DATA 698 Final Research Project
Data Collection & Exploratory Analysis

Philip Tanofsky

2022-11-16

Data Collection & Preprocessing

Data Collection

Citi Bike provides individual bike trip data on a monthly basis available at https://ride.citibikenyc.com/system-data. The September 2022 bike trip data for New York City was downloaded and unzipped. The dataset contains 13 variables for each bike trip originating at a NYC-based docking station. A note on the system data page indicates trips taken by staff to service or inspect the system have been removed from the dataset. Also, any trips below 60 seconds have also been omitted. With this preprocessing by the data maintainers, the remaining trips are considered to be valid bike trips.

- **ride.id:** Unique identifier of the bike trip
- **rideable.type:** Factor variable - classic, electric, and docked
- **started.at:** Timestamp of trip departure
- **ended.at:** Timestamp of trip arrival
- **start.station.name:** Name of departure docking station
- **start.station.id:** Unique identifier of departure docking station
- **end.station.name:** Name of arrival docking station
- **end.station.id:** Unique identifier of arrival docking station
- **start.lat:** Latitude of departure location
- **start.lng:** Longitude of departure location
- **end.lat:** Latitude of arrival location
- **end.lng:** Longitude of arrival location
- **member.casual:** Factor variable for user type - member or casual

Based on the `started.at` and `ended.at` variables, four variables are derived for each bike trip.

- **day:** Day of the month
- **start.hour:** Hour of the trip departure
- **weekday:** Day of the week for the trip
- **trip.duration:** Duration of bike trip in minutes.

The NYC Open Data (free public data published by New York City agencies and partners) provides a GeoJSON file for the polygons defining each neighborhood in NYC according for the 2010 Neighborhood Tabulation Areas (NTAs). Each NTA is associated with one of the five NYC boroughs. (https://data.cityofnewyork.us/City-Government/2010-Neighborhood-Tabulation-Areas-NTAs-/cpf4-rkhq)

The elevation of each Citi Bike docking station is determined using the R library `elevatr` based on the latitude and longitude of each station. The elevation is defined in meters above sea level.

- **elevation: Units above sea level**
- **elev.units: Unit of measurement for elevation**

Data Preprocessing

Upon initial inspection of the 3,507,123 bike trips in September 2022, a total of 8,012 entries do not contain an `end.station.id` and `end.station.name` listed. Of that count, 3,838 do not contain an `end.lat` and `end.lng` values. These 8,012 without a defined destination docking station will be defined as 'Abandoned' meaning the user did not properly dock the bike. For this purpose, the `end.lat` and `end.lng` will be removed as the abandoned bikes temporarily remove a bike from the bikeshare system. Another rider cannot rent an abandoned bike until the bike is properly docked.

Evaluation of the `end.station.id` for the NYC based bike trips includes docking stations located in New Jersey. The Citi Bike bikeshare system does include docking stations in Jersey City and Hoboken. A number of bike trips end in New Jersey which does remove the bike from the NYC-based docking stations of which this research is focused.

Surplus Calculation

The individual bike trip information was sorted by timestamp and grouped by docking station for each 15-minute interval to count the number of bikes departing and the number bikes arriving. By subtracting the number of departures from the number of arrivals for each station for each interval, we are able to determine the running increase or decrease of bikes at the docking station. This total is defined as the variable `surplus`. A summation of the `surplus` for each docking station is calculated over the course of the month to determine which docking stations are more likely departure stations or arrival stations.


Data Exploration & Analysis

Exploratory data analysis is performed on the Citi Bike trips for September 2022 to evaluate the patterns of bike use and identify docking stations with surplus. First, the count of bike trips are assessed to find the high volume days of the week and time of day. Next, the duration of bike trips are evaluated to assess when bikes are individually likely to be unavailable longer. Finally, the surplus of bikes by docking station and borough are analyzed to determine which areas of the New York City are more prone to having lower bike availability.

Count of Bike Trips

The count of bike trips are separated by user type - member and casual. With the separation by user type, two distinct patterns emerge of bike use over the course of the day and over the course of a week. The member trips are more likely to follow the workday pattern of spikes in the morning and evening as individuals are traveling to work or from work. The casual users show a pattern not necessarily indicative of the workday but instead of tourist or recreational use. The member trips account for an overall higher volume of trips.

