ...
##  $ arrival_date_week_number     : int  27 27 27 27 27 27 27 27 27 27 ...
##  $ arrival_date_day_of_month    : int  1 1 1 1 1 1 1 1 1 1 ...
##  $ stays_in_weekend_nights      : int  0 0 0 0 0 0 0 0 0 0 ...
##  $ stays_in_week_nights         : int  0 0 1 1 2 2 2 2 3 3 ...
##  $ adults                       : int  2 2 1 1 2 2 2 2 2 2 ...
##  $ children                     : int  0 0 0 0 0 0 0 0 0 0 ...
##  $ babies                       : int  0 0 0 0 0 0 0 0 0 0 ...
##  $ meal                         : chr  "BB" "BB" "BB" "BB" ...
##  $ country                      : chr  "PRT" "PRT" "GBR" "GBR" ...
##  $ market_segment               : chr  "Direct" "Direct" "Direct" "Corporate" ...
##  $ distribution_channel         : chr  "Direct" "Direct" "Direct" "Corporate" ...
##  $ is_repeated_guest            : int  0 0 0 0 0 0 0 0 0 0 ...
##  $ previous_cancellations       : int  0 0 0 0 0 0 0 0 0 0 ...
##  $ previous_bookings_not_canceled: int  0 0 0 0 0 0 0 0 0 0 ...
##  $ reserved_room_type           : chr  "C" "C" "A" "A" ...
##  $ assigned_room_type           : chr  "C" "C" "C" "A" ...
##  $ booking_changes              : int  3 4 0 0 0 0 0 0 0 0 ...
##  $ deposit_type                 : chr  "No Deposit" "No Deposit" "No Deposit" "No Deposit" ...
##  $ agent                        : chr  "NULL" "NULL" "NULL" "304" ...
##  $ company                      : chr  "NULL" "NULL" "NULL" "NULL" ...
##  $ days_in_waiting_list         : int  0 0 0 0 0 0 0 0 0 0 ...
##  $ customer_type                : chr  "Transient" "Transient" "Transient" "Transient" ...
##  $ adr                          : num  0 0 75 75 98 ...
##  $ required_car_parking_spaces  : int  0 0 0 0 0 0 0 0 0 0 ...
##  $ total_of_special_requests    : int  0 0 0 0 1 1 0 1 1 0 ...
##  $ reservation_status           : chr  "Check-Out" "Check-Out" "Check-Out" "Check-Out" ...
##  $ reservation_status_date      : chr  "01-07-2015" "01-07-2015" "02-07-2015" "02-07-2015" ...
```

```
#shows the variable names
names(mydata)
```

```
##  [1] "hotel"                      "is_canceled"
```

```
##  [3] "lead_time"                    "arrival_date_year"
##  [5] "arrival_date_month"           "arrival_date_week_number"
##  [7] "arrival_date_day_of_month"    "stays_in_weekend_nights"
##  [9] "stays_in_week_nights"         "adults"
## [11] "children"                     "babies"
## [13] "meal"                         "country"
## [15] "market_segment"               "distribution_channel"
## [17] "is_repeated_guest"            "previous_cancellations"
## [19] "previous_bookings_not_canceled" "reserved_room_type"
## [21] "assigned_room_type"           "booking_changes"
## [23] "deposit_type"                 "agent"
## [25] "company"                      "days_in_waiting_list"
## [27] "customer_type"                "adr"
## [29] "required_car_parking_spaces"  "total_of_special_requests"
## [31] "reservation_status"           "reservation_status_date"
```

```
 #shows a list of objects that are available
ls()
```

```
## [1] "mydata"
```

```
#attaches the dataframe to the R search path, which makes it easy to access variable names
View(mydata)
#Gives summary of dataset
summary(mydata)
```

```
##     hotel             is_canceled        lead_time      arrival_date_year
## Length:299        Min.   :0.0000    Min.   :  0.00    Min.   :2015
## Class :character  1st Qu.:0.0000    1st Qu.: 16.50    1st Qu.:2015
## Mode  :character  Median :0.0000    Median : 63.00    Median :2015
##                   Mean   :0.1973    Mean   : 66.78    Mean   :2015
##                   3rd Qu.:0.0000    3rd Qu.: 94.00    3rd Qu.:2015
##                   Max.   :1.0000    Max.   :737.00    Max.   :2015
## arrival_date_month arrival_date_week_number arrival_date_day_of_month
## Length:299        Min.   :27.00             Min.   : 1.000
## Class :character  1st Qu.:27.00             1st Qu.: 3.000
## Mode  :character  Median :28.00             Median : 5.000
##                   Mean   :27.56             Mean   : 5.482
##                   3rd Qu.:28.00             3rd Qu.: 8.000
##                   Max.   :28.00             Max.   :11.000
## stays_in_weekend_nights stays_in_week_nights    adults         children
## Min.   :0.000           Min.   : 0.000      Min.   :1.00   Min.   :0.0000
## 1st Qu.:0.000           1st Qu.: 2.000      1st Qu.:2.00   1st Qu.:0.0000
## Median :1.000           Median : 3.000      Median :2.00   Median :0.0000
## Mean   :1.324           Mean   : 3.575      Mean   :2.01   Mean   :0.1672
## 3rd Qu.:2.000           3rd Qu.: 5.000      3rd Qu.:2.00   3rd Qu.:0.0000
## Max.   :6.000           Max.   :15.000      Max.   :4.00   Max.   :2.0000
##     babies            meal             country          market_segment
## Min.   :0.0000    Length:299       Length:299        Length:299
## 1st Qu.:0.0000    Class :character Class :character  Class :character
## Median :0.0000    Mode  :character Mode  :character  Mode  :character
## Mean   :0.0301
## 3rd Qu.:0.0000
```

```
## Max.   :2.0000
## distribution_channel is_repeated_guest previous_cancellations
## Length:299          Min.   :0        Min.   :0
## Class :character    1st Qu.:0        1st Qu.:0
## Mode  :character    Median :0        Median :0
##                     Mean   :0        Mean   :0
##                     3rd Qu.:0        3rd Qu.:0
##                     Max.   :0        Max.   :0
## previous_bookings_not_canceled reserved_room_type assigned_room_type
## Min.   :0                      Length:299         Length:299
## 1st Qu.:0                      Class :character   Class :character
## Median :0                      Mode  :character   Mode  :character
## Mean   :0
## 3rd Qu.:0
## Max.   :0
## booking_changes deposit_type        agent              company
## Min.   :0.000   Length:299      Length:299         Length:299
## 1st Qu.:0.000   Class :character Class :character   Class :character
## Median :0.000   Mode  :character Mode  :character   Mode  :character
## Mean   :0.214
## 3rd Qu.:0.000
## Max.   :5.000
## days_in_waiting_list customer_type        adr
## Min.   :0            Length:299      Min.   :  0.0
## 1st Qu.:0            Class :character 1st Qu.: 87.3
## Median :0            Mode  :character Median :107.0
## Mean   :0                            Mean   :107.7
## 3rd Qu.:0                            3rd Qu.:123.0
## Max.   :0                            Max.   :225.0
## required_car_parking_spaces total_of_special_requests reservation_status
## Min.   :0.0000              Min.   :0.0000            Length:299
## 1st Qu.:0.0000             1st Qu.:0.0000            Class :character
## Median :0.0000             Median :1.0000            Mode  :character
## Mean   :0.1538             Mean   :0.7726
## 3rd Qu.:0.0000             3rd Qu.:1.0000
## Max.   :2.0000             Max.   :3.0000
## reservation_status_date
## Length:299
## Class :character
## Mode  :character
##
##
##
```

```
#identifies center of distribution
mean(mydata$adr)
```

```
## [1] 107.661
```

```
#List all values  of a variable with frequencies
table(mydata$adr)
```

```
##
##      0  47.25  55.68  56.01  58.95     61     62   63.6  63.86  65.42   65.5
##      7      2      2      1      4      1      1      2      2      1      3
##  66.42  67.24  67.58     71  71.55     73   73.8  74.07     75  75.46  77.96
##      1      1      1      1      3      1     14      1      2      1      1
##   79.5   80.1     82  82.35  82.88   83.5  84.67   85.1  85.59   85.8  85.86
##      4      1      6      1      1      1      2      1      1      1      1
##   87.3   88.2     89  89.68  89.97  90.67   90.9  90.95  91.37   91.5  92.45
##      5      4      1      1      1      1      1      2      1      3      1
##  92.67   93.6     94  94.71  94.95  95.27   96.3  96.49     97  97.29   97.5
##      1      2      1      2      1      1      3      1     12      2      1
##     98   98.4   99.3   99.5  99.67    100  100.1    101    103 104.72    105
##     11      1      1      1      1      1      1      1      1      3      1
## 105.08  105.5  105.9 106.84    107 107.42  108.3 108.73  108.8 108.83  109.8
##      1      2      1      1      6      1      1      1      4      1      2
##  110.3  110.5  110.6  110.7 111.15    112  112.2    113    114  114.5  116.5
##      2      2      1      7      1      3      1      1      1      2      1
##    117 117.63  117.8 117.81  117.9 118.13 119.25 119.35    120  120.6    122
##      1      1      1      4      1      1      1      1      1      3      1
##    123    124 124.45 125.54 126.65 126.67  130.1    131    133 133.83  134.1
##     22      2      1      1      1      1      1      7      1      1      1
## 134.43 134.73    135 136.33    137    139  139.4  144.4 144.43  144.9    145
##      1      2      1      1      2      2      1      1      1      1      1
##    146    147    149  149.4    150    151    152    153 153.96 154.77    155
##      2      2      1      1      1      1      1      5      1      1      1
##  157.1 159.75    161    163  164.2    165    167 171.32    172    175    185
##      1      1      1      4      1      1      3      1      1      2      2
##  185.5    193    195 196.54    197    210    225
##      1      1      1      1      2      1      1
```

```
#Gives subset of data
subset(mydata)
```

```
##            hotel is_canceled lead_time arrival_date_year arrival_date_month
## 1   Resort Hotel           0       342              2015               July
## 2   Resort Hotel           0       737              2015               July
## 3   Resort Hotel           0         7              2015               July
## 4   Resort Hotel           0        13              2015               July
## 5   Resort Hotel           0        14              2015               July
## 6   Resort Hotel           0        14              2015               July
## 7   Resort Hotel           0         0              2015               July
## 8   Resort Hotel           0         9              2015               July
## 9   Resort Hotel           1        85              2015               July
## 10  Resort Hotel           1        75              2015               July
## 11  Resort Hotel           1        23              2015               July
## 12  Resort Hotel           0        35              2015               July
## 13  Resort Hotel           0        68              2015               July
## 14  Resort Hotel           0        18              2015               July
## 15  Resort Hotel           0        37              2015               July
## 16  Resort Hotel           0        68              2015               July
```

```
## 17   Resort Hotel          0          37              2015              July
## 18   Resort Hotel          0          12              2015              July
## 19   Resort Hotel          0           0              2015              July
## 20   Resort Hotel          0           7              2015              July
## 21   Resort Hotel          0          37              2015              July
## 22   Resort Hotel          0          72              2015              July
## 23   Resort Hotel          0          72              2015              July
## 24   Resort Hotel          0          72              2015              July
## 25   Resort Hotel          0         127              2015              July
## 26   Resort Hotel          0          78              2015              July
## 27   Resort Hotel          0          48              2015              July
## 28   Resort Hotel          1          60              2015              July
## 29   Resort Hotel          0          77              2015              July
## 30   Resort Hotel          0          99              2015              July
## 31   Resort Hotel          0         118              2015              July
## 32   Resort Hotel          0          95              2015              July
## 33   Resort Hotel          1          96              2015              July
## 34   Resort Hotel          0          69              2015              July
## 35   Resort Hotel          1          45              2015              July
## 36   Resort Hotel          1          40              2015              July
## 37   Resort Hotel          0          15              2015              July
## 38   Resort Hotel          0          36              2015              July
## 39   Resort Hotel          1          43              2015              July
## 40   Resort Hotel          0          70              2015              July
## 41   Resort Hotel          1          45              2015              July
## 42   Resort Hotel          0          45              2015              July
## 43   Resort Hotel          0          16              2015              July
## 44   Resort Hotel          0          70              2015              July
## 45   Resort Hotel          0         107              2015              July
## 46   Resort Hotel          1          47              2015              July
## 47   Resort Hotel          0          96              2015              July
## 48   Resort Hotel          0         113              2015              July
## 49   Resort Hotel          0          90              2015              July
## 50   Resort Hotel          0          50              2015              July
## 51   Resort Hotel          0         113              2015              July
## 52   Resort Hotel          0          93              2015              July
## 53   Resort Hotel          0          76              2015              July
## 54   Resort Hotel          0           3              2015              July
## 55   Resort Hotel          0           1              2015              July
## 56   Resort Hotel          0           1              2015              July
## 57   Resort Hotel          0           0              2015              July
## 58   Resort Hotel          0           0              2015              July
## 59   Resort Hotel          0           0              2015              July
## 60   Resort Hotel          0          14              2015              July
## 61   Resort Hotel          0          10              2015              July
## 62   Resort Hotel          0           5              2015              July
## 63   Resort Hotel          0          17              2015              July
## 64   Resort Hotel          0          93              2015              July
## 65   Resort Hotel          1           3              2015              July
## 66   Resort Hotel          0          10              2015              July
## 67   Resort Hotel          0           3              2015              July
## 68   Resort Hotel          0          51              2015              July
## 69   Resort Hotel          1          71              2015              July
## 70   Resort Hotel          1          63              2015              July
```

```
## 71  Resort Hotel        1      62        2015           July
## 72  Resort Hotel        1     101        2015           July
## 73  Resort Hotel        0       2        2015           July
## 74  Resort Hotel        0      15        2015           July
## 75  Resort Hotel        1      51        2015           July
## 76  Resort Hotel        0       3        2015           July
## 77  Resort Hotel        1      48        2015           July
## 78  Resort Hotel        0       2        2015           July
## 79  Resort Hotel        0      72        2015           July
## 80  Resort Hotel        0      81        2015           July
## 81  Resort Hotel        0      99        2015           July
## 82  Resort Hotel        1     368        2015           July
## 83  Resort Hotel        0     364        2015           July
## 84  Resort Hotel        1      81        2015           July
## 85  Resort Hotel        0      99        2015           July
## 86  Resort Hotel        0     324        2015           July
## 87  Resort Hotel        0      69        2015           July
## 88  Resort Hotel        1      79        2015           July
## 89  Resort Hotel        0      12        2015           July
## 90  Resort Hotel        0       9        2015           July
## 91  Resort Hotel        0       1        2015           July
## 92  Resort Hotel        0      21        2015           July
## 93  Resort Hotel        0       9        2015           July
## 94  Resort Hotel        0     109        2015           July
## 95  Resort Hotel        1     109        2015           July
## 96  Resort Hotel        1      72        2015           July
## 97  Resort Hotel        1      63        2015           July
## 98  Resort Hotel        0      63        2015           July
## 99  Resort Hotel        0     101        2015           July
## 100 Resort Hotel        0     102        2015           July
## 101 Resort Hotel        0       4        2015           July
## 102 Resort Hotel        0      98        2015           July
## 103 Resort Hotel        0      92        2015           July
## 104 Resort Hotel        0      95        2015           July
## 105 Resort Hotel        0     102        2015           July
## 106 Resort Hotel        1      26        2015           July
## 107 Resort Hotel        1      73        2015           July
## 108 Resort Hotel        1     102        2015           July
## 109 Resort Hotel        0     115        2015           July
## 110 Resort Hotel        0     102        2015           July
## 111 Resort Hotel        0      86        2015           July
## 112 Resort Hotel        0      78        2015           July
## 113 Resort Hotel        0      52        2015           July
## 114 Resort Hotel        0      29        2015           July
## 115 Resort Hotel        1     101        2015           July
## 116 Resort Hotel        0     109        2015           July
## 117 Resort Hotel        0      92        2015           July
## 118 Resort Hotel        0      92        2015           July
## 119 Resort Hotel        0      79        2015           July
## 120 Resort Hotel        0       2        2015           July
## 121 Resort Hotel        0      30        2015           July
## 122 Resort Hotel        1      51        2015           July
## 123 Resort Hotel        1      36        2015           July
## 124 Resort Hotel        1      73        2015           July
```

```
## 125 Resort Hotel          1      33          2015          July
## 126 Resort Hotel          0      32          2015          July
## 127 Resort Hotel          0       8          2015          July
## 128 Resort Hotel          0     100          2015          July
## 129 Resort Hotel          0       1          2015          July
## 130 Resort Hotel          0     100          2015          July
## 131 Resort Hotel          0     100          2015          July
## 132 Resort Hotel          0       9          2015          July
## 133 Resort Hotel          1       5          2015          July
## 134 Resort Hotel          0       0          2015          July
## 135 Resort Hotel          0       9          2015          July
## 136 Resort Hotel          0       2          2015          July
## 137 Resort Hotel          0       2          2015          July
## 138 Resort Hotel          0       9          2015          July
## 139 Resort Hotel          1       5          2015          July
## 140 Resort Hotel          0       2          2015          July
## 141 Resort Hotel          0      44          2015          July
## 142 Resort Hotel          0      80          2015          July
## 143 Resort Hotel          0      97          2015          July
## 144 Resort Hotel          0     109          2015          July
## 145 Resort Hotel          0      30          2015          July
## 146 Resort Hotel          0      64          2015          July
## 147 Resort Hotel          0      39          2015          July
## 148 Resort Hotel          0      90          2015          July
## 149 Resort Hotel          1      34          2015          July
## 150 Resort Hotel          1      93          2015          July
## 151 Resort Hotel          0      97          2015          July
## 152 Resort Hotel          0      29          2015          July
## 153 Resort Hotel          1     101          2015          July
## 154 Resort Hotel          0      27          2015          July
## 155 Resort Hotel          0       8          2015          July
## 156 Resort Hotel          0      82          2015          July
## 157 Resort Hotel          0      94          2015          July
## 158 Resort Hotel          0     110          2015          July
## 159 Resort Hotel          0      96          2015          July
## 160 Resort Hotel          0      79          2015          July
## 161 Resort Hotel          0     115          2015          July
## 162 Resort Hotel          0     111          2015          July
## 163 Resort Hotel          0      51          2015          July
## 164 Resort Hotel          0      94          2015          July
## 165 Resort Hotel          0      81          2015          July
## 166 Resort Hotel          0      84          2015          July
## 167 Resort Hotel          0      51          2015          July
## 168 Resort Hotel          0     111          2015          July
## 169 Resort Hotel          0       0          2015          July
## 170 Resort Hotel          0       2          2015          July
## 171 Resort Hotel          0       7          2015          July
## 172 Resort Hotel          0      98          2015          July
## 173 Resort Hotel          0      95          2015          July
## 174 Resort Hotel          1      48          2015          July
## 175 Resort Hotel          0      66          2015          July
## 176 Resort Hotel          0     104          2015          July
## 177 Resort Hotel          0      28          2015          July
## 178 Resort Hotel          0      34          2015          July
```

```
## 179 Resort Hotel            0      98        2015            July
## 180 Resort Hotel            0     104        2015            July
## 181 Resort Hotel            0      68        2015            July
## 182 Resort Hotel            1      86        2015            July
## 183 Resort Hotel            0     258        2015            July
## 184 Resort Hotel            0     111        2015            July
## 185 Resort Hotel            1      94        2015            July
## 186 Resort Hotel            0     112        2015            July
## 187 Resort Hotel            0     100        2015            July
## 188 Resort Hotel            0      33        2015            July
## 189 Resort Hotel            0      97        2015            July
## 190 Resort Hotel            0      80        2015            July
## 191 Resort Hotel            0      90        2015            July
## 192 Resort Hotel            0     111        2015            July
## 193 Resort Hotel            0      65        2015            July
## 194 Resort Hotel            1      67        2015            July
## 195 Resort Hotel            0      55        2015            July
## 196 Resort Hotel            0      21        2015            July
## 197 Resort Hotel            0       8        2015            July
## 198 Resort Hotel            0       8        2015            July
## 199 Resort Hotel            0       0        2015            July
## 200 Resort Hotel            0       0        2015            July
## 201 Resort Hotel            0       0        2015            July
## 202 Resort Hotel            0       8        2015            July
## 203 Resort Hotel            0      66        2015            July
## 204 Resort Hotel            0      88        2015            July
## 205 Resort Hotel            0       0        2015            July
## 206 Resort Hotel            1      43        2015            July
## 207 Resort Hotel            1      88        2015            July
## 208 Resort Hotel            0      54        2015            July
## 209 Resort Hotel            1     292        2015            July
## 210 Resort Hotel            0     112        2015            July
## 211 Resort Hotel            0      68        2015            July
## 212 Resort Hotel            0       7        2015            July
## 213 Resort Hotel            0       1        2015            July
## 214 Resort Hotel            1     113        2015            July
## 215 Resort Hotel            0       5        2015            July
## 216 Resort Hotel            0      83        2015            July
## 217 Resort Hotel            1     105        2015            July
## 218 Resort Hotel            0       0        2015            July
## 219 Resort Hotel            1       1        2015            July
## 220 Resort Hotel            1       1        2015            July
## 221 Resort Hotel            0       1        2015            July
## 222 Resort Hotel            1     102        2015            July
## 223 Resort Hotel            0     113        2015            July
## 224 Resort Hotel            1     280        2015            July
## 225 Resort Hotel            0      96        2015            July
## 226 Resort Hotel            0     394        2015            July
## 227 Resort Hotel            0      33        2015            July
## 228 Resort Hotel            0      82        2015            July
## 229 Resort Hotel            0     100        2015            July
## 230 Resort Hotel            0     100        2015            July
## 231 Resort Hotel            0      17        2015            July
## 232 Resort Hotel            0      68        2015            July
```

```
## 233 Resort Hotel          0        12          2015                  July
## 234 Resort Hotel          1        77          2015                  July
## 235 Resort Hotel          1        24          2015                  July
## 236 Resort Hotel          1        44          2015                  July
## 237 Resort Hotel          0        78          2015                  July
## 238 Resort Hotel          1        17          2015                  July
## 239 Resort Hotel          1       103          2015                  July
## 240 Resort Hotel          0        16          2015                  July
## 241 Resort Hotel          0        14          2015                  July
## 242 Resort Hotel          0        77          2015                  July
## 243 Resort Hotel          0        90          2015                  July
## 244 Resort Hotel          0        90          2015                  July
## 245 Resort Hotel          0        90          2015                  July
## 246 Resort Hotel          0       366          2015                  July
## 247 Resort Hotel          0       249          2015                  July
## 248 Resort Hotel          1        69          2015                  July
## 249 Resort Hotel          0        10          2015                  July
## 250 Resort Hotel          0        22          2015                  July
## 251 Resort Hotel          0        91          2015                  July
## 252 Resort Hotel          0        23          2015                  July
## 253 Resort Hotel          0        11          2015                  July
## 254 Resort Hotel          0         3          2015                  July
## 255 Resort Hotel          0        13          2015                  July
## 256 Resort Hotel          0       108          2015                  July
## 257 Resort Hotel          0        91          2015                  July
## 258 Resort Hotel          0        37          2015                  July
## 259 Resort Hotel          0        21          2015                  July
## 260 Resort Hotel          0       106          2015                  July
## 261 Resort Hotel          0        30          2015                  July
## 262 Resort Hotel          0        30          2015                  July
## 263 Resort Hotel          1        51          2015                  July
## 264 Resort Hotel          0        79          2015                  July
## 265 Resort Hotel          0        21          2015                  July
## 266 Resort Hotel          0        35          2015                  July
## 267 Resort Hotel          0        78          2015                  July
## 268 Resort Hotel          0        31          2015                  July
## 269 Resort Hotel          0        78          2015                  July
## 270 Resort Hotel          0        78          2015                  July
## 271 Resort Hotel          0        44          2015                  July
## 272 Resort Hotel          0        34          2015                  July
## 273 Resort Hotel          0        87          2015                  July
## 274 Resort Hotel          0        11          2015                  July
## 275 Resort Hotel          0       115          2015                  July
## 276 Resort Hotel          0        86          2015                  July
## 277 Resort Hotel          0        41          2015                  July
## 278 Resort Hotel          0        32          2015                  July
## 279 Resort Hotel          0        34          2015                  July
## 280 Resort Hotel          0        34          2015                  July
## 281 Resort Hotel          1       100          2015                  July
## 282 Resort Hotel          0        44          2015                  July
## 283 Resort Hotel          0       304          2015                  July
## 284 Resort Hotel          1        36          2015                  July
## 285 Resort Hotel          0       117          2015                  July
## 286 Resort Hotel          0        70          2015                  July
```

```
## 287 Resort Hotel            0   110             2015               July
## 288 Resort Hotel            1   109             2015               July
## 289 Resort Hotel            0    33             2015               July
## 290 Resort Hotel            0    33             2015               July
## 291 Resort Hotel            0    33             2015               July
## 292 Resort Hotel            0     0             2015               July
## 293 Resort Hotel            0     0             2015               July
## 294 Resort Hotel            0     0             2015               July
## 295 Resort Hotel            0     0             2015               July
## 296 Resort Hotel            0    84             2015               July
## 297 Resort Hotel            0    71             2015               July
## 298 Resort Hotel            0    16             2015               July
## 299 Resort Hotel            0    54             2015               July
##      arrival_date_week_number arrival_date_day_of_month stays_in_weekend_nights
## 1                          27                         1                       0
## 2                          27                         1                       0
## 3                          27                         1                       0
## 4                          27                         1                       0
## 5                          27                         1                       0
## 6                          27                         1                       0
## 7                          27                         1                       0
## 8                          27                         1                       0
## 9                          27                         1                       0
## 10                         27                         1                       0
## 11                         27                         1                       0
## 12                         27                         1                       0
## 13                         27                         1                       0
## 14                         27                         1                       0
## 15                         27                         1                       0
## 16                         27                         1                       0
## 17                         27                         1                       0
## 18                         27                         1                       0
## 19                         27                         1                       0
## 20                         27                         1                       0
## 21                         27                         1                       1
## 22                         27                         1                       2
## 23                         27                         1                       2
## 24                         27                         1                       2
## 25                         27                         1                       2
## 26                         27                         1                       2
## 27                         27                         1                       2
## 28                         27                         1                       2
## 29                         27                         1                       2
## 30                         27                         1                       2
## 31                         27                         1                       4
## 32                         27                         1                       4
## 33                         27                         1                       2
## 34                         27                         2                       2
## 35                         27                         2                       1
## 36                         27                         2                       1
## 37                         27                         2                       1
## 38                         27                         2                       1
## 39                         27                         2                       1
## 40                         27                         2                       2
```

```
## 41                27                    2                         2
## 42                27                    2                         2
## 43                27                    2                         2
## 44                27                    2                         2
## 45                27                    2                         2
## 46                27                    2                         2
## 47                27                    2                         2
## 48                27                    2                         2
## 49                27                    2                         2
## 50                27                    2                         2
## 51                27                    2                         2
## 52                27                    2                         3
## 53                27                    2                         4
## 54                27                    2                         0
## 55                27                    2                         0
## 56                27                    2                         0
## 57                27                    2                         0
## 58                27                    2                         0
## 59                27                    2                         0
## 60                27                    2                         0
## 61                27                    2                         0
## 62                27                    2                         0
## 63                27                    2                         0
## 64                27                    2                         0
## 65                27                    2                         0
## 66                27                    3                         0
## 67                27                    3                         0
## 68                27                    3                         0
## 69                27                    3                         0
## 70                27                    3                         0
## 71                27                    3                         0
## 72                27                    3                         0
## 73                27                    3                         0
## 74                27                    3                         0
## 75                27                    3                         0
## 76                27                    3                         1
## 77                27                    3                         1
## 78                27                    3                         2
## 79                27                    3                         2
## 80                27                    3                         2
## 81                27                    3                         2
## 82                27                    3                         3
## 83                27                    3                         3
## 84                27                    3                         3
## 85                27                    3                         3
## 86                27                    3                         4
## 87                27                    3                         4
## 88                27                    3                         6
## 89                27                    3                         0
## 90                27                    3                         0
## 91                27                    3                         0
## 92                27                    3                         0
## 93                27                    3                         0
## 94                27                    3                         0
```

```
## 95           27              3               0
## 96           27              3               0
## 97           27              3               2
## 98           27              3               2
## 99           27              3               2
## 100          27              3               2
## 101          27              4               2
## 102          27              4               2
## 103          27              4               2
## 104          27              4               2
## 105          27              4               2
## 106          27              4               2
## 107          27              4               2
## 108          27              4               2
## 109          27              4               2
## 110          27              4               2
## 111          27              4               2
## 112          27              4               2
## 113          27              4               2
## 114          27              4               2
## 115          27              4               2
## 116          27              4               2
## 117          27              4               4
## 118          27              4               4
## 119          27              4               4
## 120          27              4               0
## 121          27              4               0
## 122          27              4               0
## 123          27              4               0
## 124          27              4               0
## 125          27              4               0
## 126          27              4               0
## 127          27              4               0
## 128          27              4               1
## 129          27              4               1
## 130          27              4               1
## 131          27              4               1
## 132          28              5               1
## 133          28              5               1
## 134          28              5               1
## 135          28              5               1
## 136          28              5               1
## 137          28              5               1
## 138          28              5               1
## 139          28              5               1
## 140          28              5               1
## 141          28              5               2
## 142          28              5               2
## 143          28              5               2
## 144          28              5               2
## 145          28              5               2
## 146          28              5               2
## 147          28              5               2
## 148          28              5               2
```

```
## 149                28                  5                2
## 150                28                  5                2
## 151                28                  5                2
## 152                28                  5                2
## 153                28                  5                2
## 154                28                  5                2
## 155                28                  5                4
## 156                28                  5                4
## 157                28                  5                4
## 158                28                  5                4
## 159                28                  5                4
## 160                28                  5                4
## 161                28                  6                1
## 162                28                  6                1
## 163                28                  6                1
## 164                28                  6                1
## 165                28                  6                1
## 166                28                  6                1
## 167                28                  6                1
## 168                28                  6                0
## 169                28                  6                0
## 170                28                  6                1
## 171                28                  6                1
## 172                28                  6                1
## 173                28                  6                1
## 174                28                  6                1
## 175                28                  6                1
## 176                28                  6                1
## 177                28                  6                1
## 178                28                  6                1
## 179                28                  6                1
## 180                28                  6                1
## 181                28                  6                2
## 182                28                  6                2
## 183                28                  6                2
## 184                28                  6                3
## 185                28                  6                3
## 186                28                  6                3
## 187                28                  6                3
## 188                28                  6                3
## 189                28                  6                3
## 190                28                  6                3
## 191                28                  6                4
## 192                28                  6                4
## 193                28                  6                2
## 194                28                  7                0
## 195                28                  7                0
## 196                28                  7                0
## 197                28                  7                0
## 198                28                  7                0
## 199                28                  7                0
## 200                28                  7                0
## 201                28                  7                0
## 202                28                  7                0
```

```
## 203                28                    7                    0
## 204                28                    7                    0
## 205                28                    7                    0
## 206                28                    7                    0
## 207                28                    7                    2
## 208                28                    7                    2
## 209                28                    7                    2
## 210                28                    7                    4
## 211                28                    8                    0
## 212                28                    8                    0
## 213                28                    8                    0
## 214                28                    8                    0
## 215                28                    8                    0
## 216                28                    8                    0
## 217                28                    8                    0
## 218                28                    8                    0
## 219                28                    8                    0
## 220                28                    8                    0
## 221                28                    8                    0
## 222                28                    8                    1
## 223                28                    8                    2
## 224                28                    8                    2
## 225                28                    8                    2
## 226                28                    8                    2
## 227                28                    8                    2
## 228                28                    8                    2
## 229                28                    8                    2
## 230                28                    8                    2
## 231                28                    9                    0
## 232                28                    9                    0
## 233                28                    9                    0
## 234                28                    9                    0
## 235                28                    9                    0
## 236                28                    9                    0
## 237                28                    9                    0
## 238                28                    9                    1
## 239                28                    9                    1
## 240                28                    9                    1
## 241                28                    9                    2
## 242                28                    9                    2
## 243                28                    9                    2
## 244                28                    9                    2
## 245                28                    9                    2
## 246                28                    9                    2
## 247                28                    9                    2
## 248                28                    9                    2
## 249                28                   10                    0
## 250                28                   10                    0
## 251                28                   10                    0
## 252                28                   10                    0
## 253                28                   10                    0
## 254                28                   10                    0
## 255                28                   10                    0
## 256                28                   10                    0
```

```
## 257                            28                          10                          0
## 258                            28                          10                          1
## 259                            28                          10                          1
## 260                            28                          10                          1
## 261                            28                          10                          2
## 262                            28                          10                          2
## 263                            28                          10                          2
## 264                            28                          10                          2
## 265                            28                          10                          2
## 266                            28                          10                          2
## 267                            28                          10                          2
## 268                            28                          10                          2
## 269                            28                          10                          2
## 270                            28                          10                          2
## 271                            28                          10                          2
## 272                            28                          10                          2
## 273                            28                          10                          2
## 274                            28                          10                          2
## 275                            28                          10                          2
## 276                            28                          10                          3
## 277                            28                          10                          4
## 278                            28                          10                          4
## 279                            28                          10                          2
## 280                            28                          10                          2
## 281                            28                          11                          2
## 282                            28                          11                          2
## 283                            28                          11                          2
## 284                            28                          11                          2
## 285                            28                          11                          2
## 286                            28                          11                          2
## 287                            28                          11                          2
## 288                            28                          11                          2
## 289                            28                          11                          2
## 290                            28                          11                          2
## 291                            28                          11                          2
## 292                            28                          11                          0
## 293                            28                          11                          0
## 294                            28                          11                          0
## 295                            28                          11                          0
## 296                            28                          11                          1
## 297                            28                          11                          1
## 298                            28                          11                          1
## 299                            28                          11                          2
##     stays_in_week_nights adults children babies meal country market_segment
## 1                      0      2        0      0   BB     PRT         Direct
## 2                      0      2        0      0   BB     PRT         Direct
## 3                      1      1        0      0   BB     GBR         Direct
## 4                      1      1        0      0   BB     GBR      Corporate
## 5                      2      2        0      0   BB     GBR      Online TA
## 6                      2      2        0      0   BB     GBR      Online TA
## 7                      2      2        0      0   BB     PRT         Direct
## 8                      2      2        0      0   FB     PRT         Direct
## 9                      3      2        0      0   BB     PRT      Online TA
## 10                     3      2        0      0   HB     PRT Offline TA/TO
```

```
## 11                 4      2      0      0     BB     PRT      Online TA
## 12                 4      2      0      0     HB     PRT      Online TA
## 13                 4      2      0      0     BB     USA      Online TA
## 14                 4      2      1      0     HB     ESP      Online TA
## 15                 4      2      0      0     BB     PRT      Online TA
## 16                 4      2      0      0     BB     IRL      Online TA
## 17                 4      2      0      0     BB     PRT   Offline TA/TO
## 18                 1      2      0      0     BB     IRL      Online TA
## 19                 1      2      0      0     BB     FRA      Corporate
## 20                 4      2      0      0     BB     GBR         Direct
## 21                 4      1      0      0     BB     GBR      Online TA
## 22                 4      2      0      0     BB     PRT         Direct
## 23                 4      2      0      0     BB     PRT         Direct
## 24                 4      2      0      0     BB     PRT         Direct
## 25                 5      2      0      0     HB     GBR   Offline TA/TO
## 26                 5      2      0      0     BB     PRT   Offline TA/TO
## 27                 5      2      0      0     BB     IRL   Offline TA/TO
## 28                 5      2      0      0     BB     PRT      Online TA
## 29                 5      2      0      0     BB     PRT      Online TA
## 30                 5      2      0      0     BB     PRT      Online TA
## 31                10      1      0      0     BB    NULL         Direct
## 32                11      2      0      0     BB     GBR   Offline TA/TO
## 33                 8      2      0      0     BB     PRT         Direct
## 34                 4      2      0      0     BB     IRL   Offline TA/TO
## 35                 3      3      0      0     BB     PRT      Online TA
## 36                 3      3      0      0     BB     PRT      Online TA
## 37                 3      2      0      0     BB     ESP      Online TA
## 38                 3      3      0      0     BB     PRT      Online TA
## 39                 3      3      0      0     BB     PRT      Online TA
## 40                 3      2      0      0     HB     ROU         Direct
## 41                 3      2      0      0     BB     PRT      Online TA
## 42                 3      2      0      0     BB     IRL   Offline TA/TO
## 43                 3      2      0      0     BB     ESP         Direct
## 44                 3      2      0      0     HB     ROU         Direct
## 45                 5      2      0      0     BB     PRT      Online TA
## 46                 5      2      2      0     BB     PRT      Online TA
## 47                 5      2      0      0     BB     ESP   Offline TA/TO
## 48                 5      2      0      0     BB     NOR   Offline TA/TO
## 49                 5      2      0      0     HB     GBR   Offline TA/TO
## 50                 5      2      0      0     HB     IRL      Online TA
## 51                 5      2      0      0     BB     NOR   Offline TA/TO
## 52                 8      2      0      0     BB     IRL   Offline TA/TO
## 53                10      2      0      0     BB     OMN   Offline TA/TO
## 54                 1      2      0      0     BB     ESP      Online TA
## 55                 1      2      0      0     BB     ARG      Online TA
## 56                 1      2      2      0     BB     ESP         Direct
## 57                 1      2      0      0     BB     PRT         Direct
## 58                 1      2      0      0     BB     PRT      Online TA
## 59                 1      2      0      0     BB     PRT         Direct
## 60                 2      2      0      0     BB     USA      Online TA
## 61                 2      2      0      0     BB     PRT      Online TA
## 62                 2      2      0      0     BB     IRL      Online TA
## 63                 3      2      0      0     BB     ESP         Direct
## 64                 3      2      0      0     BB     IRL   Offline TA/TO
```

```
## 65                     3      2      0      0   HB   PRT      Online TA
## 66                     2      2      2      0   BB   USA      Online TA
## 67                     2      2      0      0   BB   ESP      Online TA
## 68                     2      2      0      0   BB   POL      Online TA
## 69                     2      3      0      0   BB   PRT   Offline TA/TO
## 70                     2      2      0      0   BB   PRT      Online TA
## 71                     2      2      0      0   BB   PRT      Online TA
## 72                     2      2      0      0   BB   PRT      Online TA
## 73                     2      2      0      0   HB   PRT   Offline TA/TO
## 74                     2      2      0      0   BB   ESP      Online TA
## 75                     2      3      0      0   BB   PRT      Online TA
## 76                     2      2      0      0   BB   ESP      Online TA
## 77                     2      2      0      0   BB   PRT      Online TA
## 78                     2      1      0      0   BB   PRT      Online TA
## 79                     2      2      0      0   BB   DEU   Offline TA/TO
## 80                     6      3      0      0   BB   PRT   Offline TA/TO
## 81                     7      2      0      0   BB   FRA   Offline TA/TO
## 82                     7      2      0      0   BB   PRT   Offline TA/TO
## 83                     7      2      0      0   BB   GBR   Offline TA/TO
## 84                     7      2      0      0   HB   PRT         Direct
## 85                     7      2      0      0   HB   GBR   Offline TA/TO
## 86                    10      2      0      0   HB   GBR   Offline TA/TO
## 87                    10      2      0      0   BB   GBR      Online TA
## 88                    15      2      1      0   BB   PRT   Offline TA/TO
## 89                     1      2      0      0   BB   GBR      Online TA
## 90                     1      2      0      0   BB   PRT      Online TA
## 91                     1      2      0      0   BB   ESP      Online TA
## 92                     1      2      0      0   BB   PRT      Online TA
## 93                     1      2      0      0   BB   USA      Online TA
## 94                     1      2      0      0   BB   BEL      Online TA
## 95                     2      2      0      0   BB   PRT      Online TA
## 96                     2      2      0      0   BB   PRT      Online TA
## 97                     5      2      0      0   BB   PRT      Online TA
## 98                     5      3      0      0   HB   ESP   Offline TA/TO
## 99                     5      2      1      0   BB   PRT      Online TA
## 100                    5      2      0      0   BB   DEU         Direct
## 101                    1      2      0      0   BB   ESP         Direct
## 102                    1      2      0      0   BB   FRA   Offline TA/TO
## 103                    4      1      2      0   BB   FRA   Offline TA/TO
## 104                    4      2      0      0   BB   PRT      Online TA
## 105                    5      2      0      0   BB   PRT      Online TA
## 106                    5      2      2      0   BB   PRT      Online TA
## 107                    5      3      0      0   HB   PRT         Direct
## 108                    5      2      0      0   BB   PRT      Online TA
## 109                    5      2      0      0   BB   PRT   Offline TA/TO
## 110                    5      2      0      1   BB   PRT      Online TA
## 111                    5      2      0      0   BB   CHE      Online TA
## 112                    5      2      0      1   HB   PRT      Online TA
## 113                    5      2      0      0   BB   GBR      Online TA
## 114                    6      3      0      0   BB   PRT      Online TA
## 115                    6      2      0      0   BB   PRT      Online TA
## 116                    6      2      0      0   BB   PRT      Online TA
## 117                    6      2      0      0   BB   GBR   Offline TA/TO
## 118                    6      2      0      0   BB   PRT   Offline TA/TO
```

```
## 119                6   2   1   0   HB   PRT        Direct
## 120                1   2   2   0   BB   PRT     Online TA
## 121                1   2   0   0   BB   PRT  Offline TA/TO
## 122                1   1   0   0   HB   PRT     Online TA
## 123                1   1   0   0   BB   PRT        Direct
## 124                1   2   0   0   BB   PRT     Online TA
## 125                1   2   0   0   BB   PRT     Online TA
## 126                1   4   0   0   FB   PRT  Complementary
## 127                1   2   0   0   BB   ESP     Online TA
## 128                1   2   0   0   BB   FRA     Online TA
## 129                1   2   0   0   BB   PRT     Online TA
## 130                1   2   0   0   BB   FRA     Online TA
## 131                1   2   0   0   BB   FRA     Online TA
## 132                0   2   0   0   BB   ESP     Online TA
## 133                0   2   0   0   BB   PRT     Online TA
## 134                0   2   0   0   BB   ESP     Online TA
## 135                0   1   0   0   BB   DEU     Online TA
## 136                0   1   0   0   BB   PRT     Online TA
## 137                0   2   0   0   BB   PRT     Online TA
## 138                0   1   0   0   BB   DEU     Online TA
## 139                0   2   0   0   BB   PRT     Online TA
## 140                0   2   0   0   BB   PRT        Direct
## 141                0   3   0   0   HB   PRT     Online TA
## 142                0   2   0   0   BB   FRA     Online TA
## 143                2   2   0   0   BB   ESP     Online TA
## 144                3   2   1   0   BB    CN  Offline TA/TO
## 145                3   2   0   0   BB   ESP     Online TA
## 146                3   2   0   0   BB   PRT     Online TA
## 147                4   2   0   0   BB   ESP     Online TA
## 148                4   2   0   0   BB   PRT     Online TA
## 149                4   2   2   0   BB   PRT     Online TA
## 150                5   2   0   0   HB   PRT  Offline TA/TO
## 151                5   2   2   0   HB   PRT        Direct
## 152                5   2   0   0   BB   IRL     Online TA
## 153                5   2   0   0   HB   PRT     Online TA
## 154                5   2   0   0   BB   ESP  Offline TA/TO
## 155                5   2   2   0   BB   CHE     Online TA
## 156                6   2   0   0   BB   PRT  Offline TA/TO
## 157                6   3   0   0   BB   PRT        Direct
## 158                7   2   0   0   BB   GBR  Offline TA/TO
## 159               10   1   0   0   HB   GBR  Offline TA/TO
## 160               10   2   0   0   HB   GBR  Offline TA/TO
## 161                4   2   2   0   BB   PRT     Online TA
## 162                3   2   0   0   BB   PRT     Online TA
## 163                3   2   0   0   BB   USA     Online TA
## 164                3   3   0   0   BB    CN  Offline TA/TO
## 165                3   2   2   0   HB   CHE        Direct
## 166                3   2   0   1   BB   PRT     Online TA
## 167                3   3   0   0   BB   USA     Online TA
## 168                0   2   0   0   BB   PRT     Online TA
## 169                0   1   0   0   BB   PRT        Direct
## 170                0   2   1   0   BB   PRT        Direct
## 171                1   2   0   0   BB   PRT     Online TA
## 172                1   2   0   0   BB   USA     Online TA
```

```
## 173                  2       2       0       0       BB      GRC      Online TA
## 174                  3       2       0       0       HB      PRT      Online TA
## 175                  3       2       0       0       HB      PRT   Offline TA/TO
## 176                  3       2       0       0       BB      PRT      Online TA
## 177                  4       2       0       0       BB      PRT      Online TA
## 178                  4       2       0       0       HB      PRT         Direct
## 179                  5       2       0       0       HB      ESP      Online TA
## 180                  5       2       0       0       BB      PRT      Online TA
## 181                  5       2       2       0       HB      PRT      Online TA
## 182                  5       1       0       0       HB      PRT   Offline TA/TO
## 183                  5       2       0       0       HB      GBR   Offline TA/TO
## 184                  5       2       0       0       HB      PRT      Online TA
## 185                  7       2       0       0       BB      PRT      Online TA
## 186                  7       2       0       0       BB      GBR   Offline TA/TO
## 187                  7       2       0       0       BB      GBR   Offline TA/TO
## 188                  7       2       0       0       HB      PRT         Direct
## 189                  7       2       0       0       HB      GBR   Offline TA/TO
## 190                  8       1       0       0       BB      FRA         Direct
## 191                 10       2       0       0       BB      ITA   Offline TA/TO
## 192                 10       2       0       0       BB      GBR   Offline TA/TO
## 193                  5       2       0       0       BB      PRT   Offline TA/TO
## 194                  2       2       0       0       BB      PRT      Online TA
## 195                  3       2       0       0       BB      ESP      Online TA
## 196                  3       2       1       0       HB      PRT         Direct
## 197                  0       2       0       0       BB      PRT         Direct
## 198                  0       2       0       0       BB      PRT      Online TA
## 199                  1       1       0       0       BB      GBR      Online TA
## 200                  1       3       0       0       HB      PRT         Direct
## 201                  1       1       0       0       BB      GBR      Online TA
## 202                  4       3       2       0       BB      ESP      Online TA
## 203                  4       2       0       0       BB      PRT      Online TA
## 204                  4       3       0       0       HB      USA   Offline TA/TO
## 205                  4       2       0       0       BB      NLD         Direct
## 206                  5       2       0       0       HB      PRT   Offline TA/TO
## 207                  5       2       0       0       HB      PRT      Online TA
## 208                  5       2       0       0       BB      IRL   Offline TA/TO
## 209                  5       2       0       0       BB      PRT   Offline TA/TO
## 210                 10       2       0       0       HB      IRL   Offline TA/TO
## 211                  3       2       0       0       BB      GBR      Online TA
## 212                  4       2       0       0       BB      PRT      Online TA
## 213                  4       2       0       0       BB      ESP      Online TA
## 214                  4       2       0       0       BB      PRT      Online TA
## 215                  4       2       0       0       BB      ESP      Online TA
## 216                  4       2       0       0       BB      PRT   Offline TA/TO
## 217                  4       2       0       0       BB      PRT      Online TA
## 218                  1       1       0       0       BB      PRT   Offline TA/TO
## 219                  1       2       0       0       BB      PRT      Corporate
## 220                  1       2       0       0       BB      PRT      Corporate
## 221                  2       2       0       0       BB      CHE      Corporate
## 222                  4       2       0       0       BB      PRT         Direct
## 223                  4       2       0       0       BB      PRT         Direct
## 224                  5       2       1       0       HB      PRT   Offline TA/TO
## 225                  5       2       0       0       BB      GBR      Online TA
## 226                  5       2       0       0       HB      GBR   Offline TA/TO
```

```
## 227                 5    2    0    0    HB    PRT     Online TA
## 228                 6    3    0    0    BB    IRL        Direct
## 229                 7    3    0    0    BB    DNK     Online TA
## 230                 7    2    0    0    BB    DNK     Online TA
## 231                 1    2    2    0    BB    PRT     Online TA
## 232                 2    3    0    0    BB    ARG        Direct
## 233                 2    2    2    0    BB    PRT        Direct
## 234                 3    2    0    0    BB    PRT        Direct
## 235                 3    2    2    0    BB    PRT     Online TA
## 236                 3    2    2    0    BB    PRT     Online TA
## 237                 3    2    0    1    BB    PRT     Online TA
## 238                 3    2    0    0    BB    PRT     Online TA
## 239                 3    2    0    0    BB    PRT     Online TA
## 240                 3    1    0    0    BB    RUS        Direct
## 241                 3    2    0    0    BB    SWE     Online TA
## 242                 3    2    0    0    BB    POL Offline TA/TO
## 243                 5    2    0    0    BB    FRA Offline TA/TO
## 244                 5    2    0    0    BB    GBR Offline TA/TO
## 245                 5    2    0    0    BB    GBR Offline TA/TO
## 246                 5    2    0    0    HB    GBR Offline TA/TO
## 247                 5    2    0    0    HB    PRT     Online TA
## 248                 6    2    0    0    HB    PRT     Online TA
## 249                 1    2    0    0    BB    USA        Direct
## 250                 2    2    0    0    BB    PRT     Online TA
## 251                 2    2    0    0    BB    PRT     Online TA
## 252                 2    2    0    0    BB    PRT     Online TA
## 253                 2    2    0    0    BB    PRT     Online TA
## 254                 2    2    0    0    BB    PRT     Online TA
## 255                 2    2    1    0    HB    PRT     Online TA
## 256                 2    2    0    0    BB    PRT     Online TA
## 257                 2    2    0    0    BB    PRT     Online TA
## 258                 2    2    0    0    BB    GBR     Online TA
## 259                 2    2    0    0    BB    AUS        Direct
## 260                 2    2    0    0    BB    GBR     Online TA
## 261                 2    2    0    0    FB    PRT        Direct
## 262                 2    2    0    0    FB    PRT        Direct
## 263                 3    2    0    0    BB    PRT     Online TA
## 264                 3    2    0    0    BB    POL     Online TA
## 265                 3    2    0    2    HB    PRT        Direct
## 266                 3    2    2    0    BB    EST     Online TA
## 267                 5    2    0    0    HB    PRT     Online TA
## 268                 5    2    0    0    HB    PRT        Direct
## 269                 5    2    0    0    HB    PRT     Online TA
## 270                 5    2    0    0    HB    PRT     Online TA
## 271                 5    1    0    0    HB    RUS Offline TA/TO
## 272                 5    2    1    0    HB    GBR     Online TA
## 273                 5    2    1    1    FB    PRT Offline TA/TO
## 274                 6    3    1    0    BB    PRT        Direct
## 275                 7    2    0    0    BB    IRL     Online TA
## 276                 7    2    0    0    BB    PRT     Online TA
## 277                 7    2    0    1    BB    GBR     Online TA
## 278                 9    2    0    0    BB    DNK     Online TA
## 279                 5    2    1    0    HB    GBR     Online TA
## 280                 5    2    0    0    HB    GBR     Online TA
```