Average Number of Bike Trips by Time, Day, and User
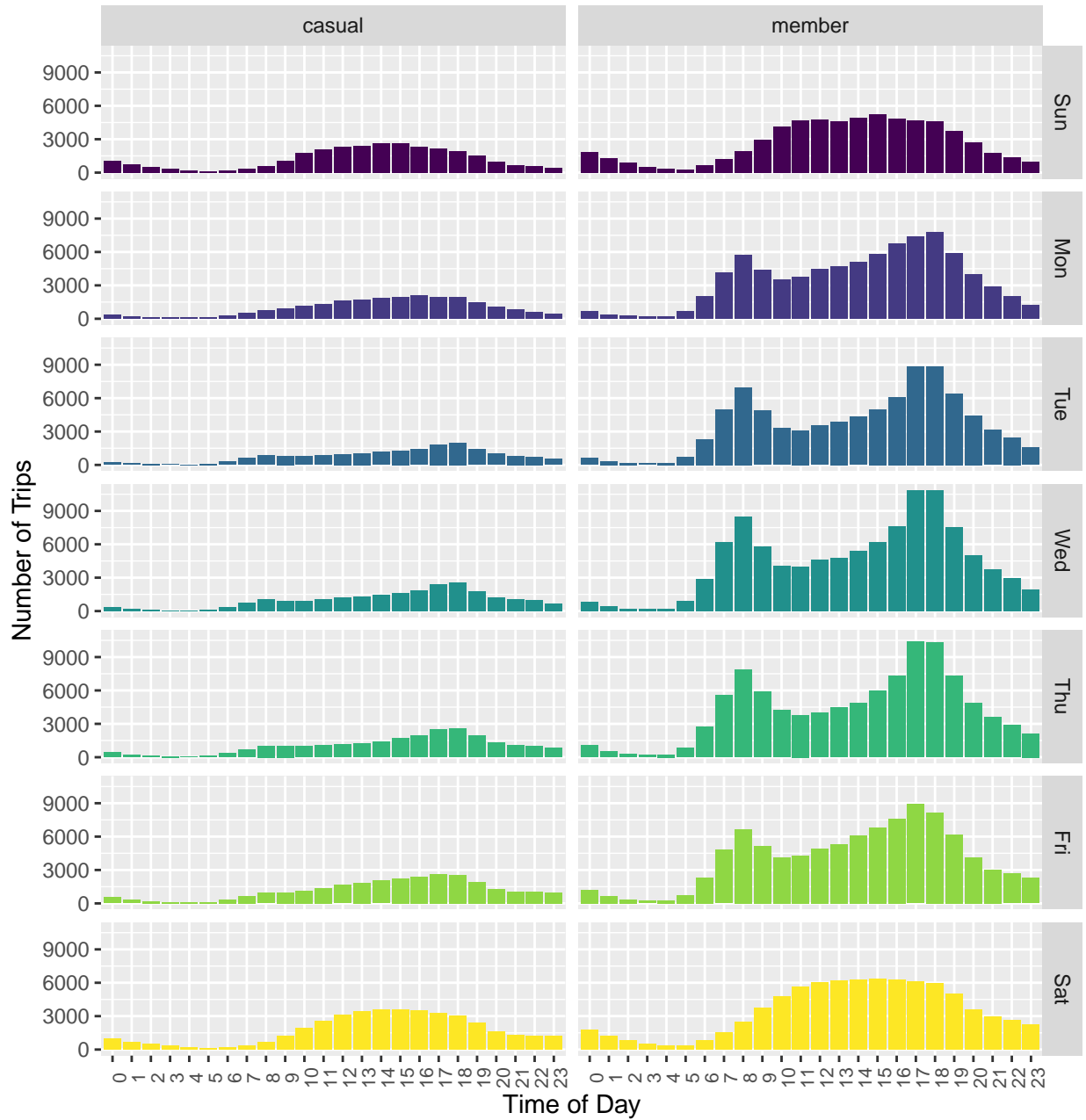
The member user counts show rush-hour spikes for members on weekdays whereas casual users do show higher counts around 5pm and 6pm on weekdays. The comparison of the two user groups also points to greater usage overall by member users. For everyday of the week, the member average member counts per hour are greater than the casual users. On weekend days, both user groups show a pattern indicative of recreational use with plateau use during the middle of the day and without distinct spikes found on the weekdays. Also, the higher usage of by member users throughout the middle of the day may indicate even if someone is a member the primary reason may not be transportation to and from work.

Ride Trips by Hour – Sept. 2022
Citi Bike NYC
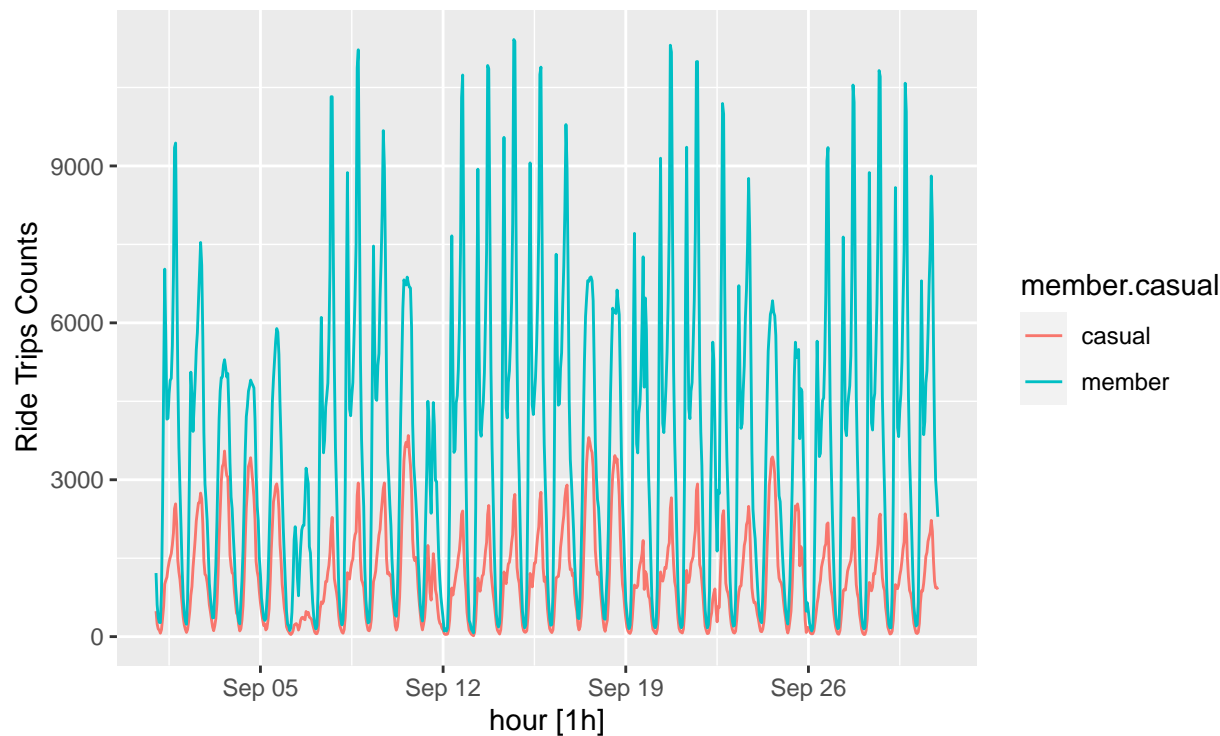
Seasonal plot: Weekly Trip Counts for Sept. 2022
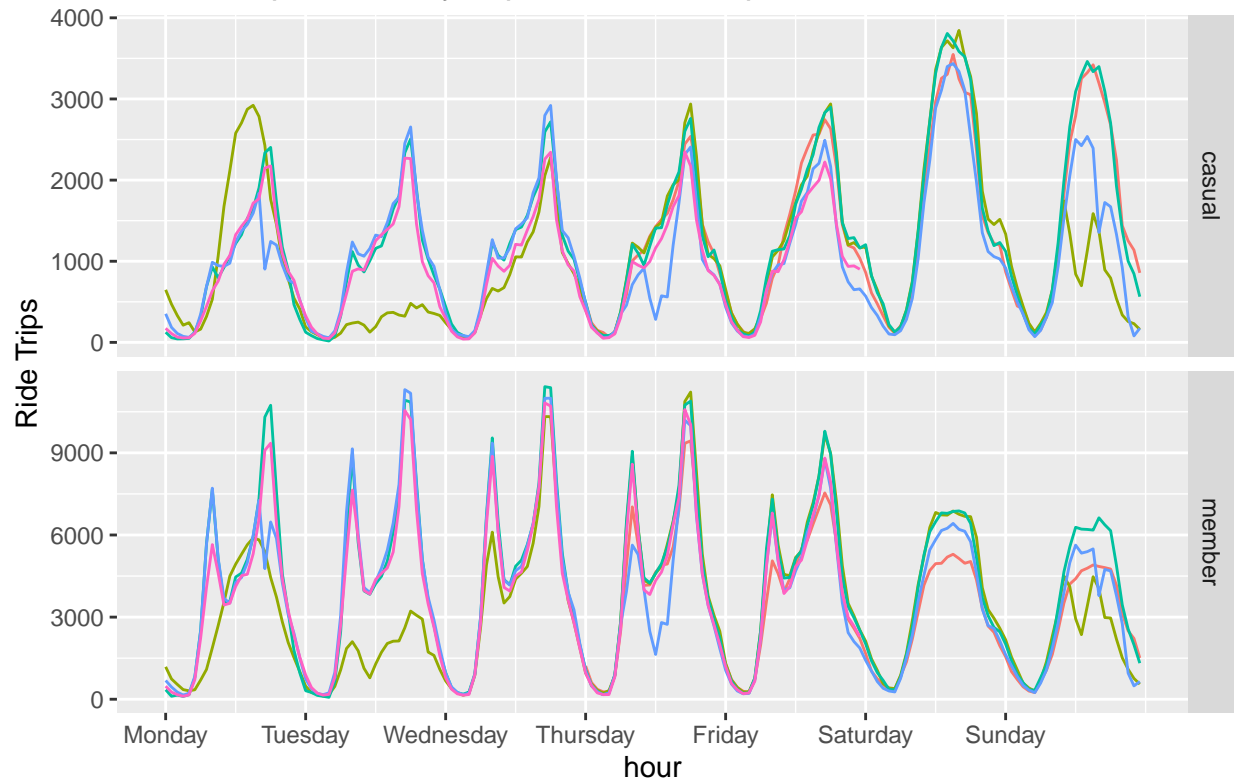
The time-series chart 'Ride Trips by Hour' confirms the higher usage by members with a clear pattern of weekday volumes corresponding to transportation for work purposes. The casual users follow a daily pattern with increases toward the end of the week - Thursday through Saturday.