```
## 281                3      2      1      0    HB    PRT  Offline TA/TO
## 282                3      2      0      0    BB    ESP     Online TA
## 283                4      2      0      1    BB    PRT        Direct
## 284                4      2      0      0    BB    PRT     Online TA
## 285                4      3      0      0    HB    PRT  Offline TA/TO
## 286                4      2      0      0    BB    ESP     Online TA
## 287                5      2      0      0    BB    PRT        Direct
## 288                5      2      0      0    BB    PRT     Online TA
## 289                2      2      0      0    BB    GBR     Online TA
## 290                2      2      0      0    BB    PRT     Online TA
## 291                2      2      0      0    BB    CZE     Online TA
## 292                1      1      0      0    BB    GBR        Direct
## 293                1      2      0      0    HB    DEU     Online TA
## 294                1      2      0      0    BB    ESP        Direct
## 295                1      2      0      0    BB    ESP     Online TA
## 296                1      2      0      0    HB    PRT     Corporate
## 297                1      2      0      0    BB    ESP  Offline TA/TO
## 298                1      2      0      0    BB    ROU     Online TA
## 299                1      2      0      0    BB    PRT     Online TA
##      distribution_channel is_repeated_guest previous_cancellations
## 1                  Direct                 0                      0
## 2                  Direct                 0                      0
## 3                  Direct                 0                      0
## 4               Corporate                 0                      0
## 5                   TA/TO                 0                      0
## 6                   TA/TO                 0                      0
## 7                  Direct                 0                      0
## 8                  Direct                 0                      0
## 9                   TA/TO                 0                      0
## 10                  TA/TO                 0                      0
## 11                  TA/TO                 0                      0
## 12                  TA/TO                 0                      0
## 13                  TA/TO                 0                      0
## 14                  TA/TO                 0                      0
## 15                  TA/TO                 0                      0
## 16                  TA/TO                 0                      0
## 17                  TA/TO                 0                      0
## 18                  TA/TO                 0                      0
## 19              Corporate                 0                      0
## 20                 Direct                 0                      0
## 21                  TA/TO                 0                      0
## 22                 Direct                 0                      0
## 23                 Direct                 0                      0
## 24                 Direct                 0                      0
## 25                  TA/TO                 0                      0
## 26                  TA/TO                 0                      0
## 27                  TA/TO                 0                      0
## 28                  TA/TO                 0                      0
## 29                  TA/TO                 0                      0
## 30                  TA/TO                 0                      0
## 31                 Direct                 0                      0
## 32                  TA/TO                 0                      0
## 33                 Direct                 0                      0
## 34                  TA/TO                 0                      0
```

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

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

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

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

```
## 251                  TA/TO                0                       0
## 252                  TA/TO                0                       0
## 253                  TA/TO                0                       0
## 254                  TA/TO                0                       0
## 255                  TA/TO                0                       0
## 256                  TA/TO                0                       0
## 257                  TA/TO                0                       0
## 258                  TA/TO                0                       0
## 259                 Direct                0                       0
## 260                  TA/TO                0                       0
## 261                 Direct                0                       0
## 262                 Direct                0                       0
## 263                  TA/TO                0                       0
## 264                  TA/TO                0                       0
## 265                 Direct                0                       0
## 266                  TA/TO                0                       0
## 267                  TA/TO                0                       0
## 268                 Direct                0                       0
## 269                  TA/TO                0                       0
## 270                  TA/TO                0                       0
## 271                  TA/TO                0                       0
## 272                  TA/TO                0                       0
## 273                  TA/TO                0                       0
## 274                 Direct                0                       0
## 275                  TA/TO                0                       0
## 276                  TA/TO                0                       0
## 277                  TA/TO                0                       0
## 278                  TA/TO                0                       0
## 279                  TA/TO                0                       0
## 280                  TA/TO                0                       0
## 281                  TA/TO                0                       0
## 282                  TA/TO                0                       0
## 283                  TA/TO                0                       0
## 284                  TA/TO                0                       0
## 285                  TA/TO                0                       0
## 286                  TA/TO                0                       0
## 287                 Direct                0                       0
## 288                  TA/TO                0                       0
## 289                  TA/TO                0                       0
## 290                  TA/TO                0                       0
## 291                  TA/TO                0                       0
## 292                 Direct                0                       0
## 293                  TA/TO                0                       0
## 294                 Direct                0                       0
## 295                  TA/TO                0                       0
## 296              Corporate                0                       0
## 297                  TA/TO                0                       0
## 298                  TA/TO                0                       0
## 299                  TA/TO                0                       0
##     previous_bookings_not_canceled reserved_room_type assigned_room_type
## 1                                0                  C                  C
## 2                                0                  C                  C
## 3                                0                  A                  C
## 4                                0                  A                  A
```

73

## 5	0	A	A
## 6	0	A	A
## 7	0	C	C
## 8	0	C	C
## 9	0	A	A
## 10	0	D	D
## 11	0	E	E
## 12	0	D	D
## 13	0	D	E
## 14	0	G	G
## 15	0	E	E
## 16	0	D	E
## 17	0	E	E
## 18	0	A	E
## 19	0	A	G
## 20	0	G	G
## 21	0	F	F
## 22	0	A	A
## 23	0	A	A
## 24	0	D	D
## 25	0	D	I
## 26	0	D	D
## 27	0	D	D
## 28	0	E	E
## 29	0	A	A
## 30	0	D	D
## 31	0	A	A
## 32	0	D	D
## 33	0	E	E
## 34	0	A	C
## 35	0	D	D
## 36	0	D	D
## 37	0	A	C
## 38	0	D	D
## 39	0	D	D
## 40	0	E	E
## 41	0	G	G
## 42	0	D	D
## 43	0	F	F
## 44	0	E	E
## 45	0	A	A
## 46	0	G	G
## 47	0	A	A
## 48	0	E	E
## 49	0	A	B
## 50	0	E	F
## 51	0	D	D
## 52	0	A	A
## 53	0	D	D
## 54	0	A	C
## 55	0	H	H
## 56	0	C	C
## 57	0	H	H
## 58	0	A	D

```
## 59                     0                    G                    G
## 60                     0                    A                    C
## 61                     0                    G                    G
## 62                     0                    E                    E
## 63                     0                    F                    F
## 64                     0                    A                    C
## 65                     0                    A                    A
## 66                     0                    G                    H
## 67                     0                    A                    C
## 68                     0                    D                    D
## 69                     0                    A                    A
## 70                     0                    A                    A
## 71                     0                    D                    D
## 72                     0                    A                    A
## 73                     0                    A                    A
## 74                     0                    A                    A
## 75                     0                    A                    A
## 76                     0                    A                    A
## 77                     0                    E                    E
## 78                     0                    A                    A
## 79                     0                    A                    A
## 80                     0                    D                    D
## 81                     0                    A                    A
## 82                     0                    A                    A
## 83                     0                    A                    A
## 84                     0                    A                    A
## 85                     0                    E                    E
## 86                     0                    E                    E
## 87                     0                    F                    F
## 88                     0                    A                    A
## 89                     0                    A                    C
## 90                     0                    A                    C
## 91                     0                    A                    C
## 92                     0                    E                    E
## 93                     0                    C                    C
## 94                     0                    A                    A
## 95                     0                    A                    A
## 96                     0                    A                    A
## 97                     0                    F                    F
## 98                     0                    E                    E
## 99                     0                    D                    D
## 100                    0                    E                    E
## 101                    0                    A                    C
## 102                    0                    D                    D
## 103                    0                    F                    F
## 104                    0                    A                    C
## 105                    0                    E                    E
## 106                    0                    H                    H
## 107                    0                    D                    D
## 108                    0                    A                    A
## 109                    0                    A                    A
## 110                    0                    A                    A
## 111                    0                    D                    D
## 112                    0                    E                    F
```

```
## 113                        0                    A                    A
## 114                        0                    E                    E
## 115                        0                    E                    E
## 116                        0                    A                    A
## 117                        0                    D                    D
## 118                        0                    D                    D
## 119                        0                    D                    D
## 120                        0                    H                    G
## 121                        0                    D                    C
## 122                        0                    A                    A
## 123                        0                    E                    G
## 124                        0                    A                    A
## 125                        0                    D                    D
## 126                        0                    H                    H
## 127                        0                    E                    E
## 128                        0                    A                    C
## 129                        0                    A                    A
## 130                        0                    A                    A
## 131                        0                    A                    C
## 132                        0                    A                    C
## 133                        0                    D                    D
## 134                        0                    A                    C
## 135                        0                    A                    A
## 136                        0                    A                    D
## 137                        0                    A                    E
## 138                        0                    A                    A
## 139                        0                    D                    D
## 140                        0                    G                    G
## 141                        0                    G                    G
## 142                        0                    D                    E
## 143                        0                    D                    D
## 144                        0                    A                    D
## 145                        0                    E                    E
## 146                        0                    E                    E
## 147                        0                    H                    H
## 148                        0                    A                    A
## 149                        0                    H                    H
## 150                        0                    D                    D
## 151                        0                    C                    C
## 152                        0                    F                    F
## 153                        0                    A                    A
## 154                        0                    E                    E
## 155                        0                    H                    H
## 156                        0                    D                    D
## 157                        0                    D                    C
## 158                        0                    D                    D
## 159                        0                    A                    A
## 160                        0                    D                    D
## 161                        0                    G                    G
## 162                        0                    A                    C
## 163                        0                    G                    G
## 164                        0                    D                    D
## 165                        0                    G                    G
## 166                        0                    D                    E
```

```
## 167                          0                    G                    G
## 168                          0                    A                    H
## 169                          0                    E                    H
## 170                          0                    A                    E
## 171                          0                    A                    E
## 172                          0                    D                    F
## 173                          0                    D                    D
## 174                          0                    E                    E
## 175                          0                    A                    E
## 176                          0                    A                    C
## 177                          0                    E                    E
## 178                          0                    F                    F
## 179                          0                    A                    C
## 180                          0                    E                    E
## 181                          0                    G                    G
## 182                          0                    A                    A
## 183                          0                    A                    A
## 184                          0                    A                    C
## 185                          0                    D                    D
## 186                          0                    A                    A
## 187                          0                    D                    D
## 188                          0                    F                    F
## 189                          0                    D                    D
## 190                          0                    A                    A
## 191                          0                    D                    D
## 192                          0                    A                    A
## 193                          0                    D                    D
## 194                          0                    A                    A
## 195                          0                    A                    A
## 196                          0                    F                    F
## 197                          0                    A                    A
## 198                          0                    A                    E
## 199                          0                    A                    A
## 200                          0                    C                    C
## 201                          0                    A                    A
## 202                          0                    H                    H
## 203                          0                    D                    D
## 204                          0                    D                    E
## 205                          0                    A                    A
## 206                          0                    A                    A
## 207                          0                    E                    E
## 208                          0                    D                    D
## 209                          0                    A                    A
## 210                          0                    D                    D
## 211                          0                    E                    E
## 212                          0                    A                    A
## 213                          0                    A                    A
## 214                          0                    A                    A
## 215                          0                    D                    D
## 216                          0                    A                    A
## 217                          0                    A                    A
## 218                          0                    A                    A
## 219                          0                    A                    A
## 220                          0                    A                    A
```

## 221	0	A	F
## 222	0	A	A
## 223	0	E	E
## 224	0	D	D
## 225	0	E	F
## 226	0	D	D
## 227	0	E	E
## 228	0	A	A
## 229	0	E	E
## 230	0	E	E
## 231	0	C	C
## 232	0	A	C
## 233	0	H	G
## 234	0	D	D
## 235	0	C	C
## 236	0	G	G
## 237	0	A	A
## 238	0	A	A
## 239	0	A	A
## 240	0	A	A
## 241	0	A	A
## 242	0	A	A
## 243	0	A	D
## 244	0	A	A
## 245	0	E	E
## 246	0	E	E
## 247	0	A	A
## 248	0	A	A
## 249	0	A	A
## 250	0	A	A
## 251	0	A	A
## 252	0	A	A
## 253	0	A	A
## 254	0	A	A
## 255	0	G	G
## 256	0	D	D
## 257	0	A	A
## 258	0	C	C
## 259	0	A	C
## 260	0	E	E
## 261	0	F	F
## 262	0	F	F
## 263	0	E	E
## 264	0	A	A
## 265	0	C	C
## 266	0	G	G
## 267	0	A	A
## 268	0	D	D
## 269	0	D	D
## 270	0	E	E
## 271	0	E	E
## 272	0	F	F
## 273	0	C	C
## 274	0	C	C

```
## 275                                    0                    A              A
## 276                                    0                    D              D
## 277                                    0                    F              F
## 278                                    0                    C              C
## 279                                    0                    D              D
## 280                                    0                    F              F
## 281                                    0                    A              A
## 282                                    0                    A              A
## 283                                    0                    A              A
## 284                                    0                    E              E
## 285                                    0                    D              D
## 286                                    0                    A              A
## 287                                    0                    E              E
## 288                                    0                    A              A
## 289                                    0                    E              E
## 290                                    0                    E              E
## 291                                    0                    E              E
## 292                                    0                    A              A
## 293                                    0                    A              A
## 294                                    0                    G              G
## 295                                    0                    A              A
## 296                                    0                    A              A
## 297                                    0                    A              A
## 298                                    0                    C              C
## 299                                    0                    E              F
##      booking_changes deposit_type agent company days_in_waiting_list
## 1                  3   No Deposit  NULL    NULL                    0
## 2                  4   No Deposit  NULL    NULL                    0
## 3                  0   No Deposit  NULL    NULL                    0
## 4                  0   No Deposit   304    NULL                    0
## 5                  0   No Deposit   240    NULL                    0
## 6                  0   No Deposit   240    NULL                    0
## 7                  0   No Deposit  NULL    NULL                    0
## 8                  0   No Deposit   303    NULL                    0
## 9                  0   No Deposit   240    NULL                    0
## 10                 0   No Deposit    15    NULL                    0
## 11                 0   No Deposit   240    NULL                    0
## 12                 0   No Deposit   240    NULL                    0
## 13                 0   No Deposit   240    NULL                    0
## 14                 1   No Deposit   241    NULL                    0
## 15                 0   No Deposit   241    NULL                    0
## 16                 0   No Deposit   240    NULL                    0
## 17                 0   No Deposit     8    NULL                    0
## 18                 0   No Deposit   240    NULL                    0
## 19                 0   No Deposit  NULL     110                    0
## 20                 0   No Deposit   250    NULL                    0
## 21                 0   No Deposit   241    NULL                    0
## 22                 1   No Deposit   250    NULL                    0
## 23                 1   No Deposit   250    NULL                    0
## 24                 1   No Deposit   250    NULL                    0
## 25                 0   No Deposit   115    NULL                    0
## 26                 0   No Deposit     5    NULL                    0
## 27                 0   No Deposit     8    NULL                    0
## 28                 0   No Deposit   240    NULL                    0
```

```
## 29                0    No Deposit   240    NULL                     0
## 30                0    No Deposit   240    NULL                     0
## 31                2    No Deposit   NULL   NULL                     0
## 32                0    No Deposit   241    NULL                     0
## 33                0    No Deposit   NULL   NULL                     0
## 34                0    No Deposit   175    NULL                     0
## 35                0    No Deposit   241    NULL                     0
## 36                0    No Deposit   241    NULL                     0
## 37                0    No Deposit   240    NULL                     0
## 38                0    No Deposit   241    NULL                     0
## 39                0    No Deposit   241    NULL                     0
## 40                0    No Deposit   250    NULL                     0
## 41                0    No Deposit   241    NULL                     0
## 42                0    No Deposit     8    NULL                     0
## 43                0    No Deposit   NULL   NULL                     0
## 44                0    No Deposit   250    NULL                     0
## 45                0    No Deposit   240    NULL                     0
## 46                0    No Deposit   240    NULL                     0
## 47                0    No Deposit   134    NULL                     0
## 48                0    No Deposit   156    NULL                     0
## 49                1    No Deposit   243    NULL                     0
## 50                1    No Deposit   241    NULL                     0
## 51                0    No Deposit   156    NULL                     0
## 52                0    No Deposit   156    NULL                     0
## 53                0    No Deposit   243    NULL                     0
## 54                0    No Deposit   240    NULL                     0
## 55                0    No Deposit   240    NULL                     0
## 56                0    No Deposit   NULL   NULL                     0
## 57                0    No Deposit   NULL   NULL                     0
## 58                0    No Deposit   240    NULL                     0
## 59                0    No Deposit   NULL   NULL                     0
## 60                0    No Deposit   242    NULL                     0
## 61                0    No Deposit   241    NULL                     0
## 62                0    No Deposit   240    NULL                     0
## 63                0    No Deposit   250    NULL                     0
## 64                0    No Deposit   115    NULL                     0
## 65                0    No Deposit   240    NULL                     0
## 66                0    No Deposit   240    NULL                     0
## 67                0    No Deposit   240    NULL                     0
## 68                0    No Deposit   242    NULL                     0
## 69                0    No Deposit   242    NULL                     0
## 70                0    No Deposit   240    NULL                     0
## 71                0    No Deposit   240    NULL                     0
## 72                0    No Deposit   240    NULL                     0
## 73                0    No Deposit     3    NULL                     0
## 74                0    No Deposit   240    NULL                     0
## 75                0    No Deposit   242    NULL                     0
## 76                0    No Deposit   240    NULL                     0
## 77                0    No Deposit   240    NULL                     0
## 78                0    No Deposit   240    NULL                     0
## 79                0    No Deposit   105    NULL                     0
## 80                0    No Deposit     5    NULL                     0
## 81                0    No Deposit    40    NULL                     0
## 82                0    No Deposit    40    NULL                     0
```

```
## 83              0  No Deposit   40   NULL                    0
## 84              2  No Deposit  250   NULL                    0
## 85              0  No Deposit  115   NULL                    0
## 86              0  No Deposit   40   NULL                    0
## 87              1  No Deposit  241   NULL                    0
## 88              0  No Deposit  242   NULL                    0
## 89              0  No Deposit  240   NULL                    0
## 90              0  No Deposit  240   NULL                    0
## 91              0  No Deposit  240   NULL                    0
## 92              0  No Deposit  240   NULL                    0
## 93              0  No Deposit  241   NULL                    0
## 94              0  No Deposit  240   NULL                    0
## 95              0  No Deposit  240   NULL                    0
## 96              0  No Deposit  240   NULL                    0
## 97              0  No Deposit  242   NULL                    0
## 98              0  No Deposit  105   NULL                    0
## 99              0  No Deposit  240   NULL                    0
## 100             0  No Deposit  250   NULL                    0
## 101             0  No Deposit  250   NULL                    0
## 102             0  No Deposit    8   NULL                    0
## 103             0  No Deposit  241   NULL                    0
## 104             0  No Deposit  240   NULL                    0
## 105             0  No Deposit  240   NULL                    0
## 106             0  No Deposit  240   NULL                    0
## 107             0  No Deposit  250   NULL                    0
## 108             0  No Deposit  240   NULL                    0
## 109             0  No Deposit  134   NULL                    0
## 110             0  No Deposit  240   NULL                    0
## 111             0  No Deposit  240   NULL                    0
## 112             0  No Deposit  240   NULL                    0
## 113             0  No Deposit  147   NULL                    0
## 114             0  No Deposit  241   NULL                    0
## 115             0  No Deposit  240   NULL                    0
## 116             0  No Deposit  240   NULL                    0
## 117             0  No Deposit   40   NULL                    0
## 118             0  No Deposit   40   NULL                    0
## 119             1  No Deposit  250   NULL                    0
## 120             1  No Deposit  240   NULL                    0
## 121             0  No Deposit    8   NULL                    0
## 122             0  No Deposit  240   NULL                    0
## 123             1  No Deposit  250   NULL                    0
## 124             0  No Deposit  240   NULL                    0
## 125             0  No Deposit  240   NULL                    0
## 126             2  No Deposit  NULL  NULL                    0
## 127             0  No Deposit  240   NULL                    0
## 128             0  No Deposit  240   NULL                    0
## 129             0  No Deposit  240   NULL                    0
## 130             0  No Deposit  240   NULL                    0
## 131             0  No Deposit  240   NULL                    0
## 132             0  No Deposit  240   NULL                    0
## 133             0  No Deposit  240   NULL                    0
## 134             1  No Deposit  306   NULL                    0
## 135             0  No Deposit  184   NULL                    0
## 136             0  No Deposit  240   NULL                    0
```

```
## 137                0  No Deposit   240    NULL                  0
## 138                0  No Deposit   184    NULL                  0
## 139                0  No Deposit   240    NULL                  0
## 140                0  No Deposit  NULL    NULL                  0
## 141                3  No Deposit   240    NULL                  0
## 142                0  No Deposit   240    NULL                  0
## 143                0  No Deposit   240    NULL                  0
## 144                0  No Deposit   241    NULL                  0
## 145                0  No Deposit   240    NULL                  0
## 146                0  No Deposit   240    NULL                  0
## 147                0  No Deposit   240    NULL                  0
## 148                0  No Deposit   240    NULL                  0
## 149                0  No Deposit   240    NULL                  0
## 150                0  No Deposit    15    NULL                  0
## 151                1  No Deposit   250    NULL                  0
## 152                0  No Deposit   241    NULL                  0
## 153                0  No Deposit   240    NULL                  0
## 154                0  No Deposit   175    NULL                  0
## 155                1  No Deposit   240    NULL                  0
## 156                0  No Deposit     5    NULL                  0
## 157                3  No Deposit  NULL    NULL                  0
## 158                0  No Deposit    40    NULL                  0
## 159                0  No Deposit    40    NULL                  0
## 160                0  No Deposit   243    NULL                  0
## 161                1  No Deposit   240    NULL                  0
## 162                0  No Deposit   240    NULL                  0
## 163                0  No Deposit   241    NULL                  0
## 164                0  No Deposit    96    NULL                  0
## 165                0  No Deposit   250    NULL                  0
## 166                1  No Deposit   240    NULL                  0
## 167                0  No Deposit   241    NULL                  0
## 168                0  No Deposit   240    NULL                  0
## 169                0  No Deposit   250    NULL                  0
## 170                0  No Deposit  NULL    NULL                  0
## 171                0  No Deposit   240    NULL                  0
## 172                0  No Deposit   240    NULL                  0
## 173                0  No Deposit   240    NULL                  0
## 174                0  No Deposit   240    NULL                  0
## 175                0  No Deposit   175    NULL                  0
## 176                1  No Deposit   240    NULL                  0
## 177                0  No Deposit   240    NULL                  0
## 178                0  No Deposit   250    NULL                  0
## 179                0  No Deposit   240    NULL                  0
## 180                1  No Deposit   240    NULL                  0
## 181                0  No Deposit   240    NULL                  0
## 182                0  No Deposit   175    NULL                  0
## 183                0  No Deposit     2    NULL                  0
## 184                0  No Deposit   240    NULL                  0
## 185                0  No Deposit   240    NULL                  0
## 186                0  No Deposit   242    NULL                  0
## 187                1  No Deposit   241    NULL                  0
## 188                5  No Deposit   250    NULL                  0
## 189                0  No Deposit   156    NULL                  0
## 190                1  No Deposit  NULL    NULL                  0
```

```
## 191                0   No Deposit      8   NULL                          0
## 192                0   No Deposit     40   NULL                          0
## 193                0   No Deposit    127   NULL                          0
## 194                0   No Deposit    240   NULL                          0
## 195                0   No Deposit    240   NULL                          0
## 196                0   No Deposit    250   NULL                          0
## 197                0   No Deposit   NULL   NULL                          0
## 198                0   No Deposit    240   NULL                          0
## 199                0   No Deposit    240   NULL                          0
## 200                0   No Deposit   NULL   NULL                          0
## 201                0   No Deposit    240   NULL                          0
## 202                2   No Deposit    240   NULL                          0
## 203                0   No Deposit    240   NULL                          0
## 204                0   No Deposit     95   NULL                          0
## 205                2   No Deposit   NULL   NULL                          0
## 206                0   No Deposit    134   NULL                          0
## 207                0   No Deposit    240   NULL                          0
## 208                0   No Deposit      8   NULL                          0
## 209                0   No Deposit      2   NULL                          0
## 210                0   No Deposit    156   NULL                          0
## 211                0   No Deposit    240   NULL                          0
## 212                0   No Deposit    240   NULL                          0
## 213                0   No Deposit    240   NULL                          0
## 214                0   No Deposit    240   NULL                          0
## 215                0   No Deposit    240   NULL                          0
## 216                0   No Deposit    105   NULL                          0
## 217                0   No Deposit    240   NULL                          0
## 218                0   No Deposit    146   NULL                          0
## 219                0   No Deposit   NULL    110                          0
## 220                0   No Deposit   NULL    110                          0
## 221                0   No Deposit   NULL    110                          0
## 222                0   No Deposit      9   NULL                          0
## 223                1   No Deposit    250   NULL                          0
## 224                0   No Deposit     40   NULL                          0
## 225                0   No Deposit    240   NULL                          0
## 226                0   No Deposit     40   NULL                          0
## 227                0   No Deposit    240   NULL                          0
## 228                0   No Deposit    250   NULL                          0
## 229                1   No Deposit    240   NULL                          0
## 230                0   No Deposit    240   NULL                          0
## 231                0   No Deposit    242   NULL                          0
## 232                0   No Deposit    250   NULL                          0
## 233                2   No Deposit   NULL   NULL                          0
## 234                0   No Deposit    250   NULL                          0
## 235                0   No Deposit    242   NULL                          0
## 236                0   No Deposit    240   NULL                          0
## 237                0   No Deposit    240   NULL                          0
## 238                0   No Deposit    240   NULL                          0
## 239                0   No Deposit    240   NULL                          0
## 240                0   No Deposit    250   NULL                          0
## 241                0   No Deposit    241   NULL                          0
## 242                0   No Deposit    177   NULL                          0
## 243                0   No Deposit      6   NULL                          0
## 244                0   No Deposit     40   NULL                          0
```

```
## 245                   0   No Deposit   143   NULL                    0
## 246                   0   No Deposit    40   NULL                    0
## 247                   0   No Deposit   240   NULL                    0
## 248                   0   No Deposit   240   NULL                    0
## 249                   0   No Deposit   250   NULL                    0
## 250                   0   No Deposit   240   NULL                    0
## 251                   0   No Deposit   240   NULL                    0
## 252                   0   No Deposit   240   NULL                    0
## 253                   0   No Deposit   240   NULL                    0
## 254                   0   No Deposit   240   NULL                    0
## 255                   2   No Deposit   240   NULL                    0
## 256                   1   No Deposit   240   NULL                    0
## 257                   0   No Deposit   240   NULL                    0
## 258                   0   No Deposit   105   NULL                    0
## 259                   0   No Deposit   250   NULL                    0
## 260                   0   No Deposit   240   NULL                    0
## 261                   0   No Deposit  NULL   NULL                    0
## 262                   0   No Deposit  NULL   NULL                    0
## 263                   0   No Deposit   240   NULL                    0
## 264                   0   No Deposit   240   NULL                    0
## 265                   1   No Deposit   250   NULL                    0
## 266                   0   No Deposit   240   NULL                    0
## 267                   1   No Deposit   240   NULL                    0
## 268                   1   No Deposit   250   NULL                    0
## 269                   1   No Deposit   240   NULL                    0
## 270                   1   No Deposit   240   NULL                    0
## 271                   2   No Deposit   244   NULL                    0
## 272                   0   No Deposit   241   NULL                    0
## 273                   0   No Deposit     5   NULL                    0
## 274                   0   No Deposit   250   NULL                    0
## 275                   0   No Deposit   240   NULL                    0
## 276                   0   No Deposit   240   NULL                    0
## 277                   0   No Deposit   241   NULL                    0
## 278                   0   No Deposit   241   NULL                    0
## 279                   0   No Deposit   241   NULL                    0
## 280                   0   No Deposit   241   NULL                    0
## 281                   0   No Deposit   149   NULL                    0
## 282                   0   No Deposit   240   NULL                    0
## 283                   1   No Deposit   240   NULL                    0
## 284                   0   No Deposit   240   NULL                    0
## 285                   0   No Deposit    15   NULL                    0
## 286                   0   No Deposit   240   NULL                    0
## 287                   0   No Deposit   250   NULL                    0
## 288                   0   No Deposit   240   NULL                    0
## 289                   0   No Deposit   241   NULL                    0
## 290                   0   No Deposit   240   NULL                    0
## 291                   1   No Deposit   240   NULL                    0
## 292                   0   No Deposit  NULL   NULL                    0
## 293                   1   No Deposit   240   NULL                    0
## 294                   0   No Deposit  NULL   NULL                    0
## 295                   0   No Deposit   240   NULL                    0
## 296                   0   No Deposit  NULL    113                    0
## 297                   0   No Deposit   175   NULL                    0
## 298                   0   No Deposit   242   NULL                    0
```

```
## 299                0   No Deposit    240      NULL                          0
##         customer_type    adr required_car_parking_spaces
## 1          Transient   0.00                            0
## 2          Transient   0.00                            0
## 3          Transient  75.00                            0
## 4          Transient  75.00                            0
## 5          Transient  98.00                            0
## 6          Transient  98.00                            0
## 7          Transient 107.00                            0
## 8          Transient 103.00                            0
## 9          Transient  82.00                            0
## 10         Transient 105.50                            0
## 11         Transient 123.00                            0
## 12         Transient 145.00                            0
## 13         Transient  97.00                            0
## 14         Transient 154.77                            0
## 15         Transient  94.71                            0
## 16         Transient  97.00                            0
## 17          Contract  97.50                            0
## 18         Transient  88.20                            0
## 19         Transient 107.42                            0
## 20         Transient 153.00                            0
## 21         Transient  97.29                            0
## 22         Transient  84.67                            0
## 23         Transient  84.67                            0
## 24         Transient  99.67                            0
## 25          Contract  94.95                            0
## 26         Transient  63.60                            1
## 27          Contract  79.50                            0
## 28         Transient 107.00                            0
## 29         Transient  94.00                            0
## 30         Transient  87.30                            1
## 31         Transient  62.00                            0
## 32         Transient  63.86                            0
## 33         Transient 108.30                            0
## 34         Transient  65.50                            0
## 35         Transient 108.80                            0
## 36         Transient 108.80                            0
## 37         Transient  98.00                            0
## 38         Transient 108.80                            0
## 39         Transient 108.80                            0
## 40         Transient 137.00                            0
## 41         Transient 117.81                            0
## 42          Contract  79.50                            0
## 43         Transient 123.00                            0
## 44         Transient 137.00                            0
## 45         Transient 110.70                            0
## 46         Transient 153.00                            0
## 47         Transient  58.95                            0
## 48   Transient-Party  82.88                            0
## 49          Contract  82.35                            0
## 50         Transient 119.35                            0
## 51   Transient-Party  67.58                            0
## 52          Contract  56.01                            0
```

```
## 53           Contract 110.70                    0
## 54           Transient  88.20                    1
## 55           Transient 147.00                    1
## 56           Transient 107.00                    1
## 57           Transient 147.00                    0
## 58           Transient 117.90                    0
## 59           Transient 123.00                    0
## 60           Transient  98.00                    0
## 61           Transient 117.81                    0
## 62           Transient 135.00                    1
## 63           Transient 133.00                    0
## 64           Contract  58.95                    0
## 65           Transient 136.33                    0
## 66           Transient 153.00                    1
## 67           Transient 110.50                    0
## 68           Transient  97.00                    0
## 69           Transient 110.30                    0
## 70           Transient  82.00                    0
## 71           Transient  97.00                    0
## 72           Transient  73.80                    0
## 73           Transient  91.50                    0
## 74           Transient 114.50                    0
## 75           Transient 110.30                    0
## 76           Transient  90.90                    1
## 77           Transient 123.00                    0
## 78           Transient 122.00                    0
## 79           Transient 110.70                    1
## 80           Transient  85.86                    0
## 81           Contract  58.95                    0
## 82           Contract  55.68                    0
## 83           Contract  55.68                    0
## 84           Transient 124.00                    0
## 85           Contract 111.15                    0
## 86           Contract 134.73                    0
## 87           Transient  92.45                    0
## 88           Transient 108.73                    0
## 89           Transient  73.80                    0
## 90           Transient  98.00                    1
## 91           Transient 131.00                    0
## 92           Transient 123.00                    0
## 93           Transient  94.71                    0
## 94           Transient 123.00                    0
## 95           Transient 123.00                    0
## 96           Transient  73.80                    0
## 97           Transient 117.00                    0
## 98           Transient 196.54                    0
## 99           Transient  99.30                    1
## 100          Transient  90.95                    0
## 101          Transient  92.67                    0
## 102          Transient  71.55                    1
## 103          Transient  96.49                    0
## 104          Transient  85.80                    1
## 105          Transient  96.30                    0
## 106          Transient 163.00                    0
```

```
## 107          Transient 172.00                           0
## 108          Transient 110.70                           0
## 109          Transient  58.95                           0
## 110          Transient  73.80                           0
## 111          Transient  97.00                           0
## 112          Transient 139.00                           0
## 113          Transient  67.24                           0
## 114          Transient 116.50                           0
## 115          Transient  96.30                           0
## 116          Transient 123.00                           0
## 117           Contract  71.55                           0
## 118           Contract  71.55                           0
## 119          Transient 149.00                           0
## 120          Transient 163.00                           1
## 121           Contract  79.50                           0
## 122          Transient 105.00                           0
## 123          Transient 123.00                           0
## 124          Transient  73.80                           0
## 125          Transient 113.00                           0
## 126          Transient   0.00                           0
## 127          Transient 123.00                           0
## 128    Transient-Party  73.80                           1
## 129          Transient 114.50                           0
## 130    Transient-Party  73.80                           0
## 131    Transient-Party  73.80                           0
## 132          Transient  88.20                           0
## 133          Transient  97.00                           0
## 134          Transient  85.10                           0
## 135          Transient  89.00                           0
## 136          Transient  80.10                           0
## 137          Transient  98.00                           0
## 138          Transient 101.00                           1
## 139          Transient  97.00                           0
## 140          Transient 167.00                           0
## 141          Transient 225.00                           2
## 142          Transient  97.00                           1
## 143          Transient  87.30                           0
## 144          Transient  85.59                           1
## 145          Transient 123.00                           0
## 146          Transient 107.00                           0
## 147          Transient 163.00                           0
## 148          Transient  82.00                           0
## 149          Transient 163.00                           0
## 150          Transient 105.50                           0
## 151          Transient 164.20                           1
## 152          Transient  97.29                           0
## 153          Transient 114.00                           0
## 154          Transient  98.40                           0
## 155          Transient 175.00                           1
## 156          Transient  63.60                           1
## 157          Transient 124.45                           1
## 158           Contract 110.70                           0
## 159           Contract  74.07                           0
## 160           Contract 134.10                           0
```

```
## 161        Transient 167.00                    0
## 162        Transient 123.00                    0
## 163        Transient 117.81                    1
## 164        Transient 171.32                    0
## 165        Transient 210.00                    1
## 166        Transient  97.00                    0
## 167        Transient 117.81                    0
## 168        Transient   0.00                    0
## 169        Transient   0.00                    0
## 170        Transient 131.00                    0
## 171        Transient  98.00                    0
## 172        Transient  87.30                    1
## 173        Transient  97.00                    0
## 174        Transient 167.00                    0
## 175        Transient  91.50                    0
## 176        Transient  73.80                    0
## 177        Transient 123.00                    0
## 178        Transient 175.00                    1
## 179        Transient 117.80                    1
## 180        Transient 117.63                    0
## 181        Transient 185.00                    0
## 182        Transient  71.00                    0
## 183         Contract  47.25                    0
## 184        Transient 151.00                    0
## 185        Transient  87.30                    0
## 186        Transient 120.60                    0
## 187        Transient  63.86                    0
## 188        Transient 157.10                    0
## 189         Contract  91.37                    0
## 190        Transient  73.00                    0
## 191         Contract 110.70                    0
## 192         Contract  93.60                    0
## 193        Transient  83.50                    0
## 194        Transient  73.80                    0
## 195        Transient  82.00                    1
## 196        Transient 185.50                    0
## 197        Transient   0.00                    0
## 198        Transient   0.00                    0
## 199        Transient 109.80                    0
## 200        Transient 195.00                    1
## 201        Transient 109.80                    0
## 202        Transient 193.00                    0
## 203        Transient  97.00                    0
## 204        Transient 150.00                    0
## 205        Transient  98.00                    0
## 206        Transient  91.50                    0
## 207        Transient 139.00                    0
## 208        Transient  79.50                    0
## 209         Contract  47.25                    0
## 210         Contract 126.65                    0
## 211        Transient 107.00                    0
## 212        Transient 131.00                    1
## 213        Transient 131.00                    1
## 214        Transient 123.00                    0
```

```
## 215          Transient 146.00                              0
## 216          Transient 110.70                              0
## 217          Transient  73.80                              0
## 218          Transient  61.00                              0
## 219          Transient 104.72                              0
## 220          Transient 104.72                              0
## 221          Transient 104.72                              1
## 222          Transient  66.42                              0
## 223          Transient  77.96                              1
## 224           Contract 112.00                              0
## 225          Transient 107.00                              0
## 226           Contract  89.68                              0
## 227          Transient 155.00                              0
## 228          Transient 112.00                              0
## 229 Transient-Party 130.10                                 0
## 230 Transient-Party 100.10                                 0
## 231          Transient 123.00                              0
## 232          Transient 124.00                              1
## 233          Transient 146.00                              1
## 234          Transient  97.00                              0
## 235          Transient 123.00                              0
## 236          Transient 153.00                              0
## 237          Transient  82.00                              0
## 238          Transient 105.08                              0
## 239          Transient  65.42                              0
## 240          Transient  98.00                              0
## 241          Transient  75.46                              1
## 242          Transient  65.50                              0
## 243          Transient  90.95                              0
## 244           Contract  93.60                              0
## 245           Contract 119.25                              0
## 246           Contract 134.73                              0
## 247          Transient 112.00                              0
## 248          Transient 118.13                              0
## 249          Transient 131.00                              0
## 250          Transient  88.20                              0
## 251          Transient  73.80                              0
## 252          Transient  98.00                              0
## 253          Transient 110.50                              0
## 254          Transient 131.00                              0
## 255          Transient 185.00                              1
## 256          Transient  87.30                              0
## 257          Transient  73.80                              0
## 258          Transient 120.00                              0
## 259          Transient  98.00                              0
## 260          Transient  96.30                              0
## 261 Transient-Party 197.00                                 0
## 262 Transient-Party 197.00                                 0
## 263          Transient 123.00                              0
## 264          Transient  82.00                              0
## 265          Transient 165.00                              1
## 266          Transient 149.40                              0
## 267          Transient 106.84                              1
## 268          Transient 161.00                              1
```

```
## 269        Transient 134.43                             0
## 270        Transient 144.43                             1
## 271        Transient 152.00                             0
## 272        Transient 125.54                             0
## 273        Transient 133.83                             0
## 274        Transient 159.75                             1
## 275        Transient 120.60                             0
## 276        Transient 112.20                             0
## 277        Transient 110.60                             0
## 278        Transient 105.90                             0
## 279        Transient  95.27                             0
## 280        Transient 108.83                             0
## 281        Transient 153.96                             0
## 282        Transient 120.60                             0
## 283        Transient  90.67                             0
## 284        Transient 126.67                             0
## 285        Transient 144.40                             0
## 286        Transient  99.50                             1
## 287        Transient 139.40                             0
## 288        Transient  73.80                             0
## 289        Transient  89.97                             0
## 290        Transient 123.00                             0
## 291        Transient 123.00                             0
## 292        Transient 123.00                             0
## 293        Transient 144.90                             0
## 294        Transient 153.00                             0
## 295        Transient 131.00                             0
## 296        Transient 100.00                             1
## 297        Transient  65.50                             0
## 298        Transient 123.00                             0
## 299        Transient 123.00                             0
##      total_of_special_requests reservation_status reservation_status_date
## 1                            0          Check-Out              01-07-2015
## 2                            0          Check-Out              01-07-2015
## 3                            0          Check-Out              02-07-2015
## 4                            0          Check-Out              02-07-2015
## 5                            1          Check-Out              03-07-2015
## 6                            1          Check-Out              03-07-2015
## 7                            0          Check-Out              03-07-2015
## 8                            1          Check-Out              03-07-2015
## 9                            1           Canceled              06-05-2015
## 10                           0           Canceled              22-04-2015
## 11                           0           Canceled              23-06-2015
## 12                           0          Check-Out              05-07-2015
## 13                           3          Check-Out              05-07-2015
## 14                           1          Check-Out              05-07-2015
## 15                           0          Check-Out              05-07-2015
## 16                           3          Check-Out              05-07-2015
## 17                           0          Check-Out              05-07-2015
## 18                           0          Check-Out              02-07-2015
## 19                           0          Check-Out              02-07-2015
## 20                           1          Check-Out              05-07-2015
## 21                           1          Check-Out              06-07-2015
## 22                           1          Check-Out              07-07-2015
```

```
## 23                    1        Check-Out        07-07-2015
## 24                    1        Check-Out        07-07-2015
## 25                    1        Check-Out        01-07-2015
## 26                    0        Check-Out        08-07-2015
## 27                    0        Check-Out        08-07-2015
## 28                    2         Canceled        11-05-2015
## 29                    0        Check-Out        08-07-2015
## 30                    1        Check-Out        08-07-2015
## 31                    2        Check-Out        15-07-2015
## 32                    0        Check-Out        16-07-2015
## 33                    2         Canceled        29-05-2015
## 34                    0        Check-Out        08-07-2015
## 35                    1         Canceled        19-05-2015
## 36                    1         Canceled        19-06-2015
## 37                    0        Check-Out        06-07-2015
## 38                    1        Check-Out        06-07-2015
## 39                    0         Canceled        23-05-2015
## 40                    1        Check-Out        07-07-2015
## 41                    0         Canceled        18-05-2015
## 42                    0        Check-Out        07-07-2015
## 43                    0        Check-Out        07-07-2015
## 44                    1        Check-Out        07-07-2015
## 45                    2        Check-Out        09-07-2015
## 46                    0         Canceled        02-06-2015
## 47                    1        Check-Out        09-07-2015
## 48                    2        Check-Out        09-07-2015
## 49                    0        Check-Out        09-07-2015
## 50                    1        Check-Out        09-07-2015
## 51                    2        Check-Out        09-07-2015
## 52                    0        Check-Out        13-07-2015
## 53                    0        Check-Out        16-07-2015
## 54                    0        Check-Out        03-07-2015
## 55                    0        Check-Out        03-07-2015
## 56                    2        Check-Out        03-07-2015
## 57                    0        Check-Out        03-07-2015
## 58                    2        Check-Out        03-07-2015
## 59                    0        Check-Out        03-07-2015
## 60                    1        Check-Out        04-07-2015
## 61                    0        Check-Out        04-07-2015
## 62                    2        Check-Out        04-07-2015
## 63                    1        Check-Out        05-07-2015
## 64                    0        Check-Out        05-07-2015
## 65                    2         Canceled        29-06-2015
## 66                    0        Check-Out        05-07-2015
## 67                    0        Check-Out        05-07-2015
## 68                    0        Check-Out        05-07-2015
## 69                    2         Canceled        16-06-2015
## 70                    2         Canceled        18-06-2015
## 71                    1         Canceled        03-07-2015
## 72                    1         Canceled        12-06-2015
## 73                    0        Check-Out        05-07-2015
## 74                    0        Check-Out        05-07-2015
## 75                    0         Canceled        09-06-2015
## 76                    0        Check-Out        06-07-2015
```

```
## 77                         0         Canceled    26-05-2015
## 78                         0        Check-Out    07-07-2015
## 79                         0        Check-Out    07-07-2015
## 80                         0        Check-Out    11-07-2015
## 81                         0        Check-Out    12-07-2015
## 82                         0         Canceled    19-05-2015
## 83                         0        Check-Out    13-07-2015
## 84                         1         Canceled    09-06-2015
## 85                         0        Check-Out    13-07-2015
## 86                         0        Check-Out    17-07-2015
## 87                         1        Check-Out    17-07-2015
## 88                         2         Canceled    15-04-2015
## 89                         0        Check-Out    04-07-2015
## 90                         2        Check-Out    04-07-2015
## 91                         1        Check-Out    04-07-2015
## 92                         0        Check-Out    04-07-2015
## 93                         0        Check-Out    04-07-2015
## 94                         2        Check-Out    04-07-2015
## 95                         1         Canceled    26-05-2015
## 96                         1         Canceled    29-06-2015
## 97                         1         Canceled    13-05-2015
## 98                         1        Check-Out    10-07-2015
## 99                         2        Check-Out    10-07-2015
## 100                        0        Check-Out    10-07-2015
## 101                        1        Check-Out    07-07-2015
## 102                        0        Check-Out    07-07-2015
## 103                        2        Check-Out    10-07-2015
## 104                        2        Check-Out    10-07-2015
## 105                        1        Check-Out    11-07-2015
## 106                        0         Canceled    09-06-2015
## 107                        1         Canceled    20-05-2015
## 108                        1         Canceled    22-04-2015
## 109                        1        Check-Out    11-07-2015
## 110                        2        Check-Out    11-07-2015
## 111                        2        Check-Out    11-07-2015
## 112                        2        Check-Out    11-07-2015
## 113                        0        Check-Out    11-07-2015
## 114                        1        Check-Out    12-07-2015
## 115                        1         Canceled    12-05-2015
## 116                        1        Check-Out    12-07-2015
## 117                        1        Check-Out    14-07-2015
## 118                        1        Check-Out    14-07-2015
## 119                        1        Check-Out    14-07-2015
## 120                        0        Check-Out    05-07-2015
## 121                        0        Check-Out    05-07-2015
## 122                        0         Canceled    29-05-2015
## 123                        0          No-Show    04-07-2015
## 124                        2         Canceled    13-05-2015
## 125                        0         Canceled    16-06-2015
## 126                        1        Check-Out    05-07-2015
## 127                        0        Check-Out    05-07-2015
## 128                        1        Check-Out    06-07-2015
## 129                        0        Check-Out    06-07-2015
## 130                        2        Check-Out    06-07-2015
```

```
## 131                   1        Check-Out     06-07-2015
## 132                   1        Check-Out     06-07-2015
## 133                   0         Canceled     01-07-2015
## 134                   0        Check-Out     06-07-2015
## 135                   0        Check-Out     06-07-2015
## 136                   0        Check-Out     06-07-2015
## 137                   0        Check-Out     06-07-2015
## 138                   0        Check-Out     06-07-2015
## 139                   0         Canceled     01-07-2015
## 140                   1        Check-Out     06-07-2015
## 141                   0        Check-Out     07-07-2015
## 142                   0        Check-Out     07-07-2015
## 143                   2        Check-Out     09-07-2015
## 144                   2        Check-Out     10-07-2015
## 145                   0        Check-Out     10-07-2015
## 146                   0        Check-Out     10-07-2015
## 147                   0        Check-Out     11-07-2015
## 148                   0        Check-Out     11-07-2015
## 149                   0         Canceled     17-06-2015
## 150                   0         Canceled     01-05-2015
## 151                   1        Check-Out     12-07-2015
## 152                   1        Check-Out     12-07-2015
## 153                   1         Canceled     30-03-2015
## 154                   0        Check-Out     12-07-2015
## 155                   1        Check-Out     14-07-2015
## 156                   2        Check-Out     15-07-2015
## 157                   1        Check-Out     15-07-2015
## 158                   0        Check-Out     16-07-2015
## 159                   0        Check-Out     19-07-2015
## 160                   0        Check-Out     19-07-2015
## 161                   0        Check-Out     11-07-2015
## 162                   2        Check-Out     10-07-2015
## 163                   2        Check-Out     10-07-2015
## 164                   1        Check-Out     10-07-2015
## 165                   0        Check-Out     10-07-2015
## 166                   2        Check-Out     10-07-2015
## 167                   2        Check-Out     10-07-2015
## 168                   2        Check-Out     06-07-2015
## 169                   0        Check-Out     06-07-2015
## 170                   0        Check-Out     07-07-2015
## 171                   2        Check-Out     08-07-2015
## 172                   1        Check-Out     08-07-2015
## 173                   1        Check-Out     09-07-2015
## 174                   0         Canceled     03-06-2015
## 175                   0        Check-Out     10-07-2015
## 176                   1        Check-Out     10-07-2015
## 177                   0        Check-Out     11-07-2015
## 178                   0        Check-Out     11-07-2015
## 179                   1        Check-Out     12-07-2015
## 180                   0        Check-Out     12-07-2015
## 181                   0        Check-Out     13-07-2015
## 182                   1         Canceled     26-06-2015
## 183                   0        Check-Out     13-07-2015
## 184                   1        Check-Out     14-07-2015
```

```
## 185                              0          Canceled      14-05-2015
## 186                              1         Check-Out      16-07-2015
## 187                              1         Check-Out      16-07-2015
## 188                              1         Check-Out      16-07-2015
## 189                              2         Check-Out      16-07-2015
## 190                              0         Check-Out      17-07-2015
## 191                              0         Check-Out      20-07-2015
## 192                              0         Check-Out      20-07-2015
## 193                              0         Check-Out      13-07-2015
## 194                              1          Canceled      07-05-2015
## 195                              2         Check-Out      10-07-2015
## 196                              1         Check-Out      10-07-2015
## 197                              1         Check-Out      07-07-2015
## 198                              1         Check-Out      07-07-2015
## 199                              3         Check-Out      08-07-2015
## 200                              0         Check-Out      08-07-2015
## 201                              3         Check-Out      08-07-2015
## 202                              1         Check-Out      11-07-2015
## 203                              2         Check-Out      11-07-2015
## 204                              1         Check-Out      11-07-2015
## 205                              0         Check-Out      11-07-2015
## 206                              0          Canceled      28-05-2015
## 207                              2          Canceled      13-04-2015
## 208                              0         Check-Out      14-07-2015
## 209                              0          Canceled      25-03-2015
## 210                              1         Check-Out      21-07-2015
## 211                              1         Check-Out      11-07-2015
## 212                              2         Check-Out      12-07-2015
## 213                              1         Check-Out      12-07-2015
## 214                              1          Canceled      28-05-2015
## 215                              1         Check-Out      12-07-2015
## 216                              1         Check-Out      12-07-2015
## 217                              1          Canceled      29-06-2015
## 218                              0         Check-Out      09-07-2015
## 219                              1          Canceled      08-07-2015
## 220                              1          Canceled      08-07-2015
## 221                              1         Check-Out      10-07-2015
## 222                              1          Canceled      28-05-2015
## 223                              1         Check-Out      14-07-2015
## 224                              1          Canceled      15-04-2015
## 225                              1         Check-Out      15-07-2015
## 226                              0         Check-Out      15-07-2015
## 227                              0         Check-Out      15-07-2015
## 228                              1         Check-Out      16-07-2015
## 229                              3         Check-Out      17-07-2015
## 230                              2         Check-Out      17-07-2015
## 231                              3         Check-Out      10-07-2015
## 232                              1         Check-Out      11-07-2015
## 233                              0         Check-Out      11-07-2015
## 234                              0          Canceled      02-06-2015
## 235                              1          Canceled      16-06-2015
## 236                              0          Canceled      16-06-2015
## 237                              2         Check-Out      12-07-2015
## 238                              0          Canceled      23-06-2015
```

```
## 239                          0              Canceled      27-06-2015
## 240                          1              Check-Out     13-07-2015
## 241                          1              Check-Out     14-07-2015
## 242                          0              Check-Out     14-07-2015
## 243                          0              Check-Out     16-07-2015
## 244                          0              Check-Out     16-07-2015
## 245                          0              Check-Out     16-07-2015
## 246                          0              Check-Out     16-07-2015
## 247                          1              Check-Out     16-07-2015
## 248                          2              Canceled      13-05-2015
## 249                          0              Check-Out     11-07-2015
## 250                          0              Check-Out     12-07-2015
## 251                          1              Check-Out     12-07-2015
## 252                          0              Check-Out     12-07-2015
## 253                          1              Check-Out     12-07-2015
## 254                          1              Check-Out     12-07-2015
## 255                          1              Check-Out     12-07-2015
## 256                          2              Check-Out     12-07-2015
## 257                          1              Check-Out     12-07-2015
## 258                          1              Check-Out     13-07-2015
## 259                          1              Check-Out     13-07-2015
## 260                          2              Check-Out     13-07-2015
## 261                          1              Check-Out     14-07-2015
## 262                          1              Check-Out     14-07-2015
## 263                          0              Canceled      29-06-2015
## 264                          2              Check-Out     15-07-2015
## 265                          3              Check-Out     15-07-2015
## 266                          0              Check-Out     15-07-2015
## 267                          2              Check-Out     17-07-2015
## 268                          1              Check-Out     17-07-2015
## 269                          2              Check-Out     17-07-2015
## 270                          2              Check-Out     17-07-2015
## 271                          0              Check-Out     17-07-2015
## 272                          3              Check-Out     17-07-2015
## 273                          2              Check-Out     17-07-2015
## 274                          0              Check-Out     18-07-2015
## 275                          2              Check-Out     19-07-2015
## 276                          0              Check-Out     20-07-2015
## 277                          0              Check-Out     21-07-2015
## 278                          0              Check-Out     23-07-2015
## 279                          3              Check-Out     17-07-2015
## 280                          1              Check-Out     17-07-2015
## 281                          0              Canceled      29-05-2015
## 282                          0              Check-Out     16-07-2015
## 283                          1              Check-Out     17-07-2015
## 284                          0              Canceled      08-06-2015
## 285                          1              Check-Out     17-07-2015
## 286                          2              Check-Out     17-07-2015
## 287                          1              Check-Out     18-07-2015
## 288                          1              Canceled      22-04-2015
## 289                          1              Check-Out     15-07-2015
## 290                          0              Check-Out     15-07-2015
## 291                          0              Check-Out     15-07-2015
## 292                          0              Check-Out     12-07-2015
```

```
## 293                    1          Check-Out              12-07-2015
## 294                    0          Check-Out              12-07-2015
## 295                    1          Check-Out              12-07-2015
## 296                    0          Check-Out              13-07-2015
## 297                    0          Check-Out              13-07-2015
## 298                    1          Check-Out              13-07-2015
## 299                    0          Check-Out              14-07-2015
```

```r
#Produces a boxplot
boxplot(mydata$adr)
```



```r
#List all values of a variable with frequencies
table(mydata$market_segment)
```

```
##
## Complementary       Corporate       Direct Offline TA/TO       Online TA
##             1               6           55           68             169
```

```r
#built-in R function that centers and/or scales the columns of a numeric matrix by default
scale(mydata$adr)
```

```
##                [,1]
##   [1,] -3.014749140
##   [2,] -3.014749140
```

```
##  [3,] -0.914581220
##  [4,] -0.914581220
##  [5,] -0.270529724
##  [6,] -0.270529724
##  [7,] -0.018509574
##  [8,] -0.130518529
##  [9,] -0.718565547
## [10,] -0.060512932
## [11,]  0.429526249
## [12,]  1.045575506
## [13,] -0.298531963
## [14,]  1.319157381
## [15,] -0.362657090
## [16,] -0.298531963
## [17,] -0.284530844
## [18,] -0.544951666
## [19,] -0.006748633
## [20,]  1.269593418
## [21,] -0.290411314
## [22,] -0.643799569
## [23,] -0.643799569
## [24,] -0.223765985
## [25,] -0.355936553
## [26,] -1.233806744
## [27,] -0.788571145
## [28,] -0.018509574
## [29,] -0.382538680
## [30,] -0.570153681
## [31,] -1.278610326
## [32,] -1.226526162
## [33,]  0.017893337
## [34,] -1.180602490
## [35,]  0.031894457
## [36,]  0.031894457
## [37,] -0.270529724
## [38,]  0.031894457
## [39,]  0.031894457
## [40,]  0.821557595
## [41,]  0.284194629
## [42,] -0.788571145
## [43,]  0.429526249
## [44,]  0.821557595
## [45,]  0.085098710
## [46,]  1.269593418
## [47,] -1.364017155
## [48,] -0.693923577
## [49,] -0.708764764
## [50,]  0.327318077
## [51,] -1.122357833
## [52,] -1.446343737
## [53,]  0.085098710
## [54,] -0.544951666
## [55,]  1.101579984
## [56,] -0.018509574
```

```
##  [57,]   1.101579984
##  [58,]   0.286714831
##  [59,]   0.429526249
##  [60,]  -0.270529724
##  [61,]   0.284194629
##  [62,]   0.765553117
##  [63,]   0.709548639
##  [64,]  -1.364017155
##  [65,]   0.802796095
##  [66,]   1.269593418
##  [67,]   0.079498263
##  [68,]  -0.298531963
##  [69,]   0.073897815
##  [70,]  -0.718565547
##  [71,]  -0.298531963
##  [72,]  -0.948183906
##  [73,]  -0.452544277
##  [74,]   0.191507218
##  [75,]   0.073897815
##  [76,]  -0.469345621
##  [77,]   0.429526249
##  [78,]   0.401524011
##  [79,]   0.085098710
##  [80,]  -0.610476905
##  [81,]  -1.364017155
##  [82,]  -1.455584476
##  [83,]  -1.455584476
##  [84,]   0.457528488
##  [85,]   0.097699718
##  [86,]   0.757992512
##  [87,]  -0.425942150
##  [88,]   0.029934300
##  [89,]  -0.948183906
##  [90,]  -0.270529724
##  [91,]   0.653544161
##  [92,]   0.429526249
##  [93,]  -0.362657090
##  [94,]   0.429526249
##  [95,]   0.429526249
##  [96,]  -0.948183906
##  [97,]   0.261512816
##  [98,]   2.488810901
##  [99,]  -0.234126813
## [100,]  -0.467945509
## [101,]  -0.419781658
## [102,]  -1.011188944
## [103,]  -0.312813105
## [104,]  -0.612157039
## [105,]  -0.318133530
## [106,]   1.549615807
## [107,]   1.801635958
## [108,]   0.085098710
## [109,]  -1.364017155
## [110,]  -0.948183906
```

```
## [111,] -0.298531963
## [112,]  0.877562073
## [113,] -1.131878594
## [114,]  0.247511696
## [115,] -0.318133530
## [116,]  0.429526249
## [117,] -1.011188944
## [118,] -1.011188944
## [119,]  1.157584462
## [120,]  1.549615807
## [121,] -0.788571145
## [122,] -0.074514051
## [123,]  0.429526249
## [124,] -0.948183906
## [125,]  0.149503860
## [126,] -3.014749140
## [127,]  0.429526249
## [128,] -0.948183906
## [129,]  0.191507218
## [130,] -0.948183906
## [131,] -0.948183906
## [132,] -0.544951666
## [133,] -0.298531963
## [134,] -0.631758606
## [135,] -0.522549875
## [136,] -0.771769801
## [137,] -0.270529724
## [138,] -0.186523007
## [139,] -0.298531963
## [140,]  1.661624763
## [141,]  3.285754622
## [142,] -0.298531963
## [143,] -0.570153681
## [144,] -0.618037509
## [145,]  0.429526249
## [146,] -0.018509574
## [147,]  1.549615807
## [148,] -0.718565547
## [149,]  1.549615807
## [150,] -0.060512932
## [151,]  1.583218494
## [152,] -0.290411314
## [153,]  0.177506099
## [154,] -0.259328828
## [155,]  1.885642674
## [156,] -1.233806744
## [157,]  0.470129496
## [158,]  0.085098710
## [159,] -0.940623302
## [160,]  0.740351102
## [161,]  1.661624763
## [162,]  0.429526249
## [163,]  0.284194629
## [164,]  1.782594435
```

```
## [165,]   2.865721037
## [166,]  -0.298531963
## [167,]   0.284194629
## [168,]  -3.014749140
## [169,]  -3.014749140
## [170,]   0.653544161
## [171,]  -0.270529724
## [172,]  -0.570153681
## [173,]  -0.298531963
## [174,]   1.661624763
## [175,]  -0.452544277
## [176,]  -0.948183906
## [177,]   0.429526249
## [178,]   1.885642674
## [179,]   0.283914607
## [180,]   0.279154226
## [181,]   2.165665064
## [182,]  -1.026590176
## [183,]  -1.691643350
## [184,]   1.213588940
## [185,]  -0.570153681
## [186,]   0.362320876
## [187,]  -1.226526162
## [188,]   1.384402597
## [189,]  -0.456184568
## [190,]  -0.970585698
## [191,]   0.085098710
## [192,]  -0.393739575
## [193,]  -0.676562189
## [194,]  -0.948183906
## [195,]  -0.718565547
## [196,]   2.179666183
## [197,]  -3.014749140
## [198,]  -3.014749140
## [199,]   0.059896695
## [200,]   2.445687453
## [201,]   0.059896695
## [202,]   2.389682975
## [203,]  -0.298531963
## [204,]   1.185586701
## [205,]  -0.270529724
## [206,]  -0.452544277
## [207,]   0.877562073
## [208,]  -0.788571145
## [209,]  -1.691643350
## [210,]   0.531734422
## [211,]  -0.018509574
## [212,]   0.653544161
## [213,]   0.653544161
## [214,]   0.429526249
## [215,]   1.073577745
## [216,]   0.085098710
## [217,]  -0.948183906
## [218,]  -1.306612565
```

```
## [219,] -0.082354678
## [220,] -0.082354678
## [221,] -0.082354678
## [222,] -1.154840430
## [223,] -0.831694592
## [224,]  0.121501621
## [225,] -0.018509574
## [226,] -0.503508352
## [227,]  1.325597896
## [228,]  0.121501621
## [229,]  0.628342146
## [230,] -0.211725022
## [231,]  0.429526249
## [232,]  0.457528488
## [233,]  1.073577745
## [234,] -0.298531963
## [235,]  0.429526249
## [236,]  1.269593418
## [237,] -0.718565547
## [238,] -0.072273872
## [239,] -1.182842669
## [240,] -0.270529724
## [241,] -0.901700190
## [242,] -1.180602490
## [243,] -0.467945509
## [244,] -0.393739575
## [245,]  0.324517853
## [246,]  0.757992512
## [247,]  0.121501621
## [248,]  0.293155346
## [249,]  0.653544161
## [250,] -0.544951666
## [251,] -0.948183906
## [252,] -0.270529724
## [253,]  0.079498263
## [254,]  0.653544161
## [255,]  2.165665064
## [256,] -0.570153681
## [257,] -0.948183906
## [258,]  0.345519533
## [259,] -0.270529724
## [260,] -0.318133530
## [261,]  2.501691931
## [262,]  2.501691931
## [263,]  0.429526249
## [264,] -0.718565547
## [265,]  1.605620285
## [266,]  1.168785358
## [267,] -0.022989932
## [268,]  1.493611329
## [269,]  0.749591841
## [270,]  1.029614230
## [271,]  1.241591179
## [272,]  0.500651936
```

```
## [273,]  0.732790497
## [274,]  1.458608531
## [275,]  0.362320876
## [276,]  0.127102069
## [277,]  0.082298487
## [278,] -0.049312036
## [279,] -0.346975836
## [280,]  0.032734524
## [281,]  1.296475567
## [282,]  0.362320876
## [283,] -0.475786136
## [284,]  0.532294466
## [285,]  1.028774163
## [286,] -0.228526366
## [287,]  0.888762968
## [288,] -0.948183906
## [289,] -0.495387703
## [290,]  0.429526249
## [291,]  0.429526249
## [292,]  0.429526249
## [293,]  1.042775282
## [294,]  1.269593418
## [295,]  0.653544161
## [296,] -0.214525246
## [297,] -1.180602490
## [298,]  0.429526249
## [299,]  0.429526249
## attr(,"scaled:center")
## [1] 107.661
## attr(,"scaled:scale")
## [1] 35.71143
```

```r
#Produces a boxplot
boxplot(mydata$arrival_date_year)
```
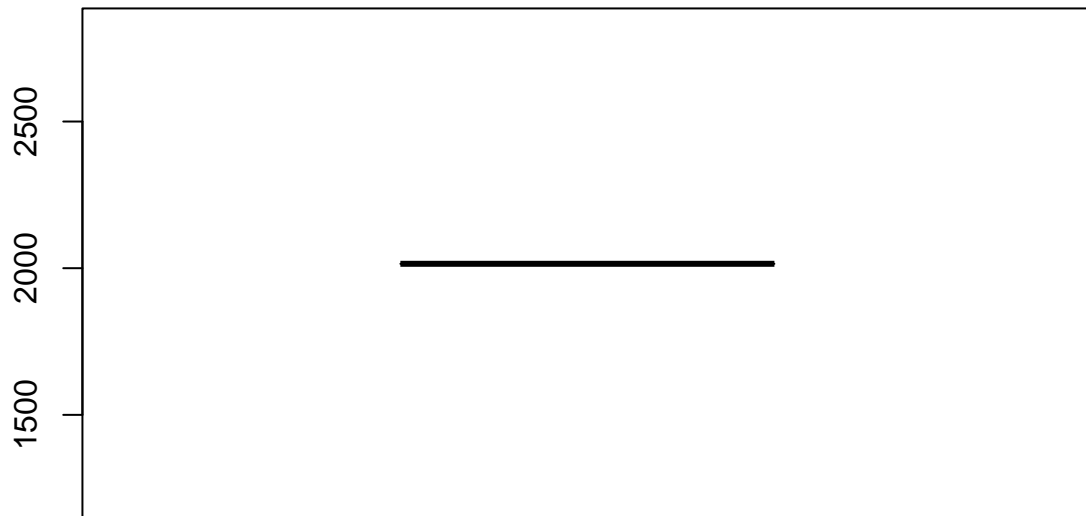
```r
#shows a list of objects that are available
ls()
```

```
## [1] "mydata"
```

```r
#shows a list of objects that are available with 'a
ls(pattern= 'a')
```

```
## [1] "mydata"
```

```r
#shows the variable names and types
str(mydata$company)
```

```
##  chr [1:299] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" ...
```

```r
#shows the distinct variable names and types
unique(mydata$company)
```

```
## [1] "NULL" "110"  "113"
```

##Analysing components of data

```r
#Gives no of rows
nrow(mydata)
```

```
## [1] 299
```

```r
#Gives no of columns
ncol(mydata)
```

```
## [1] 32
```

```r
cat("\nColumn:",ncol(mydata$Name))
```

```
##
## Column:
```

```r
cumsum(mydata$adr)
```

```
##    [1]     0.00     0.00    75.00   150.00   248.00   346.00   453.00   556.00
##    [9]   638.00   743.50   866.50  1011.50  1108.50  1263.27  1357.98  1454.98
##   [17]  1552.48  1640.68  1748.10  1901.10  1998.39  2083.06  2167.73  2267.40
##   [25]  2362.35  2425.95  2505.45  2612.45  2706.45  2793.75  2855.75  2919.61
##   [33]  3027.91  3093.41  3202.21  3311.01  3409.01  3517.81  3626.61  3763.61
##   [41]  3881.42  3960.92  4083.92  4220.92  4331.62  4484.62  4543.57  4626.45
##   [49]  4708.80  4828.15  4895.73  4951.74  5062.44  5150.64  5297.64  5404.64
##   [57]  5551.64  5669.54  5792.54  5890.54  6008.35  6143.35  6276.35  6335.30
##   [65]  6471.63  6624.63  6735.13  6832.13  6942.43  7024.43  7121.43  7195.23
##   [73]  7286.73  7401.23  7511.53  7602.43  7725.43  7847.43  7958.13  8043.99
##   [81]  8102.94  8158.62  8214.30  8338.30  8449.45  8584.18  8676.63  8785.36
##   [89]  8859.16  8957.16  9088.16  9211.16  9305.87  9428.87  9551.87  9625.67
##   [97]  9742.67  9939.21 10038.51 10129.46 10222.13 10293.68 10390.17 10475.97
##  [105] 10572.27 10735.27 10907.27 11017.97 11076.92 11150.72 11247.72 11386.72
##  [113] 11453.96 11570.46 11666.76 11789.76 11861.31 11932.86 12081.86 12244.86
##  [121] 12324.36 12429.36 12552.36 12626.16 12739.16 12739.16 12862.16 12935.96
##  [129] 13050.46 13124.26 13198.06 13286.26 13383.26 13468.36 13557.36 13637.46
##  [137] 13735.46 13836.46 13933.46 14100.46 14325.46 14422.46 14509.76 14595.35
##  [145] 14718.35 14825.35 14988.35 15070.35 15233.35 15338.85 15503.05 15600.34
##  [153] 15714.34 15812.74 15987.74 16051.34 16175.79 16286.49 16360.56 16494.66
##  [161] 16661.66 16784.66 16902.47 17073.79 17283.79 17380.79 17498.60 17498.60
##  [169] 17498.60 17629.60 17727.60 17814.90 17911.90 18078.90 18170.40 18244.20
##  [177] 18367.20 18542.20 18660.00 18777.63 18962.63 19033.63 19080.88 19231.88
##  [185] 19319.18 19439.78 19503.64 19660.74 19752.11 19825.11 19935.81 20029.41
##  [193] 20112.91 20186.71 20268.71 20454.21 20454.21 20454.21 20564.01 20759.01
##  [201] 20868.81 21061.81 21158.81 21308.81 21406.81 21498.31 21637.31 21716.81
##  [209] 21764.06 21890.71 21997.71 22128.71 22259.71 22382.71 22528.71 22639.41
##  [217] 22713.21 22774.21 22878.93 22983.65 23088.37 23154.79 23232.75 23344.75
##  [225] 23451.75 23541.43 23696.43 23808.43 23938.53 24038.63 24161.63 24285.63
##  [233] 24431.63 24528.63 24651.63 24804.63 24886.63 24991.71 25057.13 25155.13
##  [241] 25230.59 25296.09 25387.04 25480.64 25599.89 25734.62 25846.62 25964.75
##  [249] 26095.75 26183.95 26257.75 26355.75 26466.25 26597.25 26782.25 26869.55
##  [257] 26943.35 27063.35 27161.35 27257.65 27454.65 27651.65 27774.65 27856.65
##  [265] 28021.65 28171.05 28277.89 28438.89 28573.32 28717.75 28869.75 28995.29
```

```
## [273] 29129.12 29288.87 29409.47 29521.67 29632.27 29738.17 29833.44 29942.27
## [281] 30096.23 30216.83 30307.50 30434.17 30578.57 30678.07 30817.47 30891.27
## [289] 30981.24 31104.24 31227.24 31350.24 31495.14 31648.14 31779.14 31879.14
## [297] 31944.64 32067.64 32190.64
```

```
cumprod(mydata$`adr`)
```

```
##   [1] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [38] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [75] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [112] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [149] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [186] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [223] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [260] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [297] 0 0 0
```

```
cummax(mydata$arrival_date_year)
```

```
##   [1] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [16] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [31] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [46] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [61] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [76] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [91] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [106] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [121] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [136] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [151] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [166] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [181] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [196] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [211] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [226] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [241] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [256] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [271] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [286] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
```

```
cummin(mydata$arrival_date_year)
```

```
##   [1] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [16] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [31] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [46] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [61] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [76] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [91] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [106] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [121] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [136] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
```

```
## [151] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [166] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [181] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [196] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [211] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [226] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [241] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [256] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [271] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [286] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
```

```
rev(mydata$agent)
```

```
##   [1] "240"  "242"  "175"  "NULL" "240"  "NULL" "240"  "NULL" "240"  "240"
##  [11] "241"  "240"  "250"  "240"  "15"   "240"  "240"  "240"  "149"  "241"
##  [21] "241"  "241"  "241"  "240"  "240"  "250"  "5"    "241"  "244"  "240"
##  [31] "240"  "250"  "240"  "240"  "250"  "240"  "240"  "NULL" "NULL" "240"
##  [41] "250"  "105"  "240"  "240"  "240"  "240"  "240"  "240"  "240"  "240"
##  [51] "250"  "240"  "240"  "40"   "143"  "40"   "6"    "177"  "241"  "250"
##  [61] "240"  "240"  "240"  "240"  "242"  "250"  "NULL" "250"  "242"  "240"
##  [71] "240"  "250"  "240"  "40"   "240"  "40"   "250"  "9"    "NULL" "NULL"
##  [81] "NULL" "146"  "240"  "105"  "240"  "240"  "240"  "240"  "240"  "156"
##  [91] "2"    "8"    "240"  "134"  "NULL" "95"   "240"  "240"  "240"  "NULL"
## [101] "240"  "240"  "NULL" "250"  "240"  "240"  "127"  "40"   "8"    "NULL"
## [111] "156"  "250"  "241"  "242"  "240"  "240"  "2"    "175"  "240"  "240"
## [121] "240"  "250"  "240"  "240"  "175"  "240"  "240"  "240"  "240"  "NULL"
## [131] "250"  "240"  "241"  "240"  "250"  "96"   "241"  "240"  "240"  "243"
## [141] "40"   "40"   "NULL" "5"    "240"  "175"  "240"  "241"  "250"  "15"
## [151] "240"  "240"  "240"  "240"  "240"  "241"  "240"  "240"  "240"  "NULL"
## [161] "240"  "184"  "240"  "240"  "184"  "306"  "240"  "240"  "240"  "240"
## [171] "240"  "240"  "240"  "NULL" "240"  "240"  "250"  "240"  "8"    "240"
## [181] "250"  "40"   "40"   "240"  "240"  "241"  "147"  "240"  "240"  "240"
## [191] "134"  "240"  "250"  "240"  "240"  "240"  "241"  "8"    "250"  "250"
## [201] "240"  "105"  "242"  "240"  "240"  "240"  "241"  "240"  "240"  "240"
## [211] "240"  "242"  "241"  "40"   "115"  "250"  "40"   "40"   "40"   "5"
## [221] "105"  "240"  "240"  "240"  "242"  "240"  "3"    "240"  "240"  "240"
## [231] "242"  "242"  "240"  "240"  "240"  "115"  "250"  "240"  "241"  "242"
## [241] "NULL" "240"  "NULL" "NULL" "240"  "240"  "243"  "156"  "156"  "241"
## [251] "243"  "156"  "134"  "240"  "240"  "250"  "NULL" "8"    "241"  "250"
## [261] "241"  "241"  "240"  "241"  "241"  "175"  "NULL" "241"  "NULL" "240"
## [271] "240"  "240"  "8"    "5"    "115"  "250"  "250"  "250"  "241"  "250"
## [281] "NULL" "240"  "8"    "240"  "241"  "241"  "240"  "240"  "240"  "15"
## [291] "240"  "303"  "NULL" "240"  "240"  "304"  "NULL" "NULL" "NULL"
```

```
#Produces a boxplot
boxplot(mydata$previous_cancellations)
```
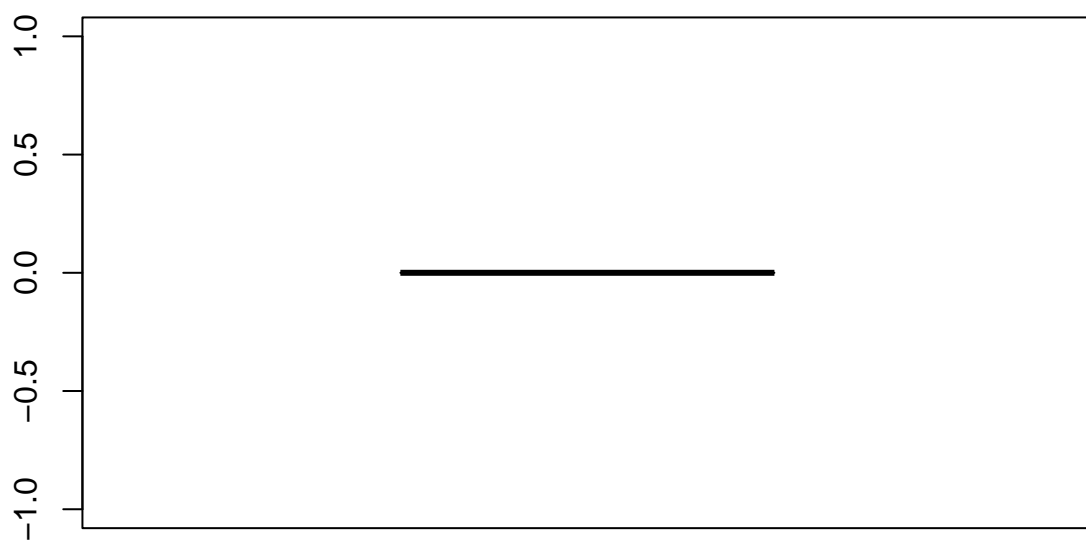
```
#Produces a boxplot
boxplot(mydata$adults)
```
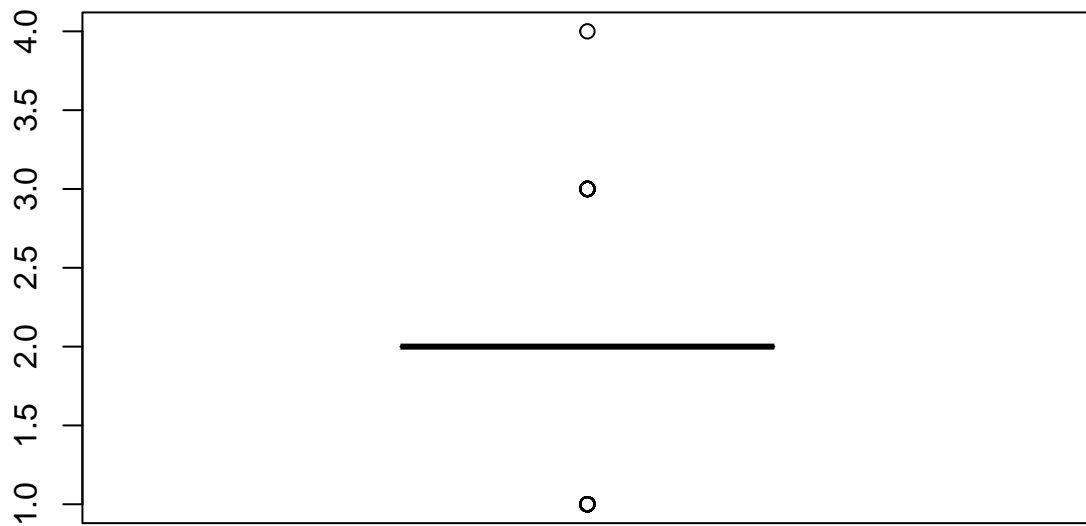
```
#Produces a boxplot
boxplot(mydata$total_of_special_requests)
```
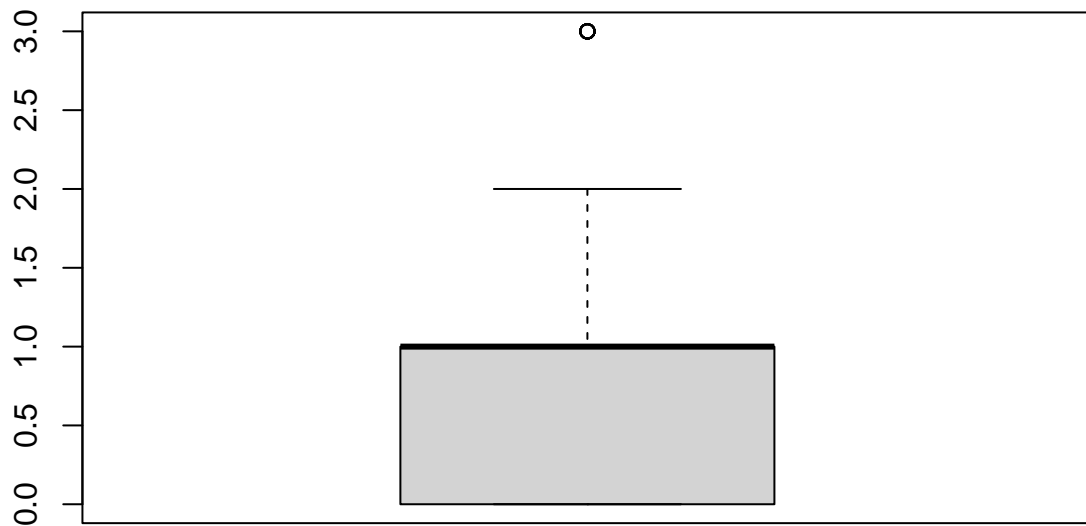
```
length(mydata)
```

```
## [1] 32
```

```
#Identify "center" of distribution
median(mydata$adr)
```

```
## [1] 107
```

```
sum(mydata$adr)
```

```
## [1] 32190.64
```

```
#Find sd of values in vector
sd(mydata$adr)
```

```
## [1] 35.71143
```

```
#Find variance of values in vector
var(mydata$adr)
```

```
## [1] 1275.306
```

```
dim(mydata)
```

```
## [1] 299  32
```

```
seq(mydata)
```

```
##  [1]  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
## [26] 26 27 28 29 30 31 32
```

```
rep(mydata)
```

```
## $hotel
##   [1] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##   [6] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [11] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [16] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [21] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [26] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [31] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [36] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [41] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [46] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [51] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [56] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [61] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [66] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [71] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [76] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [81] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [86] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [91] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [96] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [101] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [106] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [111] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [116] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [121] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [126] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [131] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [136] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [141] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [146] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [151] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [156] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [161] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [166] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [171] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [176] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [181] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [186] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [191] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
```

```
## [196] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [201] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [206] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [211] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [216] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [221] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [226] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [231] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [236] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [241] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [246] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [251] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [256] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [261] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [266] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [271] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [276] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [281] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [286] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [291] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [296] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##
## $is_canceled
##   [1] 0 0 0 0 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 1 1 0
##  [38] 0 1 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 1 1 1 0 0
##  [75] 1 0 1 0 0 0 0 1 0 1 0 0 0 1 0 0 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 1 1 1 0 0 0
## [112] 0 0 0 1 0 0 0 0 0 0 1 1 1 1 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0
## [149] 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 1
## [186] 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 1 0 1 0 0 0 0 1 0 0 1 0 1 1 0 1
## [223] 0 1 0 0 0 0 0 0 0 0 0 1 1 1 0 1 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0
## [260] 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0
## [297] 0 0 0
##
## $lead_time
##   [1] 342 737   7  13  14  14   0   9  85  75  23  35  68  18  37  68  37  12
##  [19]   0   7  37  72  72  72 127  78  48  60  77  99 118  95  96  69  45  40
##  [37]  15  36  43  70  45  45  16  70 107  47  96 113  90  50 113  93  76   3
##  [55]   1   1   0   0   0  14  10   5  17  93   3  10   3  51  71  63  62 101
##  [73]   2  15  51   3  48   2  72  81  99 368 364  81  99 324  69  79  12   9
##  [91]   1  21   9 109 109  72  63  63 101 102   4  98  92  95 102  26  73 102
## [109] 115 102  86  78  52  29 101 109  92  92  79   2  30  51  36  73  33  32
## [127]   8 100   1 100 100   9   5   0   9   2   2   9   5   2  44  80  97 109
## [145]  30  64  39  90  34  93  97  29 101  27   8  82  94 110  96  79 115 111
## [163]  51  94  81  84  51 111   0   2   7  98  95  48  66 104  28  34  98 104
## [181]  68  86 258 111  94 112 100  33  97  80  90 111  65  67  55  21   8   8
## [199]   0   0   0   8  66  88   0  43  88  54 292 112  68   7   1 113   5  83
## [217] 105   0   1   1   1 102 113 280  96 394  33  82 100 100  17  68  12  77
## [235]  24  44  78  17 103  16  14  77  90  90  90 366 249  69  10  22  91  23
## [253]  11   3  13 108  91  37  21 106  30  30  51  79  21  35  78  31  78  78
## [271]  44  34  87  11 115  86  41  32  34  34 100  44 304  36 117  70 110 109
## [289]  33  33  33   0   0   0   0  84  71  16  54
##
## $arrival_date_year
##   [1] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
```

```
##   [16] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##   [31] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##   [46] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##   [61] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##   [76] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##   [91] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [106] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [121] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [136] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [151] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [166] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [181] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [196] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [211] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [226] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [241] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [256] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [271] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [286] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## 
## $arrival_date_month
##    [1] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##   [11] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##   [21] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##   [31] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##   [41] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##   [51] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##   [61] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##   [71] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##   [81] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##   [91] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##  [101] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##  [111] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##  [121] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##  [131] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##  [141] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##  [151] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##  [161] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##  [171] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##  [181] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##  [191] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##  [201] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##  [211] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##  [221] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##  [231] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##  [241] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##  [251] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##  [261] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##  [271] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##  [281] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##  [291] "July" "July" "July" "July" "July" "July" "July" "July" "July"
## 
## $arrival_date_week_number
##    [1] 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27
```

```
##    [26] 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27
##    [51] 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27
##    [76] 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27
##   [101] 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27
##   [126] 27 27 27 27 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28
##   [151] 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28
##   [176] 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28
##   [201] 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28
##   [226] 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28
##   [251] 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28
##   [276] 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28
## 
## $arrival_date_day_of_month
##     [1]  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
##    [26]  1  1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2
##    [51]  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  3  3  3  3  3  3  3  3  3  3
##    [76]  3  3  3  3  3  3  3  3  3  3  3  3  3  3  3  3  3  3  3  3  3  3  3  3  3
##   [101]  4  4  4  4  4  4  4  4  4  4  4  4  4  4  4  4  4  4  4  4  4  4  4  4  4
##   [126]  4  4  4  4  4  4  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5
##   [151]  5  5  5  5  5  5  5  5  5  5  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6
##   [176]  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  7  7  7  7  7  7  7  7
##   [201]  7  7  7  7  7  7  7  7  7  7  8  8  8  8  8  8  8  8  8  8  8  8  8  8  8
##   [226]  8  8  8  8  8  9  9  9  9  9  9  9  9  9  9  9  9  9  9  9  9  9 10 10
##   [251] 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10
##   [276] 10 10 10 10 10 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
## 
## $stays_in_weekend_nights
##     [1] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 2 2 2 2 2 2 2 2 4 4 2 2 1 1 1
##    [38] 1 1 2 2 2 2 2 2 2 2 2 2 2 2 3 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##    [75] 0 1 1 2 2 2 2 3 3 3 3 4 4 6 0 0 0 0 0 0 0 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
##   [112] 2 2 2 2 2 4 4 4 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2
##   [149] 2 2 2 2 2 2 4 4 4 4 4 4 1 1 1 1 1 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 3 3
##   [186] 3 3 3 3 3 4 4 2 0 0 0 0 0 0 0 0 0 0 0 0 2 2 2 4 0 0 0 0 0 0 0 0 0 0 0 1
##   [223] 2 2 2 2 2 2 2 2 0 0 0 0 0 0 1 1 1 2 2 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 1 1
##   [260] 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 4 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 0 0 0 0 1
##   [297] 1 1 2
## 
## $stays_in_week_nights
##     [1]  0  0  1  1  2  2  2  2  3  3  4  4  4  4  4  4  4  1  1  4  4  4  4  4  5
##    [26]  5  5  5  5  5 10 11  8  4  3  3  3  3  3  3  3  3  3  5  5  5  5  5  5  5
##    [51]  5  8 10  1  1  1  1  1  1  2  2  2  3  3  3  2  2  2  2  2  2  2  2  2  2
##    [76]  2  2  2  2  6  7  7  7  7  7 10 10 15  1  1  1  1  1  1  2  2  5  5  5  5
##   [101]  1  1  4  4  5  5  5  5  5  5  5  5  5  6  6  6  6  6  6  1  1  1  1  1  1
##   [126]  1  1  1  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  2  3  3  3  4  4  4  5
##   [151]  5  5  5  5  5  6  6  7 10 10  4  3  3  3  3  3  3  0  0  0  1  1  2  3  3
##   [176]  3  4  4  5  5  5  5  5  5  7  7  7  7  7  8 10 10  5  2  3  3  0  0  1  1
##   [201]  1  4  4  4  4  5  5  5  5 10  3  4  4  4  4  4  4  1  1  1  2  4  4  5  5
##   [226]  5  5  6  7  7  1  2  2  3  3  3  3  3  3  3  3  3  5  5  5  5  5  5  6  1  2
##   [251]  2  2  2  2  2  2  2  2  2  2  2  2  3  3  3  3  5  5  5  5  5  5  5  6  7
##   [276]  7  7  9  5  5  3  3  4  4  4  4  5  5  2  2  2  1  1  1  1  1  1  1  1
## 
## $adults
##     [1] 2 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 2 2 2 2 2 2 2 2 2 1 2 2 2 3 3 2
##    [38] 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 2 2 2 2 2
```

```
##  [75] 3 2 2 1 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 2 2 2 1 2 2 2 3 2 2 2 2
## [112] 2 2 3 2 2 2 2 2 2 1 1 2 2 4 2 2 2 2 2 2 2 2 1 1 2 1 2 2 3 2 2 2 2 2 2 2
## [149] 2 2 2 2 2 2 2 2 3 2 1 2 2 2 2 3 2 2 3 2 1 2 2 2 2 2 2 2 2 2 2 2 1 2 2 2
## [186] 2 2 2 2 1 2 2 2 2 2 2 2 2 1 3 1 3 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 1 2 2 2
## [223] 2 2 2 2 2 3 3 2 2 3 2 2 2 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
## [260] 2 2 2 2 2 2 2 2 2 2 2 1 2 2 3 2 2 2 2 2 2 2 2 2 3 2 2 2 2 2 2 2 1 2 2 2
## [297] 2 2 2
##
## $children
##   [1] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [38] 0 0 0 0 0 0 0 2 0 0 0 0 0 0 0 0 2 0 0 0 0 0 0 0 0 2 0 0 0 0 0 0 0 0
##  [75] 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 2 0 0 2 0 0 0 0 0
## [112] 0 0 0 0 0 0 0 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0
## [149] 2 0 2 0 0 0 2 0 0 0 0 0 2 0 0 0 2 0 0 0 0 1 0 0 0 0 0 0 0 0 0 2 0 0 0 0
## [186] 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [223] 0 1 0 0 0 0 0 0 2 0 2 0 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0
## [260] 0 0 0 0 0 0 2 0 0 0 0 0 1 1 1 0 0 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [297] 0 0 0
##
## $babies
##   [1] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [38] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [75] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
## [112] 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [149] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [186] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [223] 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [260] 0 0 0 0 0 2 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [297] 0 0 0
##
## $meal
##   [1] "BB" "BB" "BB" "BB" "BB" "BB" "BB" "FB" "BB" "HB" "BB" "HB" "BB" "HB" "BB"
##  [16] "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "HB" "BB" "HB" "BB" "BB" "BB"
##  [31] "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "HB" "BB" "BB" "BB" "HB" "BB"
##  [46] "BB" "BB" "BB" "HB" "HB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB"
##  [61] "BB" "BB" "BB" "BB" "HB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "HB" "BB" "BB"
##  [76] "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "HB" "HB" "HB" "BB" "BB" "BB" "BB"
##  [91] "BB" "BB" "BB" "BB" "BB" "BB" "BB" "HB" "BB" "BB" "BB" "BB" "BB" "BB" "BB"
## [106] "BB" "HB" "BB" "BB" "BB" "BB" "HB" "BB" "BB" "BB" "BB" "BB" "BB" "HB" "BB"
## [121] "BB" "HB" "BB" "BB" "BB" "FB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB"
## [136] "BB" "BB" "BB" "BB" "BB" "HB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "HB"
## [151] "HB" "BB" "HB" "BB" "BB" "BB" "BB" "BB" "HB" "HB" "BB" "BB" "BB" "BB" "HB"
## [166] "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "HB" "HB" "BB" "BB" "HB" "HB" "BB"
## [181] "HB" "HB" "BB" "HB" "BB" "BB" "BB" "HB" "HB" "BB" "BB" "BB" "BB" "BB" "BB"
## [196] "HB" "BB" "BB" "BB" "HB" "BB" "BB" "BB" "HB" "BB" "HB" "HB" "BB" "BB" "HB"
## [211] "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "HB" "BB"
## [226] "HB" "HB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB"
## [241] "BB" "BB" "BB" "BB" "BB" "HB" "HB" "HB" "BB" "BB" "BB" "BB" "BB" "BB" "HB"
## [256] "BB" "BB" "BB" "BB" "BB" "FB" "FB" "BB" "BB" "HB" "BB" "HB" "HB" "HB" "HB"
## [271] "HB" "HB" "FB" "BB" "BB" "BB" "BB" "BB" "HB" "HB" "HB" "BB" "BB" "BB" "HB"
## [286] "BB" "BB" "BB" "BB" "BB" "BB" "BB" "HB" "BB" "BB" "HB" "BB" "BB" "BB"
##
## $country
##   [1] "PRT" "PRT" "GBR" "GBR" "GBR" "GBR" "PRT" "PRT" "PRT" "PRT"
```

114

```
##   [11] "PRT"   "PRT"   "USA"   "ESP"   "PRT"   "IRL"   "PRT"   "IRL"   "FRA"   "GBR"
##   [21] "GBR"   "PRT"   "PRT"   "PRT"   "GBR"   "PRT"   "IRL"   "PRT"   "PRT"   "PRT"
##   [31] "NULL"  "GBR"   "PRT"   "IRL"   "PRT"   "PRT"   "ESP"   "PRT"   "PRT"   "ROU"
##   [41] "PRT"   "IRL"   "ESP"   "ROU"   "PRT"   "PRT"   "ESP"   "NOR"   "GBR"   "IRL"
##   [51] "NOR"   "IRL"   "OMN"   "ESP"   "ARG"   "ESP"   "PRT"   "PRT"   "PRT"   "USA"
##   [61] "PRT"   "IRL"   "ESP"   "IRL"   "PRT"   "USA"   "ESP"   "POL"   "PRT"   "PRT"
##   [71] "PRT"   "PRT"   "PRT"   "ESP"   "PRT"   "ESP"   "PRT"   "PRT"   "DEU"   "PRT"
##   [81] "FRA"   "PRT"   "GBR"   "PRT"   "GBR"   "GBR"   "GBR"   "PRT"   "GBR"   "PRT"
##   [91] "ESP"   "PRT"   "USA"   "BEL"   "PRT"   "PRT"   "PRT"   "ESP"   "PRT"   "DEU"
##  [101] "ESP"   "FRA"   "FRA"   "PRT"   "PRT"   "PRT"   "PRT"   "PRT"   "PRT"   "PRT"
##  [111] "CHE"   "PRT"   "GBR"   "PRT"   "PRT"   "PRT"   "GBR"   "PRT"   "PRT"   "PRT"
##  [121] "PRT"   "PRT"   "PRT"   "PRT"   "PRT"   "PRT"   "ESP"   "FRA"   "PRT"   "FRA"
##  [131] "FRA"   "ESP"   "PRT"   "ESP"   "DEU"   "PRT"   "PRT"   "DEU"   "PRT"   "PRT"
##  [141] "PRT"   "FRA"   "ESP"   "CN"    "ESP"   "PRT"   "ESP"   "PRT"   "PRT"   "PRT"
##  [151] "PRT"   "IRL"   "PRT"   "ESP"   "CHE"   "PRT"   "PRT"   "GBR"   "GBR"   "GBR"
##  [161] "PRT"   "PRT"   "USA"   "CN"    "CHE"   "PRT"   "USA"   "PRT"   "PRT"   "PRT"
##  [171] "PRT"   "USA"   "GRC"   "PRT"   "PRT"   "PRT"   "PRT"   "PRT"   "ESP"   "PRT"
##  [181] "PRT"   "PRT"   "GBR"   "PRT"   "PRT"   "GBR"   "GBR"   "PRT"   "GBR"   "FRA"
##  [191] "ITA"   "GBR"   "PRT"   "PRT"   "ESP"   "PRT"   "PRT"   "PRT"   "GBR"   "PRT"
##  [201] "GBR"   "ESP"   "PRT"   "USA"   "NLD"   "PRT"   "PRT"   "IRL"   "PRT"   "IRL"
##  [211] "GBR"   "PRT"   "ESP"   "PRT"   "ESP"   "PRT"   "PRT"   "PRT"   "PRT"   "PRT"
##  [221] "CHE"   "PRT"   "PRT"   "PRT"   "GBR"   "GBR"   "PRT"   "IRL"   "DNK"   "DNK"
##  [231] "PRT"   "ARG"   "PRT"   "PRT"   "PRT"   "PRT"   "PRT"   "PRT"   "PRT"   "RUS"
##  [241] "SWE"   "POL"   "FRA"   "GBR"   "GBR"   "GBR"   "PRT"   "PRT"   "USA"   "PRT"
##  [251] "PRT"   "PRT"   "PRT"   "PRT"   "PRT"   "PRT"   "PRT"   "GBR"   "AUS"   "GBR"
##  [261] "PRT"   "PRT"   "PRT"   "POL"   "PRT"   "EST"   "PRT"   "PRT"   "PRT"   "PRT"
##  [271] "RUS"   "GBR"   "PRT"   "PRT"   "IRL"   "PRT"   "GBR"   "DNK"   "GBR"   "GBR"
##  [281] "PRT"   "ESP"   "PRT"   "PRT"   "PRT"   "ESP"   "PRT"   "PRT"   "GBR"   "PRT"
##  [291] "CZE"   "GBR"   "DEU"   "ESP"   "ESP"   "PRT"   "ESP"   "ROU"   "PRT"
##
## $market_segment
##    [1] "Direct"        "Direct"        "Direct"        "Corporate"
##    [5] "Online TA"     "Online TA"     "Direct"        "Direct"
##    [9] "Online TA"     "Offline TA/TO" "Online TA"     "Online TA"
##   [13] "Online TA"     "Online TA"     "Online TA"     "Online TA"
##   [17] "Offline TA/TO" "Online TA"     "Corporate"     "Direct"
##   [21] "Online TA"     "Direct"        "Direct"        "Direct"
##   [25] "Offline TA/TO" "Offline TA/TO" "Offline TA/TO" "Online TA"
##   [29] "Online TA"     "Online TA"     "Direct"        "Offline TA/TO"
##   [33] "Direct"        "Offline TA/TO" "Online TA"     "Online TA"
##   [37] "Online TA"     "Online TA"     "Online TA"     "Direct"
##   [41] "Online TA"     "Offline TA/TO" "Direct"        "Direct"
##   [45] "Online TA"     "Online TA"     "Offline TA/TO" "Offline TA/TO"
##   [49] "Offline TA/TO" "Online TA"     "Offline TA/TO" "Offline TA/TO"
##   [53] "Offline TA/TO" "Online TA"     "Online TA"     "Direct"
##   [57] "Direct"        "Online TA"     "Direct"        "Online TA"
##   [61] "Online TA"     "Online TA"     "Direct"        "Offline TA/TO"
##   [65] "Online TA"     "Online TA"     "Online TA"     "Online TA"
##   [69] "Offline TA/TO" "Online TA"     "Online TA"     "Online TA"
##   [73] "Offline TA/TO" "Online TA"     "Online TA"     "Online TA"
##   [77] "Online TA"     "Online TA"     "Offline TA/TO" "Offline TA/TO"
##   [81] "Offline TA/TO" "Offline TA/TO" "Offline TA/TO" "Direct"
##   [85] "Offline TA/TO" "Offline TA/TO" "Online TA"     "Offline TA/TO"
##   [89] "Online TA"     "Online TA"     "Online TA"     "Online TA"
```

115

```
##  [93] "Online TA"      "Online TA"      "Online TA"      "Online TA"
##  [97] "Online TA"      "Offline TA/TO"  "Online TA"      "Direct"
## [101] "Direct"         "Offline TA/TO"  "Offline TA/TO"  "Online TA"
## [105] "Online TA"      "Online TA"      "Direct"         "Online TA"
## [109] "Offline TA/TO"  "Online TA"      "Online TA"      "Online TA"
## [113] "Online TA"      "Online TA"      "Online TA"      "Online TA"
## [117] "Offline TA/TO"  "Offline TA/TO"  "Direct"         "Online TA"
## [121] "Offline TA/TO"  "Online TA"      "Direct"         "Online TA"
## [125] "Online TA"      "Complementary"  "Online TA"      "Online TA"
## [129] "Online TA"      "Online TA"      "Online TA"      "Online TA"
## [133] "Online TA"      "Online TA"      "Online TA"      "Online TA"
## [137] "Online TA"      "Online TA"      "Online TA"      "Direct"
## [141] "Online TA"      "Online TA"      "Online TA"      "Offline TA/TO"
## [145] "Online TA"      "Online TA"      "Online TA"      "Online TA"
## [149] "Online TA"      "Offline TA/TO"  "Direct"         "Online TA"
## [153] "Online TA"      "Offline TA/TO"  "Online TA"      "Offline TA/TO"
## [157] "Direct"         "Offline TA/TO"  "Offline TA/TO"  "Offline TA/TO"
## [161] "Online TA"      "Online TA"      "Online TA"      "Offline TA/TO"
## [165] "Direct"         "Online TA"      "Online TA"      "Online TA"
## [169] "Direct"         "Direct"         "Online TA"      "Online TA"
## [173] "Online TA"      "Online TA"      "Offline TA/TO"  "Online TA"
## [177] "Online TA"      "Direct"         "Online TA"      "Online TA"
## [181] "Online TA"      "Offline TA/TO"  "Offline TA/TO"  "Online TA"
## [185] "Online TA"      "Offline TA/TO"  "Offline TA/TO"  "Direct"
## [189] "Offline TA/TO"  "Direct"         "Offline TA/TO"  "Offline TA/TO"
## [193] "Offline TA/TO"  "Online TA"      "Online TA"      "Direct"
## [197] "Direct"         "Online TA"      "Online TA"      "Direct"
## [201] "Online TA"      "Online TA"      "Online TA"      "Offline TA/TO"
## [205] "Direct"         "Offline TA/TO"  "Online TA"      "Offline TA/TO"
## [209] "Offline TA/TO"  "Offline TA/TO"  "Online TA"      "Online TA"
## [213] "Online TA"      "Online TA"      "Online TA"      "Offline TA/TO"
## [217] "Online TA"      "Offline TA/TO"  "Corporate"      "Corporate"
## [221] "Corporate"      "Direct"         "Direct"         "Offline TA/TO"
## [225] "Online TA"      "Offline TA/TO"  "Online TA"      "Direct"
## [229] "Online TA"      "Online TA"      "Online TA"      "Direct"
## [233] "Direct"         "Direct"         "Online TA"      "Online TA"
## [237] "Online TA"      "Online TA"      "Online TA"      "Direct"
## [241] "Online TA"      "Offline TA/TO"  "Offline TA/TO"  "Offline TA/TO"
## [245] "Offline TA/TO"  "Offline TA/TO"  "Online TA"      "Online TA"
## [249] "Direct"         "Online TA"      "Online TA"      "Online TA"
## [253] "Online TA"      "Online TA"      "Online TA"      "Online TA"
## [257] "Online TA"      "Online TA"      "Direct"         "Online TA"
## [261] "Direct"         "Direct"         "Online TA"      "Online TA"
## [265] "Direct"         "Online TA"      "Online TA"      "Direct"
## [269] "Online TA"      "Online TA"      "Offline TA/TO"  "Online TA"
## [273] "Offline TA/TO"  "Direct"         "Online TA"      "Online TA"
## [277] "Online TA"      "Online TA"      "Online TA"      "Online TA"
## [281] "Offline TA/TO"  "Online TA"      "Direct"         "Online TA"
## [285] "Offline TA/TO"  "Online TA"      "Direct"         "Online TA"
## [289] "Online TA"      "Online TA"      "Online TA"      "Direct"
## [293] "Online TA"      "Direct"         "Online TA"      "Corporate"
## [297] "Offline TA/TO"  "Online TA"      "Online TA"
##
## $distribution_channel
```

```
##    [1] "Direct"    "Direct"    "Direct"    "Corporate" "TA/TO"     "TA/TO"
##    [7] "Direct"    "Direct"    "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##   [13] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##   [19] "Corporate" "Direct"    "TA/TO"     "Direct"    "Direct"    "Direct"
##   [25] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##   [31] "Direct"    "TA/TO"     "Direct"    "TA/TO"     "TA/TO"     "TA/TO"
##   [37] "TA/TO"     "TA/TO"     "TA/TO"     "Direct"    "TA/TO"     "TA/TO"
##   [43] "Direct"    "Direct"    "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##   [49] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##   [55] "TA/TO"     "Direct"    "Direct"    "TA/TO"     "Direct"    "TA/TO"
##   [61] "TA/TO"     "TA/TO"     "Direct"    "TA/TO"     "TA/TO"     "TA/TO"
##   [67] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##   [73] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##   [79] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "Direct"
##   [85] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##   [91] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##   [97] "TA/TO"     "TA/TO"     "TA/TO"     "Direct"    "Direct"    "TA/TO"
##  [103] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "Direct"    "TA/TO"
##  [109] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##  [115] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "Direct"    "TA/TO"
##  [121] "TA/TO"     "TA/TO"     "Direct"    "TA/TO"     "TA/TO"     "Direct"
##  [127] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##  [133] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##  [139] "TA/TO"     "Direct"    "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##  [145] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##  [151] "Direct"    "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##  [157] "Direct"    "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##  [163] "TA/TO"     "TA/TO"     "Direct"    "TA/TO"     "TA/TO"     "TA/TO"
##  [169] "Direct"    "Direct"    "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##  [175] "TA/TO"     "TA/TO"     "TA/TO"     "Direct"    "TA/TO"     "TA/TO"
##  [181] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##  [187] "TA/TO"     "Direct"    "TA/TO"     "Direct"    "TA/TO"     "TA/TO"
##  [193] "TA/TO"     "TA/TO"     "TA/TO"     "Direct"    "Direct"    "TA/TO"
##  [199] "TA/TO"     "Direct"    "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##  [205] "Direct"    "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##  [211] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##  [217] "TA/TO"     "TA/TO"     "Corporate" "Corporate" "Corporate" "Direct"
##  [223] "Direct"    "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "Direct"
##  [229] "TA/TO"     "TA/TO"     "TA/TO"     "Direct"    "Direct"    "Direct"
##  [235] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "Direct"
##  [241] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##  [247] "TA/TO"     "TA/TO"     "Direct"    "TA/TO"     "TA/TO"     "TA/TO"
##  [253] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##  [259] "Direct"    "TA/TO"     "Direct"    "Direct"    "TA/TO"     "TA/TO"
##  [265] "Direct"    "TA/TO"     "TA/TO"     "Direct"    "TA/TO"     "TA/TO"
##  [271] "TA/TO"     "TA/TO"     "TA/TO"     "Direct"    "TA/TO"     "TA/TO"
##  [277] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##  [283] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "Direct"    "TA/TO"
##  [289] "TA/TO"     "TA/TO"     "TA/TO"     "Direct"    "TA/TO"     "Direct"
##  [295] "TA/TO"     "Corporate" "TA/TO"     "TA/TO"     "TA/TO"
## 
## $is_repeated_guest
##   [1] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [38] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
```

```
##   [75] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [112] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [149] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [186] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [223] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [260] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [297] 0 0 0
##
## $previous_cancellations
##   [1] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [38] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [75] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [112] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [149] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [186] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [223] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [260] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [297] 0 0 0
##
## $previous_bookings_not_canceled
##   [1] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [38] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [75] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [112] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [149] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [186] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [223] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [260] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [297] 0 0 0
##
## $reserved_room_type
##   [1] "C" "C" "A" "A" "A" "A" "C" "C" "A" "D" "E" "D" "D" "G" "E" "D" "E" "A"
##  [19] "A" "G" "F" "A" "A" "D" "D" "D" "D" "E" "A" "D" "A" "D" "E" "A" "D" "D"
##  [37] "A" "D" "D" "E" "G" "D" "F" "E" "A" "G" "A" "E" "A" "E" "D" "A" "D" "A"
##  [55] "H" "C" "H" "A" "G" "A" "G" "E" "F" "A" "A" "G" "A" "D" "A" "A" "D" "A"
##  [73] "A" "A" "A" "A" "E" "A" "A" "D" "A" "A" "A" "A" "E" "E" "F" "A" "A" "A"
##  [91] "A" "E" "C" "A" "A" "A" "F" "E" "D" "E" "A" "D" "F" "A" "E" "H" "D" "A"
## [109] "A" "A" "D" "E" "A" "E" "E" "A" "D" "D" "D" "H" "D" "A" "E" "A" "D" "H"
## [127] "E" "A" "A" "A" "A" "A" "D" "A" "A" "A" "A" "A" "D" "G" "G" "D" "D" "A"
## [145] "E" "E" "H" "A" "H" "D" "C" "F" "A" "E" "H" "D" "D" "D" "A" "D" "G" "A"
## [163] "G" "D" "G" "D" "G" "A" "E" "A" "A" "D" "D" "E" "A" "A" "E" "F" "A" "E"
## [181] "G" "A" "A" "A" "D" "A" "D" "F" "D" "A" "D" "A" "D" "A" "A" "F" "A" "A"
## [199] "A" "C" "A" "H" "D" "D" "A" "A" "E" "D" "A" "D" "E" "A" "A" "A" "D" "A"
## [217] "A" "A" "A" "A" "A" "A" "E" "D" "E" "D" "E" "A" "E" "E" "C" "A" "H" "D"
## [235] "C" "G" "A" "A" "A" "A" "A" "A" "A" "A" "E" "E" "A" "A" "A" "A" "A" "A"
## [253] "A" "A" "G" "D" "A" "C" "A" "E" "F" "F" "E" "A" "C" "G" "A" "D" "D" "E"
## [271] "E" "F" "C" "C" "A" "D" "F" "C" "D" "F" "A" "A" "A" "E" "D" "A" "E" "A"
## [289] "E" "E" "E" "A" "A" "G" "A" "A" "A" "C" "E"
##
## $assigned_room_type
##   [1] "C" "C" "C" "A" "A" "A" "C" "C" "A" "D" "E" "D" "E" "G" "E" "E" "E" "E"
##  [19] "G" "G" "F" "A" "A" "D" "I" "D" "D" "E" "A" "D" "A" "D" "E" "C" "D" "D"
##  [37] "C" "D" "D" "E" "G" "D" "F" "E" "A" "G" "A" "E" "B" "F" "D" "A" "D" "C"
##  [55] "H" "C" "H" "D" "G" "C" "G" "E" "F" "C" "A" "H" "C" "D" "A" "A" "D" "A"
```

```
##   [73] "A" "A" "A" "A" "E" "A" "A" "D" "A" "A" "A" "A" "E" "E" "F" "A" "C" "C"
##   [91] "C" "E" "C" "A" "A" "A" "F" "E" "D" "E" "C" "D" "F" "C" "E" "H" "D" "A"
##  [109] "A" "A" "D" "F" "A" "E" "E" "A" "D" "D" "D" "G" "C" "A" "G" "A" "D" "H"
##  [127] "E" "C" "A" "A" "C" "C" "D" "C" "A" "D" "E" "A" "D" "G" "G" "E" "D" "D"
##  [145] "E" "E" "H" "A" "H" "D" "C" "F" "A" "E" "H" "D" "C" "D" "A" "D" "G" "C"
##  [163] "G" "D" "G" "E" "G" "H" "H" "E" "E" "F" "D" "E" "E" "C" "E" "F" "C" "E"
##  [181] "G" "A" "A" "C" "D" "A" "D" "F" "D" "A" "D" "A" "D" "A" "A" "F" "A" "E"
##  [199] "A" "C" "A" "H" "D" "E" "A" "A" "E" "D" "A" "D" "E" "A" "A" "A" "D" "A"
##  [217] "A" "A" "A" "A" "F" "A" "E" "D" "F" "D" "E" "A" "E" "E" "C" "C" "G" "D"
##  [235] "C" "G" "A" "A" "A" "A" "A" "A" "D" "A" "E" "E" "A" "A" "A" "A" "A" "A"
##  [253] "A" "A" "G" "D" "A" "C" "C" "E" "F" "F" "E" "A" "C" "G" "A" "D" "D" "E"
##  [271] "E" "F" "C" "C" "A" "D" "F" "C" "D" "F" "A" "A" "A" "E" "D" "A" "E" "A"
##  [289] "E" "E" "E" "A" "A" "G" "A" "A" "A" "C" "F"
## 
## $booking_changes
##   [1] 3 4 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 1 1 0 0 0 0 0 0 2 0 0 0 0 0 0
##  [38] 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [75] 0 0 0 0 0 0 0 0 2 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [112] 0 0 0 0 0 0 1 1 0 0 1 0 0 2 0 0 0 0 0 0 1 0 0 0 0 0 0 3 0 0 0 0 0 0 0
## [149] 0 0 1 0 0 0 1 0 3 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0
## [186] 0 1 5 0 1 0 0 0 0 0 0 0 0 0 0 2 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [223] 1 0 0 0 0 0 1 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 1 0 0 0
## [260] 0 0 0 0 0 1 0 1 1 1 1 2 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 1 0 0 0
## [297] 0 0 0
## 
## $deposit_type
##   [1] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##   [6] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [11] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [16] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [21] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [26] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [31] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [36] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [41] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [46] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [51] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [56] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [61] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [66] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [71] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [76] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [81] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [86] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [91] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [96] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [101] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [106] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [111] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [116] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [121] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [126] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [131] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [136] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
```

```
## [141] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [146] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [151] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [156] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [161] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [166] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [171] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [176] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [181] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [186] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [191] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [196] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [201] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [206] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [211] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [216] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [221] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [226] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [231] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [236] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [241] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [246] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [251] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [256] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [261] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [266] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [271] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [276] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [281] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [286] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [291] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [296] "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##
## $agent
##   [1] "NULL" "NULL" "NULL" "304"  "240"  "240"  "NULL" "303"  "240"  "15"
##  [11] "240"  "240"  "240"  "241"  "241"  "240"  "8"    "240"  "NULL" "250"
##  [21] "241"  "250"  "250"  "250"  "115"  "5"    "8"    "240"  "240"  "240"
##  [31] "NULL" "241"  "NULL" "175"  "241"  "241"  "240"  "241"  "241"  "250"
##  [41] "241"  "8"    "NULL" "250"  "240"  "240"  "134"  "156"  "243"  "241"
##  [51] "156"  "156"  "243"  "240"  "240"  "NULL" "NULL" "240"  "NULL" "242"
##  [61] "241"  "240"  "250"  "115"  "240"  "240"  "240"  "242"  "242"  "240"
##  [71] "240"  "240"  "3"    "240"  "242"  "240"  "240"  "240"  "105"  "5"
##  [81] "40"   "40"   "40"   "250"  "115"  "40"   "241"  "242"  "240"  "240"
##  [91] "240"  "240"  "241"  "240"  "240"  "240"  "242"  "105"  "240"  "250"
## [101] "250"  "8"    "241"  "240"  "240"  "240"  "250"  "240"  "134"  "240"
## [111] "240"  "240"  "147"  "241"  "240"  "240"  "40"   "40"   "250"  "240"
## [121] "8"    "240"  "250"  "240"  "240"  "NULL" "240"  "240"  "240"  "240"
## [131] "240"  "240"  "240"  "306"  "184"  "240"  "240"  "184"  "240"  "NULL"
## [141] "240"  "240"  "240"  "241"  "240"  "240"  "240"  "240"  "240"  "15"
## [151] "250"  "241"  "240"  "175"  "240"  "5"    "NULL" "40"   "40"   "243"
## [161] "240"  "240"  "241"  "96"   "250"  "240"  "241"  "240"  "250"  "NULL"
## [171] "240"  "240"  "240"  "240"  "175"  "240"  "240"  "250"  "240"  "240"
## [181] "240"  "175"  "2"    "240"  "240"  "242"  "241"  "250"  "156"  "NULL"
## [191] "8"    "40"   "127"  "240"  "240"  "250"  "NULL" "240"  "240"  "NULL"
```

```
## [201] "240"  "240"  "240"  "95"   "NULL" "134"  "240"  "8"    "2"    "156"
## [211] "240"  "240"  "240"  "240"  "240"  "105"  "240"  "146"  "NULL" "NULL"
## [221] "NULL" "9"    "250"  "40"   "240"  "40"   "240"  "250"  "240"  "240"
## [231] "242"  "250"  "NULL" "250"  "242"  "240"  "240"  "240"  "240"  "250"
## [241] "241"  "177"  "6"    "40"   "143"  "40"   "240"  "240"  "250"  "240"
## [251] "240"  "240"  "240"  "240"  "240"  "240"  "240"  "105"  "250"  "240"
## [261] "NULL" "NULL" "240"  "240"  "250"  "240"  "240"  "250"  "240"  "240"
## [271] "244"  "241"  "5"    "250"  "240"  "240"  "241"  "241"  "241"  "241"
## [281] "149"  "240"  "240"  "240"  "15"   "240"  "250"  "240"  "241"  "240"
## [291] "240"  "NULL" "240"  "NULL" "240"  "NULL" "175"  "242"  "240"
##
## $company
##   [1] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [11] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "110"  "NULL"
##  [21] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [31] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [41] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [51] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [61] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [71] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [81] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [91] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
## [101] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
## [111] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
## [121] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
## [131] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
## [141] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
## [151] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
## [161] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
## [171] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
## [181] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
## [191] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
## [201] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
## [211] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "110"  "110"
## [221] "110"  "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
## [231] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
## [241] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
## [251] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
## [261] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
## [271] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
## [281] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
## [291] "NULL" "NULL" "NULL" "NULL" "NULL" "113"  "NULL" "NULL" "NULL"
##
## $days_in_waiting_list
##   [1] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [38] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [75] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [112] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [149] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [186] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [223] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [260] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [297] 0 0 0
##
```

```
## $customer_type
##   [1] "Transient"      "Transient"      "Transient"      "Transient"
##   [5] "Transient"      "Transient"      "Transient"      "Transient"
##   [9] "Transient"      "Transient"      "Transient"      "Transient"
##  [13] "Transient"      "Transient"      "Transient"      "Transient"
##  [17] "Contract"       "Transient"      "Transient"      "Transient"
##  [21] "Transient"      "Transient"      "Transient"      "Transient"
##  [25] "Contract"       "Transient"      "Contract"       "Transient"
##  [29] "Transient"      "Transient"      "Transient"      "Transient"
##  [33] "Transient"      "Transient"      "Transient"      "Transient"
##  [37] "Transient"      "Transient"      "Transient"      "Transient"
##  [41] "Transient"      "Contract"       "Transient"      "Transient"
##  [45] "Transient"      "Transient"      "Transient"      "Transient-Party"
##  [49] "Contract"       "Transient"      "Transient-Party" "Contract"
##  [53] "Contract"       "Transient"      "Transient"      "Transient"
##  [57] "Transient"      "Transient"      "Transient"      "Transient"
##  [61] "Transient"      "Transient"      "Transient"      "Contract"
##  [65] "Transient"      "Transient"      "Transient"      "Transient"
##  [69] "Transient"      "Transient"      "Transient"      "Transient"
##  [73] "Transient"      "Transient"      "Transient"      "Transient"
##  [77] "Transient"      "Transient"      "Transient"      "Transient"
##  [81] "Contract"       "Contract"       "Contract"       "Transient"
##  [85] "Contract"       "Contract"       "Transient"      "Transient"
##  [89] "Transient"      "Transient"      "Transient"      "Transient"
##  [93] "Transient"      "Transient"      "Transient"      "Transient"
##  [97] "Transient"      "Transient"      "Transient"      "Transient"
## [101] "Transient"      "Transient"      "Transient"      "Transient"
## [105] "Transient"      "Transient"      "Transient"      "Transient"
## [109] "Transient"      "Transient"      "Transient"      "Transient"
## [113] "Transient"      "Transient"      "Transient"      "Transient"
## [117] "Contract"       "Contract"       "Transient"      "Transient"
## [121] "Contract"       "Transient"      "Transient"      "Transient"
## [125] "Transient"      "Transient"      "Transient"      "Transient-Party"
## [129] "Transient"      "Transient-Party" "Transient-Party" "Transient"
## [133] "Transient"      "Transient"      "Transient"      "Transient"
## [137] "Transient"      "Transient"      "Transient"      "Transient"
## [141] "Transient"      "Transient"      "Transient"      "Transient"
## [145] "Transient"      "Transient"      "Transient"      "Transient"
## [149] "Transient"      "Transient"      "Transient"      "Transient"
## [153] "Transient"      "Transient"      "Transient"      "Transient"
## [157] "Transient"      "Contract"       "Contract"       "Contract"
## [161] "Transient"      "Transient"      "Transient"      "Transient"
## [165] "Transient"      "Transient"      "Transient"      "Transient"
## [169] "Transient"      "Transient"      "Transient"      "Transient"
## [173] "Transient"      "Transient"      "Transient"      "Transient"
## [177] "Transient"      "Transient"      "Transient"      "Transient"
## [181] "Transient"      "Transient"      "Contract"       "Transient"
## [185] "Transient"      "Transient"      "Transient"      "Transient"
## [189] "Contract"       "Transient"      "Contract"       "Contract"
## [193] "Transient"      "Transient"      "Transient"      "Transient"
## [197] "Transient"      "Transient"      "Transient"      "Transient"
## [201] "Transient"      "Transient"      "Transient"      "Transient"
## [205] "Transient"      "Transient"      "Transient"      "Transient"
## [209] "Contract"       "Contract"       "Transient"      "Transient"
```

```
## [213] "Transient"       "Transient"       "Transient"       "Transient"
## [217] "Transient"       "Transient"       "Transient"       "Transient"
## [221] "Transient"       "Transient"       "Transient"       "Contract"
## [225] "Transient"       "Contract"        "Transient"       "Transient"
## [229] "Transient-Party" "Transient-Party" "Transient"       "Transient"
## [233] "Transient"       "Transient"       "Transient"       "Transient"
## [237] "Transient"       "Transient"       "Transient"       "Transient"
## [241] "Transient"       "Transient"       "Transient"       "Contract"
## [245] "Contract"        "Contract"        "Transient"       "Transient"
## [249] "Transient"       "Transient"       "Transient"       "Transient"
## [253] "Transient"       "Transient"       "Transient"       "Transient"
## [257] "Transient"       "Transient"       "Transient"       "Transient"
## [261] "Transient-Party" "Transient-Party" "Transient"       "Transient"
## [265] "Transient"       "Transient"       "Transient"       "Transient"
## [269] "Transient"       "Transient"       "Transient"       "Transient"
## [273] "Transient"       "Transient"       "Transient"       "Transient"
## [277] "Transient"       "Transient"       "Transient"       "Transient"
## [281] "Transient"       "Transient"       "Transient"       "Transient"
## [285] "Transient"       "Transient"       "Transient"       "Transient"
## [289] "Transient"       "Transient"       "Transient"       "Transient"
## [293] "Transient"       "Transient"       "Transient"       "Transient"
## [297] "Transient"       "Transient"       "Transient"
##
## $adr
##   [1]   0.00   0.00  75.00  75.00  98.00  98.00 107.00 103.00  82.00 105.50
##  [11] 123.00 145.00  97.00 154.77  94.71  97.00  97.50  88.20 107.42 153.00
##  [21]  97.29  84.67  84.67  99.67  94.95  63.60  79.50 107.00  94.00  87.30
##  [31]  62.00  63.86 108.30  65.50 108.80 108.80  98.00 108.80 108.80 137.00
##  [41] 117.81  79.50 123.00 137.00 110.70 153.00  58.95  82.88  82.35 119.35
##  [51]  67.58  56.01 110.70  88.20 147.00 107.00 147.00 117.90 123.00  98.00
##  [61] 117.81 135.00 133.00  58.95 136.33 153.00 110.50  97.00 110.30  82.00
##  [71]  97.00  73.80  91.50 114.50 110.30  90.90 123.00 122.00 110.70  85.86
##  [81]  58.95  55.68  55.68 124.00 111.15 134.73  92.45 108.73  73.80  98.00
##  [91] 131.00 123.00  94.71 123.00 123.00  73.80 117.00 196.54  99.30  90.95
## [101]  92.67  71.55  96.49  85.80  96.30 163.00 172.00 110.70  58.95  73.80
## [111]  97.00 139.00  67.24 116.50  96.30 123.00  71.55  71.55 149.00 163.00
## [121]  79.50 105.00 123.00  73.80 113.00   0.00 123.00  73.80 114.50  73.80
## [131]  73.80  88.20  97.00  85.10  89.00  80.10  98.00 101.00  97.00 167.00
## [141] 225.00  97.00  87.30  85.59 123.00 107.00 163.00  82.00 163.00 105.50
## [151] 164.20  97.29 114.00  98.40 175.00  63.60 124.45 110.70  74.07 134.10
## [161] 167.00 123.00 117.81 171.32 210.00  97.00 117.81   0.00   0.00 131.00
## [171]  98.00  87.30  97.00 167.00  91.50  73.80 123.00 175.00 117.80 117.63
## [181] 185.00  71.00  47.25 151.00  87.30 120.60  63.86 157.10  91.37  73.00
## [191] 110.70  93.60  83.50  73.80  82.00 185.50   0.00   0.00 109.80 195.00
## [201] 109.80 193.00  97.00 150.00  98.00  91.50 139.00  79.50  47.25 126.65
## [211] 107.00 131.00 131.00 123.00 146.00 110.70  73.80  61.00 104.72 104.72
## [221] 104.72  66.42  77.96 112.00 107.00  89.68 155.00 112.00 130.10 100.10
## [231] 123.00 124.00 146.00  97.00 123.00 153.00  82.00 105.08  65.42  98.00
## [241]  75.46  65.50  90.95  93.60 119.25 134.73 112.00 118.13 131.00  88.20
## [251]  73.80  98.00 110.50 131.00 185.00  87.30  73.80 120.00  98.00  96.30
## [261] 197.00 197.00 123.00  82.00 165.00 149.40 106.84 161.00 134.43 144.43
## [271] 152.00 125.54 133.83 159.75 120.60 112.20 110.60 105.90  95.27 108.83
## [281] 153.96 120.60  90.67 126.67 144.40  99.50 139.40  73.80  89.97 123.00
## [291] 123.00 123.00 144.90 153.00 131.00 100.00  65.50 123.00 123.00
```

```
## 
## $required_car_parking_spaces
##   [1] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0
##  [38] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0
##  [75] 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 1 0 1 0 0 0 0 0 0 0
## [112] 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 2 1 0 1 0 0 0 0
## [149] 0 0 1 0 0 0 1 1 1 0 0 0 0 1 0 1 0 0 0 0 0 1 0 0 0 0 0 1 1 0 0 0 0 0 0
## [186] 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 0
## [223] 1 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0
## [260] 0 0 0 0 0 1 0 1 1 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1
## [297] 0 0 0
## 
## $total_of_special_requests
##   [1] 0 0 0 0 1 1 0 1 1 0 0 0 3 1 0 3 0 0 0 1 1 1 1 1 0 0 2 0 1 2 0 2 0 1 1 0
##  [38] 1 0 1 0 0 0 1 2 0 1 2 0 1 2 0 0 0 0 2 0 2 0 1 0 2 1 0 2 0 0 0 2 2 1 1 0 0
##  [75] 0 0 0 0 0 0 0 0 1 0 0 1 2 0 2 1 0 0 2 1 1 1 1 2 0 1 0 2 2 1 0 1 1 1 2 2
## [112] 2 0 1 1 1 1 1 1 0 0 0 0 2 0 1 0 1 0 2 1 1 0 0 0 0 0 0 1 0 0 2 2 0 0 0 0
## [149] 0 0 1 1 1 0 1 2 1 0 0 0 0 2 2 1 0 2 2 2 0 0 2 1 1 0 0 1 0 0 1 0 0 1 0 1 0
## [186] 1 1 1 2 0 0 0 0 1 2 1 1 1 3 0 3 1 2 1 0 0 2 0 0 1 1 2 1 1 1 1 1 0 1 1 1 1
## [223] 1 1 1 0 0 1 3 2 3 1 0 0 1 0 2 0 0 1 1 0 0 0 0 1 2 0 0 1 0 1 1 1 2 1 1 1
## [260] 2 1 1 0 2 3 0 2 1 2 2 0 3 2 0 2 0 0 0 3 1 0 0 1 0 1 2 1 1 1 0 0 0 1 0 1 0
## [297] 0 1 0
## 
## $reservation_status
##   [1] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
##   [7] "Check-Out" "Check-Out" "Canceled"  "Canceled"  "Canceled"  "Check-Out"
##  [13] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
##  [19] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
##  [25] "Check-Out" "Check-Out" "Check-Out" "Canceled"  "Check-Out" "Check-Out"
##  [31] "Check-Out" "Check-Out" "Canceled"  "Check-Out" "Canceled"  "Canceled"
##  [37] "Check-Out" "Check-Out" "Canceled"  "Check-Out" "Canceled"  "Check-Out"
##  [43] "Check-Out" "Check-Out" "Check-Out" "Canceled"  "Check-Out" "Check-Out"
##  [49] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
##  [55] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
##  [61] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Canceled"  "Check-Out"
##  [67] "Check-Out" "Check-Out" "Canceled"  "Canceled"  "Canceled"  "Canceled"
##  [73] "Check-Out" "Check-Out" "Canceled"  "Check-Out" "Canceled"  "Check-Out"
##  [79] "Check-Out" "Check-Out" "Check-Out" "Canceled"  "Check-Out" "Canceled"
##  [85] "Check-Out" "Check-Out" "Check-Out" "Canceled"  "Check-Out" "Check-Out"
##  [91] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Canceled"  "Canceled"
##  [97] "Canceled"  "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [103] "Check-Out" "Check-Out" "Check-Out" "Canceled"  "Canceled"  "Canceled"
## [109] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [115] "Canceled"  "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [121] "Check-Out" "Canceled"  "No-Show"   "Canceled"  "Canceled"  "Check-Out"
## [127] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [133] "Canceled"  "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [139] "Canceled"  "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [145] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Canceled"  "Canceled"
## [151] "Check-Out" "Check-Out" "Canceled"  "Check-Out" "Check-Out" "Check-Out"
## [157] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [163] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [169] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Canceled"
## [175] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
```

```
## [181] "Check-Out" "Canceled"  "Check-Out" "Check-Out" "Canceled"  "Check-Out"
## [187] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [193] "Check-Out" "Canceled"  "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [199] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [205] "Check-Out" "Canceled"  "Canceled"  "Check-Out" "Canceled"  "Check-Out"
## [211] "Check-Out" "Check-Out" "Check-Out" "Canceled"  "Check-Out" "Check-Out"
## [217] "Canceled"  "Check-Out" "Canceled"  "Canceled"  "Check-Out" "Canceled"
## [223] "Check-Out" "Canceled"  "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [229] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Canceled"
## [235] "Canceled"  "Canceled"  "Check-Out" "Canceled"  "Canceled"  "Check-Out"
## [241] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [247] "Check-Out" "Canceled"  "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [253] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [259] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Canceled"  "Check-Out"
## [265] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [271] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [277] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Canceled"  "Check-Out"
## [283] "Check-Out" "Canceled"  "Check-Out" "Check-Out" "Check-Out" "Canceled"
## [289] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [295] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
##
## $reservation_status_date
##   [1] "01-07-2015" "01-07-2015" "02-07-2015" "02-07-2015" "03-07-2015"
##   [6] "03-07-2015" "03-07-2015" "03-07-2015" "06-05-2015" "22-04-2015"
##  [11] "23-06-2015" "05-07-2015" "05-07-2015" "05-07-2015" "05-07-2015"
##  [16] "05-07-2015" "05-07-2015" "02-07-2015" "02-07-2015" "05-07-2015"
##  [21] "06-07-2015" "07-07-2015" "07-07-2015" "07-07-2015" "01-07-2015"
##  [26] "08-07-2015" "08-07-2015" "11-05-2015" "08-07-2015" "08-07-2015"
##  [31] "15-07-2015" "16-07-2015" "29-05-2015" "08-07-2015" "19-05-2015"
##  [36] "19-06-2015" "06-07-2015" "06-07-2015" "23-05-2015" "07-07-2015"
##  [41] "18-05-2015" "07-07-2015" "07-07-2015" "07-07-2015" "09-07-2015"
##  [46] "02-06-2015" "09-07-2015" "09-07-2015" "09-07-2015" "09-07-2015"
##  [51] "09-07-2015" "13-07-2015" "16-07-2015" "03-07-2015" "03-07-2015"
##  [56] "03-07-2015" "03-07-2015" "03-07-2015" "03-07-2015" "04-07-2015"
##  [61] "04-07-2015" "04-07-2015" "05-07-2015" "05-07-2015" "29-06-2015"
##  [66] "05-07-2015" "05-07-2015" "05-07-2015" "16-06-2015" "18-06-2015"
##  [71] "03-07-2015" "12-06-2015" "05-07-2015" "05-07-2015" "09-06-2015"
##  [76] "06-07-2015" "26-05-2015" "07-07-2015" "07-07-2015" "11-07-2015"
##  [81] "12-07-2015" "19-05-2015" "13-07-2015" "09-06-2015" "13-07-2015"
##  [86] "17-07-2015" "17-07-2015" "15-04-2015" "04-07-2015" "04-07-2015"
##  [91] "04-07-2015" "04-07-2015" "04-07-2015" "04-07-2015" "26-05-2015"
##  [96] "29-06-2015" "13-05-2015" "10-07-2015" "10-07-2015" "10-07-2015"
## [101] "07-07-2015" "07-07-2015" "10-07-2015" "10-07-2015" "11-07-2015"
## [106] "09-06-2015" "20-05-2015" "22-04-2015" "11-07-2015" "11-07-2015"
## [111] "11-07-2015" "11-07-2015" "11-07-2015" "12-07-2015" "12-05-2015"
## [116] "12-07-2015" "14-07-2015" "14-07-2015" "14-07-2015" "05-07-2015"
## [121] "05-07-2015" "29-05-2015" "04-07-2015" "13-05-2015" "16-06-2015"
## [126] "05-07-2015" "05-07-2015" "06-07-2015" "06-07-2015" "06-07-2015"
## [131] "06-07-2015" "06-07-2015" "01-07-2015" "06-07-2015" "06-07-2015"
## [136] "06-07-2015" "06-07-2015" "06-07-2015" "01-07-2015" "06-07-2015"
## [141] "07-07-2015" "07-07-2015" "09-07-2015" "10-07-2015" "10-07-2015"
## [146] "10-07-2015" "11-07-2015" "11-07-2015" "17-06-2015" "01-05-2015"
## [151] "12-07-2015" "12-07-2015" "30-03-2015" "12-07-2015" "14-07-2015"
## [156] "15-07-2015" "15-07-2015" "16-07-2015" "19-07-2015" "19-07-2015"
```

```
## [161] "11-07-2015" "10-07-2015" "10-07-2015" "10-07-2015" "10-07-2015"
## [166] "10-07-2015" "10-07-2015" "06-07-2015" "06-07-2015" "07-07-2015"
## [171] "08-07-2015" "08-07-2015" "09-07-2015" "03-06-2015" "10-07-2015"
## [176] "10-07-2015" "11-07-2015" "11-07-2015" "12-07-2015" "12-07-2015"
## [181] "13-07-2015" "26-06-2015" "13-07-2015" "14-07-2015" "14-05-2015"
## [186] "16-07-2015" "16-07-2015" "16-07-2015" "16-07-2015" "17-07-2015"
## [191] "20-07-2015" "20-07-2015" "13-07-2015" "07-05-2015" "10-07-2015"
## [196] "10-07-2015" "07-07-2015" "07-07-2015" "08-07-2015" "08-07-2015"
## [201] "08-07-2015" "11-07-2015" "11-07-2015" "11-07-2015" "11-07-2015"
## [206] "28-05-2015" "13-04-2015" "14-07-2015" "25-03-2015" "21-07-2015"
## [211] "11-07-2015" "12-07-2015" "12-07-2015" "28-05-2015" "12-07-2015"
## [216] "12-07-2015" "29-06-2015" "09-07-2015" "08-07-2015" "08-07-2015"
## [221] "10-07-2015" "28-05-2015" "14-07-2015" "15-04-2015" "15-07-2015"
## [226] "15-07-2015" "15-07-2015" "16-07-2015" "17-07-2015" "17-07-2015"
## [231] "10-07-2015" "11-07-2015" "11-07-2015" "02-06-2015" "16-06-2015"
## [236] "16-06-2015" "12-07-2015" "23-06-2015" "27-06-2015" "13-07-2015"
## [241] "14-07-2015" "14-07-2015" "16-07-2015" "16-07-2015" "16-07-2015"
## [246] "16-07-2015" "16-07-2015" "13-05-2015" "11-07-2015" "12-07-2015"
## [251] "12-07-2015" "12-07-2015" "12-07-2015" "12-07-2015" "12-07-2015"
## [256] "12-07-2015" "12-07-2015" "13-07-2015" "13-07-2015" "13-07-2015"
## [261] "14-07-2015" "14-07-2015" "29-06-2015" "15-07-2015" "15-07-2015"
## [266] "15-07-2015" "17-07-2015" "17-07-2015" "17-07-2015" "17-07-2015"
## [271] "17-07-2015" "17-07-2015" "17-07-2015" "18-07-2015" "19-07-2015"
## [276] "20-07-2015" "21-07-2015" "23-07-2015" "17-07-2015" "17-07-2015"
## [281] "29-05-2015" "16-07-2015" "17-07-2015" "08-06-2015" "17-07-2015"
## [286] "17-07-2015" "18-07-2015" "22-04-2015" "15-07-2015" "15-07-2015"
## [291] "15-07-2015" "12-07-2015" "12-07-2015" "12-07-2015" "12-07-2015"
## [296] "13-07-2015" "13-07-2015" "13-07-2015" "14-07-2015"
```

```
diff(mydata$adr)
```

```
## [1]     0.00    75.00     0.00    23.00     0.00     9.00    -4.00   -21.00    23.50
## [10]    17.50    22.00   -48.00    57.77   -60.06     2.29     0.50    -9.30    19.22
## [19]    45.58   -55.71   -12.62     0.00    15.00    -4.72   -31.35    15.90    27.50
## [28]   -13.00    -6.70   -25.30     1.86    44.44   -42.80    43.30     0.00   -10.80
## [37]    10.80     0.00    28.20   -19.19   -38.31    43.50    14.00   -26.30    42.30
## [46]   -94.05    23.93    -0.53    37.00   -51.77   -11.57    54.69   -22.50    58.80
## [55]   -40.00    40.00   -29.10     5.10   -25.00    19.81    17.19    -2.00   -74.05
## [64]    77.38    16.67   -42.50   -13.50    13.30   -28.30    15.00   -23.20    17.70
## [73]    23.00    -4.20   -19.40    32.10    -1.00   -11.30   -24.84   -26.91    -3.27
## [82]     0.00    68.32   -12.85    23.58   -42.28    16.28   -34.93    24.20    33.00
## [91]    -8.00   -28.29    28.29     0.00   -49.20    43.20    79.54   -97.24    -8.35
## [100]    1.72   -21.12    24.94   -10.69    10.50    66.70     9.00   -61.30   -51.75
## [109]   14.85    23.20    42.00   -71.76    49.26   -20.20    26.70   -51.45     0.00
## [118]   77.45    14.00   -83.50    25.50    18.00   -49.20    39.20  -113.00   123.00
## [127]  -49.20    40.70   -40.70     0.00    14.40     8.80   -11.90     3.90    -8.90
## [136]   17.90     3.00    -4.00    70.00    58.00  -128.00    -9.70    -1.71    37.41
## [145]  -16.00    56.00   -81.00    81.00   -57.50    58.70   -66.91    16.71   -15.60
## [154]   76.60  -111.40    60.85   -13.75   -36.63    60.03    32.90   -44.00    -5.19
## [163]   53.51    38.68  -113.00    20.81  -117.81     0.00   131.00   -33.00   -10.70
## [172]    9.70    70.00   -75.50   -17.70    49.20    52.00   -57.20    -0.17    67.37
## [181] -114.00   -23.75   103.75   -63.70    33.30   -56.74    93.24   -65.73   -18.37
## [190]   37.70   -17.10   -10.10    -9.70     8.20   103.50  -185.50     0.00   109.80
## [199]   85.20   -85.20    83.20   -96.00    53.00   -52.00    -6.50    47.50   -59.50
```

```
## [208]  -32.25   79.40  -19.65   24.00    0.00   -8.00   23.00  -35.30  -36.90
## [217]  -12.80   43.72    0.00    0.00  -38.30   11.54   34.04   -5.00  -17.32
## [226]   65.32  -43.00   18.10  -30.00   22.90    1.00   22.00  -49.00   26.00
## [235]   30.00  -71.00   23.08  -39.66   32.58  -22.54   -9.96   25.45    2.65
## [244]   25.65   15.48  -22.73    6.13   12.87  -42.80  -14.40   24.20   12.50
## [253]   20.50   54.00  -97.70  -13.50   46.20  -22.00   -1.70  100.70    0.00
## [262]  -74.00  -41.00   83.00  -15.60  -42.56   54.16  -26.57   10.00    7.57
## [271]  -26.46    8.29   25.92  -39.15   -8.40   -1.60   -4.70  -10.63   13.56
## [280]   45.13  -33.36  -29.93   36.00   17.73  -44.90   39.90  -65.60   16.17
## [289]   33.03    0.00    0.00   21.90    8.10  -22.00  -31.00  -34.50   57.50
## [298]    0.00
```

duplicated(mydata)

```
##   [1] FALSE FALSE FALSE FALSE FALSE  TRUE FALSE FALSE FALSE FALSE FALSE FALSE
##  [13] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  TRUE FALSE
##  [25] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [37] FALSE FALSE FALSE FALSE FALSE FALSE FALSE  TRUE FALSE FALSE FALSE FALSE
##  [49] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [61] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [73] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [85] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##  [97] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [109] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [121] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [133] FALSE FALSE FALSE FALSE FALSE FALSE  TRUE FALSE FALSE FALSE FALSE FALSE
## [145] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [157] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [169] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [181] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [193] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  TRUE FALSE FALSE FALSE
## [205] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [217] FALSE FALSE FALSE  TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [229] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [241] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [253] FALSE FALSE FALSE FALSE  TRUE FALSE FALSE FALSE FALSE  TRUE FALSE FALSE
## [265] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [277] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [289] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
```

exp(mydata$adr)

```
##   [1] 1.000000e+00 1.000000e+00 3.733242e+32 3.733242e+32 3.637971e+42
##   [6] 3.637971e+42 2.947878e+46 5.399228e+44 4.093997e+35 6.577606e+45
##  [11] 2.619517e+53 9.390741e+62 1.338335e+42 1.643452e+67 1.355284e+41
##  [16] 1.338335e+42 2.206541e+42 2.017313e+38 4.486558e+46 2.799341e+66
##  [21] 1.788587e+42 5.911719e+36 5.911719e+36 1.932551e+43 1.722904e+41
##  [26] 4.179545e+27 3.360557e+34 2.947878e+46 6.663176e+40 8.201783e+37
##  [31] 8.438357e+26 5.420578e+27 1.081664e+47 2.794400e+28 1.783363e+47
##  [36] 1.783363e+47 3.637971e+42 1.783363e+47 1.783363e+47 3.150243e+59
##  [41] 1.459597e+51 3.360557e+34 2.619517e+53 3.150243e+59 1.192337e+48
##  [46] 2.799341e+66 3.996315e+25 9.870216e+35 5.809658e+35 6.808421e+51
##  [51] 2.236769e+29 2.112681e+24 1.192337e+48 2.017313e+38 6.938871e+63
```

```
## [56] 2.947878e+46 6.938871e+63 1.597053e+51 2.619517e+53 3.637971e+42
## [61] 1.459597e+51 4.263390e+58 5.769871e+57 3.996315e+25 1.612006e+59
## [66] 2.799341e+66 9.762033e+47 1.338335e+42 7.992476e+47 4.093997e+35
## [71] 1.338335e+42 1.124431e+32 5.469468e+39 5.329889e+49 7.992476e+47
## [76] 3.001708e+39 2.619517e+53 9.636666e+52 1.192337e+48 1.943230e+37
## [81] 3.996315e+25 1.518857e+24 1.518857e+24 7.120586e+53 1.869957e+48
## [86] 3.254584e+58 1.414246e+40 1.662796e+47 1.124431e+32 3.637971e+42
## [91] 7.808671e+56 2.619517e+53 1.355284e+41 2.619517e+53 2.619517e+53
## [96] 1.124431e+32 6.493134e+50 2.271106e+85 1.334879e+43 3.155609e+39
## [101] 1.762259e+40 1.185141e+31 8.036641e+41 1.830065e+37 6.645974e+41
## [106] 6.165958e+70 4.996327e+74 1.192337e+48 3.996315e+25 1.124431e+32
## [111] 1.338335e+42 2.327732e+60 1.592066e+29 3.938285e+50 6.645974e+41
## [116] 2.619517e+53 1.185141e+31 1.185141e+31 5.127171e+64 6.165958e+70
## [121] 3.360557e+34 3.989520e+45 2.619517e+53 1.124431e+32 1.189259e+49
## [126] 1.000000e+00 2.619517e+53 1.124431e+32 5.329889e+49 1.124431e+32
## [131] 1.124431e+32 2.017313e+38 1.338335e+42 9.087835e+36 4.489613e+38
## [136] 6.123335e+34 3.637971e+42 7.307060e+43 1.338335e+42 3.366499e+72
## [141] 5.203055e+97 1.338335e+42 8.201783e+37 1.483422e+37 2.619517e+53
## [146] 2.947878e+46 6.165958e+70 4.093997e+35 6.165958e+70 6.577606e+45
## [151] 2.047170e+71 1.788587e+42 3.232741e+49 5.427215e+42 1.003539e+76
## [156] 4.179545e+27 1.116730e+54 1.192337e+48 1.472964e+32 1.733365e+58
## [161] 3.366499e+72 2.619517e+53 1.459597e+51 2.531224e+74 1.591627e+91
## [166] 1.338335e+42 1.459597e+51 1.000000e+00 1.000000e+00 7.808671e+56
## [171] 3.637971e+42 8.201783e+37 1.338335e+42 3.366499e+72 5.469468e+39
## [176] 1.124431e+32 2.619517e+53 1.003539e+76 1.445074e+51 1.219158e+51
## [181] 2.210442e+80 6.837671e+30 3.314471e+20 3.788495e+65 8.201783e+37
## [186] 2.376372e+52 5.420578e+27 1.689130e+68 4.802715e+39 5.052394e+31
## [191] 1.192337e+48 4.466461e+40 1.834802e+36 1.124431e+32 4.093997e+35
## [196] 3.644403e+80 1.000000e+00 1.000000e+00 4.847682e+47 4.868823e+84
## [201] 4.847682e+47 6.589235e+83 1.338335e+42 1.393710e+65 3.637971e+42
## [206] 5.469468e+39 2.327732e+60 3.360557e+34 3.314471e+20 1.007851e+55
## [211] 2.947878e+46 7.808671e+56 7.808671e+56 2.619517e+53 2.552668e+63
## [216] 1.192337e+48 1.124431e+32 3.104298e+26 3.015214e+45 3.015214e+45
## [221] 3.015214e+45 7.011961e+28 7.204400e+33 4.375039e+48 2.947878e+46
## [226] 8.861947e+38 2.068448e+67 4.375039e+48 3.174769e+56 2.970829e+43
## [231] 2.619517e+53 7.120586e+53 2.552668e+63 1.338335e+42 2.619517e+53
## [236] 2.799341e+66 4.093997e+35 4.321795e+45 2.579556e+28 3.637971e+42
## [241] 5.913732e+32 2.794400e+28 3.155609e+39 4.466461e+40 6.160514e+51
## [246] 3.254584e+58 4.375039e+48 2.010051e+51 7.808671e+56 2.017313e+38
## [251] 1.124431e+32 3.637971e+42 9.762033e+47 7.808671e+56 2.210442e+80
## [256] 8.201783e+37 1.124431e+32 1.304181e+52 3.637971e+42 6.645974e+41
## [261] 3.597601e+85 3.597601e+85 2.619517e+53 4.093997e+35 4.556061e+71
## [266] 7.648840e+64 2.512016e+46 8.344716e+69 2.411055e+58 5.310703e+62
## [271] 1.029820e+66 3.321462e+54 1.323215e+58 2.390801e+69 2.376372e+52
## [276] 5.343685e+48 1.078871e+48 9.812635e+45 2.372659e+41 1.837674e+47
## [281] 7.311028e+66 2.376372e+52 2.384958e+39 1.028210e+55 5.153748e+62
## [286] 1.630425e+43 3.472568e+60 1.124431e+32 1.184335e+39 2.619517e+53
## [291] 2.619517e+53 2.619517e+53 8.497094e+62 2.799341e+66 7.808671e+56
## [296] 2.688117e+43 2.794400e+28 2.619517e+53 2.619517e+53
```

```
log10(mydata$adr)
```

```
## [1]    -Inf    -Inf 1.875061 1.875061 1.991226 1.991226 2.029384 2.012837
## [9] 1.913814 2.023252 2.089905 2.161368 1.986772 2.189687 1.976396 1.986772
```

```
## [17] 1.989005 1.945469 2.031085 2.184691 1.988068 1.927730 1.927730 1.998564
## [25] 1.977495 1.803457 1.900367 2.029384 1.973128 1.941014 1.792392 1.805229
## [33] 2.034628 1.816241 2.036629 2.036629 1.991226 2.036629 2.036629 2.136721
## [41] 2.071182 1.900367 2.089905 2.136721 2.044148 2.184691 1.770484 1.918450
## [49] 1.915664 2.076822 1.829818 1.748266 2.044148 1.945469 2.167317 2.029384
## [57] 2.167317 2.071514 2.089905 1.991226 2.071182 2.130334 2.123852 1.770484
## [65] 2.134591 2.184691 2.043362 1.986772 2.042576 1.913814 1.986772 1.868056
## [73] 1.961421 2.058805 2.042576 1.958564 2.089905 2.086360 2.044148 1.933791
## [81] 1.770484 1.745699 1.745699 2.093422 2.045909 2.129464 1.965907 2.036349
## [89] 1.868056 1.991226 2.117271 2.089905 1.976396 2.089905 2.089905 1.868056
## [97] 2.068186 2.293451 1.996949 1.958803 1.966939 1.854610 1.984482 1.933487
## [105] 1.983626 2.212188 2.235528 2.044148 1.770484 1.868056 1.986772 2.143015
## [113] 1.827628 2.066326 1.983626 2.089905 1.854610 1.854610 2.173186 2.212188
## [121] 1.900367 2.021189 2.089905 1.868056 2.053078      -Inf 2.089905 1.868056
## [129] 2.058805 1.868056 1.868056 1.945469 1.986772 1.929930 1.949390 1.903633
## [137] 1.991226 2.004321 1.986772 2.222716 2.352183 1.986772 1.941014 1.932423
## [145] 2.089905 2.029384 2.212188 1.913814 2.212188 2.023252 2.215373 1.988068
## [153] 2.056905 1.992995 2.243038 1.803457 2.094995 2.044148 1.869642 2.127429
## [161] 2.222716 2.089905 2.071182 2.233808 2.322219 1.986772 2.071182      -Inf
## [169]      -Inf 2.117271 1.991226 1.941014 1.986772 2.222716 1.961421 1.868056
## [177] 2.089905 2.243038 2.071145 2.070518 2.267172 1.851258 1.674402 2.178977
## [185] 1.941014 2.081347 1.805229 2.196176 1.960804 1.863323 2.044148 1.971276
## [193] 1.921686 1.868056 1.913814 2.268344      -Inf      -Inf 2.040602 2.290035
## [201] 2.040602 2.285557 1.986772 2.176091 1.991226 1.961421 2.143015 1.900367
## [209] 1.674402 2.102605 2.029384 2.117271 2.117271 2.089905 2.164353 2.044148
## [217] 1.868056 1.785330 2.020030 2.020030 2.020030 1.822299 1.891872 2.049218
## [225] 2.029384 1.952696 2.190332 2.049218 2.114277 2.000434 2.089905 2.093422
## [233] 2.164353 1.986772 2.089905 2.184691 1.913814 2.021520 1.815711 1.991226
## [241] 1.877717 1.816241 1.958803 1.971276 2.076458 2.129464 2.049218 2.072360
## [249] 2.117271 1.945469 1.868056 1.991226 2.043362 2.117271 2.267172 1.941014
## [257] 1.868056 2.079181 1.991226 1.983626 2.294466 2.294466 2.089905 1.913814
## [265] 2.217484 2.174351 2.028734 2.206826 2.128496 2.159657 2.181844 2.098782
## [273] 2.126553 2.203441 2.081347 2.049993 2.043755 2.024896 1.978956 2.036749
## [281] 2.187408 2.081347 1.957464 2.102674 2.159567 1.997823 2.144263 1.868056
## [289] 1.954098 2.089905 2.089905 2.089905 2.161068 2.184691 2.117271 2.000000
## [297] 1.816241 2.089905 2.089905
```

```
mad((mydata$adr))
```

```
## [1] 27.87288
```

```
pmax(mydata$adr)
```

```
##   [1]   0.00   0.00  75.00  75.00  98.00  98.00 107.00 103.00  82.00 105.50
##  [11] 123.00 145.00  97.00 154.77  94.71  97.00  97.50  88.20 107.42 153.00
##  [21]  97.29  84.67  84.67  99.67  94.95  63.60  79.50 107.00  94.00  87.30
##  [31]  62.00  63.86 108.30  65.50 108.80 108.80  98.00 108.80 108.80 137.00
##  [41] 117.81  79.50 123.00 137.00 110.70 153.00  58.95  82.88  82.35 119.35
##  [51]  67.58  56.01 110.70  88.20 147.00 107.00 147.00 117.90 123.00  98.00
##  [61] 117.81 135.00 133.00  58.95 136.33 153.00 110.50  97.00 110.30  82.00
##  [71]  97.00  73.80  91.50 114.50 110.30  90.90 123.00 122.00 110.70  85.86
##  [81]  58.95  55.68  55.68 124.00 111.15 134.73  92.45 108.73  73.80  98.00
##  [91] 131.00 123.00  94.71 123.00 123.00  73.80 117.00 196.54  99.30  90.95
```

```
## [101]  92.67  71.55  96.49  85.80  96.30 163.00 172.00 110.70  58.95  73.80
## [111]  97.00 139.00  67.24 116.50  96.30 123.00  71.55  71.55 149.00 163.00
## [121]  79.50 105.00 123.00  73.80 113.00   0.00 123.00  73.80 114.50  73.80
## [131]  73.80  88.20  97.00  85.10  89.00  80.10  98.00 101.00  97.00 167.00
## [141] 225.00  97.00  87.30  85.59 123.00 107.00 163.00  82.00 163.00 105.50
## [151] 164.20  97.29 114.00  98.40 175.00  63.60 124.45 110.70  74.07 134.10
## [161] 167.00 123.00 117.81 171.32 210.00  97.00 117.81   0.00   0.00 131.00
## [171]  98.00  87.30  97.00 167.00  91.50  73.80 123.00 175.00 117.80 117.63
## [181] 185.00  71.00  47.25 151.00  87.30 120.60  63.86 157.10  91.37  73.00
## [191] 110.70  93.60  83.50  73.80  82.00 185.50   0.00   0.00 109.80 195.00
## [201] 109.80 193.00  97.00 150.00  98.00  91.50 139.00  79.50  47.25 126.65
## [211] 107.00 131.00 131.00 123.00 146.00 110.70  73.80  61.00 104.72 104.72
## [221] 104.72  66.42  77.96 112.00 107.00  89.68 155.00 112.00 130.10 100.10
## [231] 123.00 124.00 146.00  97.00 123.00 153.00  82.00 105.08  65.42  98.00
## [241]  75.46  65.50  90.95  93.60 119.25 134.73 112.00 118.13 131.00  88.20
## [251]  73.80  98.00 110.50 131.00 185.00  87.30  73.80 120.00  98.00  96.30
## [261] 197.00 197.00 123.00  82.00 165.00 149.40 106.84 161.00 134.43 144.43
## [271] 152.00 125.54 133.83 159.75 120.60 112.20 110.60 105.90  95.27 108.83
## [281] 153.96 120.60  90.67 126.67 144.40  99.50 139.40  73.80  89.97 123.00
## [291] 123.00 123.00 144.90 153.00 131.00 100.00  65.50 123.00 123.00
```

```
sign(mydata$lead_time)
```

```
##   [1] 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
##  [38] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1
##  [75] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [112] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [149] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [186] 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 1
## [223] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [260] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 1
## [297] 1 1 1
```

```
round(mydata$adr)
```

```
##   [1]   0   0  75  75  98  98 107 103  82 106 123 145  97 155  95  97  98  88
##  [19] 107 153  97  85  85 100  95  64  80 107  94  87  62  64 108  66 109 109
##  [37]  98 109 109 137 118  80 123 137 111 153  59  83  82 119  68  56 111  88
##  [55] 147 107 147 118 123  98 118 135 133  59 136 153 110  97 110  82  97  74
##  [73]  92 114 110  91 123 122 111  86  59  56  56 124 111 135  92 109  74  98
##  [91] 131 123  95 123 123  74 117 197  99  91  93  72  96  86  96 163 172 111
## [109]  59  74  97 139  67 116  96 123  72  72 149 163  80 105 123  74 113   0
## [127] 123  74 114  74  74  88  97  85  89  80  98 101  97 167 225  97  87  86
## [145] 123 107 163  82 163 106 164  97 114  98 175  64 124 111  74 134 167 123
## [163] 118 171 210  97 118   0   0 131  98  87  97 167  92  74 123 175 118 118
## [181] 185  71  47 151  87 121  64 157  91  73 111  94  84  74  82 186   0   0
## [199] 110 195 110 193  97 150  98  92 139  80  47 127 107 131 131 123 146 111
## [217]  74  61 105 105 105  66  78 112 107  90 155 112 130 100 123 124 146  97
## [235] 123 153  82 105  65  98  75  66  91  94 119 135 112 118 131  88  74  98
## [253] 110 131 185  87  74 120  98  96 197 197 123  82 165 149 107 161 134 144
## [271] 152 126 134 160 121 112 111 106  95 109 154 121  91 127 144 100 139  74
## [289]  90 123 123 123 145 153 131 100  66 123 123
```

```r
IQR(mydata$adr)
```

```
## [1] 35.7
```

```r
floor(mydata$lead_time)
```

```
##   [1] 342 737   7  13  14  14   0   9  85  75  23  35  68  18  37  68  37  12
##  [19]   0   7  37  72  72  72 127  78  48  60  77  99 118  95  96  69  45  40
##  [37]  15  36  43  70  45  45  16  70 107  47  96 113  90  50 113  93  76   3
##  [55]   1   1   0   0   0  14  10   5  17  93   3  10   3  51  71  63  62 101
##  [73]   2  15  51   3  48   2  72  81  99 368 364  81  99 324  69  79  12   9
##  [91]   1  21   9 109 109  72  63  63 101 102   4  98  92  95 102  26  73 102
## [109] 115 102  86  78  52  29 101 109  92  92  79   2  30  51  36  73  33  32
## [127]   8 100   1 100 100   9   5   0   9   2   2   9   5   2  44  80  97 109
## [145]  30  64  39  90  34  93  97  29 101  27   8  82  94 110  96  79 115 111
## [163]  51  94  81  84  51 111   0   2   7  98  95  48  66 104  28  34  98 104
## [181]  68  86 258 111  94 112 100  33  97  80  90 111  65  67  55  21   8   8
## [199]   0   0   0   8  66  88   0  43  88  54 292 112  68   7   1 113   5  83
## [217] 105   0   1   1   1 102 113 280  96 394  33  82 100 100  17  68  12  77
## [235]  24  44  78  17 103  16  14  77  90  90  90 366 249  69  10  22  91  23
## [253]  11   3  13 108  91  37  21 106  30  30  51  79  21  35  78  31  78  78
## [271]  44  34  87  11 115  86  41  32  34  34 100  44 304  36 117  70 110 109
## [289]  33  33  33   0   0   0   0  84  71  16  54
```

```r
formatC(mydata$lead_time)
```

```
##   [1] "342" "737" "7"   "13"  "14"  "14"  "0"   "9"   "85"  "75"  "23"  "35"
##  [13] "68"  "18"  "37"  "68"  "37"  "12"  "0"   "7"   "37"  "72"  "72"  "72"
##  [25] "127" "78"  "48"  "60"  "77"  "99"  "118" "95"  "96"  "69"  "45"  "40"
##  [37] "15"  "36"  "43"  "70"  "45"  "45"  "16"  "70"  "107" "47"  "96"  "113"
##  [49] "90"  "50"  "113" "93"  "76"  "3"   "1"   "1"   "0"   "0"   "0"   "14"
##  [61] "10"  "5"   "17"  "93"  "3"   "10"  "3"   "51"  "71"  "63"  "62"  "101"
##  [73] "2"   "15"  "51"  "3"   "48"  "2"   "72"  "81"  "99"  "368" "364" "81"
##  [85] "99"  "324" "69"  "79"  "12"  "9"   "1"   "21"  "9"   "109" "109" "72"
##  [97] "63"  "63"  "101" "102" "4"   "98"  "92"  "95"  "102" "26"  "73"  "102"
## [109] "115" "102" "86"  "78"  "52"  "29"  "101" "109" "92"  "92"  "79"  "2"
## [121] "30"  "51"  "36"  "73"  "33"  "32"  "8"   "100" "1"   "100" "100" "9"
## [133] "5"   "0"   "9"   "2"   "2"   "9"   "5"   "2"   "44"  "80"  "97"  "109"
## [145] "30"  "64"  "39"  "90"  "34"  "93"  "97"  "29"  "101" "27"  "8"   "82"
## [157] "94"  "110" "96"  "79"  "115" "111" "51"  "94"  "81"  "84"  "51"  "111"
## [169] "0"   "2"   "7"   "98"  "95"  "48"  "66"  "104" "28"  "34"  "98"  "104"
## [181] "68"  "86"  "258" "111" "94"  "112" "100" "33"  "97"  "80"  "90"  "111"
## [193] "65"  "67"  "55"  "21"  "8"   "8"   "0"   "0"   "0"   "8"   "66"  "88"
## [205] "0"   "43"  "88"  "54"  "292" "112" "68"  "7"   "1"   "113" "5"   "83"
## [217] "105" "0"   "1"   "1"   "1"   "102" "113" "280" "96"  "394" "33"  "82"
## [229] "100" "100" "17"  "68"  "12"  "77"  "24"  "44"  "78"  "17"  "103" "16"
## [241] "14"  "77"  "90"  "90"  "90"  "366" "249" "69"  "10"  "22"  "91"  "23"
## [253] "11"  "3"   "13"  "108" "91"  "37"  "21"  "106" "30"  "30"  "51"  "79"
## [265] "21"  "35"  "78"  "31"  "78"  "78"  "44"  "34"  "87"  "11"  "115" "86"
## [277] "41"  "32"  "34"  "34"  "100" "44"  "304" "36"  "117" "70"  "110" "109"
## [289] "33"  "33"  "33"  "0"   "0"   "0"   "0"   "84"  "71"  "16"  "54"
```

```
identity(mydata)
```

```
##           hotel is_canceled lead_time arrival_date_year arrival_date_month
## 1   Resort Hotel           0       342              2015               July
## 2   Resort Hotel           0       737              2015               July
## 3   Resort Hotel           0         7              2015               July
## 4   Resort Hotel           0        13              2015               July
## 5   Resort Hotel           0        14              2015               July
## 6   Resort Hotel           0        14              2015               July
## 7   Resort Hotel           0         0              2015               July
## 8   Resort Hotel           0         9              2015               July
## 9   Resort Hotel           1        85              2015               July
## 10  Resort Hotel           1        75              2015               July
## 11  Resort Hotel           1        23              2015               July
## 12  Resort Hotel           0        35              2015               July
## 13  Resort Hotel           0        68              2015               July
## 14  Resort Hotel           0        18              2015               July
## 15  Resort Hotel           0        37              2015               July
## 16  Resort Hotel           0        68              2015               July
## 17  Resort Hotel           0        37              2015               July
## 18  Resort Hotel           0        12              2015               July
## 19  Resort Hotel           0         0              2015               July
## 20  Resort Hotel           0         7              2015               July
## 21  Resort Hotel           0        37              2015               July
## 22  Resort Hotel           0        72              2015               July
## 23  Resort Hotel           0        72              2015               July
## 24  Resort Hotel           0        72              2015               July
## 25  Resort Hotel           0       127              2015               July
## 26  Resort Hotel           0        78              2015               July
## 27  Resort Hotel           0        48              2015               July
## 28  Resort Hotel           1        60              2015               July
## 29  Resort Hotel           0        77              2015               July
## 30  Resort Hotel           0        99              2015               July
## 31  Resort Hotel           0       118              2015               July
## 32  Resort Hotel           0        95              2015               July
## 33  Resort Hotel           1        96              2015               July
## 34  Resort Hotel           0        69              2015               July
## 35  Resort Hotel           1        45              2015               July
## 36  Resort Hotel           1        40              2015               July
## 37  Resort Hotel           0        15              2015               July
## 38  Resort Hotel           0        36              2015               July
## 39  Resort Hotel           1        43              2015               July
## 40  Resort Hotel           0        70              2015               July
## 41  Resort Hotel           1        45              2015               July
## 42  Resort Hotel           0        45              2015               July
## 43  Resort Hotel           0        16              2015               July
## 44  Resort Hotel           0        70              2015               July
## 45  Resort Hotel           0       107              2015               July
## 46  Resort Hotel           1        47              2015               July
## 47  Resort Hotel           0        96              2015               July
## 48  Resort Hotel           0       113              2015               July
## 49  Resort Hotel           0        90              2015               July
## 50  Resort Hotel           0        50              2015               July
```

```
## 51  Resort Hotel        0    113    2015        July
## 52  Resort Hotel        0     93    2015        July
## 53  Resort Hotel        0     76    2015        July
## 54  Resort Hotel        0      3    2015        July
## 55  Resort Hotel        0      1    2015        July
## 56  Resort Hotel        0      1    2015        July
## 57  Resort Hotel        0      0    2015        July
## 58  Resort Hotel        0      0    2015        July
## 59  Resort Hotel        0      0    2015        July
## 60  Resort Hotel        0     14    2015        July
## 61  Resort Hotel        0     10    2015        July
## 62  Resort Hotel        0      5    2015        July
## 63  Resort Hotel        0     17    2015        July
## 64  Resort Hotel        0     93    2015        July
## 65  Resort Hotel        1      3    2015        July
## 66  Resort Hotel        0     10    2015        July
## 67  Resort Hotel        0      3    2015        July
## 68  Resort Hotel        0     51    2015        July
## 69  Resort Hotel        1     71    2015        July
## 70  Resort Hotel        1     63    2015        July
## 71  Resort Hotel        1     62    2015        July
## 72  Resort Hotel        1    101    2015        July
## 73  Resort Hotel        0      2    2015        July
## 74  Resort Hotel        0     15    2015        July
## 75  Resort Hotel        1     51    2015        July
## 76  Resort Hotel        0      3    2015        July
## 77  Resort Hotel        1     48    2015        July
## 78  Resort Hotel        0      2    2015        July
## 79  Resort Hotel        0     72    2015        July
## 80  Resort Hotel        0     81    2015        July
## 81  Resort Hotel        0     99    2015        July
## 82  Resort Hotel        1    368    2015        July
## 83  Resort Hotel        0    364    2015        July
## 84  Resort Hotel        1     81    2015        July
## 85  Resort Hotel        0     99    2015        July
## 86  Resort Hotel        0    324    2015        July
## 87  Resort Hotel        0     69    2015        July
## 88  Resort Hotel        1     79    2015        July
## 89  Resort Hotel        0     12    2015        July
## 90  Resort Hotel        0      9    2015        July
## 91  Resort Hotel        0      1    2015        July
## 92  Resort Hotel        0     21    2015        July
## 93  Resort Hotel        0      9    2015        July
## 94  Resort Hotel        0    109    2015        July
## 95  Resort Hotel        1    109    2015        July
## 96  Resort Hotel        1     72    2015        July
## 97  Resort Hotel        1     63    2015        July
## 98  Resort Hotel        0     63    2015        July
## 99  Resort Hotel        0    101    2015        July
## 100 Resort Hotel        0    102    2015        July
## 101 Resort Hotel        0      4    2015        July
## 102 Resort Hotel        0     98    2015        July
## 103 Resort Hotel        0     92    2015        July
## 104 Resort Hotel        0     95    2015        July
```

```
## 105 Resort Hotel           0       102         2015            July
## 106 Resort Hotel           1        26         2015            July
## 107 Resort Hotel           1        73         2015            July
## 108 Resort Hotel           1       102         2015            July
## 109 Resort Hotel           0       115         2015            July
## 110 Resort Hotel           0       102         2015            July
## 111 Resort Hotel           0        86         2015            July
## 112 Resort Hotel           0        78         2015            July
## 113 Resort Hotel           0        52         2015            July
## 114 Resort Hotel           0        29         2015            July
## 115 Resort Hotel           1       101         2015            July
## 116 Resort Hotel           0       109         2015            July
## 117 Resort Hotel           0        92         2015            July
## 118 Resort Hotel           0        92         2015            July
## 119 Resort Hotel           0        79         2015            July
## 120 Resort Hotel           0         2         2015            July
## 121 Resort Hotel           0        30         2015            July
## 122 Resort Hotel           1        51         2015            July
## 123 Resort Hotel           1        36         2015            July
## 124 Resort Hotel           1        73         2015            July
## 125 Resort Hotel           1        33         2015            July
## 126 Resort Hotel           0        32         2015            July
## 127 Resort Hotel           0         8         2015            July
## 128 Resort Hotel           0       100         2015            July
## 129 Resort Hotel           0         1         2015            July
## 130 Resort Hotel           0       100         2015            July
## 131 Resort Hotel           0       100         2015            July
## 132 Resort Hotel           0         9         2015            July
## 133 Resort Hotel           1         5         2015            July
## 134 Resort Hotel           0         0         2015            July
## 135 Resort Hotel           0         9         2015            July
## 136 Resort Hotel           0         2         2015            July
## 137 Resort Hotel           0         2         2015            July
## 138 Resort Hotel           0         9         2015            July
## 139 Resort Hotel           1         5         2015            July
## 140 Resort Hotel           0         2         2015            July
## 141 Resort Hotel           0        44         2015            July
## 142 Resort Hotel           0        80         2015            July
## 143 Resort Hotel           0        97         2015            July
## 144 Resort Hotel           0       109         2015            July
## 145 Resort Hotel           0        30         2015            July
## 146 Resort Hotel           0        64         2015            July
## 147 Resort Hotel           0        39         2015            July
## 148 Resort Hotel           0        90         2015            July
## 149 Resort Hotel           1        34         2015            July
## 150 Resort Hotel           1        93         2015            July
## 151 Resort Hotel           0        97         2015            July
## 152 Resort Hotel           0        29         2015            July
## 153 Resort Hotel           1       101         2015            July
## 154 Resort Hotel           0        27         2015            July
## 155 Resort Hotel           0         8         2015            July
## 156 Resort Hotel           0        82         2015            July
## 157 Resort Hotel           0        94         2015            July
## 158 Resort Hotel           0       110         2015            July
```

```
## 159 Resort Hotel          0        96        2015              July
## 160 Resort Hotel          0        79        2015              July
## 161 Resort Hotel          0       115        2015              July
## 162 Resort Hotel          0       111        2015              July
## 163 Resort Hotel          0        51        2015              July
## 164 Resort Hotel          0        94        2015              July
## 165 Resort Hotel          0        81        2015              July
## 166 Resort Hotel          0        84        2015              July
## 167 Resort Hotel          0        51        2015              July
## 168 Resort Hotel          0       111        2015              July
## 169 Resort Hotel          0         0        2015              July
## 170 Resort Hotel          0         2        2015              July
## 171 Resort Hotel          0         7        2015              July
## 172 Resort Hotel          0        98        2015              July
## 173 Resort Hotel          0        95        2015              July
## 174 Resort Hotel          1        48        2015              July
## 175 Resort Hotel          0        66        2015              July
## 176 Resort Hotel          0       104        2015              July
## 177 Resort Hotel          0        28        2015              July
## 178 Resort Hotel          0        34        2015              July
## 179 Resort Hotel          0        98        2015              July
## 180 Resort Hotel          0       104        2015              July
## 181 Resort Hotel          0        68        2015              July
## 182 Resort Hotel          1        86        2015              July
## 183 Resort Hotel          0       258        2015              July
## 184 Resort Hotel          0       111        2015              July
## 185 Resort Hotel          1        94        2015              July
## 186 Resort Hotel          0       112        2015              July
## 187 Resort Hotel          0       100        2015              July
## 188 Resort Hotel          0        33        2015              July
## 189 Resort Hotel          0        97        2015              July
## 190 Resort Hotel          0        80        2015              July
## 191 Resort Hotel          0        90        2015              July
## 192 Resort Hotel          0       111        2015              July
## 193 Resort Hotel          0        65        2015              July
## 194 Resort Hotel          1        67        2015              July
## 195 Resort Hotel          0        55        2015              July
## 196 Resort Hotel          0        21        2015              July
## 197 Resort Hotel          0         8        2015              July
## 198 Resort Hotel          0         8        2015              July
## 199 Resort Hotel          0         0        2015              July
## 200 Resort Hotel          0         0        2015              July
## 201 Resort Hotel          0         0        2015              July
## 202 Resort Hotel          0         8        2015              July
## 203 Resort Hotel          0        66        2015              July
## 204 Resort Hotel          0        88        2015              July
## 205 Resort Hotel          0         0        2015              July
## 206 Resort Hotel          1        43        2015              July
## 207 Resort Hotel          1        88        2015              July
## 208 Resort Hotel          0        54        2015              July
## 209 Resort Hotel          1       292        2015              July
## 210 Resort Hotel          0       112        2015              July
## 211 Resort Hotel          0        68        2015              July
## 212 Resort Hotel          0         7        2015              July
```

```
## 213 Resort Hotel          0      1        2015            July
## 214 Resort Hotel          1    113        2015            July
## 215 Resort Hotel          0      5        2015            July
## 216 Resort Hotel          0     83        2015            July
## 217 Resort Hotel          1    105        2015            July
## 218 Resort Hotel          0      0        2015            July
## 219 Resort Hotel          1      1        2015            July
## 220 Resort Hotel          1      1        2015            July
## 221 Resort Hotel          0      1        2015            July
## 222 Resort Hotel          1    102        2015            July
## 223 Resort Hotel          0    113        2015            July
## 224 Resort Hotel          1    280        2015            July
## 225 Resort Hotel          0     96        2015            July
## 226 Resort Hotel          0    394        2015            July
## 227 Resort Hotel          0     33        2015            July
## 228 Resort Hotel          0     82        2015            July
## 229 Resort Hotel          0    100        2015            July
## 230 Resort Hotel          0    100        2015            July
## 231 Resort Hotel          0     17        2015            July
## 232 Resort Hotel          0     68        2015            July
## 233 Resort Hotel          0     12        2015            July
## 234 Resort Hotel          1     77        2015            July
## 235 Resort Hotel          1     24        2015            July
## 236 Resort Hotel          1     44        2015            July
## 237 Resort Hotel          0     78        2015            July
## 238 Resort Hotel          1     17        2015            July
## 239 Resort Hotel          1    103        2015            July
## 240 Resort Hotel          0     16        2015            July
## 241 Resort Hotel          0     14        2015            July
## 242 Resort Hotel          0     77        2015            July
## 243 Resort Hotel          0     90        2015            July
## 244 Resort Hotel          0     90        2015            July
## 245 Resort Hotel          0     90        2015            July
## 246 Resort Hotel          0    366        2015            July
## 247 Resort Hotel          0    249        2015            July
## 248 Resort Hotel          1     69        2015            July
## 249 Resort Hotel          0     10        2015            July
## 250 Resort Hotel          0     22        2015            July
## 251 Resort Hotel          0     91        2015            July
## 252 Resort Hotel          0     23        2015            July
## 253 Resort Hotel          0     11        2015            July
## 254 Resort Hotel          0      3        2015            July
## 255 Resort Hotel          0     13        2015            July
## 256 Resort Hotel          0    108        2015            July
## 257 Resort Hotel          0     91        2015            July
## 258 Resort Hotel          0     37        2015            July
## 259 Resort Hotel          0     21        2015            July
## 260 Resort Hotel          0    106        2015            July
## 261 Resort Hotel          0     30        2015            July
## 262 Resort Hotel          0     30        2015            July
## 263 Resort Hotel          1     51        2015            July
## 264 Resort Hotel          0     79        2015            July
## 265 Resort Hotel          0     21        2015            July
## 266 Resort Hotel          0     35        2015            July
```

```
## 267 Resort Hotel           0       78         2015              July
## 268 Resort Hotel           0       31         2015              July
## 269 Resort Hotel           0       78         2015              July
## 270 Resort Hotel           0       78         2015              July
## 271 Resort Hotel           0       44         2015              July
## 272 Resort Hotel           0       34         2015              July
## 273 Resort Hotel           0       87         2015              July
## 274 Resort Hotel           0       11         2015              July
## 275 Resort Hotel           0      115         2015              July
## 276 Resort Hotel           0       86         2015              July
## 277 Resort Hotel           0       41         2015              July
## 278 Resort Hotel           0       32         2015              July
## 279 Resort Hotel           0       34         2015              July
## 280 Resort Hotel           0       34         2015              July
## 281 Resort Hotel           1      100         2015              July
## 282 Resort Hotel           0       44         2015              July
## 283 Resort Hotel           0      304         2015              July
## 284 Resort Hotel           1       36         2015              July
## 285 Resort Hotel           0      117         2015              July
## 286 Resort Hotel           0       70         2015              July
## 287 Resort Hotel           0      110         2015              July
## 288 Resort Hotel           1      109         2015              July
## 289 Resort Hotel           0       33         2015              July
## 290 Resort Hotel           0       33         2015              July
## 291 Resort Hotel           0       33         2015              July
## 292 Resort Hotel           0        0         2015              July
## 293 Resort Hotel           0        0         2015              July
## 294 Resort Hotel           0        0         2015              July
## 295 Resort Hotel           0        0         2015              July
## 296 Resort Hotel           0       84         2015              July
## 297 Resort Hotel           0       71         2015              July
## 298 Resort Hotel           0       16         2015              July
## 299 Resort Hotel           0       54         2015              July
##      arrival_date_week_number arrival_date_day_of_month stays_in_weekend_nights
## 1                          27                         1                       0
## 2                          27                         1                       0
## 3                          27                         1                       0
## 4                          27                         1                       0
## 5                          27                         1                       0
## 6                          27                         1                       0
## 7                          27                         1                       0
## 8                          27                         1                       0
## 9                          27                         1                       0
## 10                         27                         1                       0
## 11                         27                         1                       0
## 12                         27                         1                       0
## 13                         27                         1                       0
## 14                         27                         1                       0
## 15                         27                         1                       0
## 16                         27                         1                       0
## 17                         27                         1                       0
## 18                         27                         1                       0
## 19                         27                         1                       0
## 20                         27                         1                       0
```

```
## 21              27                  1                    1
## 22              27                  1                    2
## 23              27                  1                    2
## 24              27                  1                    2
## 25              27                  1                    2
## 26              27                  1                    2
## 27              27                  1                    2
## 28              27                  1                    2
## 29              27                  1                    2
## 30              27                  1                    2
## 31              27                  1                    4
## 32              27                  1                    4
## 33              27                  1                    2
## 34              27                  2                    2
## 35              27                  2                    1
## 36              27                  2                    1
## 37              27                  2                    1
## 38              27                  2                    1
## 39              27                  2                    1
## 40              27                  2                    2
## 41              27                  2                    2
## 42              27                  2                    2
## 43              27                  2                    2
## 44              27                  2                    2
## 45              27                  2                    2
## 46              27                  2                    2
## 47              27                  2                    2
## 48              27                  2                    2
## 49              27                  2                    2
## 50              27                  2                    2
## 51              27                  2                    2
## 52              27                  2                    3
## 53              27                  2                    4
## 54              27                  2                    0
## 55              27                  2                    0
## 56              27                  2                    0
## 57              27                  2                    0
## 58              27                  2                    0
## 59              27                  2                    0
## 60              27                  2                    0
## 61              27                  2                    0
## 62              27                  2                    0
## 63              27                  2                    0
## 64              27                  2                    0
## 65              27                  2                    0
## 66              27                  3                    0
## 67              27                  3                    0
## 68              27                  3                    0
## 69              27                  3                    0
## 70              27                  3                    0
## 71              27                  3                    0
## 72              27                  3                    0
## 73              27                  3                    0
## 74              27                  3                    0
```

```
## 75    27    3    0
## 76    27    3    1
## 77    27    3    1
## 78    27    3    2
## 79    27    3    2
## 80    27    3    2
## 81    27    3    2
## 82    27    3    3
## 83    27    3    3
## 84    27    3    3
## 85    27    3    3
## 86    27    3    4
## 87    27    3    4
## 88    27    3    6
## 89    27    3    0
## 90    27    3    0
## 91    27    3    0
## 92    27    3    0
## 93    27    3    0
## 94    27    3    0
## 95    27    3    0
## 96    27    3    0
## 97    27    3    2
## 98    27    3    2
## 99    27    3    2
## 100   27    3    2
## 101   27    4    2
## 102   27    4    2
## 103   27    4    2
## 104   27    4    2
## 105   27    4    2
## 106   27    4    2
## 107   27    4    2
## 108   27    4    2
## 109   27    4    2
## 110   27    4    2
## 111   27    4    2
## 112   27    4    2
## 113   27    4    2
## 114   27    4    2
## 115   27    4    2
## 116   27    4    2
## 117   27    4    4
## 118   27    4    4
## 119   27    4    4
## 120   27    4    0
## 121   27    4    0
## 122   27    4    0
## 123   27    4    0
## 124   27    4    0
## 125   27    4    0
## 126   27    4    0
## 127   27    4    0
## 128   27    4    1
```

## 129	27	4	1
## 130	27	4	1
## 131	27	4	1
## 132	28	5	1
## 133	28	5	1
## 134	28	5	1
## 135	28	5	1
## 136	28	5	1
## 137	28	5	1
## 138	28	5	1
## 139	28	5	1
## 140	28	5	1
## 141	28	5	2
## 142	28	5	2
## 143	28	5	2
## 144	28	5	2
## 145	28	5	2
## 146	28	5	2
## 147	28	5	2
## 148	28	5	2
## 149	28	5	2
## 150	28	5	2
## 151	28	5	2
## 152	28	5	2
## 153	28	5	2
## 154	28	5	2
## 155	28	5	4
## 156	28	5	4
## 157	28	5	4
## 158	28	5	4
## 159	28	5	4
## 160	28	5	4
## 161	28	6	1
## 162	28	6	1
## 163	28	6	1
## 164	28	6	1
## 165	28	6	1
## 166	28	6	1
## 167	28	6	1
## 168	28	6	0
## 169	28	6	0
## 170	28	6	1
## 171	28	6	1
## 172	28	6	1
## 173	28	6	1
## 174	28	6	1
## 175	28	6	1
## 176	28	6	1
## 177	28	6	1
## 178	28	6	1
## 179	28	6	1
## 180	28	6	1
## 181	28	6	2
## 182	28	6	2

```
## 183          28                6                2
## 184          28                6                3
## 185          28                6                3
## 186          28                6                3
## 187          28                6                3
## 188          28                6                3
## 189          28                6                3
## 190          28                6                3
## 191          28                6                4
## 192          28                6                4
## 193          28                6                2
## 194          28                7                0
## 195          28                7                0
## 196          28                7                0
## 197          28                7                0
## 198          28                7                0
## 199          28                7                0
## 200          28                7                0
## 201          28                7                0
## 202          28                7                0
## 203          28                7                0
## 204          28                7                0
## 205          28                7                0
## 206          28                7                0
## 207          28                7                2
## 208          28                7                2
## 209          28                7                2
## 210          28                7                4
## 211          28                8                0
## 212          28                8                0
## 213          28                8                0
## 214          28                8                0
## 215          28                8                0
## 216          28                8                0
## 217          28                8                0
## 218          28                8                0
## 219          28                8                0
## 220          28                8                0
## 221          28                8                0
## 222          28                8                1
## 223          28                8                2
## 224          28                8                2
## 225          28                8                2
## 226          28                8                2
## 227          28                8                2
## 228          28                8                2
## 229          28                8                2
## 230          28                8                2
## 231          28                9                0
## 232          28                9                0
## 233          28                9                0
## 234          28                9                0
## 235          28                9                0
## 236          28                9                0
```

## 237	28	9	0
## 238	28	9	1
## 239	28	9	1
## 240	28	9	1
## 241	28	9	2
## 242	28	9	2
## 243	28	9	2
## 244	28	9	2
## 245	28	9	2
## 246	28	9	2
## 247	28	9	2
## 248	28	9	2
## 249	28	10	0
## 250	28	10	0
## 251	28	10	0
## 252	28	10	0
## 253	28	10	0
## 254	28	10	0
## 255	28	10	0
## 256	28	10	0
## 257	28	10	0
## 258	28	10	1
## 259	28	10	1
## 260	28	10	1
## 261	28	10	2
## 262	28	10	2
## 263	28	10	2
## 264	28	10	2
## 265	28	10	2
## 266	28	10	2
## 267	28	10	2
## 268	28	10	2
## 269	28	10	2
## 270	28	10	2
## 271	28	10	2
## 272	28	10	2
## 273	28	10	2
## 274	28	10	2
## 275	28	10	2
## 276	28	10	3
## 277	28	10	4
## 278	28	10	4
## 279	28	10	2
## 280	28	10	2
## 281	28	11	2
## 282	28	11	2
## 283	28	11	2
## 284	28	11	2
## 285	28	11	2
## 286	28	11	2
## 287	28	11	2
## 288	28	11	2
## 289	28	11	2
## 290	28	11	2

```
## 291                         28                    11                         2
## 292                         28                    11                         0
## 293                         28                    11                         0
## 294                         28                    11                         0
## 295                         28                    11                         0
## 296                         28                    11                         1
## 297                         28                    11                         1
## 298                         28                    11                         1
## 299                         28                    11                         2
##    stays_in_week_nights adults children babies meal country market_segment
## 1                     0      2        0      0   BB     PRT         Direct
## 2                     0      2        0      0   BB     PRT         Direct
## 3                     1      1        0      0   BB     GBR         Direct
## 4                     1      1        0      0   BB     GBR      Corporate
## 5                     2      2        0      0   BB     GBR      Online TA
## 6                     2      2        0      0   BB     GBR      Online TA
## 7                     2      2        0      0   BB     PRT         Direct
## 8                     2      2        0      0   FB     PRT         Direct
## 9                     3      2        0      0   BB     PRT      Online TA
## 10                    3      2        0      0   HB     PRT  Offline TA/TO
## 11                    4      2        0      0   BB     PRT      Online TA
## 12                    4      2        0      0   HB     PRT      Online TA
## 13                    4      2        0      0   BB     USA      Online TA
## 14                    4      2        1      0   HB     ESP      Online TA
## 15                    4      2        0      0   BB     PRT      Online TA
## 16                    4      2        0      0   BB     IRL      Online TA
## 17                    4      2        0      0   BB     PRT  Offline TA/TO
## 18                    1      2        0      0   BB     IRL      Online TA
## 19                    1      2        0      0   BB     FRA      Corporate
## 20                    4      2        0      0   BB     GBR         Direct
## 21                    4      1        0      0   BB     GBR      Online TA
## 22                    4      2        0      0   BB     PRT         Direct
## 23                    4      2        0      0   BB     PRT         Direct
## 24                    4      2        0      0   BB     PRT         Direct
## 25                    5      2        0      0   HB     GBR  Offline TA/TO
## 26                    5      2        0      0   BB     PRT  Offline TA/TO
## 27                    5      2        0      0   BB     IRL  Offline TA/TO
## 28                    5      2        0      0   BB     PRT      Online TA
## 29                    5      2        0      0   BB     PRT      Online TA
## 30                    5      2        0      0   BB     PRT      Online TA
## 31                   10      1        0      0   BB    NULL         Direct
## 32                   11      2        0      0   BB     GBR  Offline TA/TO
## 33                    8      2        0      0   BB     PRT         Direct
## 34                    4      2        0      0   BB     IRL  Offline TA/TO
## 35                    3      3        0      0   BB     PRT      Online TA
## 36                    3      3        0      0   BB     PRT      Online TA
## 37                    3      2        0      0   BB     ESP      Online TA
## 38                    3      3        0      0   BB     PRT      Online TA
## 39                    3      3        0      0   BB     PRT      Online TA
## 40                    3      2        0      0   HB     ROU         Direct
## 41                    3      2        0      0   BB     PRT      Online TA
## 42                    3      2        0      0   BB     IRL  Offline TA/TO
## 43                    3      2        0      0   BB     ESP         Direct
## 44                    3      2        0      0   HB     ROU         Direct
```

```
## 45                   5        2        0        0   BB    PRT      Online TA
## 46                   5        2        2        0   BB    PRT      Online TA
## 47                   5        2        0        0   BB    ESP  Offline TA/TO
## 48                   5        2        0        0   BB    NOR  Offline TA/TO
## 49                   5        2        0        0   HB    GBR  Offline TA/TO
## 50                   5        2        0        0   HB    IRL      Online TA
## 51                   5        2        0        0   BB    NOR  Offline TA/TO
## 52                   8        2        0        0   BB    IRL  Offline TA/TO
## 53                  10        2        0        0   BB    OMN  Offline TA/TO
## 54                   1        2        0        0   BB    ESP      Online TA
## 55                   1        2        0        0   BB    ARG      Online TA
## 56                   1        2        2        0   BB    ESP         Direct
## 57                   1        2        0        0   BB    PRT         Direct
## 58                   1        2        0        0   BB    PRT      Online TA
## 59                   1        2        0        0   BB    PRT         Direct
## 60                   2        2        0        0   BB    USA      Online TA
## 61                   2        2        0        0   BB    PRT      Online TA
## 62                   2        2        0        0   BB    IRL      Online TA
## 63                   3        2        0        0   BB    ESP         Direct
## 64                   3        2        0        0   BB    IRL  Offline TA/TO
## 65                   3        2        0        0   HB    PRT      Online TA
## 66                   2        2        2        0   BB    USA      Online TA
## 67                   2        2        0        0   BB    ESP      Online TA
## 68                   2        2        0        0   BB    POL      Online TA
## 69                   2        3        0        0   BB    PRT  Offline TA/TO
## 70                   2        2        0        0   BB    PRT      Online TA
## 71                   2        2        0        0   BB    PRT      Online TA
## 72                   2        2        0        0   BB    PRT      Online TA
## 73                   2        2        0        0   HB    PRT  Offline TA/TO
## 74                   2        2        0        0   BB    ESP      Online TA
## 75                   2        3        0        0   BB    PRT      Online TA
## 76                   2        2        0        0   BB    ESP      Online TA
## 77                   2        2        0        0   BB    PRT      Online TA
## 78                   2        1        0        0   BB    PRT      Online TA
## 79                   2        2        0        0   BB    DEU  Offline TA/TO
## 80                   6        3        0        0   BB    PRT  Offline TA/TO
## 81                   7        2        0        0   BB    FRA  Offline TA/TO
## 82                   7        2        0        0   BB    PRT  Offline TA/TO
## 83                   7        2        0        0   BB    GBR  Offline TA/TO
## 84                   7        2        0        0   HB    PRT         Direct
## 85                   7        2        0        0   HB    GBR  Offline TA/TO
## 86                  10        2        0        0   HB    GBR  Offline TA/TO
## 87                  10        2        0        0   BB    GBR      Online TA
## 88                  15        2        1        0   BB    PRT  Offline TA/TO
## 89                   1        2        0        0   BB    GBR      Online TA
## 90                   1        2        0        0   BB    PRT      Online TA
## 91                   1        2        0        0   BB    ESP      Online TA
## 92                   1        2        0        0   BB    PRT      Online TA
## 93                   1        2        0        0   BB    USA      Online TA
## 94                   1        2        0        0   BB    BEL      Online TA
## 95                   2        2        0        0   BB    PRT      Online TA
## 96                   2        2        0        0   BB    PRT      Online TA
## 97                   5        2        0        0   BB    PRT      Online TA
## 98                   5        3        0        0   HB    ESP  Offline TA/TO
```

```
## 99    5  2  1  0  BB  PRT     Online TA
## 100   5  2  0  0  BB  DEU         Direct
## 101   1  2  0  0  BB  ESP         Direct
## 102   1  2  0  0  BB  FRA  Offline TA/TO
## 103   4  1  2  0  BB  FRA  Offline TA/TO
## 104   4  2  0  0  BB  PRT     Online TA
## 105   5  2  0  0  BB  PRT     Online TA
## 106   5  2  2  0  BB  PRT     Online TA
## 107   5  3  0  0  HB  PRT         Direct
## 108   5  2  0  0  BB  PRT     Online TA
## 109   5  2  0  0  BB  PRT  Offline TA/TO
## 110   5  2  0  1  BB  PRT     Online TA
## 111   5  2  0  0  BB  CHE     Online TA
## 112   5  2  0  1  HB  PRT     Online TA
## 113   5  2  0  0  BB  GBR     Online TA
## 114   6  3  0  0  BB  PRT     Online TA
## 115   6  2  0  0  BB  PRT     Online TA
## 116   6  2  0  0  BB  PRT     Online TA
## 117   6  2  0  0  BB  GBR  Offline TA/TO
## 118   6  2  0  0  BB  PRT  Offline TA/TO
## 119   6  2  1  0  HB  PRT         Direct
## 120   1  2  2  0  BB  PRT     Online TA
## 121   1  2  0  0  BB  PRT  Offline TA/TO
## 122   1  1  0  0  HB  PRT     Online TA
## 123   1  1  0  0  BB  PRT         Direct
## 124   1  2  0  0  BB  PRT     Online TA
## 125   1  2  0  0  BB  PRT     Online TA
## 126   1  4  0  0  FB  PRT  Complementary
## 127   1  2  0  0  BB  ESP     Online TA
## 128   1  2  0  0  BB  FRA     Online TA
## 129   1  2  0  0  BB  PRT     Online TA
## 130   1  2  0  0  BB  FRA     Online TA
## 131   1  2  0  0  BB  FRA     Online TA
## 132   0  2  0  0  BB  ESP     Online TA
## 133   0  2  0  0  BB  PRT     Online TA
## 134   0  2  0  0  BB  ESP     Online TA
## 135   0  1  0  0  BB  DEU     Online TA
## 136   0  1  0  0  BB  PRT     Online TA
## 137   0  2  0  0  BB  PRT     Online TA
## 138   0  1  0  0  BB  DEU     Online TA
## 139   0  2  0  0  BB  PRT     Online TA
## 140   0  2  0  0  BB  PRT         Direct
## 141   0  3  0  0  HB  PRT     Online TA
## 142   0  2  0  0  BB  FRA     Online TA
## 143   2  2  0  0  BB  ESP     Online TA
## 144   3  2  1  0  BB   CN  Offline TA/TO
## 145   3  2  0  0  BB  ESP     Online TA
## 146   3  2  0  0  BB  PRT     Online TA
## 147   4  2  0  0  BB  ESP     Online TA
## 148   4  2  0  0  BB  PRT     Online TA
## 149   4  2  2  0  BB  PRT     Online TA
## 150   5  2  0  0  HB  PRT  Offline TA/TO
## 151   5  2  2  0  HB  PRT         Direct
## 152   5  2  0  0  BB  IRL     Online TA
```

```
## 153               5        2        0        0        HB      PRT      Online TA
## 154               5        2        0        0        BB      ESP    Offline TA/TO
## 155               5        2        2        0        BB      CHE      Online TA
## 156               6        2        0        0        BB      PRT    Offline TA/TO
## 157               6        3        0        0        BB      PRT         Direct
## 158               7        2        0        0        BB      GBR    Offline TA/TO
## 159              10        1        0        0        HB      GBR    Offline TA/TO
## 160              10        2        0        0        HB      GBR    Offline TA/TO
## 161               4        2        2        0        BB      PRT      Online TA
## 162               3        2        0        0        BB      PRT      Online TA
## 163               3        2        0        0        BB      USA      Online TA
## 164               3        3        0        0        BB       CN    Offline TA/TO
## 165               3        2        2        0        HB      CHE         Direct
## 166               3        2        0        1        BB      PRT      Online TA
## 167               3        3        0        0        BB      USA      Online TA
## 168               0        2        0        0        BB      PRT      Online TA
## 169               0        1        0        0        BB      PRT         Direct
## 170               0        2        1        0        BB      PRT         Direct
## 171               1        2        0        0        BB      PRT      Online TA
## 172               1        2        0        0        BB      USA      Online TA
## 173               2        2        0        0        BB      GRC      Online TA
## 174               3        2        0        0        HB      PRT      Online TA
## 175               3        2        0        0        HB      PRT    Offline TA/TO
## 176               3        2        0        0        BB      PRT      Online TA
## 177               4        2        0        0        BB      PRT      Online TA
## 178               4        2        0        0        HB      PRT         Direct
## 179               5        2        0        0        HB      ESP      Online TA
## 180               5        2        0        0        BB      PRT      Online TA
## 181               5        2        2        0        HB      PRT      Online TA
## 182               5        1        0        0        HB      PRT    Offline TA/TO
## 183               5        2        0        0        BB      GBR    Offline TA/TO
## 184               5        2        0        0        HB      PRT      Online TA
## 185               7        2        0        0        BB      PRT      Online TA
## 186               7        2        0        0        BB      GBR    Offline TA/TO
## 187               7        2        0        0        BB      GBR    Offline TA/TO
## 188               7        2        0        0        HB      PRT         Direct
## 189               7        2        0        0        HB      GBR    Offline TA/TO
## 190               8        1        0        0        BB      FRA         Direct
## 191              10        2        0        0        BB      ITA    Offline TA/TO
## 192              10        2        0        0        BB      GBR    Offline TA/TO
## 193               5        2        0        0        BB      PRT    Offline TA/TO
## 194               2        2        0        0        BB      PRT      Online TA
## 195               3        2        0        0        BB      ESP      Online TA
## 196               3        2        1        0        HB      PRT         Direct
## 197               0        2        0        0        BB      PRT         Direct
## 198               0        2        0        0        BB      PRT      Online TA
## 199               1        1        0        0        BB      GBR      Online TA
## 200               1        3        0        0        HB      PRT         Direct
## 201               1        1        0        0        BB      GBR      Online TA
## 202               4        3        2        0        BB      ESP      Online TA
## 203               4        2        0        0        BB      PRT      Online TA
## 204               4        3        0        0        HB      USA    Offline TA/TO
## 205               4        2        0        0        BB      NLD         Direct
## 206               5        2        0        0        HB      PRT    Offline TA/TO
```

```
## 207        5    2    0    0    HB   PRT      Online TA
## 208        5    2    0    0    BB   IRL  Offline TA/TO
## 209        5    2    0    0    BB   PRT  Offline TA/TO
## 210       10    2    0    0    HB   IRL  Offline TA/TO
## 211        3    2    0    0    BB   GBR      Online TA
## 212        4    2    0    0    BB   PRT      Online TA
## 213        4    2    0    0    BB   ESP      Online TA
## 214        4    2    0    0    BB   PRT      Online TA
## 215        4    2    0    0    BB   ESP      Online TA
## 216        4    2    0    0    BB   PRT  Offline TA/TO
## 217        4    2    0    0    BB   PRT      Online TA
## 218        1    1    0    0    BB   PRT  Offline TA/TO
## 219        1    2    0    0    BB   PRT      Corporate
## 220        1    2    0    0    BB   PRT      Corporate
## 221        2    2    0    0    BB   CHE      Corporate
## 222        4    2    0    0    BB   PRT         Direct
## 223        4    2    0    0    BB   PRT         Direct
## 224        5    2    1    0    HB   PRT  Offline TA/TO
## 225        5    2    0    0    BB   GBR      Online TA
## 226        5    2    0    0    HB   GBR  Offline TA/TO
## 227        5    2    0    0    HB   PRT      Online TA
## 228        6    3    0    0    BB   IRL         Direct
## 229        7    3    0    0    BB   DNK      Online TA
## 230        7    2    0    0    BB   DNK      Online TA
## 231        1    2    2    0    BB   PRT      Online TA
## 232        2    3    0    0    BB   ARG         Direct
## 233        2    2    2    0    BB   PRT         Direct
## 234        3    2    0    0    BB   PRT         Direct
## 235        3    2    2    0    BB   PRT      Online TA
## 236        3    2    2    0    BB   PRT      Online TA
## 237        3    2    0    1    BB   PRT      Online TA
## 238        3    2    0    0    BB   PRT      Online TA
## 239        3    2    0    0    BB   PRT      Online TA
## 240        3    1    0    0    BB   RUS         Direct
## 241        3    2    0    0    BB   SWE      Online TA
## 242        3    2    0    0    BB   POL  Offline TA/TO
## 243        5    2    0    0    BB   FRA  Offline TA/TO
## 244        5    2    0    0    BB   GBR  Offline TA/TO
## 245        5    2    0    0    BB   GBR  Offline TA/TO
## 246        5    2    0    0    HB   GBR  Offline TA/TO
## 247        5    2    0    0    HB   PRT      Online TA
## 248        6    2    0    0    HB   PRT      Online TA
## 249        1    2    0    0    BB   USA         Direct
## 250        2    2    0    0    BB   PRT      Online TA
## 251        2    2    0    0    BB   PRT      Online TA
## 252        2    2    0    0    BB   PRT      Online TA
## 253        2    2    0    0    BB   PRT      Online TA
## 254        2    2    0    0    BB   PRT      Online TA
## 255        2    2    1    0    HB   PRT      Online TA
## 256        2    2    0    0    BB   PRT      Online TA
## 257        2    2    0    0    BB   PRT      Online TA
## 258        2    2    0    0    BB   GBR      Online TA
## 259        2    2    0    0    BB   AUS         Direct
## 260        2    2    0    0    BB   GBR      Online TA
```

```
## 261                    2          2          0          0  FB    PRT        Direct
## 262                    2          2          0          0  FB    PRT        Direct
## 263                    3          2          0          0  BB    PRT     Online TA
## 264                    3          2          0          0  BB    POL     Online TA
## 265                    3          2          0          2  HB    PRT        Direct
## 266                    3          2          2          0  BB    EST     Online TA
## 267                    5          2          0          0  HB    PRT     Online TA
## 268                    5          2          0          0  HB    PRT        Direct
## 269                    5          2          0          0  HB    PRT     Online TA
## 270                    5          2          0          0  HB    PRT     Online TA
## 271                    5          1          0          0  HB    RUS  Offline TA/TO
## 272                    5          2          1          0  HB    GBR     Online TA
## 273                    5          2          1          1  FB    PRT  Offline TA/TO
## 274                    6          3          1          0  BB    PRT        Direct
## 275                    7          2          0          0  BB    IRL     Online TA
## 276                    7          2          0          0  BB    PRT     Online TA
## 277                    7          2          0          1  BB    GBR     Online TA
## 278                    9          2          0          0  BB    DNK     Online TA
## 279                    5          2          1          0  HB    GBR     Online TA
## 280                    5          2          0          0  HB    GBR     Online TA
## 281                    3          2          1          0  HB    PRT  Offline TA/TO
## 282                    3          2          0          0  BB    ESP     Online TA
## 283                    4          2          0          1  BB    PRT        Direct
## 284                    4          2          0          0  BB    PRT     Online TA
## 285                    4          3          0          0  HB    PRT  Offline TA/TO
## 286                    4          2          0          0  BB    ESP     Online TA
## 287                    5          2          0          0  BB    PRT        Direct
## 288                    5          2          0          0  BB    PRT     Online TA
## 289                    2          2          0          0  BB    GBR     Online TA
## 290                    2          2          0          0  BB    PRT     Online TA
## 291                    2          2          0          0  BB    CZE     Online TA
## 292                    1          1          0          0  BB    GBR        Direct
## 293                    1          2          0          0  HB    DEU     Online TA
## 294                    1          2          0          0  BB    ESP        Direct
## 295                    1          2          0          0  BB    ESP     Online TA
## 296                    1          2          0          0  HB    PRT      Corporate
## 297                    1          2          0          0  BB    ESP  Offline TA/TO
## 298                    1          2          0          0  BB    ROU     Online TA
## 299                    1          2          0          0  BB    PRT     Online TA
##     distribution_channel is_repeated_guest previous_cancellations
## 1                  Direct                 0                      0
## 2                  Direct                 0                      0
## 3                  Direct                 0                      0
## 4               Corporate                 0                      0
## 5                   TA/TO                 0                      0
## 6                   TA/TO                 0                      0
## 7                  Direct                 0                      0
## 8                  Direct                 0                      0
## 9                   TA/TO                 0                      0
## 10                  TA/TO                 0                      0
## 11                  TA/TO                 0                      0
## 12                  TA/TO                 0                      0
## 13                  TA/TO                 0                      0
## 14                  TA/TO                 0                      0
```

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

```
## 69                 TA/TO                   0                        0
## 70                 TA/TO                   0                        0
## 71                 TA/TO                   0                        0
## 72                 TA/TO                   0                        0
## 73                 TA/TO                   0                        0
## 74                 TA/TO                   0                        0
## 75                 TA/TO                   0                        0
## 76                 TA/TO                   0                        0
## 77                 TA/TO                   0                        0
## 78                 TA/TO                   0                        0
## 79                 TA/TO                   0                        0
## 80                 TA/TO                   0                        0
## 81                 TA/TO                   0                        0
## 82                 TA/TO                   0                        0
## 83                 TA/TO                   0                        0
## 84                 Direct                  0                        0
## 85                 TA/TO                   0                        0
## 86                 TA/TO                   0                        0
## 87                 TA/TO                   0                        0
## 88                 TA/TO                   0                        0
## 89                 TA/TO                   0                        0
## 90                 TA/TO                   0                        0
## 91                 TA/TO                   0                        0
## 92                 TA/TO                   0                        0
## 93                 TA/TO                   0                        0
## 94                 TA/TO                   0                        0
## 95                 TA/TO                   0                        0
## 96                 TA/TO                   0                        0
## 97                 TA/TO                   0                        0
## 98                 TA/TO                   0                        0
## 99                 TA/TO                   0                        0
## 100                Direct                  0                        0
## 101                Direct                  0                        0
## 102                TA/TO                   0                        0
## 103                TA/TO                   0                        0
## 104                TA/TO                   0                        0
## 105                TA/TO                   0                        0
## 106                TA/TO                   0                        0
## 107                Direct                  0                        0
## 108                TA/TO                   0                        0
## 109                TA/TO                   0                        0
## 110                TA/TO                   0                        0
## 111                TA/TO                   0                        0
## 112                TA/TO                   0                        0
## 113                TA/TO                   0                        0
## 114                TA/TO                   0                        0
## 115                TA/TO                   0                        0
## 116                TA/TO                   0                        0
## 117                TA/TO                   0                        0
## 118                TA/TO                   0                        0
## 119                Direct                  0                        0
## 120                TA/TO                   0                        0
## 121                TA/TO                   0                        0
## 122                TA/TO                   0                        0
```

```
## 123             Direct            0               0
## 124             TA/TO             0               0
## 125             TA/TO             0               0
## 126             Direct            0               0
## 127             TA/TO             0               0
## 128             TA/TO             0               0
## 129             TA/TO             0               0
## 130             TA/TO             0               0
## 131             TA/TO             0               0
## 132             TA/TO             0               0
## 133             TA/TO             0               0
## 134             TA/TO             0               0
## 135             TA/TO             0               0
## 136             TA/TO             0               0
## 137             TA/TO             0               0
## 138             TA/TO             0               0
## 139             TA/TO             0               0
## 140             Direct            0               0
## 141             TA/TO             0               0
## 142             TA/TO             0               0
## 143             TA/TO             0               0
## 144             TA/TO             0               0
## 145             TA/TO             0               0
## 146             TA/TO             0               0
## 147             TA/TO             0               0
## 148             TA/TO             0               0
## 149             TA/TO             0               0
## 150             TA/TO             0               0
## 151             Direct            0               0
## 152             TA/TO             0               0
## 153             TA/TO             0               0
## 154             TA/TO             0               0
## 155             TA/TO             0               0
## 156             TA/TO             0               0
## 157             Direct            0               0
## 158             TA/TO             0               0
## 159             TA/TO             0               0
## 160             TA/TO             0               0
## 161             TA/TO             0               0
## 162             TA/TO             0               0
## 163             TA/TO             0               0
## 164             TA/TO             0               0
## 165             Direct            0               0
## 166             TA/TO             0               0
## 167             TA/TO             0               0
## 168             TA/TO             0               0
## 169             Direct            0               0
## 170             Direct            0               0
## 171             TA/TO             0               0
## 172             TA/TO             0               0
## 173             TA/TO             0               0
## 174             TA/TO             0               0
## 175             TA/TO             0               0
## 176             TA/TO             0               0
```

```
## 177              TA/TO           0                    0
## 178              Direct          0                    0
## 179              TA/TO           0                    0
## 180              TA/TO           0                    0
## 181              TA/TO           0                    0
## 182              TA/TO           0                    0
## 183              TA/TO           0                    0
## 184              TA/TO           0                    0
## 185              TA/TO           0                    0
## 186              TA/TO           0                    0
## 187              TA/TO           0                    0
## 188              Direct          0                    0
## 189              TA/TO           0                    0
## 190              Direct          0                    0
## 191              TA/TO           0                    0
## 192              TA/TO           0                    0
## 193              TA/TO           0                    0
## 194              TA/TO           0                    0
## 195              TA/TO           0                    0
## 196              Direct          0                    0
## 197              Direct          0                    0
## 198              TA/TO           0                    0
## 199              TA/TO           0                    0
## 200              Direct          0                    0
## 201              TA/TO           0                    0
## 202              TA/TO           0                    0
## 203              TA/TO           0                    0
## 204              TA/TO           0                    0
## 205              Direct          0                    0
## 206              TA/TO           0                    0
## 207              TA/TO           0                    0
## 208              TA/TO           0                    0
## 209              TA/TO           0                    0
## 210              TA/TO           0                    0
## 211              TA/TO           0                    0
## 212              TA/TO           0                    0
## 213              TA/TO           0                    0
## 214              TA/TO           0                    0
## 215              TA/TO           0                    0
## 216              TA/TO           0                    0
## 217              TA/TO           0                    0
## 218              TA/TO           0                    0
## 219              Corporate       0                    0
## 220              Corporate       0                    0
## 221              Corporate       0                    0
## 222              Direct          0                    0
## 223              Direct          0                    0
## 224              TA/TO           0                    0
## 225              TA/TO           0                    0
## 226              TA/TO           0                    0
## 227              TA/TO           0                    0
## 228              Direct          0                    0
## 229              TA/TO           0                    0
## 230              TA/TO           0                    0
```

```
## 231          TA/TO          0          0
## 232          Direct         0          0
## 233          Direct         0          0
## 234          Direct         0          0
## 235          TA/TO          0          0
## 236          TA/TO          0          0
## 237          TA/TO          0          0
## 238          TA/TO          0          0
## 239          TA/TO          0          0
## 240          Direct         0          0
## 241          TA/TO          0          0
## 242          TA/TO          0          0
## 243          TA/TO          0          0
## 244          TA/TO          0          0
## 245          TA/TO          0          0
## 246          TA/TO          0          0
## 247          TA/TO          0          0
## 248          TA/TO          0          0
## 249          Direct         0          0
## 250          TA/TO          0          0
## 251          TA/TO          0          0
## 252          TA/TO          0          0
## 253          TA/TO          0          0
## 254          TA/TO          0          0
## 255          TA/TO          0          0
## 256          TA/TO          0          0
## 257          TA/TO          0          0
## 258          TA/TO          0          0
## 259          Direct         0          0
## 260          TA/TO          0          0
## 261          Direct         0          0
## 262          Direct         0          0
## 263          TA/TO          0          0
## 264          TA/TO          0          0
## 265          Direct         0          0
## 266          TA/TO          0          0
## 267          TA/TO          0          0
## 268          Direct         0          0
## 269          TA/TO          0          0
## 270          TA/TO          0          0
## 271          TA/TO          0          0
## 272          TA/TO          0          0
## 273          TA/TO          0          0
## 274          Direct         0          0
## 275          TA/TO          0          0
## 276          TA/TO          0          0
## 277          TA/TO          0          0
## 278          TA/TO          0          0
## 279          TA/TO          0          0
## 280          TA/TO          0          0
## 281          TA/TO          0          0
## 282          TA/TO          0          0
## 283          TA/TO          0          0
## 284          TA/TO          0          0
```

```
## 285                    TA/TO                    0                    0
## 286                    TA/TO                    0                    0
## 287                   Direct                    0                    0
## 288                    TA/TO                    0                    0
## 289                    TA/TO                    0                    0
## 290                    TA/TO                    0                    0
## 291                    TA/TO                    0                    0
## 292                   Direct                    0                    0
## 293                    TA/TO                    0                    0
## 294                   Direct                    0                    0
## 295                    TA/TO                    0                    0
## 296                Corporate                    0                    0
## 297                    TA/TO                    0                    0
## 298                    TA/TO                    0                    0
## 299                    TA/TO                    0                    0
##     previous_bookings_not_canceled reserved_room_type assigned_room_type
## 1                                0                  C                  C
## 2                                0                  C                  C
## 3                                0                  A                  C
## 4                                0                  A                  A
## 5                                0                  A                  A
## 6                                0                  A                  A
## 7                                0                  C                  C
## 8                                0                  C                  C
## 9                                0                  A                  A
## 10                               0                  D                  D
## 11                               0                  E                  E
## 12                               0                  D                  D
## 13                               0                  D                  E
## 14                               0                  G                  G
## 15                               0                  E                  E
## 16                               0                  D                  E
## 17                               0                  E                  E
## 18                               0                  A                  E
## 19                               0                  A                  G
## 20                               0                  G                  G
## 21                               0                  F                  F
## 22                               0                  A                  A
## 23                               0                  A                  A
## 24                               0                  D                  D
## 25                               0                  D                  I
## 26                               0                  D                  D
## 27                               0                  D                  D
## 28                               0                  E                  E
## 29                               0                  A                  A
## 30                               0                  D                  D
## 31                               0                  A                  A
## 32                               0                  D                  D
## 33                               0                  E                  E
## 34                               0                  A                  C
## 35                               0                  D                  D
## 36                               0                  D                  D
## 37                               0                  A                  C
## 38                               0                  D                  D
```

```
## 39                          0                    D                    D
## 40                          0                    E                    E
## 41                          0                    G                    G
## 42                          0                    D                    D
## 43                          0                    F                    F
## 44                          0                    E                    E
## 45                          0                    A                    A
## 46                          0                    G                    G
## 47                          0                    A                    A
## 48                          0                    E                    E
## 49                          0                    A                    B
## 50                          0                    E                    F
## 51                          0                    D                    D
## 52                          0                    A                    A
## 53                          0                    D                    D
## 54                          0                    A                    C
## 55                          0                    H                    H
## 56                          0                    C                    C
## 57                          0                    H                    H
## 58                          0                    A                    D
## 59                          0                    G                    G
## 60                          0                    A                    C
## 61                          0                    G                    G
## 62                          0                    E                    E
## 63                          0                    F                    F
## 64                          0                    A                    C
## 65                          0                    A                    A
## 66                          0                    G                    H
## 67                          0                    A                    C
## 68                          0                    D                    D
## 69                          0                    A                    A
## 70                          0                    A                    A
## 71                          0                    D                    D
## 72                          0                    A                    A
## 73                          0                    A                    A
## 74                          0                    A                    A
## 75                          0                    A                    A
## 76                          0                    A                    A
## 77                          0                    E                    E
## 78                          0                    A                    A
## 79                          0                    A                    A
## 80                          0                    D                    D
## 81                          0                    A                    A
## 82                          0                    A                    A
## 83                          0                    A                    A
## 84                          0                    A                    A
## 85                          0                    E                    E
## 86                          0                    E                    E
## 87                          0                    F                    F
## 88                          0                    A                    A
## 89                          0                    A                    C
## 90                          0                    A                    C
## 91                          0                    A                    C
## 92                          0                    E                    E
```

```
## 93                          0                  C                  C
## 94                          0                  A                  A
## 95                          0                  A                  A
## 96                          0                  A                  A
## 97                          0                  F                  F
## 98                          0                  E                  E
## 99                          0                  D                  D
## 100                         0                  E                  E
## 101                         0                  A                  C
## 102                         0                  D                  D
## 103                         0                  F                  F
## 104                         0                  A                  C
## 105                         0                  E                  E
## 106                         0                  H                  H
## 107                         0                  D                  D
## 108                         0                  A                  A
## 109                         0                  A                  A
## 110                         0                  A                  A
## 111                         0                  D                  D
## 112                         0                  E                  F
## 113                         0                  A                  A
## 114                         0                  E                  E
## 115                         0                  E                  E
## 116                         0                  A                  A
## 117                         0                  D                  D
## 118                         0                  D                  D
## 119                         0                  D                  D
## 120                         0                  H                  G
## 121                         0                  D                  C
## 122                         0                  A                  A
## 123                         0                  E                  G
## 124                         0                  A                  A
## 125                         0                  D                  D
## 126                         0                  H                  H
## 127                         0                  E                  E
## 128                         0                  A                  C
## 129                         0                  A                  A
## 130                         0                  A                  A
## 131                         0                  A                  C
## 132                         0                  A                  C
## 133                         0                  D                  D
## 134                         0                  A                  C
## 135                         0                  A                  A
## 136                         0                  A                  D
## 137                         0                  A                  E
## 138                         0                  A                  A
## 139                         0                  D                  D
## 140                         0                  G                  G
## 141                         0                  G                  G
## 142                         0                  D                  E
## 143                         0                  D                  D
## 144                         0                  A                  D
## 145                         0                  E                  E
## 146                         0                  E                  E
```

```
## 147                          0          H          H
## 148                          0          A          A
## 149                          0          H          H
## 150                          0          D          D
## 151                          0          C          C
## 152                          0          F          F
## 153                          0          A          A
## 154                          0          E          E
## 155                          0          H          H
## 156                          0          D          D
## 157                          0          D          C
## 158                          0          D          D
## 159                          0          A          A
## 160                          0          D          D
## 161                          0          G          G
## 162                          0          A          C
## 163                          0          G          G
## 164                          0          D          D
## 165                          0          G          G
## 166                          0          D          E
## 167                          0          G          G
## 168                          0          A          H
## 169                          0          E          H
## 170                          0          A          E
## 171                          0          A          E
## 172                          0          D          F
## 173                          0          D          D
## 174                          0          E          E
## 175                          0          A          E
## 176                          0          A          C
## 177                          0          E          E
## 178                          0          F          F
## 179                          0          A          C
## 180                          0          E          E
## 181                          0          G          G
## 182                          0          A          A
## 183                          0          A          A
## 184                          0          A          C
## 185                          0          D          D
## 186                          0          A          A
## 187                          0          D          D
## 188                          0          F          F
## 189                          0          D          D
## 190                          0          A          A
## 191                          0          D          D
## 192                          0          A          A
## 193                          0          D          D
## 194                          0          A          A
## 195                          0          A          A
## 196                          0          F          F
## 197                          0          A          A
## 198                          0          A          E
## 199                          0          A          A
## 200                          0          C          C
```

```
## 201                           0                    A                    A
## 202                           0                    H                    H
## 203                           0                    D                    D
## 204                           0                    D                    E
## 205                           0                    A                    A
## 206                           0                    A                    A
## 207                           0                    E                    E
## 208                           0                    D                    D
## 209                           0                    A                    A
## 210                           0                    D                    D
## 211                           0                    E                    E
## 212                           0                    A                    A
## 213                           0                    A                    A
## 214                           0                    A                    A
## 215                           0                    D                    D
## 216                           0                    A                    A
## 217                           0                    A                    A
## 218                           0                    A                    A
## 219                           0                    A                    A
## 220                           0                    A                    A
## 221                           0                    A                    F
## 222                           0                    A                    A
## 223                           0                    E                    E
## 224                           0                    D                    D
## 225                           0                    E                    F
## 226                           0                    D                    D
## 227                           0                    E                    E
## 228                           0                    A                    A
## 229                           0                    E                    E
## 230                           0                    E                    E
## 231                           0                    C                    C
## 232                           0                    A                    C
## 233                           0                    H                    G
## 234                           0                    D                    D
## 235                           0                    C                    C
## 236                           0                    G                    G
## 237                           0                    A                    A
## 238                           0                    A                    A
## 239                           0                    A                    A
## 240                           0                    A                    A
## 241                           0                    A                    A
## 242                           0                    A                    A
## 243                           0                    A                    D
## 244                           0                    A                    A
## 245                           0                    E                    E
## 246                           0                    E                    E
## 247                           0                    A                    A
## 248                           0                    A                    A
## 249                           0                    A                    A
## 250                           0                    A                    A
## 251                           0                    A                    A
## 252                           0                    A                    A
## 253                           0                    A                    A
## 254                           0                    A                    A
```

```
## 255                            0                G              G
## 256                            0                D              D
## 257                            0                A              A
## 258                            0                C              C
## 259                            0                A              C
## 260                            0                E              E
## 261                            0                F              F
## 262                            0                F              F
## 263                            0                E              E
## 264                            0                A              A
## 265                            0                C              C
## 266                            0                G              G
## 267                            0                A              A
## 268                            0                D              D
## 269                            0                D              D
## 270                            0                E              E
## 271                            0                E              E
## 272                            0                F              F
## 273                            0                C              C
## 274                            0                C              C
## 275                            0                A              A
## 276                            0                D              D
## 277                            0                F              F
## 278                            0                C              C
## 279                            0                D              D
## 280                            0                F              F
## 281                            0                A              A
## 282                            0                A              A
## 283                            0                A              A
## 284                            0                E              E
## 285                            0                D              D
## 286                            0                A              A
## 287                            0                E              E
## 288                            0                A              A
## 289                            0                E              E
## 290                            0                E              E
## 291                            0                E              E
## 292                            0                A              A
## 293                            0                A              A
## 294                            0                G              G
## 295                            0                A              A
## 296                            0                A              A
## 297                            0                A              A
## 298                            0                C              C
## 299                            0                E              F
##     booking_changes deposit_type agent company days_in_waiting_list
## 1                 3   No Deposit  NULL    NULL                    0
## 2                 4   No Deposit  NULL    NULL                    0
## 3                 0   No Deposit  NULL    NULL                    0
## 4                 0   No Deposit   304    NULL                    0
## 5                 0   No Deposit   240    NULL                    0
## 6                 0   No Deposit   240    NULL                    0
## 7                 0   No Deposit  NULL    NULL                    0
## 8                 0   No Deposit   303    NULL                    0
```

```
## 9                  0   No Deposit   240    NULL                     0
## 10                 0   No Deposit    15    NULL                     0
## 11                 0   No Deposit   240    NULL                     0
## 12                 0   No Deposit   240    NULL                     0
## 13                 0   No Deposit   240    NULL                     0
## 14                 1   No Deposit   241    NULL                     0
## 15                 0   No Deposit   241    NULL                     0
## 16                 0   No Deposit   240    NULL                     0
## 17                 0   No Deposit     8    NULL                     0
## 18                 0   No Deposit   240    NULL                     0
## 19                 0   No Deposit  NULL     110                     0
## 20                 0   No Deposit   250    NULL                     0
## 21                 0   No Deposit   241    NULL                     0
## 22                 1   No Deposit   250    NULL                     0
## 23                 1   No Deposit   250    NULL                     0
## 24                 1   No Deposit   250    NULL                     0
## 25                 0   No Deposit   115    NULL                     0
## 26                 0   No Deposit     5    NULL                     0
## 27                 0   No Deposit     8    NULL                     0
## 28                 0   No Deposit   240    NULL                     0
## 29                 0   No Deposit   240    NULL                     0
## 30                 0   No Deposit   240    NULL                     0
## 31                 2   No Deposit  NULL    NULL                     0
## 32                 0   No Deposit   241    NULL                     0
## 33                 0   No Deposit  NULL    NULL                     0
## 34                 0   No Deposit   175    NULL                     0
## 35                 0   No Deposit   241    NULL                     0
## 36                 0   No Deposit   241    NULL                     0
## 37                 0   No Deposit   240    NULL                     0
## 38                 0   No Deposit   241    NULL                     0
## 39                 0   No Deposit   241    NULL                     0
## 40                 0   No Deposit   250    NULL                     0
## 41                 0   No Deposit   241    NULL                     0
## 42                 0   No Deposit     8    NULL                     0
## 43                 0   No Deposit  NULL    NULL                     0
## 44                 0   No Deposit   250    NULL                     0
## 45                 0   No Deposit   240    NULL                     0
## 46                 0   No Deposit   240    NULL                     0
## 47                 0   No Deposit   134    NULL                     0
## 48                 0   No Deposit   156    NULL                     0
## 49                 1   No Deposit   243    NULL                     0
## 50                 1   No Deposit   241    NULL                     0
## 51                 0   No Deposit   156    NULL                     0
## 52                 0   No Deposit   156    NULL                     0
## 53                 0   No Deposit   243    NULL                     0
## 54                 0   No Deposit   240    NULL                     0
## 55                 0   No Deposit   240    NULL                     0
## 56                 0   No Deposit  NULL    NULL                     0
## 57                 0   No Deposit  NULL    NULL                     0
## 58                 0   No Deposit   240    NULL                     0
## 59                 0   No Deposit  NULL    NULL                     0
## 60                 0   No Deposit   242    NULL                     0
## 61                 0   No Deposit   241    NULL                     0
## 62                 0   No Deposit   240    NULL                     0
```

```
## 63                0   No Deposit   250    NULL                    0
## 64                0   No Deposit   115    NULL                    0
## 65                0   No Deposit   240    NULL                    0
## 66                0   No Deposit   240    NULL                    0
## 67                0   No Deposit   240    NULL                    0
## 68                0   No Deposit   242    NULL                    0
## 69                0   No Deposit   242    NULL                    0
## 70                0   No Deposit   240    NULL                    0
## 71                0   No Deposit   240    NULL                    0
## 72                0   No Deposit   240    NULL                    0
## 73                0   No Deposit     3    NULL                    0
## 74                0   No Deposit   240    NULL                    0
## 75                0   No Deposit   242    NULL                    0
## 76                0   No Deposit   240    NULL                    0
## 77                0   No Deposit   240    NULL                    0
## 78                0   No Deposit   240    NULL                    0
## 79                0   No Deposit   105    NULL                    0
## 80                0   No Deposit     5    NULL                    0
## 81                0   No Deposit    40    NULL                    0
## 82                0   No Deposit    40    NULL                    0
## 83                0   No Deposit    40    NULL                    0
## 84                2   No Deposit   250    NULL                    0
## 85                0   No Deposit   115    NULL                    0
## 86                0   No Deposit    40    NULL                    0
## 87                1   No Deposit   241    NULL                    0
## 88                0   No Deposit   242    NULL                    0
## 89                0   No Deposit   240    NULL                    0
## 90                0   No Deposit   240    NULL                    0
## 91                0   No Deposit   240    NULL                    0
## 92                0   No Deposit   240    NULL                    0
## 93                0   No Deposit   241    NULL                    0
## 94                0   No Deposit   240    NULL                    0
## 95                0   No Deposit   240    NULL                    0
## 96                0   No Deposit   240    NULL                    0
## 97                0   No Deposit   242    NULL                    0
## 98                0   No Deposit   105    NULL                    0
## 99                0   No Deposit   240    NULL                    0
## 100               0   No Deposit   250    NULL                    0
## 101               0   No Deposit   250    NULL                    0
## 102               0   No Deposit     8    NULL                    0
## 103               0   No Deposit   241    NULL                    0
## 104               0   No Deposit   240    NULL                    0
## 105               0   No Deposit   240    NULL                    0
## 106               0   No Deposit   240    NULL                    0
## 107               0   No Deposit   250    NULL                    0
## 108               0   No Deposit   240    NULL                    0
## 109               0   No Deposit   134    NULL                    0
## 110               0   No Deposit   240    NULL                    0
## 111               0   No Deposit   240    NULL                    0
## 112               0   No Deposit   240    NULL                    0
## 113               0   No Deposit   147    NULL                    0
## 114               0   No Deposit   241    NULL                    0
## 115               0   No Deposit   240    NULL                    0
## 116               0   No Deposit   240    NULL                    0
```

```
## 117                 0  No Deposit    40   NULL                    0
## 118                 0  No Deposit    40   NULL                    0
## 119                 1  No Deposit   250   NULL                    0
## 120                 1  No Deposit   240   NULL                    0
## 121                 0  No Deposit     8   NULL                    0
## 122                 0  No Deposit   240   NULL                    0
## 123                 1  No Deposit   250   NULL                    0
## 124                 0  No Deposit   240   NULL                    0
## 125                 0  No Deposit   240   NULL                    0
## 126                 2  No Deposit  NULL   NULL                    0
## 127                 0  No Deposit   240   NULL                    0
## 128                 0  No Deposit   240   NULL                    0
## 129                 0  No Deposit   240   NULL                    0
## 130                 0  No Deposit   240   NULL                    0
## 131                 0  No Deposit   240   NULL                    0
## 132                 0  No Deposit   240   NULL                    0
## 133                 0  No Deposit   240   NULL                    0
## 134                 1  No Deposit   306   NULL                    0
## 135                 0  No Deposit   184   NULL                    0
## 136                 0  No Deposit   240   NULL                    0
## 137                 0  No Deposit   240   NULL                    0
## 138                 0  No Deposit   184   NULL                    0
## 139                 0  No Deposit   240   NULL                    0
## 140                 0  No Deposit  NULL   NULL                    0
## 141                 3  No Deposit   240   NULL                    0
## 142                 0  No Deposit   240   NULL                    0
## 143                 0  No Deposit   240   NULL                    0
## 144                 0  No Deposit   241   NULL                    0
## 145                 0  No Deposit   240   NULL                    0
## 146                 0  No Deposit   240   NULL                    0
## 147                 0  No Deposit   240   NULL                    0
## 148                 0  No Deposit   240   NULL                    0
## 149                 0  No Deposit   240   NULL                    0
## 150                 0  No Deposit    15   NULL                    0
## 151                 1  No Deposit   250   NULL                    0
## 152                 0  No Deposit   241   NULL                    0
## 153                 0  No Deposit   240   NULL                    0
## 154                 0  No Deposit   175   NULL                    0
## 155                 1  No Deposit   240   NULL                    0
## 156                 0  No Deposit     5   NULL                    0
## 157                 3  No Deposit  NULL   NULL                    0
## 158                 0  No Deposit    40   NULL                    0
## 159                 0  No Deposit    40   NULL                    0
## 160                 0  No Deposit   243   NULL                    0
## 161                 1  No Deposit   240   NULL                    0
## 162                 0  No Deposit   240   NULL                    0
## 163                 0  No Deposit   241   NULL                    0
## 164                 0  No Deposit    96   NULL                    0
## 165                 0  No Deposit   250   NULL                    0
## 166                 1  No Deposit   240   NULL                    0
## 167                 0  No Deposit   241   NULL                    0
## 168                 0  No Deposit   240   NULL                    0
## 169                 0  No Deposit   250   NULL                    0
## 170                 0  No Deposit  NULL   NULL                    0
```

```
## 171             0  No Deposit   240   NULL            0
## 172             0  No Deposit   240   NULL            0
## 173             0  No Deposit   240   NULL            0
## 174             0  No Deposit   240   NULL            0
## 175             0  No Deposit   175   NULL            0
## 176             1  No Deposit   240   NULL            0
## 177             0  No Deposit   240   NULL            0
## 178             0  No Deposit   250   NULL            0
## 179             0  No Deposit   240   NULL            0
## 180             1  No Deposit   240   NULL            0
## 181             0  No Deposit   240   NULL            0
## 182             0  No Deposit   175   NULL            0
## 183             0  No Deposit     2   NULL            0
## 184             0  No Deposit   240   NULL            0
## 185             0  No Deposit   240   NULL            0
## 186             0  No Deposit   242   NULL            0
## 187             1  No Deposit   241   NULL            0
## 188             5  No Deposit   250   NULL            0
## 189             0  No Deposit   156   NULL            0
## 190             1  No Deposit  NULL   NULL            0
## 191             0  No Deposit     8   NULL            0
## 192             0  No Deposit    40   NULL            0
## 193             0  No Deposit   127   NULL            0
## 194             0  No Deposit   240   NULL            0
## 195             0  No Deposit   240   NULL            0
## 196             0  No Deposit   250   NULL            0
## 197             0  No Deposit  NULL   NULL            0
## 198             0  No Deposit   240   NULL            0
## 199             0  No Deposit   240   NULL            0
## 200             0  No Deposit  NULL   NULL            0
## 201             0  No Deposit   240   NULL            0
## 202             2  No Deposit   240   NULL            0
## 203             0  No Deposit   240   NULL            0
## 204             0  No Deposit    95   NULL            0
## 205             2  No Deposit  NULL   NULL            0
## 206             0  No Deposit   134   NULL            0
## 207             0  No Deposit   240   NULL            0
## 208             0  No Deposit     8   NULL            0
## 209             0  No Deposit     2   NULL            0
## 210             0  No Deposit   156   NULL            0
## 211             0  No Deposit   240   NULL            0
## 212             0  No Deposit   240   NULL            0
## 213             0  No Deposit   240   NULL            0
## 214             0  No Deposit   240   NULL            0
## 215             0  No Deposit   240   NULL            0
## 216             0  No Deposit   105   NULL            0
## 217             0  No Deposit   240   NULL            0
## 218             0  No Deposit   146   NULL            0
## 219             0  No Deposit  NULL    110            0
## 220             0  No Deposit  NULL    110            0
## 221             0  No Deposit  NULL    110            0
## 222             0  No Deposit     9   NULL            0
## 223             1  No Deposit   250   NULL            0
## 224             0  No Deposit    40   NULL            0
```

```
## 225                0   No Deposit   240    NULL                         0
## 226                0   No Deposit    40    NULL                         0
## 227                0   No Deposit   240    NULL                         0
## 228                0   No Deposit   250    NULL                         0
## 229                1   No Deposit   240    NULL                         0
## 230                0   No Deposit   240    NULL                         0
## 231                0   No Deposit   242    NULL                         0
## 232                0   No Deposit   250    NULL                         0
## 233                2   No Deposit  NULL    NULL                         0
## 234                0   No Deposit   250    NULL                         0
## 235                0   No Deposit   242    NULL                         0
## 236                0   No Deposit   240    NULL                         0
## 237                0   No Deposit   240    NULL                         0
## 238                0   No Deposit   240    NULL                         0
## 239                0   No Deposit   240    NULL                         0
## 240                0   No Deposit   250    NULL                         0
## 241                0   No Deposit   241    NULL                         0
## 242                0   No Deposit   177    NULL                         0
## 243                0   No Deposit     6    NULL                         0
## 244                0   No Deposit    40    NULL                         0
## 245                0   No Deposit   143    NULL                         0
## 246                0   No Deposit    40    NULL                         0
## 247                0   No Deposit   240    NULL                         0
## 248                0   No Deposit   240    NULL                         0
## 249                0   No Deposit   250    NULL                         0
## 250                0   No Deposit   240    NULL                         0
## 251                0   No Deposit   240    NULL                         0
## 252                0   No Deposit   240    NULL                         0
## 253                0   No Deposit   240    NULL                         0
## 254                0   No Deposit   240    NULL                         0
## 255                2   No Deposit   240    NULL                         0
## 256                1   No Deposit   240    NULL                         0
## 257                0   No Deposit   240    NULL                         0
## 258                0   No Deposit   105    NULL                         0
## 259                0   No Deposit   250    NULL                         0
## 260                0   No Deposit   240    NULL                         0
## 261                0   No Deposit  NULL    NULL                         0
## 262                0   No Deposit  NULL    NULL                         0
## 263                0   No Deposit   240    NULL                         0
## 264                0   No Deposit   240    NULL                         0
## 265                1   No Deposit   250    NULL                         0
## 266                0   No Deposit   240    NULL                         0
## 267                1   No Deposit   240    NULL                         0
## 268                1   No Deposit   250    NULL                         0
## 269                1   No Deposit   240    NULL                         0
## 270                1   No Deposit   240    NULL                         0
## 271                2   No Deposit   244    NULL                         0
## 272                0   No Deposit   241    NULL                         0
## 273                0   No Deposit     5    NULL                         0
## 274                0   No Deposit   250    NULL                         0
## 275                0   No Deposit   240    NULL                         0
## 276                0   No Deposit   240    NULL                         0
## 277                0   No Deposit   241    NULL                         0
## 278                0   No Deposit   241    NULL                         0
```

```
## 279                0    No Deposit    241    NULL                        0
## 280                0    No Deposit    241    NULL                        0
## 281                0    No Deposit    149    NULL                        0
## 282                0    No Deposit    240    NULL                        0
## 283                1    No Deposit    240    NULL                        0
## 284                0    No Deposit    240    NULL                        0
## 285                0    No Deposit     15    NULL                        0
## 286                0    No Deposit    240    NULL                        0
## 287                0    No Deposit    250    NULL                        0
## 288                0    No Deposit    240    NULL                        0
## 289                0    No Deposit    241    NULL                        0
## 290                0    No Deposit    240    NULL                        0
## 291                1    No Deposit    240    NULL                        0
## 292                0    No Deposit   NULL    NULL                        0
## 293                1    No Deposit    240    NULL                        0
## 294                0    No Deposit   NULL    NULL                        0
## 295                0    No Deposit    240    NULL                        0
## 296                0    No Deposit   NULL     113                        0
## 297                0    No Deposit    175    NULL                        0
## 298                0    No Deposit    242    NULL                        0
## 299                0    No Deposit    240    NULL                        0
##       customer_type    adr required_car_parking_spaces
## 1        Transient   0.00                            0
## 2        Transient   0.00                            0
## 3        Transient  75.00                            0
## 4        Transient  75.00                            0
## 5        Transient  98.00                            0
## 6        Transient  98.00                            0
## 7        Transient 107.00                            0
## 8        Transient 103.00                            0
## 9        Transient  82.00                            0
## 10       Transient 105.50                            0
## 11       Transient 123.00                            0
## 12       Transient 145.00                            0
## 13       Transient  97.00                            0
## 14       Transient 154.77                            0
## 15       Transient  94.71                            0
## 16       Transient  97.00                            0
## 17        Contract  97.50                            0
## 18       Transient  88.20                            0
## 19       Transient 107.42                            0
## 20       Transient 153.00                            0
## 21       Transient  97.29                            0
## 22       Transient  84.67                            0
## 23       Transient  84.67                            0
## 24       Transient  99.67                            0
## 25        Contract  94.95                            0
## 26       Transient  63.60                            1
## 27        Contract  79.50                            0
## 28       Transient 107.00                            0
## 29       Transient  94.00                            0
## 30       Transient  87.30                            1
## 31       Transient  62.00                            0
## 32       Transient  63.86                            0
```

```
## 33         Transient 108.30                          0
## 34         Transient  65.50                          0
## 35         Transient 108.80                          0
## 36         Transient 108.80                          0
## 37         Transient  98.00                          0
## 38         Transient 108.80                          0
## 39         Transient 108.80                          0
## 40         Transient 137.00                          0
## 41         Transient 117.81                          0
## 42          Contract  79.50                          0
## 43         Transient 123.00                          0
## 44         Transient 137.00                          0
## 45         Transient 110.70                          0
## 46         Transient 153.00                          0
## 47         Transient  58.95                          0
## 48   Transient-Party  82.88                          0
## 49          Contract  82.35                          0
## 50         Transient 119.35                          0
## 51   Transient-Party  67.58                          0
## 52          Contract  56.01                          0
## 53          Contract 110.70                          0
## 54         Transient  88.20                          1
## 55         Transient 147.00                          1
## 56         Transient 107.00                          1
## 57         Transient 147.00                          0
## 58         Transient 117.90                          0
## 59         Transient 123.00                          0
## 60         Transient  98.00                          0
## 61         Transient 117.81                          0
## 62         Transient 135.00                          1
## 63         Transient 133.00                          0
## 64          Contract  58.95                          0
## 65         Transient 136.33                          0
## 66         Transient 153.00                          1
## 67         Transient 110.50                          0
## 68         Transient  97.00                          0
## 69         Transient 110.30                          0
## 70         Transient  82.00                          0
## 71         Transient  97.00                          0
## 72         Transient  73.80                          0
## 73         Transient  91.50                          0
## 74         Transient 114.50                          0
## 75         Transient 110.30                          0
## 76         Transient  90.90                          1
## 77         Transient 123.00                          0
## 78         Transient 122.00                          0
## 79         Transient 110.70                          1
## 80         Transient  85.86                          0
## 81          Contract  58.95                          0
## 82          Contract  55.68                          0
## 83          Contract  55.68                          0
## 84         Transient 124.00                          0
## 85          Contract 111.15                          0
## 86          Contract 134.73                          0
```

```
## 87          Transient  92.45                    0
## 88          Transient 108.73                    0
## 89          Transient  73.80                    0
## 90          Transient  98.00                    1
## 91          Transient 131.00                    0
## 92          Transient 123.00                    0
## 93          Transient  94.71                    0
## 94          Transient 123.00                    0
## 95          Transient 123.00                    0
## 96          Transient  73.80                    0
## 97          Transient 117.00                    0
## 98          Transient 196.54                    0
## 99          Transient  99.30                    1
## 100         Transient  90.95                    0
## 101         Transient  92.67                    0
## 102         Transient  71.55                    1
## 103         Transient  96.49                    0
## 104         Transient  85.80                    1
## 105         Transient  96.30                    0
## 106         Transient 163.00                    0
## 107         Transient 172.00                    0
## 108         Transient 110.70                    0
## 109         Transient  58.95                    0
## 110         Transient  73.80                    0
## 111         Transient  97.00                    0
## 112         Transient 139.00                    0
## 113         Transient  67.24                    0
## 114         Transient 116.50                    0
## 115         Transient  96.30                    0
## 116         Transient 123.00                    0
## 117          Contract  71.55                    0
## 118          Contract  71.55                    0
## 119         Transient 149.00                    0
## 120         Transient 163.00                    1
## 121          Contract  79.50                    0
## 122         Transient 105.00                    0
## 123         Transient 123.00                    0
## 124         Transient  73.80                    0
## 125         Transient 113.00                    0
## 126         Transient   0.00                    0
## 127         Transient 123.00                    0
## 128 Transient-Party  73.80                    1
## 129         Transient 114.50                    0
## 130 Transient-Party  73.80                    0
## 131 Transient-Party  73.80                    0
## 132         Transient  88.20                    0
## 133         Transient  97.00                    0
## 134         Transient  85.10                    0
## 135         Transient  89.00                    0
## 136         Transient  80.10                    0
## 137         Transient  98.00                    0
## 138         Transient 101.00                    1
## 139         Transient  97.00                    0
## 140         Transient 167.00                    0
```

```
## 141        Transient 225.00                           2
## 142        Transient  97.00                           1
## 143        Transient  87.30                           0
## 144        Transient  85.59                           1
## 145        Transient 123.00                           0
## 146        Transient 107.00                           0
## 147        Transient 163.00                           0
## 148        Transient  82.00                           0
## 149        Transient 163.00                           0
## 150        Transient 105.50                           0
## 151        Transient 164.20                           1
## 152        Transient  97.29                           0
## 153        Transient 114.00                           0
## 154        Transient  98.40                           0
## 155        Transient 175.00                           1
## 156        Transient  63.60                           1
## 157        Transient 124.45                           1
## 158         Contract 110.70                           0
## 159         Contract  74.07                           0
## 160         Contract 134.10                           0
## 161        Transient 167.00                           0
## 162        Transient 123.00                           0
## 163        Transient 117.81                           1
## 164        Transient 171.32                           0
## 165        Transient 210.00                           1
## 166        Transient  97.00                           0
## 167        Transient 117.81                           0
## 168        Transient   0.00                           0
## 169        Transient   0.00                           0
## 170        Transient 131.00                           0
## 171        Transient  98.00                           0
## 172        Transient  87.30                           1
## 173        Transient  97.00                           0
## 174        Transient 167.00                           0
## 175        Transient  91.50                           0
## 176        Transient  73.80                           0
## 177        Transient 123.00                           0
## 178        Transient 175.00                           1
## 179        Transient 117.80                           1
## 180        Transient 117.63                           0
## 181        Transient 185.00                           0
## 182        Transient  71.00                           0
## 183         Contract  47.25                           0
## 184        Transient 151.00                           0
## 185        Transient  87.30                           0
## 186        Transient 120.60                           0
## 187        Transient  63.86                           0
## 188        Transient 157.10                           0
## 189         Contract  91.37                           0
## 190        Transient  73.00                           0
## 191         Contract 110.70                           0
## 192         Contract  93.60                           0
## 193        Transient  83.50                           0
## 194        Transient  73.80                           0
```

```
## 195         Transient  82.00                                    1
## 196         Transient 185.50                                    0
## 197         Transient   0.00                                    0
## 198         Transient   0.00                                    0
## 199         Transient 109.80                                    0
## 200         Transient 195.00                                    1
## 201         Transient 109.80                                    0
## 202         Transient 193.00                                    0
## 203         Transient  97.00                                    0
## 204         Transient 150.00                                    0
## 205         Transient  98.00                                    0
## 206         Transient  91.50                                    0
## 207         Transient 139.00                                    0
## 208         Transient  79.50                                    0
## 209          Contract  47.25                                    0
## 210          Contract 126.65                                    0
## 211         Transient 107.00                                    0
## 212         Transient 131.00                                    1
## 213         Transient 131.00                                    1
## 214         Transient 123.00                                    0
## 215         Transient 146.00                                    0
## 216         Transient 110.70                                    0
## 217         Transient  73.80                                    0
## 218         Transient  61.00                                    0
## 219         Transient 104.72                                    0
## 220         Transient 104.72                                    0
## 221         Transient 104.72                                    1
## 222         Transient  66.42                                    0
## 223         Transient  77.96                                    1
## 224          Contract 112.00                                    0
## 225         Transient 107.00                                    0
## 226          Contract  89.68                                    0
## 227         Transient 155.00                                    0
## 228         Transient 112.00                                    0
## 229 Transient-Party 130.10                                      0
## 230 Transient-Party 100.10                                      0
## 231         Transient 123.00                                    0
## 232         Transient 124.00                                    1
## 233         Transient 146.00                                    1
## 234         Transient  97.00                                    0
## 235         Transient 123.00                                    0
## 236         Transient 153.00                                    0
## 237         Transient  82.00                                    0
## 238         Transient 105.08                                    0
## 239         Transient  65.42                                    0
## 240         Transient  98.00                                    0
## 241         Transient  75.46                                    1
## 242         Transient  65.50                                    0
## 243         Transient  90.95                                    0
## 244          Contract  93.60                                    0
## 245          Contract 119.25                                    0
## 246          Contract 134.73                                    0
## 247         Transient 112.00                                    0
## 248         Transient 118.13                                    0
```

```
## 249        Transient 131.00                        0
## 250        Transient  88.20                        0
## 251        Transient  73.80                        0
## 252        Transient  98.00                        0
## 253        Transient 110.50                        0
## 254        Transient 131.00                        0
## 255        Transient 185.00                        1
## 256        Transient  87.30                        0
## 257        Transient  73.80                        0
## 258        Transient 120.00                        0
## 259        Transient  98.00                        0
## 260        Transient  96.30                        0
## 261 Transient-Party 197.00                        0
## 262 Transient-Party 197.00                        0
## 263        Transient 123.00                        0
## 264        Transient  82.00                        0
## 265        Transient 165.00                        1
## 266        Transient 149.40                        0
## 267        Transient 106.84                        1
## 268        Transient 161.00                        1
## 269        Transient 134.43                        0
## 270        Transient 144.43                        1
## 271        Transient 152.00                        0
## 272        Transient 125.54                        0
## 273        Transient 133.83                        0
## 274        Transient 159.75                        1
## 275        Transient 120.60                        0
## 276        Transient 112.20                        0
## 277        Transient 110.60                        0
## 278        Transient 105.90                        0
## 279        Transient  95.27                        0
## 280        Transient 108.83                        0
## 281        Transient 153.96                        0
## 282        Transient 120.60                        0
## 283        Transient  90.67                        0
## 284        Transient 126.67                        0
## 285        Transient 144.40                        0
## 286        Transient  99.50                        1
## 287        Transient 139.40                        0
## 288        Transient  73.80                        0
## 289        Transient  89.97                        0
## 290        Transient 123.00                        0
## 291        Transient 123.00                        0
## 292        Transient 123.00                        0
## 293        Transient 144.90                        0
## 294        Transient 153.00                        0
## 295        Transient 131.00                        0
## 296        Transient 100.00                        1
## 297        Transient  65.50                        0
## 298        Transient 123.00                        0
## 299        Transient 123.00                        0
##     total_of_special_requests reservation_status reservation_status_date
## 1                           0          Check-Out              01-07-2015
## 2                           0          Check-Out              01-07-2015
```

```
## 3                         0          Check-Out       02-07-2015
## 4                         0          Check-Out       02-07-2015
## 5                         1          Check-Out       03-07-2015
## 6                         1          Check-Out       03-07-2015
## 7                         0          Check-Out       03-07-2015
## 8                         1          Check-Out       03-07-2015
## 9                         1           Canceled       06-05-2015
## 10                        0           Canceled       22-04-2015
## 11                        0           Canceled       23-06-2015
## 12                        0          Check-Out       05-07-2015
## 13                        3          Check-Out       05-07-2015
## 14                        1          Check-Out       05-07-2015
## 15                        0          Check-Out       05-07-2015
## 16                        3          Check-Out       05-07-2015
## 17                        0          Check-Out       05-07-2015
## 18                        0          Check-Out       02-07-2015
## 19                        0          Check-Out       02-07-2015
## 20                        1          Check-Out       05-07-2015
## 21                        1          Check-Out       06-07-2015
## 22                        1          Check-Out       07-07-2015
## 23                        1          Check-Out       07-07-2015
## 24                        1          Check-Out       07-07-2015
## 25                        1          Check-Out       01-07-2015
## 26                        0          Check-Out       08-07-2015
## 27                        0          Check-Out       08-07-2015
## 28                        2           Canceled       11-05-2015
## 29                        0          Check-Out       08-07-2015
## 30                        1          Check-Out       08-07-2015
## 31                        2          Check-Out       15-07-2015
## 32                        0          Check-Out       16-07-2015
## 33                        2           Canceled       29-05-2015
## 34                        0          Check-Out       08-07-2015
## 35                        1           Canceled       19-05-2015
## 36                        1           Canceled       19-06-2015
## 37                        0          Check-Out       06-07-2015
## 38                        1          Check-Out       06-07-2015
## 39                        0           Canceled       23-05-2015
## 40                        1          Check-Out       07-07-2015
## 41                        0           Canceled       18-05-2015
## 42                        0          Check-Out       07-07-2015
## 43                        0          Check-Out       07-07-2015
## 44                        1          Check-Out       07-07-2015
## 45                        2          Check-Out       09-07-2015
## 46                        0           Canceled       02-06-2015
## 47                        1          Check-Out       09-07-2015
## 48                        2          Check-Out       09-07-2015
## 49                        0          Check-Out       09-07-2015
## 50                        1          Check-Out       09-07-2015
## 51                        2          Check-Out       09-07-2015
## 52                        0          Check-Out       13-07-2015
## 53                        0          Check-Out       16-07-2015
## 54                        0          Check-Out       03-07-2015
## 55                        0          Check-Out       03-07-2015
## 56                        2          Check-Out       03-07-2015
```

```
## 57                        0        Check-Out        03-07-2015
## 58                        2        Check-Out        03-07-2015
## 59                        0        Check-Out        03-07-2015
## 60                        1        Check-Out        04-07-2015
## 61                        0        Check-Out        04-07-2015
## 62                        2        Check-Out        04-07-2015
## 63                        1        Check-Out        05-07-2015
## 64                        0        Check-Out        05-07-2015
## 65                        2         Canceled        29-06-2015
## 66                        0        Check-Out        05-07-2015
## 67                        0        Check-Out        05-07-2015
## 68                        0        Check-Out        05-07-2015
## 69                        2         Canceled        16-06-2015
## 70                        2         Canceled        18-06-2015
## 71                        1         Canceled        03-07-2015
## 72                        1         Canceled        12-06-2015
## 73                        0        Check-Out        05-07-2015
## 74                        0        Check-Out        05-07-2015
## 75                        0         Canceled        09-06-2015
## 76                        0        Check-Out        06-07-2015
## 77                        0         Canceled        26-05-2015
## 78                        0        Check-Out        07-07-2015
## 79                        0        Check-Out        07-07-2015
## 80                        0        Check-Out        11-07-2015
## 81                        0        Check-Out        12-07-2015
## 82                        0         Canceled        19-05-2015
## 83                        0        Check-Out        13-07-2015
## 84                        1         Canceled        09-06-2015
## 85                        0        Check-Out        13-07-2015
## 86                        0        Check-Out        17-07-2015
## 87                        1        Check-Out        17-07-2015
## 88                        2         Canceled        15-04-2015
## 89                        0        Check-Out        04-07-2015
## 90                        2        Check-Out        04-07-2015
## 91                        1        Check-Out        04-07-2015
## 92                        0        Check-Out        04-07-2015
## 93                        0        Check-Out        04-07-2015
## 94                        2        Check-Out        04-07-2015
## 95                        1         Canceled        26-05-2015
## 96                        1         Canceled        29-06-2015
## 97                        1         Canceled        13-05-2015
## 98                        1        Check-Out        10-07-2015
## 99                        2        Check-Out        10-07-2015
## 100                       0        Check-Out        10-07-2015
## 101                       1        Check-Out        07-07-2015
## 102                       0        Check-Out        07-07-2015
## 103                       2        Check-Out        10-07-2015
## 104                       2        Check-Out        10-07-2015
## 105                       1        Check-Out        11-07-2015
## 106                       0         Canceled        09-06-2015
## 107                       1         Canceled        20-05-2015
## 108                       1         Canceled        22-04-2015
## 109                       1        Check-Out        11-07-2015
## 110                       2        Check-Out        11-07-2015
```

```
## 111                    2         Check-Out      11-07-2015
## 112                    2         Check-Out      11-07-2015
## 113                    0         Check-Out      11-07-2015
## 114                    1         Check-Out      12-07-2015
## 115                    1          Canceled      12-05-2015
## 116                    1         Check-Out      12-07-2015
## 117                    1         Check-Out      14-07-2015
## 118                    1         Check-Out      14-07-2015
## 119                    1         Check-Out      14-07-2015
## 120                    0         Check-Out      05-07-2015
## 121                    0         Check-Out      05-07-2015
## 122                    0          Canceled      29-05-2015
## 123                    0           No-Show      04-07-2015
## 124                    2          Canceled      13-05-2015
## 125                    0          Canceled      16-06-2015
## 126                    1         Check-Out      05-07-2015
## 127                    0         Check-Out      05-07-2015
## 128                    1         Check-Out      06-07-2015
## 129                    0         Check-Out      06-07-2015
## 130                    2         Check-Out      06-07-2015
## 131                    1         Check-Out      06-07-2015
## 132                    1         Check-Out      06-07-2015
## 133                    0          Canceled      01-07-2015
## 134                    0         Check-Out      06-07-2015
## 135                    0         Check-Out      06-07-2015
## 136                    0         Check-Out      06-07-2015
## 137                    0         Check-Out      06-07-2015
## 138                    0         Check-Out      06-07-2015
## 139                    0          Canceled      01-07-2015
## 140                    1         Check-Out      06-07-2015
## 141                    0         Check-Out      07-07-2015
## 142                    0         Check-Out      07-07-2015
## 143                    2         Check-Out      09-07-2015
## 144                    2         Check-Out      10-07-2015
## 145                    0         Check-Out      10-07-2015
## 146                    0         Check-Out      10-07-2015
## 147                    0         Check-Out      11-07-2015
## 148                    0         Check-Out      11-07-2015
## 149                    0          Canceled      17-06-2015
## 150                    0          Canceled      01-05-2015
## 151                    1         Check-Out      12-07-2015
## 152                    1         Check-Out      12-07-2015
## 153                    1          Canceled      30-03-2015
## 154                    0         Check-Out      12-07-2015
## 155                    1         Check-Out      14-07-2015
## 156                    2         Check-Out      15-07-2015
## 157                    1         Check-Out      15-07-2015
## 158                    0         Check-Out      16-07-2015
## 159                    0         Check-Out      19-07-2015
## 160                    0         Check-Out      19-07-2015
## 161                    0         Check-Out      11-07-2015
## 162                    2         Check-Out      10-07-2015
## 163                    2         Check-Out      10-07-2015
## 164                    1         Check-Out      10-07-2015
```

```
## 165                    0          Check-Out        10-07-2015
## 166                    2          Check-Out        10-07-2015
## 167                    2          Check-Out        10-07-2015
## 168                    2          Check-Out        06-07-2015
## 169                    0          Check-Out        06-07-2015
## 170                    0          Check-Out        07-07-2015
## 171                    2          Check-Out        08-07-2015
## 172                    1          Check-Out        08-07-2015
## 173                    1          Check-Out        09-07-2015
## 174                    0           Canceled        03-06-2015
## 175                    0          Check-Out        10-07-2015
## 176                    1          Check-Out        10-07-2015
## 177                    0          Check-Out        11-07-2015
## 178                    0          Check-Out        11-07-2015
## 179                    1          Check-Out        12-07-2015
## 180                    0          Check-Out        12-07-2015
## 181                    0          Check-Out        13-07-2015
## 182                    1           Canceled        26-06-2015
## 183                    0          Check-Out        13-07-2015
## 184                    1          Check-Out        14-07-2015
## 185                    0           Canceled        14-05-2015
## 186                    1          Check-Out        16-07-2015
## 187                    1          Check-Out        16-07-2015
## 188                    1          Check-Out        16-07-2015
## 189                    2          Check-Out        16-07-2015
## 190                    0          Check-Out        17-07-2015
## 191                    0          Check-Out        20-07-2015
## 192                    0          Check-Out        20-07-2015
## 193                    0          Check-Out        13-07-2015
## 194                    1           Canceled        07-05-2015
## 195                    2          Check-Out        10-07-2015
## 196                    1          Check-Out        10-07-2015
## 197                    1          Check-Out        07-07-2015
## 198                    1          Check-Out        07-07-2015
## 199                    3          Check-Out        08-07-2015
## 200                    0          Check-Out        08-07-2015
## 201                    3          Check-Out        08-07-2015
## 202                    1          Check-Out        11-07-2015
## 203                    2          Check-Out        11-07-2015
## 204                    1          Check-Out        11-07-2015
## 205                    0          Check-Out        11-07-2015
## 206                    0           Canceled        28-05-2015
## 207                    2           Canceled        13-04-2015
## 208                    0          Check-Out        14-07-2015
## 209                    0           Canceled        25-03-2015
## 210                    1          Check-Out        21-07-2015
## 211                    1          Check-Out        11-07-2015
## 212                    2          Check-Out        12-07-2015
## 213                    1          Check-Out        12-07-2015
## 214                    1           Canceled        28-05-2015
## 215                    1          Check-Out        12-07-2015
## 216                    1          Check-Out        12-07-2015
## 217                    1           Canceled        29-06-2015
## 218                    0          Check-Out        09-07-2015
```

```
## 219                    1         Canceled      08-07-2015
## 220                    1         Canceled      08-07-2015
## 221                    1        Check-Out      10-07-2015
## 222                    1         Canceled      28-05-2015
## 223                    1        Check-Out      14-07-2015
## 224                    1         Canceled      15-04-2015
## 225                    1        Check-Out      15-07-2015
## 226                    0        Check-Out      15-07-2015
## 227                    0        Check-Out      15-07-2015
## 228                    1        Check-Out      16-07-2015
## 229                    3        Check-Out      17-07-2015
## 230                    2        Check-Out      17-07-2015
## 231                    3        Check-Out      10-07-2015
## 232                    1        Check-Out      11-07-2015
## 233                    0        Check-Out      11-07-2015
## 234                    0         Canceled      02-06-2015
## 235                    1         Canceled      16-06-2015
## 236                    0         Canceled      16-06-2015
## 237                    2        Check-Out      12-07-2015
## 238                    0         Canceled      23-06-2015
## 239                    0         Canceled      27-06-2015
## 240                    1        Check-Out      13-07-2015
## 241                    1        Check-Out      14-07-2015
## 242                    0        Check-Out      14-07-2015
## 243                    0        Check-Out      16-07-2015
## 244                    0        Check-Out      16-07-2015
## 245                    0        Check-Out      16-07-2015
## 246                    0        Check-Out      16-07-2015
## 247                    1        Check-Out      16-07-2015
## 248                    2         Canceled      13-05-2015
## 249                    0        Check-Out      11-07-2015
## 250                    0        Check-Out      12-07-2015
## 251                    1        Check-Out      12-07-2015
## 252                    0        Check-Out      12-07-2015
## 253                    1        Check-Out      12-07-2015
## 254                    1        Check-Out      12-07-2015
## 255                    1        Check-Out      12-07-2015
## 256                    2        Check-Out      12-07-2015
## 257                    1        Check-Out      12-07-2015
## 258                    1        Check-Out      13-07-2015
## 259                    1        Check-Out      13-07-2015
## 260                    2        Check-Out      13-07-2015
## 261                    1        Check-Out      14-07-2015
## 262                    1        Check-Out      14-07-2015
## 263                    0         Canceled      29-06-2015
## 264                    2        Check-Out      15-07-2015
## 265                    3        Check-Out      15-07-2015
## 266                    0        Check-Out      15-07-2015
## 267                    2        Check-Out      17-07-2015
## 268                    1        Check-Out      17-07-2015
## 269                    2        Check-Out      17-07-2015
## 270                    2        Check-Out      17-07-2015
## 271                    0        Check-Out      17-07-2015
## 272                    3        Check-Out      17-07-2015
```

```
## 273                          2       Check-Out            17-07-2015
## 274                          0       Check-Out            18-07-2015
## 275                          2       Check-Out            19-07-2015
## 276                          0       Check-Out            20-07-2015
## 277                          0       Check-Out            21-07-2015
## 278                          0       Check-Out            23-07-2015
## 279                          3       Check-Out            17-07-2015
## 280                          1       Check-Out            17-07-2015
## 281                          0        Canceled            29-05-2015
## 282                          0       Check-Out            16-07-2015
## 283                          1       Check-Out            17-07-2015
## 284                          0        Canceled            08-06-2015
## 285                          1       Check-Out            17-07-2015
## 286                          2       Check-Out            17-07-2015
## 287                          1       Check-Out            18-07-2015
## 288                          1        Canceled            22-04-2015
## 289                          1       Check-Out            15-07-2015
## 290                          0       Check-Out            15-07-2015
## 291                          0       Check-Out            15-07-2015
## 292                          0       Check-Out            12-07-2015
## 293                          1       Check-Out            12-07-2015
## 294                          0       Check-Out            12-07-2015
## 295                          1       Check-Out            12-07-2015
## 296                          0       Check-Out            13-07-2015
## 297                          0       Check-Out            13-07-2015
## 298                          1       Check-Out            13-07-2015
## 299                          0       Check-Out            14-07-2015
```

```
is.data.frame(mydata)
```

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

```
is.name(mydata)
```

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

```
lowess(mydata)
```

```
## $x
##   [1] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
##  [38] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
##  [75] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [112] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [149] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [186] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [223] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [260] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
## [297] 1 1 1
##
## $y
##   [1] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [38] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
```

```
##   [75] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [112] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [149] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [186] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [223] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [260] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [297] 0 0 0
```

```
log(mydata$adr)
```

```
##   [1]      -Inf      -Inf 4.317488 4.317488 4.584967 4.584967 4.672829 4.634729
##   [9] 4.406719 4.658711 4.812184 4.976734 4.574711 5.041940 4.550820 4.574711
##  [17] 4.579852 4.479607 4.676746 5.030438 4.577696 4.438761 4.438761 4.601865
##  [25] 4.553350 4.152613 4.375757 4.672829 4.543295 4.469350 4.127134 4.156693
##  [33] 4.684905 4.182050 4.689511 4.689511 4.584967 4.689511 4.689511 4.919981
##  [41] 4.769073 4.375757 4.812184 4.919981 4.706824 5.030438 4.076690 4.417394
##  [49] 4.410978 4.782060 4.213312 4.025530 4.706824 4.479607 4.990433 4.672829
##  [57] 4.990433 4.769837 4.812184 4.584967 4.769073 4.905275 4.890349 4.076690
##  [65] 4.915078 5.030438 4.705016 4.574711 4.703204 4.406719 4.574711 4.301359
##  [73] 4.516339 4.740575 4.703204 4.509760 4.812184 4.804021 4.706824 4.452718
##  [81] 4.076690 4.019621 4.019621 4.820282 4.710881 4.903273 4.526668 4.688868
##  [89] 4.301359 4.584967 4.875197 4.812184 4.550820 4.812184 4.812184 4.301359
##  [97] 4.762174 5.280866 4.598146 4.510310 4.529045 4.270397 4.569439 4.452019
## [105] 4.567468 5.093750 5.147494 4.706824 4.076690 4.301359 4.574711 4.934474
## [113] 4.208268 4.757891 4.567468 4.812184 4.270397 4.270397 5.003946 5.093750
## [121] 4.375757 4.653960 4.812184 4.301359 4.727388      -Inf 4.812184 4.301359
## [129] 4.740575 4.301359 4.301359 4.479607 4.574711 4.443827 4.488636 4.383276
## [137] 4.584967 4.615121 4.574711 5.117994 5.416100 4.574711 4.469350 4.449568
## [145] 4.812184 4.672829 5.093750 4.406719 5.093750 4.658711 5.101085 4.577696
## [153] 4.736198 4.589041 5.164786 4.152613 4.823904 4.706824 4.305011 4.898586
## [161] 5.117994 4.812184 4.769073 5.143533 5.347108 4.574711 4.769073      -Inf
## [169]      -Inf 4.875197 4.584967 4.469350 4.574711 5.117994 4.516339 4.301359
## [177] 4.812184 5.164786 4.768988 4.767544 5.220356 4.262680 3.855453 5.017280
## [185] 4.469350 4.792479 4.156693 5.056883 4.514917 4.290459 4.706824 4.539030
## [193] 4.424847 4.301359 4.406719 5.223055      -Inf      -Inf 4.698661 5.273000
## [201] 4.698661 5.262690 4.574711 5.010635 4.584967 4.516339 4.934474 4.375757
## [209] 3.855453 4.841427 4.672829 4.875197 4.875197 4.812184 4.983607 4.706824
## [217] 4.301359 4.110874 4.651290 4.651290 4.651290 4.195998 4.356196 4.718499
## [225] 4.672829 4.496248 5.043425 4.718499 4.868303 4.606170 4.812184 4.820282
## [233] 4.983607 4.574711 4.812184 5.030438 4.406719 4.654722 4.180828 4.584967
## [241] 4.323603 4.182050 4.510310 4.539030 4.781222 4.903273 4.718499 4.771786
## [249] 4.875197 4.479607 4.301359 4.584967 4.705016 4.875197 5.220356 4.469350
## [257] 4.301359 4.787492 4.584967 4.567468 5.283204 5.283204 4.812184 4.406719
## [265] 5.105945 5.006627 4.671332 5.081404 4.901044 4.972795 5.023881 4.832624
## [273] 4.896570 5.073610 4.792479 4.720283 4.705920 4.662495 4.556715 4.689787
## [281] 5.036693 4.792479 4.507227 4.841585 4.972587 4.600158 4.937347 4.301359
## [289] 4.499476 4.812184 4.812184 4.812184 4.976044 5.030438 4.875197 4.605170
## [297] 4.182050 4.812184 4.812184
```

```
#Obtain documentation for a given R command
help(mydata)
```

```
## No documentation for 'mydata' in specified packages and libraries:
## you could try '??mydata'
```

177

```r
#Enter data manually to a vector in R
c(mydata)
```

```
## $hotel
##   [1] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##   [6] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [11] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [16] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [21] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [26] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [31] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [36] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [41] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [46] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [51] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [56] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [61] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [66] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [71] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [76] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [81] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [86] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [91] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##  [96] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [101] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [106] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [111] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [116] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [121] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [126] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [131] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [136] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [141] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [146] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [151] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [156] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [161] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [166] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [171] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [176] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [181] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [186] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [191] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [196] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [201] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [206] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [211] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [216] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [221] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [226] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [231] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [236] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [241] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
```

```
## [246] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [251] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [256] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [261] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [266] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [271] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [276] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [281] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [286] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [291] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
## [296] "Resort Hotel" "Resort Hotel" "Resort Hotel" "Resort Hotel"
##
## $is_canceled
##   [1] 0 0 0 0 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 1 1 0
##  [38] 0 1 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 1 1 1 0 0
##  [75] 1 0 1 0 0 0 0 1 0 1 0 0 0 1 0 0 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 1 1 1 0 0 0
## [112] 0 0 0 1 0 0 0 0 0 1 1 1 1 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0
## [149] 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 1
## [186] 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 1 0 1 0 0 0 0 1 0 0 1 0 1 1 0 1
## [223] 0 1 0 0 0 0 0 0 0 0 0 1 1 1 0 1 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0
## [260] 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0
## [297] 0 0 0
##
## $lead_time
##   [1] 342 737   7  13  14  14   0   9  85  75  23  35  68  18  37  68  37  12
##  [19]   0   7  37  72  72  72 127  78  48  60  77  99 118  95  96  69  45  40
##  [37]  15  36  43  70  45  45  16  70 107  47  96 113  90  50 113  93  76   3
##  [55]   1   1   0   0   0  14  10   5  17  93   3  10   3  51  71  63  62 101
##  [73]   2  15  51   3  48   2  72  81  99 368 364  81  99 324  69  79  12   9
##  [91]   1  21   9 109 109  72  63  63 101 102   4  98  92  95 102  26  73 102
## [109] 115 102  86  78  52  29 101 109  92  92  79   2  30  51  36  73  33  32
## [127]   8 100   1 100 100   9   5   0   9   2   2   9   5   2  44  80  97 109
## [145]  30  64  39  90  34  93  97  29 101  27   8  82  94 110  96  79 115 111
## [163]  51  94  81  84  51 111   0   2   7  98  95  48  66 104  28  34  98 104
## [181]  68  86 258 111  94 112 100  33  97  80  90 111  65  67  55  21   8   8
## [199]   0   0   0   8  66  88   0  43  88  54 292 112  68   7   1 113   5  83
## [217] 105   0   1   1   1 102 113 280  96 394  33  82 100 100  17  68  12  77
## [235]  24  44  78  17 103  16  14  77  90  90  90 366 249  69  10  22  91  23
## [253]  11   3  13 108  91  37  21 106  30  30  51  79  21  35  78  31  78  78
## [271]  44  34  87  11 115  86  41  32  34  34 100  44 304  36 117  70 110 109
## [289]  33  33  33   0   0   0   0  84  71  16  54
##
## $arrival_date_year
##   [1] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [16] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [31] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [46] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [61] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [76] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##  [91] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [106] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [121] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [136] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [151] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
```

```
## [166] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [181] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [196] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [211] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [226] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [241] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [256] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [271] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
## [286] 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015
##
## $arrival_date_month
##    [1] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##   [11] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##   [21] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##   [31] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##   [41] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##   [51] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##   [61] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##   [71] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##   [81] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
##   [91] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
## [101] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
## [111] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
## [121] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
## [131] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
## [141] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
## [151] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
## [161] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
## [171] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
## [181] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
## [191] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
## [201] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
## [211] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
## [221] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
## [231] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
## [241] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
## [251] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
## [261] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
## [271] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
## [281] "July" "July" "July" "July" "July" "July" "July" "July" "July" "July"
## [291] "July" "July" "July" "July" "July" "July" "July" "July" "July"
##
## $arrival_date_week_number
##    [1] 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27
##   [26] 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27
##   [51] 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27
##   [76] 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27
## [101] 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27 27
## [126] 27 27 27 27 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28
## [151] 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28
## [176] 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28
## [201] 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28
## [226] 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28
## [251] 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28
```

```
## [276]  28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28
##
## $arrival_date_day_of_month
##    [1]  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
##   [26]  1  1  1  1  1  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2
##   [51]  2  2  2  2  2  2  2  2  2  2  2  2  2  2  3  3  3  3  3  3  3  3  3  3  3
##   [76]  3  3  3  3  3  3  3  3  3  3  3  3  3  3  3  3  3  3  3  3  3  3  3  3  3
##  [101]  4  4  4  4  4  4  4  4  4  4  4  4  4  4  4  4  4  4  4  4  4  4  4  4  4
##  [126]  4  4  4  4  4  4  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5
##  [151]  5  5  5  5  5  5  5  5  5  5  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6
##  [176]  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  6  7  7  7  7  7  7  7
##  [201]  7  7  7  7  7  7  7  7  7  7  8  8  8  8  8  8  8  8  8  8  8  8  8  8  8
##  [226]  8  8  8  8  8  9  9  9  9  9  9  9  9  9  9  9  9  9  9  9  9  9  9 10 10
##  [251] 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10
##  [276] 10 10 10 10 10 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11
##
## $stays_in_weekend_nights
##    [1]  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  2  2  2  2  2  2  2  2  4  4  2  2  1  1  1
##   [38]  1  1  2  2  2  2  2  2  2  2  2  2  2  3  4  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
##   [75]  0  1  1  2  2  2  3  3  3  3  4  6  0  0  0  0  0  0  0  0  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2
##  [112]  2  2  2  2  2  4  4  4  0  0  0  0  0  0  0  1  1  1  1  1  1  1  1  1  1  1  1  1  2  2  2  2  2  2  2  2
##  [149]  2  2  2  2  2  2  4  4  4  4  4  4  1  1  1  1  1  1  1  0  0  1  1  1  1  1  1  1  1  1  1  1  1  2  2  2  3  3
##  [186]  3  3  3  3  3  4  4  2  0  0  0  0  0  0  0  0  0  0  0  0  0  2  2  2  4  0  0  0  0  0  0  0  0  0  0  0  1
##  [223]  2  2  2  2  2  2  2  2  0  0  0  0  0  0  0  1  1  1  2  2  2  2  2  2  2  2  0  0  0  0  0  0  0  0  0  1  1
##  [260]  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  3  4  4  2  2  2  2  2  2  2  2  2  2  2  2  0  0  0  0  1
##  [297]  1  1  2
##
## $stays_in_week_nights
##    [1]  0  0  1  1  2  2  2  2  3  3  4  4  4  4  4  4  4  1  1  4  4  4  4  4  5
##   [26]  5  5  5  5  5 10 11  8  4  3  3  3  3  3  3  3  3  3  3  5  5  5  5  5  5
##   [51]  5  8 10  1  1  1  1  1  1  2  2  2  3  3  3  2  2  2  2  2  2  2  2  2  2
##   [76]  2  2  2  2  6  7  7  7  7  7 10 10 15  1  1  1  1  1  1  2  2  5  5  5  5
##  [101]  1  1  4  4  5  5  5  5  5  5  5  5  5  6  6  6  6  6  6  1  1  1  1  1  1
##  [126]  1  1  1  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  2  3  3  3  4  4  4  5
##  [151]  5  5  5  5  5  6  6  7 10 10  4  3  3  3  3  3  3  0  0  0  1  1  2  3  3
##  [176]  3  4  4  5  5  5  5  5  5  7  7  7  7  7  8 10 10  5  2  3  3  0  0  1  1
##  [201]  1  4  4  4  4  5  5  5  5 10  3  4  4  4  4  4  4  1  1  1  2  4  4  5  5
##  [226]  5  5  6  7  7  1  2  2  3  3  3  3  3  3  3  3  3  5  5  5  5  5  6  1  2
##  [251]  2  2  2  2  2  2  2  2  2  2  2  2  3  3  3  3  5  5  5  5  5  5  5  6  7
##  [276]  7  7  9  5  5  3  3  4  4  4  4  5  5  2  2  2  1  1  1  1  1  1  1  1
##
## $adults
##    [1]  2  2  1  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  1  2  2  2  2  2  2  2  2  1  2  2  2  3  3  2
##   [38]  3  3  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  3  2  2  2  2
##   [75]  3  2  2  1  2  3  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  3  2  2  2  1  2  2  2  3  2  2  2  2
##  [112]  2  2  3  2  2  2  2  2  2  2  1  1  2  2  4  2  2  2  2  2  2  2  1  1  2  1  2  2  3  2  2  2  2  2  2
##  [149]  2  2  2  2  2  2  2  2  3  2  1  2  2  2  2  3  2  2  3  2  1  2  2  2  2  2  2  2  2  2  2  2  1  2  2  2
##  [186]  2  2  2  2  1  2  2  2  2  2  2  2  1  3  1  3  2  3  2  2  2  2  2  2  2  2  2  2  2  2  2  2  1  2  2  2  2
##  [223]  2  2  2  2  2  3  3  2  2  3  2  2  2  2  2  2  2  1  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2
##  [260]  2  2  2  2  2  2  2  2  2  2  2  1  2  2  3  2  2  2  2  2  2  2  2  2  2  3  2  2  2  2  2  2  2  1  2  2  2
##  [297]  2  2  2
##
## $children
##    [1]  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

```
##  [38] 0 0 0 0 0 0 0 0 2 0 0 0 0 0 0 0 0 0 2 0 0 0 0 0 0 0 0 0 2 0 0 0 0 0 0 0 0
##  [75] 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 2 0 0 2 0 0 0 0 0
## [112] 0 0 0 0 0 0 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0
## [149] 2 0 2 0 0 0 2 0 0 0 0 0 2 0 0 0 2 0 0 0 0 1 0 0 0 0 0 0 0 0 0 2 0 0 0 0
## [186] 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [223] 0 1 0 0 0 0 0 2 0 2 0 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0
## [260] 0 0 0 0 0 2 0 0 0 0 0 1 1 1 0 0 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [297] 0 0 0
##
## $babies
##   [1] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [38] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [75] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
## [112] 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [149] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [186] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [223] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [260] 0 0 0 0 0 2 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0
## [297] 0 0 0
##
## $meal
##   [1] "BB" "BB" "BB" "BB" "BB" "BB" "BB" "FB" "BB" "HB" "BB" "HB" "BB" "HB" "BB"
##  [16] "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "HB" "BB" "BB" "BB" "BB" "BB"
##  [31] "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "HB" "BB" "BB" "BB" "HB" "BB"
##  [46] "BB" "BB" "BB" "HB" "HB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB"
##  [61] "BB" "BB" "BB" "BB" "HB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "HB" "BB" "BB"
##  [76] "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "HB" "HB" "HB" "BB" "BB" "BB" "BB"
##  [91] "BB" "BB" "BB" "BB" "BB" "BB" "BB" "HB" "BB" "BB" "BB" "BB" "BB" "BB" "BB"
## [106] "BB" "HB" "BB" "BB" "BB" "BB" "HB" "BB" "BB" "BB" "BB" "BB" "BB" "HB" "BB"
## [121] "BB" "HB" "BB" "BB" "BB" "FB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB"
## [136] "BB" "BB" "BB" "BB" "BB" "HB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "HB"
## [151] "HB" "BB" "HB" "BB" "BB" "BB" "BB" "BB" "HB" "HB" "BB" "BB" "BB" "BB" "HB"
## [166] "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "HB" "HB" "BB" "BB" "HB" "HB" "BB"
## [181] "HB" "HB" "BB" "HB" "BB" "BB" "BB" "HB" "HB" "BB" "BB" "BB" "BB" "BB" "BB"
## [196] "HB" "BB" "BB" "BB" "HB" "BB" "BB" "BB" "HB" "BB" "HB" "HB" "BB" "BB" "HB"
## [211] "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "HB" "BB"
## [226] "HB" "HB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB" "BB"
## [241] "BB" "BB" "BB" "BB" "BB" "HB" "HB" "HB" "BB" "BB" "BB" "BB" "BB" "BB" "HB"
## [256] "BB" "BB" "BB" "BB" "BB" "FB" "FB" "BB" "BB" "HB" "BB" "HB" "HB" "HB" "HB"
## [271] "HB" "HB" "FB" "BB" "BB" "BB" "BB" "BB" "HB" "HB" "HB" "BB" "BB" "BB" "HB"
## [286] "BB" "BB" "BB" "BB" "BB" "BB" "BB" "HB" "BB" "BB" "HB" "BB" "BB" "BB"
##
## $country
##   [1] "PRT"  "PRT"  "GBR"  "GBR"  "GBR"  "GBR"  "PRT"  "PRT"  "PRT"  "PRT"
##  [11] "PRT"  "PRT"  "USA"  "ESP"  "PRT"  "IRL"  "PRT"  "IRL"  "FRA"  "GBR"
##  [21] "GBR"  "PRT"  "PRT"  "PRT"  "GBR"  "PRT"  "IRL"  "PRT"  "PRT"  "PRT"
##  [31] "NULL" "GBR"  "PRT"  "IRL"  "PRT"  "PRT"  "ESP"  "PRT"  "PRT"  "ROU"
##  [41] "PRT"  "IRL"  "ESP"  "ROU"  "PRT"  "PRT"  "ESP"  "NOR"  "GBR"  "IRL"
##  [51] "NOR"  "IRL"  "OMN"  "ESP"  "ARG"  "ESP"  "PRT"  "PRT"  "PRT"  "USA"
##  [61] "PRT"  "IRL"  "ESP"  "IRL"  "PRT"  "USA"  "ESP"  "POL"  "PRT"  "PRT"
##  [71] "PRT"  "PRT"  "PRT"  "ESP"  "PRT"  "ESP"  "PRT"  "PRT"  "DEU"  "PRT"
##  [81] "FRA"  "PRT"  "GBR"  "PRT"  "GBR"  "GBR"  "GBR"  "PRT"  "GBR"  "PRT"
##  [91] "ESP"  "PRT"  "USA"  "BEL"  "PRT"  "PRT"  "PRT"  "ESP"  "PRT"  "DEU"
## [101] "ESP"  "FRA"  "FRA"  "PRT"  "PRT"  "PRT"  "PRT"  "PRT"  "PRT"  "PRT"
```

```
## [111] "CHE" "PRT" "GBR" "PRT" "PRT" "PRT" "GBR" "PRT" "PRT" "PRT"
## [121] "PRT" "PRT" "PRT" "PRT" "PRT" "PRT" "ESP" "FRA" "PRT" "FRA"
## [131] "FRA" "ESP" "PRT" "ESP" "DEU" "PRT" "PRT" "DEU" "PRT" "PRT"
## [141] "PRT" "FRA" "ESP" "CN" "ESP" "PRT" "ESP" "PRT" "PRT" "PRT"
## [151] "PRT" "IRL" "PRT" "ESP" "CHE" "PRT" "PRT" "GBR" "GBR" "GBR"
## [161] "PRT" "PRT" "USA" "CN" "CHE" "PRT" "USA" "PRT" "PRT" "PRT"
## [171] "PRT" "USA" "GRC" "PRT" "PRT" "PRT" "PRT" "PRT" "ESP" "PRT"
## [181] "PRT" "PRT" "GBR" "PRT" "PRT" "GBR" "GBR" "PRT" "GBR" "FRA"
## [191] "ITA" "GBR" "PRT" "PRT" "ESP" "PRT" "PRT" "PRT" "GBR" "PRT"
## [201] "GBR" "ESP" "PRT" "USA" "NLD" "PRT" "PRT" "IRL" "PRT" "IRL"
## [211] "GBR" "PRT" "ESP" "PRT" "ESP" "PRT" "PRT" "PRT" "PRT" "PRT"
## [221] "CHE" "PRT" "PRT" "PRT" "GBR" "GBR" "PRT" "IRL" "DNK" "DNK"
## [231] "PRT" "ARG" "PRT" "PRT" "PRT" "PRT" "PRT" "PRT" "PRT" "RUS"
## [241] "SWE" "POL" "FRA" "GBR" "GBR" "GBR" "PRT" "PRT" "USA" "PRT"
## [251] "PRT" "PRT" "PRT" "PRT" "PRT" "PRT" "PRT" "GBR" "AUS" "GBR"
## [261] "PRT" "PRT" "PRT" "POL" "PRT" "EST" "PRT" "PRT" "PRT" "PRT"
## [271] "RUS" "GBR" "PRT" "PRT" "IRL" "PRT" "GBR" "DNK" "GBR" "GBR"
## [281] "PRT" "ESP" "PRT" "PRT" "PRT" "ESP" "PRT" "PRT" "GBR" "PRT"
## [291] "CZE" "GBR" "DEU" "ESP" "ESP" "PRT" "ESP" "ROU" "PRT"
##
## $market_segment
##   [1] "Direct"         "Direct"         "Direct"         "Corporate"
##   [5] "Online TA"      "Online TA"      "Direct"         "Direct"
##   [9] "Online TA"      "Offline TA/TO"  "Online TA"      "Online TA"
##  [13] "Online TA"      "Online TA"      "Online TA"      "Online TA"
##  [17] "Offline TA/TO"  "Online TA"      "Corporate"      "Direct"
##  [21] "Online TA"      "Direct"         "Direct"         "Direct"
##  [25] "Offline TA/TO"  "Offline TA/TO"  "Offline TA/TO"  "Online TA"
##  [29] "Online TA"      "Online TA"      "Direct"         "Offline TA/TO"
##  [33] "Direct"         "Offline TA/TO"  "Online TA"      "Online TA"
##  [37] "Online TA"      "Online TA"      "Online TA"      "Direct"
##  [41] "Online TA"      "Offline TA/TO"  "Direct"         "Direct"
##  [45] "Online TA"      "Online TA"      "Offline TA/TO"  "Offline TA/TO"
##  [49] "Offline TA/TO"  "Online TA"      "Offline TA/TO"  "Offline TA/TO"
##  [53] "Offline TA/TO"  "Online TA"      "Online TA"      "Direct"
##  [57] "Direct"         "Online TA"      "Direct"         "Online TA"
##  [61] "Online TA"      "Online TA"      "Direct"         "Offline TA/TO"
##  [65] "Online TA"      "Online TA"      "Online TA"      "Online TA"
##  [69] "Offline TA/TO"  "Online TA"      "Online TA"      "Online TA"
##  [73] "Offline TA/TO"  "Online TA"      "Online TA"      "Online TA"
##  [77] "Online TA"      "Online TA"      "Offline TA/TO"  "Offline TA/TO"
##  [81] "Offline TA/TO"  "Offline TA/TO"  "Offline TA/TO"  "Direct"
##  [85] "Offline TA/TO"  "Offline TA/TO"  "Online TA"      "Offline TA/TO"
##  [89] "Online TA"      "Online TA"      "Online TA"      "Online TA"
##  [93] "Online TA"      "Online TA"      "Online TA"      "Online TA"
##  [97] "Online TA"      "Offline TA/TO"  "Online TA"      "Direct"
## [101] "Direct"         "Offline TA/TO"  "Offline TA/TO"  "Online TA"
## [105] "Online TA"      "Online TA"      "Direct"         "Online TA"
## [109] "Offline TA/TO"  "Online TA"      "Online TA"      "Online TA"
## [113] "Online TA"      "Online TA"      "Online TA"      "Online TA"
## [117] "Offline TA/TO"  "Offline TA/TO"  "Direct"         "Online TA"
## [121] "Offline TA/TO"  "Online TA"      "Direct"         "Online TA"
## [125] "Online TA"      "Complementary"  "Online TA"      "Online TA"
## [129] "Online TA"      "Online TA"      "Online TA"      "Online TA"
```

```
## [133] "Online TA"       "Online TA"       "Online TA"       "Online TA"
## [137] "Online TA"       "Online TA"       "Online TA"       "Direct"
## [141] "Online TA"       "Online TA"       "Online TA"       "Offline TA/TO"
## [145] "Online TA"       "Online TA"       "Online TA"       "Online TA"
## [149] "Online TA"       "Offline TA/TO" "Direct"          "Online TA"
## [153] "Online TA"       "Offline TA/TO" "Online TA"       "Offline TA/TO"
## [157] "Direct"          "Offline TA/TO" "Offline TA/TO" "Offline TA/TO"
## [161] "Online TA"       "Online TA"       "Online TA"       "Offline TA/TO"
## [165] "Direct"          "Online TA"       "Online TA"       "Online TA"
## [169] "Direct"          "Direct"          "Online TA"       "Online TA"
## [173] "Online TA"       "Online TA"       "Offline TA/TO" "Online TA"
## [177] "Online TA"       "Direct"          "Online TA"       "Online TA"
## [181] "Online TA"       "Offline TA/TO" "Offline TA/TO" "Online TA"
## [185] "Online TA"       "Offline TA/TO" "Offline TA/TO" "Direct"
## [189] "Offline TA/TO" "Direct"          "Offline TA/TO" "Offline TA/TO"
## [193] "Offline TA/TO" "Online TA"       "Online TA"       "Direct"
## [197] "Direct"          "Online TA"       "Online TA"       "Direct"
## [201] "Online TA"       "Online TA"       "Online TA"       "Offline TA/TO"
## [205] "Direct"          "Offline TA/TO" "Online TA"       "Offline TA/TO"
## [209] "Offline TA/TO" "Offline TA/TO" "Online TA"       "Online TA"
## [213] "Online TA"       "Online TA"       "Online TA"       "Offline TA/TO"
## [217] "Online TA"       "Offline TA/TO" "Corporate"       "Corporate"
## [221] "Corporate"       "Direct"          "Direct"          "Offline TA/TO"
## [225] "Online TA"       "Offline TA/TO" "Online TA"       "Direct"
## [229] "Online TA"       "Online TA"       "Online TA"       "Direct"
## [233] "Direct"          "Direct"          "Online TA"       "Online TA"
## [237] "Online TA"       "Online TA"       "Online TA"       "Direct"
## [241] "Online TA"       "Offline TA/TO" "Offline TA/TO" "Offline TA/TO"
## [245] "Offline TA/TO" "Offline TA/TO" "Online TA"       "Online TA"
## [249] "Direct"          "Online TA"       "Online TA"       "Online TA"
## [253] "Online TA"       "Online TA"       "Online TA"       "Online TA"
## [257] "Online TA"       "Online TA"       "Direct"          "Online TA"
## [261] "Direct"          "Direct"          "Online TA"       "Online TA"
## [265] "Direct"          "Online TA"       "Online TA"       "Direct"
## [269] "Online TA"       "Online TA"       "Offline TA/TO" "Online TA"
## [273] "Offline TA/TO" "Direct"          "Online TA"       "Online TA"
## [277] "Online TA"       "Online TA"       "Online TA"       "Online TA"
## [281] "Offline TA/TO" "Online TA"       "Direct"          "Online TA"
## [285] "Offline TA/TO" "Online TA"       "Direct"          "Online TA"
## [289] "Online TA"       "Online TA"       "Online TA"       "Direct"
## [293] "Online TA"       "Direct"          "Online TA"       "Corporate"
## [297] "Offline TA/TO" "Online TA"       "Online TA"
## 
## $distribution_channel
##   [1] "Direct"    "Direct"    "Direct"    "Corporate" "TA/TO"     "TA/TO"
##   [7] "Direct"    "Direct"    "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##  [13] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##  [19] "Corporate" "Direct"    "TA/TO"     "Direct"    "Direct"    "Direct"
##  [25] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##  [31] "Direct"    "TA/TO"     "Direct"    "TA/TO"     "TA/TO"     "TA/TO"
##  [37] "TA/TO"     "TA/TO"     "TA/TO"     "Direct"    "TA/TO"     "TA/TO"
##  [43] "Direct"    "Direct"    "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##  [49] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##  [55] "TA/TO"     "Direct"    "Direct"    "TA/TO"     "Direct"    "TA/TO"
```

184

```
##  [61] "TA/TO"     "TA/TO"     "Direct"    "TA/TO"     "TA/TO"     "TA/TO"
##  [67] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##  [73] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##  [79] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "Direct"
##  [85] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##  [91] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
##  [97] "TA/TO"     "TA/TO"     "TA/TO"     "Direct"    "Direct"    "TA/TO"
## [103] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "Direct"    "TA/TO"
## [109] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
## [115] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "Direct"    "TA/TO"
## [121] "TA/TO"     "TA/TO"     "Direct"    "TA/TO"     "TA/TO"     "Direct"
## [127] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
## [133] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
## [139] "TA/TO"     "Direct"    "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
## [145] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
## [151] "Direct"    "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
## [157] "Direct"    "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
## [163] "TA/TO"     "TA/TO"     "Direct"    "TA/TO"     "TA/TO"     "TA/TO"
## [169] "Direct"    "Direct"    "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
## [175] "TA/TO"     "TA/TO"     "TA/TO"     "Direct"    "TA/TO"     "TA/TO"
## [181] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
## [187] "TA/TO"     "Direct"    "TA/TO"     "Direct"    "TA/TO"     "TA/TO"
## [193] "TA/TO"     "TA/TO"     "TA/TO"     "Direct"    "Direct"    "TA/TO"
## [199] "TA/TO"     "Direct"    "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
## [205] "Direct"    "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
## [211] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
## [217] "TA/TO"     "TA/TO"     "Corporate" "Corporate" "Corporate" "Direct"
## [223] "Direct"    "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "Direct"
## [229] "TA/TO"     "TA/TO"     "TA/TO"     "Direct"    "Direct"    "Direct"
## [235] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "Direct"
## [241] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
## [247] "TA/TO"     "TA/TO"     "Direct"    "TA/TO"     "TA/TO"     "TA/TO"
## [253] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
## [259] "Direct"    "TA/TO"     "Direct"    "Direct"    "TA/TO"     "TA/TO"
## [265] "Direct"    "TA/TO"     "TA/TO"     "Direct"    "TA/TO"     "TA/TO"
## [271] "TA/TO"     "TA/TO"     "TA/TO"     "Direct"    "TA/TO"     "TA/TO"
## [277] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"
## [283] "TA/TO"     "TA/TO"     "TA/TO"     "TA/TO"     "Direct"    "TA/TO"
## [289] "TA/TO"     "TA/TO"     "TA/TO"     "Direct"    "TA/TO"     "Direct"
## [295] "TA/TO"     "Corporate" "TA/TO"     "TA/TO"     "TA/TO"
##
## $is_repeated_guest
##   [1] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [38] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [75] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [112] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [149] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [186] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [223] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [260] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [297] 0 0 0
##
## $previous_cancellations
##   [1] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
```

```
##   [38] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##   [75] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [112] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [149] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [186] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [223] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [260] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [297] 0 0 0
##
## $previous_bookings_not_canceled
##    [1] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##   [38] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##   [75] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [112] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [149] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [186] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [223] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [260] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [297] 0 0 0
##
## $reserved_room_type
##    [1] "C" "C" "A" "A" "A" "A" "C" "C" "A" "D" "E" "D" "D" "G" "E" "D" "E" "A"
##   [19] "A" "G" "F" "A" "A" "D" "D" "D" "D" "E" "A" "D" "A" "D" "E" "A" "D" "D"
##   [37] "A" "D" "D" "E" "G" "D" "F" "E" "A" "G" "A" "E" "A" "E" "D" "A" "D" "A"
##   [55] "H" "C" "H" "A" "G" "A" "G" "E" "F" "A" "A" "G" "A" "D" "A" "A" "D" "A"
##   [73] "A" "A" "A" "A" "E" "A" "A" "D" "A" "A" "A" "A" "E" "E" "F" "A" "A" "A"
##   [91] "A" "E" "C" "A" "A" "A" "F" "E" "D" "E" "A" "D" "F" "A" "E" "H" "D" "A"
##  [109] "A" "A" "D" "E" "A" "E" "E" "A" "D" "D" "D" "H" "D" "A" "E" "A" "D" "H"
##  [127] "E" "A" "A" "A" "A" "A" "D" "A" "A" "A" "A" "A" "D" "G" "G" "D" "D" "A"
##  [145] "E" "E" "H" "A" "H" "D" "C" "F" "A" "E" "H" "D" "D" "D" "A" "D" "G" "A"
##  [163] "G" "D" "G" "D" "G" "A" "E" "A" "A" "D" "D" "E" "A" "A" "E" "F" "A" "E"
##  [181] "G" "A" "A" "A" "D" "A" "D" "F" "D" "A" "D" "A" "D" "A" "A" "F" "A" "A"
##  [199] "A" "C" "A" "H" "D" "D" "A" "A" "E" "D" "A" "D" "E" "A" "A" "A" "D" "A"
##  [217] "A" "A" "A" "A" "A" "A" "E" "D" "E" "D" "E" "A" "E" "E" "C" "A" "H" "D"
##  [235] "C" "G" "A" "A" "A" "A" "A" "A" "A" "A" "E" "E" "A" "A" "A" "A" "A" "A"
##  [253] "A" "A" "G" "D" "A" "C" "A" "E" "F" "F" "E" "A" "C" "G" "A" "D" "D" "E"
##  [271] "E" "F" "C" "C" "A" "D" "F" "C" "D" "F" "A" "A" "A" "E" "D" "A" "E" "A"
##  [289] "E" "E" "E" "A" "A" "G" "A" "A" "A" "C" "E"
##
## $assigned_room_type
##    [1] "C" "C" "C" "A" "A" "A" "C" "C" "A" "D" "E" "D" "E" "G" "E" "E" "E" "E"
##   [19] "G" "G" "F" "A" "A" "D" "I" "D" "D" "E" "A" "D" "A" "D" "E" "C" "D" "D"
##   [37] "C" "D" "D" "E" "G" "D" "F" "E" "A" "G" "A" "E" "B" "F" "D" "A" "D" "C"
##   [55] "H" "C" "H" "D" "G" "C" "G" "E" "F" "C" "A" "H" "C" "D" "A" "A" "D" "A"
##   [73] "A" "A" "A" "A" "E" "A" "A" "D" "A" "A" "A" "A" "E" "E" "F" "A" "C" "C"
##   [91] "C" "E" "C" "A" "A" "A" "F" "E" "D" "E" "C" "D" "F" "C" "E" "H" "D" "A"
##  [109] "A" "A" "D" "F" "A" "E" "E" "A" "D" "D" "D" "G" "C" "A" "G" "A" "D" "H"
##  [127] "E" "C" "A" "A" "C" "C" "D" "C" "A" "D" "E" "A" "D" "G" "G" "E" "D" "D"
##  [145] "E" "E" "H" "A" "H" "D" "C" "F" "A" "E" "H" "D" "C" "D" "A" "D" "G" "C"
##  [163] "G" "D" "G" "E" "G" "H" "H" "E" "E" "F" "D" "E" "E" "C" "E" "F" "C" "E"
##  [181] "G" "A" "A" "C" "D" "A" "D" "F" "D" "A" "D" "A" "D" "A" "A" "F" "A" "E"
##  [199] "A" "C" "A" "H" "D" "E" "A" "A" "E" "D" "A" "D" "E" "A" "A" "A" "D" "A"
##  [217] "A" "A" "A" "A" "F" "A" "E" "D" "F" "D" "E" "A" "E" "E" "C" "C" "G" "D"
##  [235] "C" "G" "A" "A" "A" "A" "A" "A" "D" "A" "E" "E" "A" "A" "A" "A" "A" "A"
```

186

```
## [253] "A" "A" "G" "D" "A" "C" "C" "E" "F" "F" "E" "A" "C" "G" "A" "D" "D" "E"
## [271] "E" "F" "C" "C" "A" "D" "F" "C" "D" "F" "A" "A" "A" "E" "D" "A" "E" "A"
## [289] "E" "E" "E" "A" "A" "G" "A" "A" "A" "C" "F"
##
## $booking_changes
##   [1] 3 4 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 1 1 0 0 0 0 0 0 2 0 0 0 0 0 0
##  [38] 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [75] 0 0 0 0 0 0 0 0 2 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [112] 0 0 0 0 0 0 1 1 0 0 1 0 0 2 0 0 0 0 0 0 0 1 0 0 0 0 0 0 3 0 0 0 0 0 0 0 0
## [149] 0 0 1 0 0 0 1 0 3 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0
## [186] 0 1 5 0 1 0 0 0 0 0 0 0 0 0 0 0 2 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [223] 1 0 0 0 0 0 1 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 1 0 0 0
## [260] 0 0 0 0 0 1 0 1 1 1 1 2 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 1 0 0 0
## [297] 0 0 0
##
## $deposit_type
##   [1] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##   [6] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [11] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [16] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [21] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [26] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [31] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [36] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [41] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [46] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [51] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [56] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [61] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [66] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [71] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [76] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [81] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [86] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [91] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##  [96] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [101] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [106] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [111] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [116] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [121] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [126] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [131] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [136] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [141] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [146] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [151] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [156] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [161] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [166] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [171] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [176] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [181] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [186] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
```

```
## [191] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [196] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [201] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [206] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [211] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [216] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [221] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [226] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [231] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [236] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [241] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [246] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [251] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [256] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [261] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [266] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [271] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [276] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [281] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [286] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [291] "No Deposit" "No Deposit" "No Deposit" "No Deposit" "No Deposit"
## [296] "No Deposit" "No Deposit" "No Deposit" "No Deposit"
##
## $agent
##   [1] "NULL" "NULL" "NULL" "304"  "240"  "240"  "NULL" "303"  "240"  "15"
##  [11] "240"  "240"  "240"  "241"  "241"  "240"  "8"    "240"  "NULL" "250"
##  [21] "241"  "250"  "250"  "250"  "115"  "5"    "8"    "240"  "240"  "240"
##  [31] "NULL" "241"  "NULL" "175"  "241"  "241"  "240"  "241"  "241"  "250"
##  [41] "241"  "8"    "NULL" "250"  "240"  "240"  "134"  "156"  "243"  "241"
##  [51] "156"  "156"  "243"  "240"  "240"  "NULL" "NULL" "240"  "NULL" "242"
##  [61] "241"  "240"  "250"  "115"  "240"  "240"  "240"  "242"  "242"  "240"
##  [71] "240"  "240"  "3"    "240"  "242"  "240"  "240"  "240"  "105"  "5"
##  [81] "40"   "40"   "40"   "250"  "115"  "40"   "241"  "242"  "240"  "240"
##  [91] "240"  "240"  "241"  "240"  "240"  "240"  "242"  "105"  "240"  "250"
## [101] "250"  "8"    "241"  "240"  "240"  "240"  "250"  "240"  "134"  "240"
## [111] "240"  "240"  "147"  "241"  "240"  "240"  "40"   "40"   "250"  "240"
## [121] "8"    "240"  "250"  "240"  "240"  "NULL" "240"  "240"  "240"  "240"
## [131] "240"  "240"  "240"  "306"  "184"  "240"  "240"  "184"  "240"  "NULL"
## [141] "240"  "240"  "240"  "241"  "240"  "240"  "240"  "240"  "240"  "15"
## [151] "250"  "241"  "240"  "175"  "240"  "5"    "NULL" "40"   "40"   "243"
## [161] "240"  "240"  "241"  "96"   "250"  "240"  "241"  "240"  "250"  "NULL"
## [171] "240"  "240"  "240"  "240"  "175"  "240"  "240"  "250"  "240"  "240"
## [181] "240"  "175"  "2"    "240"  "240"  "242"  "241"  "250"  "156"  "NULL"
## [191] "8"    "40"   "127"  "240"  "240"  "250"  "NULL" "240"  "240"  "NULL"
## [201] "240"  "240"  "240"  "95"   "NULL" "134"  "240"  "8"    "2"    "156"
## [211] "240"  "240"  "240"  "240"  "240"  "105"  "240"  "146"  "NULL" "NULL"
## [221] "NULL" "9"    "250"  "40"   "240"  "40"   "240"  "250"  "240"  "240"
## [231] "242"  "250"  "NULL" "250"  "242"  "240"  "240"  "240"  "240"  "250"
## [241] "241"  "177"  "6"    "40"   "143"  "40"   "240"  "240"  "250"  "240"
## [251] "240"  "240"  "240"  "240"  "240"  "240"  "240"  "105"  "250"  "240"
## [261] "NULL" "NULL" "240"  "240"  "250"  "240"  "240"  "250"  "240"  "240"
## [271] "244"  "241"  "5"    "250"  "240"  "240"  "241"  "241"  "241"  "241"
## [281] "149"  "240"  "240"  "240"  "15"   "240"  "250"  "240"  "241"  "240"
## [291] "240"  "NULL" "240"  "NULL" "240"  "NULL" "175"  "242"  "240"
```

```
## 
## $company
##    [1] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##   [11] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "110"  "NULL"
##   [21] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##   [31] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##   [41] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##   [51] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##   [61] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##   [71] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##   [81] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##   [91] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [101] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [111] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [121] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [131] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [141] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [151] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [161] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [171] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [181] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [191] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [201] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [211] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "110"  "110" 
##  [221] "110"  "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [231] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [241] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [251] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [261] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [271] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [281] "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL" "NULL"
##  [291] "NULL" "NULL" "NULL" "NULL" "NULL" "113"  "NULL" "NULL" "NULL"
## 
## $days_in_waiting_list
##   [1] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [38] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
##  [75] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [112] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [149] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [186] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [223] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [260] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
## [297] 0 0 0
## 
## $customer_type
##   [1] "Transient"     "Transient"     "Transient"     "Transient"    
##   [5] "Transient"     "Transient"     "Transient"     "Transient"    
##   [9] "Transient"     "Transient"     "Transient"     "Transient"    
##  [13] "Transient"     "Transient"     "Transient"     "Transient"    
##  [17] "Contract"      "Transient"     "Transient"     "Transient"    
##  [21] "Transient"     "Transient"     "Transient"     "Transient"    
##  [25] "Contract"      "Transient"     "Contract"      "Transient"    
##  [29] "Transient"     "Transient"     "Transient"     "Transient"    
##  [33] "Transient"     "Transient"     "Transient"     "Transient"    
```

```
##  [37] "Transient"       "Transient"       "Transient"       "Transient"
##  [41] "Transient"       "Contract"        "Transient"       "Transient"
##  [45] "Transient"       "Transient"       "Transient"       "Transient-Party"
##  [49] "Contract"        "Transient"       "Transient-Party" "Contract"
##  [53] "Contract"        "Transient"       "Transient"       "Transient"
##  [57] "Transient"       "Transient"       "Transient"       "Transient"
##  [61] "Transient"       "Transient"       "Transient"       "Contract"
##  [65] "Transient"       "Transient"       "Transient"       "Transient"
##  [69] "Transient"       "Transient"       "Transient"       "Transient"
##  [73] "Transient"       "Transient"       "Transient"       "Transient"
##  [77] "Transient"       "Transient"       "Transient"       "Transient"
##  [81] "Contract"        "Contract"        "Contract"        "Transient"
##  [85] "Contract"        "Contract"        "Transient"       "Transient"
##  [89] "Transient"       "Transient"       "Transient"       "Transient"
##  [93] "Transient"       "Transient"       "Transient"       "Transient"
##  [97] "Transient"       "Transient"       "Transient"       "Transient"
## [101] "Transient"       "Transient"       "Transient"       "Transient"
## [105] "Transient"       "Transient"       "Transient"       "Transient"
## [109] "Transient"       "Transient"       "Transient"       "Transient"
## [113] "Transient"       "Transient"       "Transient"       "Transient"
## [117] "Contract"        "Contract"        "Transient"       "Transient"
## [121] "Contract"        "Transient"       "Transient"       "Transient"
## [125] "Transient"       "Transient"       "Transient"       "Transient-Party"
## [129] "Transient"       "Transient-Party" "Transient-Party" "Transient"
## [133] "Transient"       "Transient"       "Transient"       "Transient"
## [137] "Transient"       "Transient"       "Transient"       "Transient"
## [141] "Transient"       "Transient"       "Transient"       "Transient"
## [145] "Transient"       "Transient"       "Transient"       "Transient"
## [149] "Transient"       "Transient"       "Transient"       "Transient"
## [153] "Transient"       "Transient"       "Transient"       "Transient"
## [157] "Transient"       "Contract"        "Contract"        "Contract"
## [161] "Transient"       "Transient"       "Transient"       "Transient"
## [165] "Transient"       "Transient"       "Transient"       "Transient"
## [169] "Transient"       "Transient"       "Transient"       "Transient"
## [173] "Transient"       "Transient"       "Transient"       "Transient"
## [177] "Transient"       "Transient"       "Transient"       "Transient"
## [181] "Transient"       "Transient"       "Contract"        "Transient"
## [185] "Transient"       "Transient"       "Transient"       "Transient"
## [189] "Contract"        "Transient"       "Contract"        "Contract"
## [193] "Transient"       "Transient"       "Transient"       "Transient"
## [197] "Transient"       "Transient"       "Transient"       "Transient"
## [201] "Transient"       "Transient"       "Transient"       "Transient"
## [205] "Transient"       "Transient"       "Transient"       "Transient"
## [209] "Contract"        "Contract"        "Transient"       "Transient"
## [213] "Transient"       "Transient"       "Transient"       "Transient"
## [217] "Transient"       "Transient"       "Transient"       "Transient"
## [221] "Transient"       "Transient"       "Transient"       "Contract"
## [225] "Transient"       "Contract"        "Transient"       "Transient"
## [229] "Transient-Party" "Transient-Party" "Transient"       "Transient"
## [233] "Transient"       "Transient"       "Transient"       "Transient"
## [237] "Transient"       "Transient"       "Transient"       "Transient"
## [241] "Transient"       "Transient"       "Transient"       "Contract"
## [245] "Contract"        "Contract"        "Transient"       "Transient"
## [249] "Transient"       "Transient"       "Transient"       "Transient"
```

```
## [253] "Transient"        "Transient"        "Transient"        "Transient"
## [257] "Transient"        "Transient"        "Transient"        "Transient"
## [261] "Transient-Party" "Transient-Party" "Transient"        "Transient"
## [265] "Transient"        "Transient"        "Transient"        "Transient"
## [269] "Transient"        "Transient"        "Transient"        "Transient"
## [273] "Transient"        "Transient"        "Transient"        "Transient"
## [277] "Transient"        "Transient"        "Transient"        "Transient"
## [281] "Transient"        "Transient"        "Transient"        "Transient"
## [285] "Transient"        "Transient"        "Transient"        "Transient"
## [289] "Transient"        "Transient"        "Transient"        "Transient"
## [293] "Transient"        "Transient"        "Transient"        "Transient"
## [297] "Transient"        "Transient"        "Transient"
##
## $adr
##   [1]   0.00   0.00  75.00  75.00  98.00  98.00 107.00 103.00  82.00 105.50
##  [11] 123.00 145.00  97.00 154.77  94.71  97.00  97.50  88.20 107.42 153.00
##  [21]  97.29  84.67  84.67  99.67  94.95  63.60  79.50 107.00  94.00  87.30
##  [31]  62.00  63.86 108.30  65.50 108.80 108.80  98.00 108.80 108.80 137.00
##  [41] 117.81  79.50 123.00 137.00 110.70 153.00  58.95  82.88  82.35 119.35
##  [51]  67.58  56.01 110.70  88.20 147.00 107.00 147.00 117.90 123.00  98.00
##  [61] 117.81 135.00 133.00  58.95 136.33 153.00 110.50  97.00 110.30  82.00
##  [71]  97.00  73.80  91.50 114.50 110.30  90.90 123.00 122.00 110.70  85.86
##  [81]  58.95  55.68  55.68 124.00 111.15 134.73  92.45 108.73  73.80  98.00
##  [91] 131.00 123.00  94.71 123.00 123.00  73.80 117.00 196.54  99.30  90.95
## [101]  92.67  71.55  96.49  85.80  96.30 163.00 172.00 110.70  58.95  73.80
## [111]  97.00 139.00  67.24 116.50  96.30 123.00  71.55  71.55 149.00 163.00
## [121]  79.50 105.00 123.00  73.80 113.00   0.00 123.00  73.80 114.50  73.80
## [131]  73.80  88.20  97.00  85.10  89.00  80.10  98.00 101.00  97.00 167.00
## [141] 225.00  97.00  87.30  85.59 123.00 107.00 163.00  82.00 163.00 105.50
## [151] 164.20  97.29 114.00  98.40 175.00  63.60 124.45 110.70  74.07 134.10
## [161] 167.00 123.00 117.81 171.32 210.00  97.00 117.81   0.00   0.00 131.00
## [171]  98.00  87.30  97.00 167.00  91.50  73.80 123.00 175.00 117.80 117.63
## [181] 185.00  71.00  47.25 151.00  87.30 120.60  63.86 157.10  91.37  73.00
## [191] 110.70  93.60  83.50  73.80  82.00 185.50   0.00   0.00 109.80 195.00
## [201] 109.80 193.00  97.00 150.00  98.00  91.50 139.00  79.50  47.25 126.65
## [211] 107.00 131.00 131.00 123.00 146.00 110.70  73.80  61.00 104.72 104.72
## [221] 104.72  66.42  77.96 112.00 107.00  89.68 155.00 112.00 130.10 100.10
## [231] 123.00 124.00 146.00  97.00 123.00 153.00  82.00 105.08  65.42  98.00
## [241]  75.46  65.50  90.95  93.60 119.25 134.73 112.00 118.13 131.00  88.20
## [251]  73.80  98.00 110.50 131.00 185.00  87.30  73.80 120.00  98.00  96.30
## [261] 197.00 197.00 123.00  82.00 165.00 149.40 106.84 161.00 134.43 144.43
## [271] 152.00 125.54 133.83 159.75 120.60 112.20 110.60 105.90  95.27 108.83
## [281] 153.96 120.60  90.67 126.67 144.40  99.50 139.40  73.80  89.97 123.00
## [291] 123.00 123.00 144.90 153.00 131.00 100.00  65.50 123.00 123.00
##
## $required_car_parking_spaces
##   [1] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0
##  [38] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0
##  [75] 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 1 0 1 0 0 0 0 0 0 0
## [112] 0 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 2 1 0 1 0 0 0 0
## [149] 0 0 1 0 0 0 1 1 1 0 0 0 0 1 0 1 0 0 0 0 0 1 0 0 0 0 0 1 1 0 0 0 0 0 0 0
## [186] 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 1 0
## [223] 1 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0
## [260] 0 0 0 0 0 1 0 1 1 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1
```

```
## [297] 0 0 0
##
## $total_of_special_requests
##   [1] 0 0 0 0 1 1 0 1 1 0 0 0 3 1 0 3 0 0 0 1 1 1 1 1 1 0 0 2 0 1 2 0 2 0 1 1 0
##  [38] 1 0 1 0 0 0 1 2 0 1 2 0 1 2 0 0 0 0 2 0 2 0 1 0 2 1 0 2 0 0 0 2 2 1 1 0 0
##  [75] 0 0 0 0 0 0 0 0 1 0 0 1 2 0 2 1 0 0 2 1 1 1 1 2 0 1 0 2 2 1 0 1 1 1 2 2
## [112] 2 0 1 1 1 1 1 1 0 0 0 2 0 1 0 1 0 2 1 1 0 0 0 0 0 1 0 0 2 2 0 0 0 0
## [149] 0 0 1 1 1 0 1 2 1 0 0 0 0 2 2 1 0 2 2 2 0 0 2 1 1 0 0 1 0 0 1 0 0 1 0 1 0
## [186] 1 1 1 2 0 0 0 0 1 2 1 1 1 3 0 3 1 2 1 0 0 2 0 0 1 1 2 1 1 1 1 1 0 1 1 1 1
## [223] 1 1 1 0 0 1 3 2 3 1 0 0 1 0 2 0 0 1 1 0 0 0 0 1 2 0 0 1 0 1 1 1 2 1 1 1
## [260] 2 1 1 0 2 3 0 2 1 2 2 0 3 2 0 2 0 0 0 3 1 0 0 1 0 1 2 1 1 1 0 0 0 1 0 1 0
## [297] 0 1 0
##
## $reservation_status
##   [1] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
##   [7] "Check-Out" "Check-Out" "Canceled"  "Canceled"  "Canceled"  "Check-Out"
##  [13] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
##  [19] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
##  [25] "Check-Out" "Check-Out" "Check-Out" "Canceled"  "Check-Out" "Check-Out"
##  [31] "Check-Out" "Check-Out" "Canceled"  "Check-Out" "Canceled"  "Canceled"
##  [37] "Check-Out" "Check-Out" "Canceled"  "Check-Out" "Canceled"  "Check-Out"
##  [43] "Check-Out" "Check-Out" "Check-Out" "Canceled"  "Check-Out" "Check-Out"
##  [49] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
##  [55] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
##  [61] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Canceled"  "Check-Out"
##  [67] "Check-Out" "Check-Out" "Canceled"  "Canceled"  "Canceled"  "Canceled"
##  [73] "Check-Out" "Check-Out" "Canceled"  "Check-Out" "Canceled"  "Check-Out"
##  [79] "Check-Out" "Check-Out" "Check-Out" "Canceled"  "Check-Out" "Canceled"
##  [85] "Check-Out" "Check-Out" "Check-Out" "Canceled"  "Check-Out" "Check-Out"
##  [91] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Canceled"  "Canceled"
##  [97] "Canceled"  "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [103] "Check-Out" "Check-Out" "Check-Out" "Canceled"  "Canceled"  "Canceled"
## [109] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [115] "Canceled"  "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [121] "Check-Out" "Canceled"  "No-Show"   "Canceled"  "Canceled"  "Check-Out"
## [127] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [133] "Canceled"  "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [139] "Canceled"  "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [145] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Canceled"  "Canceled"
## [151] "Check-Out" "Check-Out" "Canceled"  "Check-Out" "Check-Out" "Check-Out"
## [157] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [163] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [169] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Canceled"
## [175] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [181] "Check-Out" "Canceled"  "Check-Out" "Check-Out" "Canceled"  "Check-Out"
## [187] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [193] "Check-Out" "Canceled"  "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [199] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [205] "Check-Out" "Canceled"  "Canceled"  "Check-Out" "Canceled"  "Check-Out"
## [211] "Check-Out" "Check-Out" "Check-Out" "Canceled"  "Check-Out" "Check-Out"
## [217] "Canceled"  "Check-Out" "Canceled"  "Canceled"  "Check-Out" "Canceled"
## [223] "Check-Out" "Canceled"  "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [229] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Canceled"
## [235] "Canceled"  "Canceled"  "Check-Out" "Canceled"  "Canceled"  "Check-Out"
```

```
## [241] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [247] "Check-Out" "Canceled"  "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [253] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [259] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Canceled"  "Check-Out"
## [265] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [271] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [277] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Canceled"  "Check-Out"
## [283] "Check-Out" "Canceled"  "Check-Out" "Check-Out" "Check-Out" "Canceled"
## [289] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
## [295] "Check-Out" "Check-Out" "Check-Out" "Check-Out" "Check-Out"
##
## $reservation_status_date
##   [1] "01-07-2015" "01-07-2015" "02-07-2015" "02-07-2015" "03-07-2015"
##   [6] "03-07-2015" "03-07-2015" "03-07-2015" "06-05-2015" "22-04-2015"
##  [11] "23-06-2015" "05-07-2015" "05-07-2015" "05-07-2015" "05-07-2015"
##  [16] "05-07-2015" "05-07-2015" "02-07-2015" "02-07-2015" "05-07-2015"
##  [21] "06-07-2015" "07-07-2015" "07-07-2015" "07-07-2015" "01-07-2015"
##  [26] "08-07-2015" "08-07-2015" "11-05-2015" "08-07-2015" "08-07-2015"
##  [31] "15-07-2015" "16-07-2015" "29-05-2015" "08-07-2015" "19-05-2015"
##  [36] "19-06-2015" "06-07-2015" "06-07-2015" "23-05-2015" "07-07-2015"
##  [41] "18-05-2015" "07-07-2015" "07-07-2015" "07-07-2015" "09-07-2015"
##  [46] "02-06-2015" "09-07-2015" "09-07-2015" "09-07-2015" "09-07-2015"
##  [51] "09-07-2015" "13-07-2015" "16-07-2015" "03-07-2015" "03-07-2015"
##  [56] "03-07-2015" "03-07-2015" "03-07-2015" "03-07-2015" "04-07-2015"
##  [61] "04-07-2015" "04-07-2015" "05-07-2015" "05-07-2015" "29-06-2015"
##  [66] "05-07-2015" "05-07-2015" "05-07-2015" "16-06-2015" "18-06-2015"
##  [71] "03-07-2015" "12-06-2015" "05-07-2015" "05-07-2015" "09-06-2015"
##  [76] "06-07-2015" "26-05-2015" "07-07-2015" "07-07-2015" "11-07-2015"
##  [81] "12-07-2015" "19-05-2015" "13-07-2015" "09-06-2015" "13-07-2015"
##  [86] "17-07-2015" "17-07-2015" "15-04-2015" "04-07-2015" "04-07-2015"
##  [91] "04-07-2015" "04-07-2015" "04-07-2015" "04-07-2015" "26-05-2015"
##  [96] "29-06-2015" "13-05-2015" "10-07-2015" "10-07-2015" "10-07-2015"
## [101] "07-07-2015" "07-07-2015" "10-07-2015" "10-07-2015" "11-07-2015"
## [106] "09-06-2015" "20-05-2015" "22-04-2015" "11-07-2015" "11-07-2015"
## [111] "11-07-2015" "11-07-2015" "11-07-2015" "12-07-2015" "12-05-2015"
## [116] "12-07-2015" "14-07-2015" "14-07-2015" "14-07-2015" "05-07-2015"
## [121] "05-07-2015" "29-05-2015" "04-07-2015" "13-05-2015" "16-06-2015"
## [126] "05-07-2015" "05-07-2015" "06-07-2015" "06-07-2015" "06-07-2015"
## [131] "06-07-2015" "06-07-2015" "01-07-2015" "06-07-2015" "06-07-2015"
## [136] "06-07-2015" "06-07-2015" "06-07-2015" "01-07-2015" "06-07-2015"
## [141] "07-07-2015" "07-07-2015" "09-07-2015" "10-07-2015" "10-07-2015"
## [146] "10-07-2015" "11-07-2015" "11-07-2015" "17-06-2015" "01-05-2015"
## [151] "12-07-2015" "12-07-2015" "30-03-2015" "12-07-2015" "14-07-2015"
## [156] "15-07-2015" "15-07-2015" "16-07-2015" "19-07-2015" "19-07-2015"
## [161] "11-07-2015" "10-07-2015" "10-07-2015" "10-07-2015" "10-07-2015"
## [166] "10-07-2015" "10-07-2015" "06-07-2015" "06-07-2015" "07-07-2015"
## [171] "08-07-2015" "08-07-2015" "09-07-2015" "03-06-2015" "10-07-2015"
## [176] "10-07-2015" "11-07-2015" "11-07-2015" "12-07-2015" "12-07-2015"
## [181] "13-07-2015" "26-06-2015" "13-07-2015" "14-07-2015" "14-05-2015"
## [186] "16-07-2015" "16-07-2015" "16-07-2015" "16-07-2015" "17-07-2015"
## [191] "20-07-2015" "20-07-2015" "13-07-2015" "07-05-2015" "10-07-2015"
## [196] "10-07-2015" "07-07-2015" "07-07-2015" "08-07-2015" "08-07-2015"
## [201] "08-07-2015" "11-07-2015" "11-07-2015" "11-07-2015" "11-07-2015"
## [206] "28-05-2015" "13-04-2015" "14-07-2015" "25-03-2015" "21-07-2015"
```

```
## [211] "11-07-2015" "12-07-2015" "12-07-2015" "28-05-2015" "12-07-2015"
## [216] "12-07-2015" "29-06-2015" "09-07-2015" "08-07-2015" "08-07-2015"
## [221] "10-07-2015" "28-05-2015" "14-07-2015" "15-04-2015" "15-07-2015"
## [226] "15-07-2015" "15-07-2015" "16-07-2015" "17-07-2015" "17-07-2015"
## [231] "10-07-2015" "11-07-2015" "11-07-2015" "02-06-2015" "16-06-2015"
## [236] "16-06-2015" "12-07-2015" "23-06-2015" "27-06-2015" "13-07-2015"
## [241] "14-07-2015" "14-07-2015" "16-07-2015" "16-07-2015" "16-07-2015"
## [246] "16-07-2015" "16-07-2015" "13-05-2015" "11-07-2015" "12-07-2015"
## [251] "12-07-2015" "12-07-2015" "12-07-2015" "12-07-2015" "12-07-2015"
## [256] "12-07-2015" "12-07-2015" "13-07-2015" "13-07-2015" "13-07-2015"
## [261] "14-07-2015" "14-07-2015" "29-06-2015" "15-07-2015" "15-07-2015"
## [266] "15-07-2015" "17-07-2015" "17-07-2015" "17-07-2015" "17-07-2015"
## [271] "17-07-2015" "17-07-2015" "17-07-2015" "18-07-2015" "19-07-2015"
## [276] "20-07-2015" "21-07-2015" "23-07-2015" "17-07-2015" "17-07-2015"
## [281] "29-05-2015" "16-07-2015" "17-07-2015" "08-06-2015" "17-07-2015"
## [286] "17-07-2015" "18-07-2015" "22-04-2015" "15-07-2015" "15-07-2015"
## [291] "15-07-2015" "12-07-2015" "12-07-2015" "12-07-2015" "12-07-2015"
## [296] "13-07-2015" "13-07-2015" "13-07-2015" "14-07-2015"
```

```r
#Command for producing a histogram
hist(mydata$lead_time)
```


Histogram of mydata$lead_time
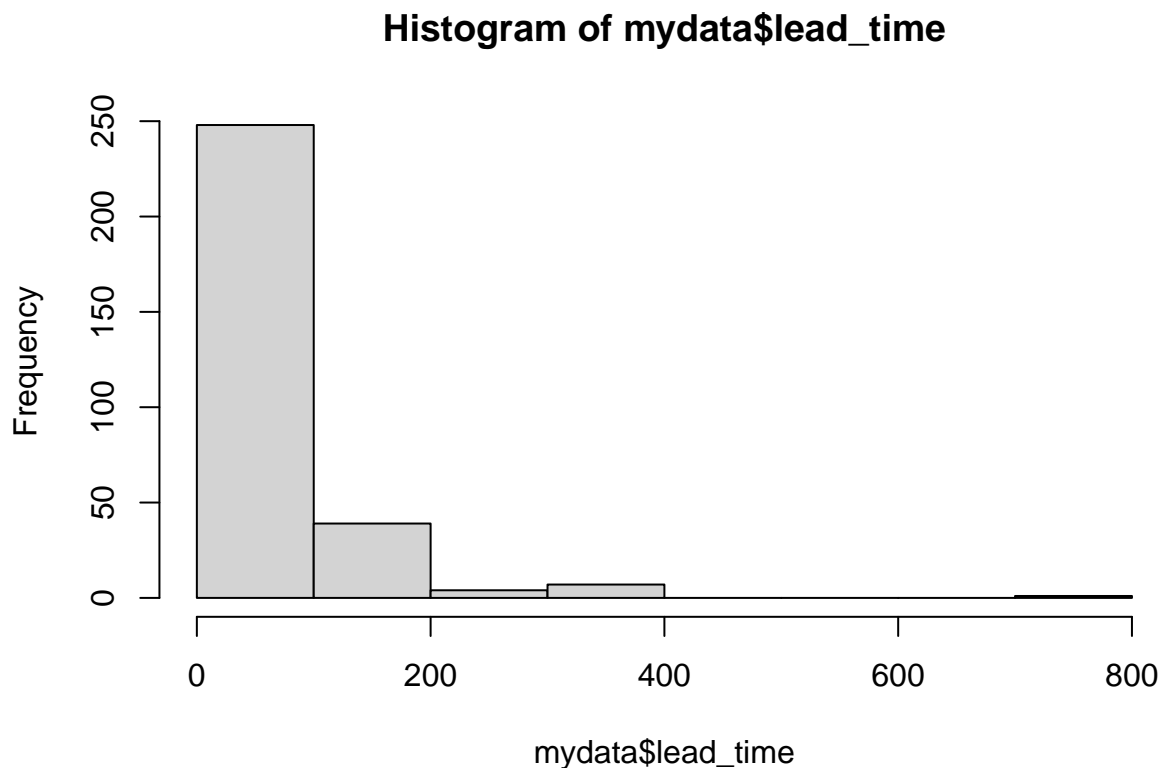
```r
#Make a stem plot
stem(mydata$lead_time)
```

```
##
```

194

```
##   The decimal point is 2 digit(s) to the right of the |
##
##   0 | 0000000000000000000000000000000000000001111111111111111111111111111111+48
##   0 | 5555555555555555556666666777777777777777777777788888888888888888888+17
##   1 | 00000000000000000000000000000000000001111111111111111111111222223
##   1 |
##   2 |
##   2 | 5689
##   3 | 024
##   3 | 6779
##   4 |
##   4 |
##   5 |
##   5 |
##   6 |
##   6 |
##   7 | 4
```

```r
#Produces a barplot
barplot(mydata$lead_time)
```
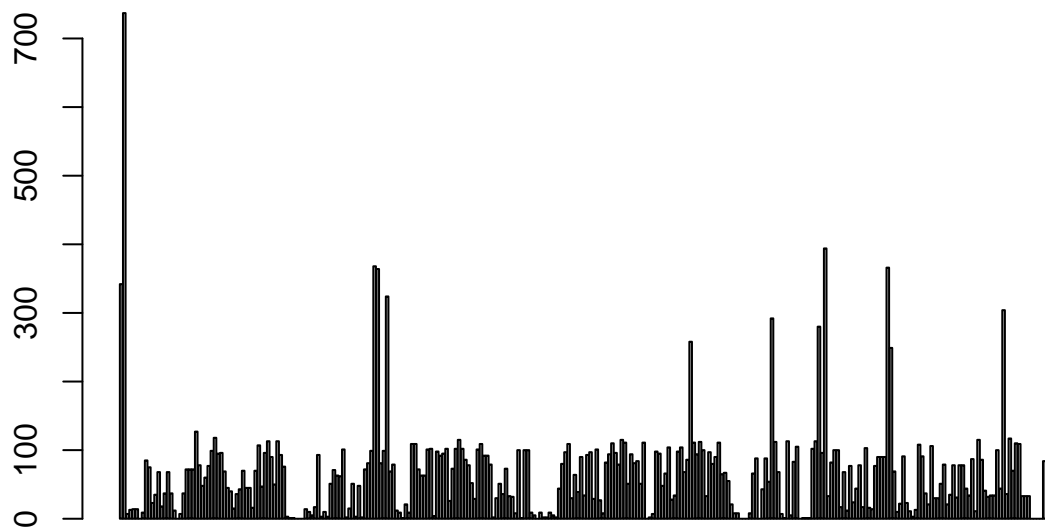


```r
#Produces a box Plot
boxplot(mydata$lead_time)
```
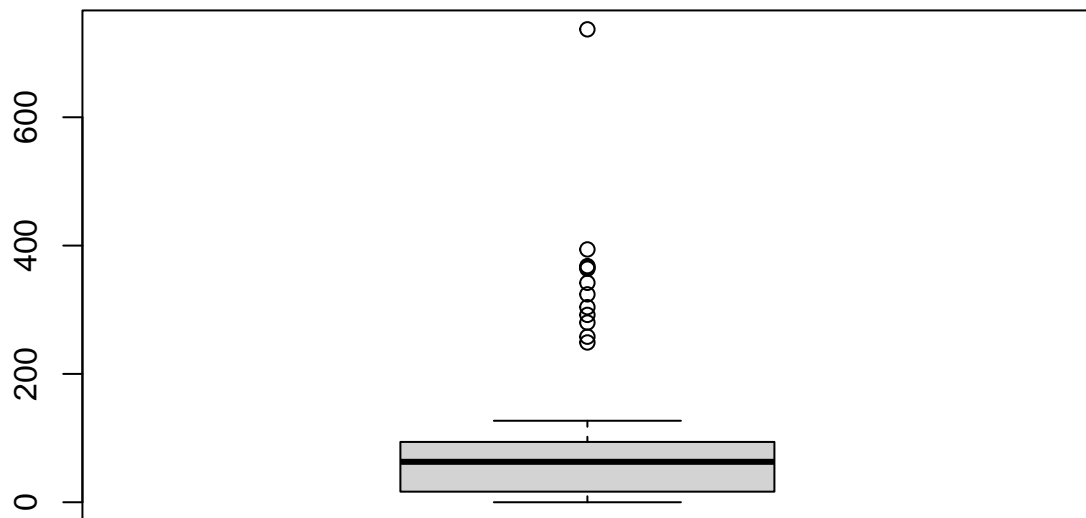
```
#Produces a scatterplot
plot(mydata$lead_time)
```
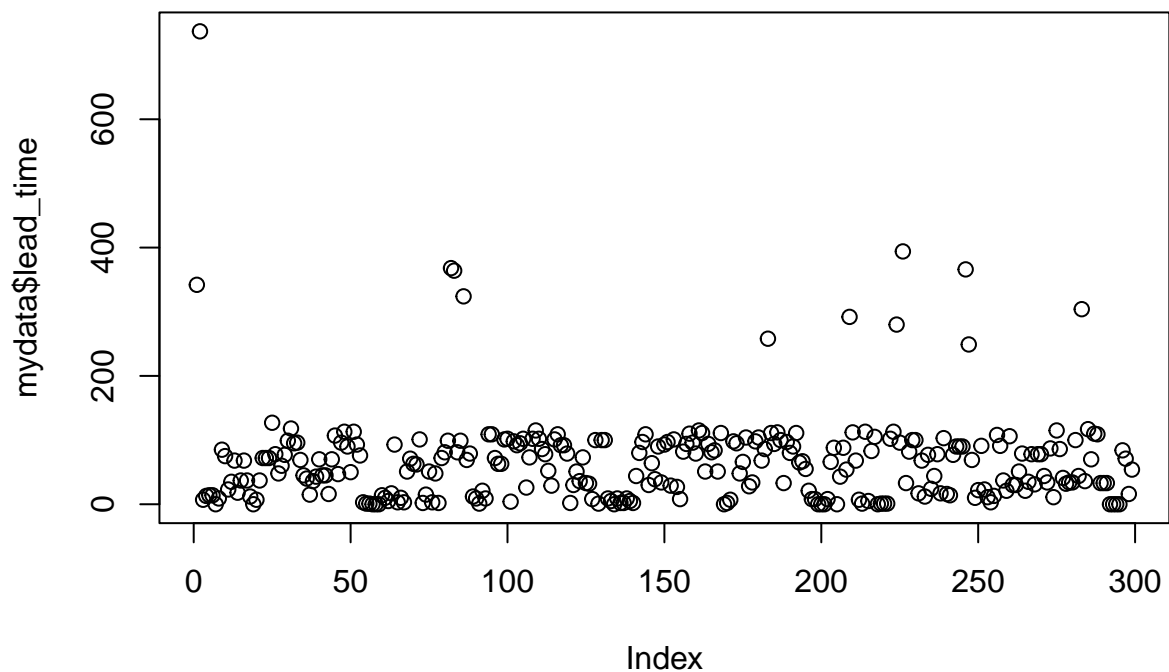
```
sample(mydata$lead_time)
```

```
##    [1]   93   40    0  368   33    2   65  127  102  292   21   41  100   79   92   69   21    5
##   [19]    2   45   14  101   60    2    7   85   10  102   79   70    7   24   91   71   35    8
##   [37]   43   99   73   48   16   96    9   92   17   97   34   73   10   33   30   88   51   68
##   [55]  258   29   90  113   33   96    1   14  109  104    8   78   68   99    2   95    5   15
##   [73]    3   93   72    1   54    3   81   16   37   37    0   14  100   16   64   76   51   96
##   [91]   80    0   13   48   44   43   78  109   96    0   63  366   32    9  100   12   10  115
##  [109]   75   33   94   34   87   17   44    1  111   68   63  110   81    0  103    3   83   93
##  [127]  108  324   98   47    7   71   86  115   21    9   36   36   69   77   39  342   23   77
##  [145]    9   45   68   62   37   68    0   82    3  101  249    0  280  394    7   90   50  109
##  [163]   98    8   94   70   95   84   98    0   51    2  100   13  364   66    5    0    0   63
##  [181]  304   51   12   44   70   66    1   90   33   90  737  100   30   72    0   72   97   77
##  [199]   51  106   81    5   90   91   92   21    4    0  110  115   67    8   31    1   88    3
##  [217]  117  109   99   14   27   12  102  112   94   11   36  100   79    2   78   45  105    2
##  [235]   86   44   28   55    0   82    9    1  102   90   52   30  111   35   80    0  100   79
##  [253]  113   26  107  118   48   69   78   11   72   18   54   32  102  101   34   95   30   29
##  [271]  112  113    0   22    1   72   34  101   86    1   78   17  111  113   33   34  104    8
##  [289]   23  111    0    9  109   15   97   84   51   37   78
```

```
dbinom(0,5, .5)
```

```
## [1] 0.03125
```

```r
sum(dbinom(0:2, 5, .5))
```

```
## [1] 0.5
```

```r
pbinom(2, 5, .5)
```

```
## [1] 0.5
```

```r
table(rbinom(10000, 5, .5)) / 10000
```

```
## 
##      0      1      2      3      4      5
## 0.0309 0.1556 0.3149 0.3178 0.1505 0.0303
```

```r
binom.test(29, 200, .21)
```

```
## 
##  Exact binomial test
## 
## data:  29 and 200
## number of successes = 29, number of trials = 200, p-value = 0.02374
## alternative hypothesis: true probability of success is not equal to 0.21
## 95 percent confidence interval:
##  0.09930862 0.20156150
## sample estimates:
## probability of success
##                   0.145
```

```r
prop.test(29, 200, .21)
```

```
## 
##  1-sample proportions test with continuity correction
## 
## data:  29 out of 200, null probability 0.21
## X-squared = 4.7092, df = 1, p-value = 0.03
## alternative hypothesis: true p is not equal to 0.21
## 95 percent confidence interval:
##  0.1007793 0.2032735
## sample estimates:
##     p
## 0.145
```

```r
1 - pchisq(3.1309, 5)
```

```
## [1] 0.679813
```

```r
pchisq(3.1309, df=5, lower.tail=F)
```

```
## [1] 0.679813
```

```
qchisq(c(.001,.005,.01,.025,.05,.95,.975,.99,.995,.999), 2)
```

```
##  [1]  0.002001001  0.010025084  0.020100672  0.050635616  0.102586589
##  [6]  5.991464547  7.377758908  9.210340372 10.596634733 13.815510558
```

```
qchisq(c(.999,.995,.99,.975,.95,.05,.025,.01,.005,.001), 2, lower.tail=F)
```

```
##  [1]  0.002001001  0.010025084  0.020100672  0.050635616  0.102586589
##  [6]  5.991464547  7.377758908  9.210340372 10.596634733 13.815510558
```

```
observedCounts = c(35, 27, 33, 40, 47, 51)
claimedProbabilities = c(.13, .13, .14, .16, .24, .20)
chisq.test(observedCounts, p=claimedProbabilities)
```

```
##
##  Chi-squared test for given probabilities
##
## data:  observedCounts
## X-squared = 3.1309, df = 5, p-value = 0.6798
```

```
smoke = matrix(c(51,43,22,92,28,21,68,22,9),ncol=3,byrow=TRUE)
colnames(smoke) = c("High","Low","Middle")
rownames(smoke) = c("current","former","never")
smoke = as.table(smoke)
smoke
```

```
##          High Low Middle
## current    51  43     22
## former     92  28     21
## never      68  22      9
```

```
summary(smoke)
```

```
## Number of cases in table: 356
## Number of factors: 2
## Test for independence of all factors:
##   Chisq = 18.51, df = 4, p-value = 0.0009808
```

```
prop.table(smoke)
```

```
##              High        Low     Middle
## current 0.14325843 0.12078652 0.06179775
## former  0.25842697 0.07865169 0.05898876
## never   0.19101124 0.06179775 0.02528090
```

```
prop.table(smoke, 1)
```

```
##              High        Low     Middle
## current 0.43965517 0.37068966 0.18965517
## former  0.65248227 0.19858156 0.14893617
## never   0.68686869 0.22222222 0.09090909
```

```
barplot(smoke,legend=T,beside=T,main='Hotel Booking Prediction')
```


Hotel Booking Prediction
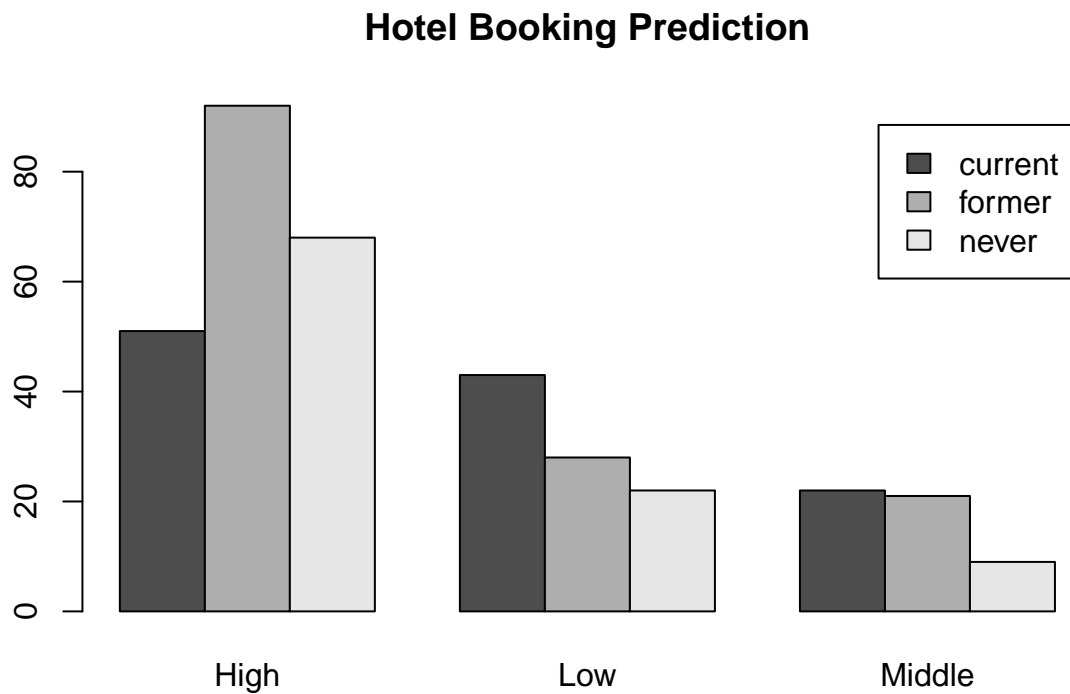
```
#tools for Poisson distributions
dpois(2:7, 4.2)
```

```
## [1] 0.13226099 0.18516538 0.19442365 0.16331587 0.11432111 0.06859266
```

```
ppois(1, 4.2)
```

```
## [1] 0.077977
```

```
data(mydata)
```

```
## Warning in data(mydata): data set 'mydata' not found
```

```
#power calculations for 1- and 2-sample t
power.t.test(n=20, delta=.1, sd=.4, sig.level=.05)
```

```
##
##       Two-sample t test power calculation
##
##              n = 20
```

```
##            delta = 0.1
##               sd = 0.4
##        sig.level = 0.05
##            power = 0.1171781
##      alternative = two.sided
##
## NOTE: n is number in *each* group
```

```
#power calculations for 1- and 2-sample t
power.t.test(delta=.1, sd=.4, sig.level=.05, power=.8)
```

```
##
##         Two-sample t test power calculation
##
##                n = 252.1281
##            delta = 0.1
##               sd = 0.4
##        sig.level = 0.05
##            power = 0.8
##      alternative = two.sided
##
## NOTE: n is number in *each* group
```

```
data(mydata)
```

```
## Warning in data(mydata): data set 'mydata' not found
```

```
#Command for producing a histogram
hist(mydata$stays_in_week_nights)
```

Histogram of mydata$stays_in_week_nights

mydata$stays_in_week_nights
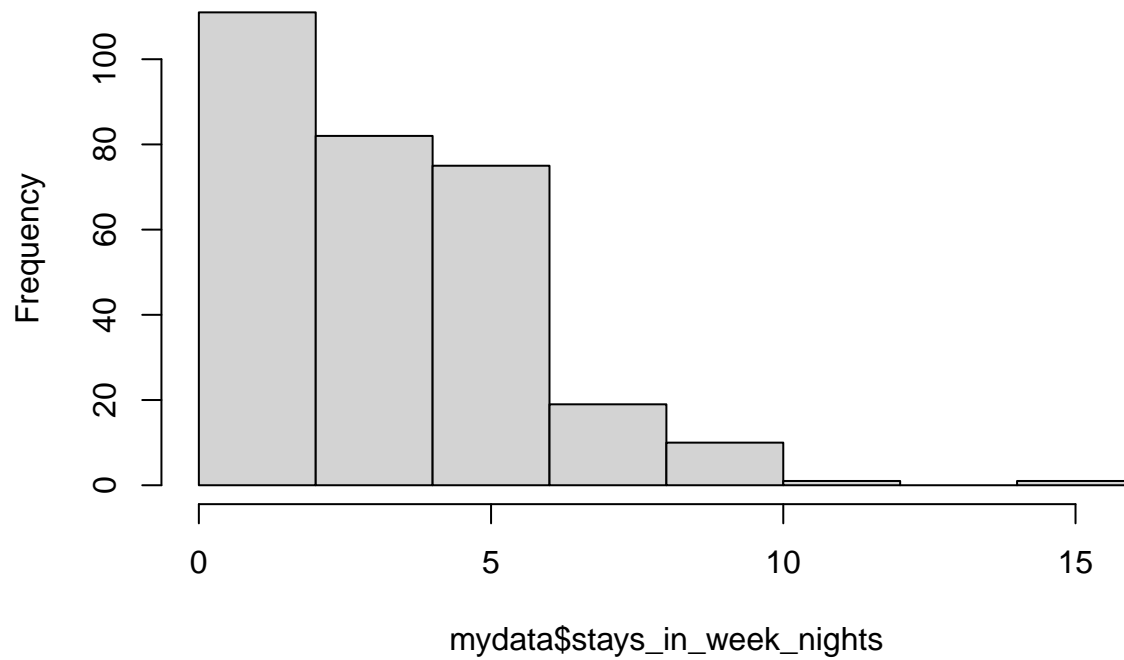
```
#Command for producing a histogram
hist(mydata$stays_in_weekend_nights)
```

Histogram of mydata$stays_in_weekend_nights
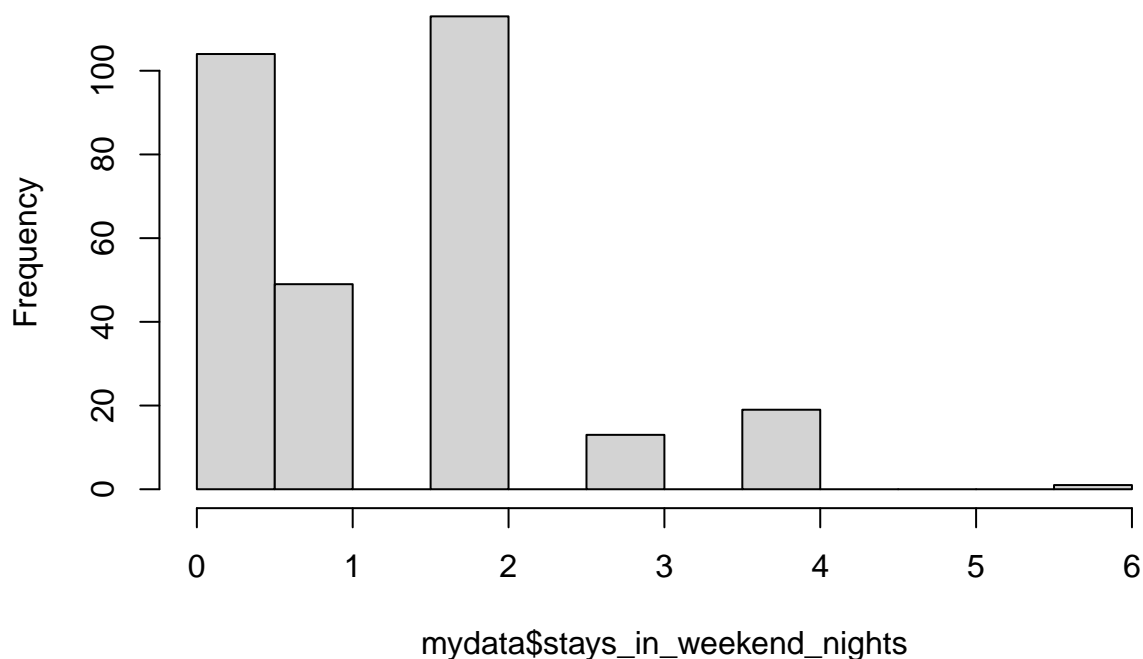

```
#Lists memory contents
ls(mydata)
```

```
##  [1] "adr"                         "adults"
##  [3] "agent"                       "arrival_date_day_of_month"
##  [5] "arrival_date_month"          "arrival_date_week_number"
##  [7] "arrival_date_year"           "assigned_room_type"
##  [9] "babies"                      "booking_changes"
## [11] "children"                    "company"
## [13] "country"                     "customer_type"
## [15] "days_in_waiting_list"        "deposit_type"
## [17] "distribution_channel"        "hotel"
## [19] "is_canceled"                 "is_repeated_guest"
## [21] "lead_time"                   "market_segment"
## [23] "meal"                        "previous_bookings_not_canceled"
## [25] "previous_cancellations"      "required_car_parking_spaces"
## [27] "reservation_status"          "reservation_status_date"
## [29] "reserved_room_type"          "stays_in_week_nights"
## [31] "stays_in_weekend_nights"     "total_of_special_requests"
```

```
class(mydata)
```

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