The weekly seasonal plot 'Seasonal plot: Weekly Trip Counts' denotes the same pattern week over week. Based on the plot, the bike trips show consistency from week to week based on member users utilizing the bikes for work and casual users renting the bikes for recreational purposes.

By count of trips per day of the week, Wednesday appears the highest volume day. Given the data comes from September 2022, we believe this observation is a result of pandemic return-to-office policies in which individuals more likely to return to office during the middle of the week instead of Monday or Friday for those with hybrid schedules.

Note: On Tuesday, Sept, 6 2022, the weather consisted of rain the entire day and thus a clear drop in use is evident in both user groups.

Duration of Bike Trips

Next, we evaluate the duration of bike trips to better understand longevity of individual bike unavailability along with reason for trip. As expected, the average bike trip for all users and all times are below 30 minutes as the rental defined time is 30 minutes with users incurring additional fees beyond the base time limit.
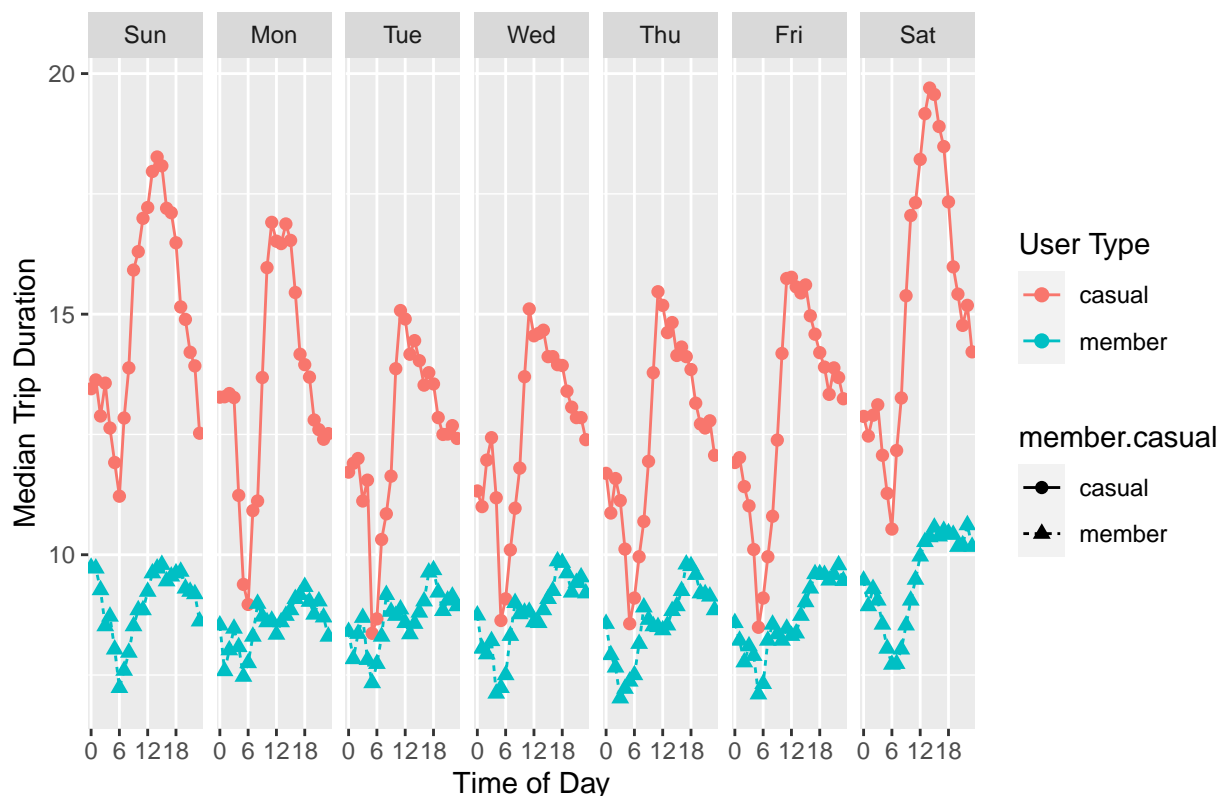
The chart of average trip duration by user type shows a clear distinction between the user types. Member users tend to average bike trips of 10 minutes or less throughout the week, whereas the casual users have a greater variance in average duration based on time of day and day of the week. The member users only average trips greater than 10 minutes during the afternoon and evening on Saturday while casual users typically average even longer trips of greater than 17 minutes on the weekend. Casual users tend to reach of peak of greater than 15 minutes on average everyday of the week, particularly around lunch on weekdays.

We observe that member users tend to have longer average trips during the morning and evening rush hours on weekdays with a slight deviation on Friday evening as the weekend starts. The afternoon and evening hours of Saturday and Sunday show longer trips for members as likely the result of recreational trips.

Docking Station Surplus

After constructing a matrix of bike arrivals and departures for each NYC-based docking station for every 15-minute interval of September 2022, we calculate the overall surplus or shortage of bikes. The researchers note, the shortage of bikes can logically not fall below zero without the introduction of rebalancing throughout the bikeshare system. The following analysis confirms the rebalancing of bikes across the docking stations occurs to ensure popular departure docking stations have bikes available despite the dearth of bike trip arrivals.

Overall Monthly Surplus/Shortage by Docking Station
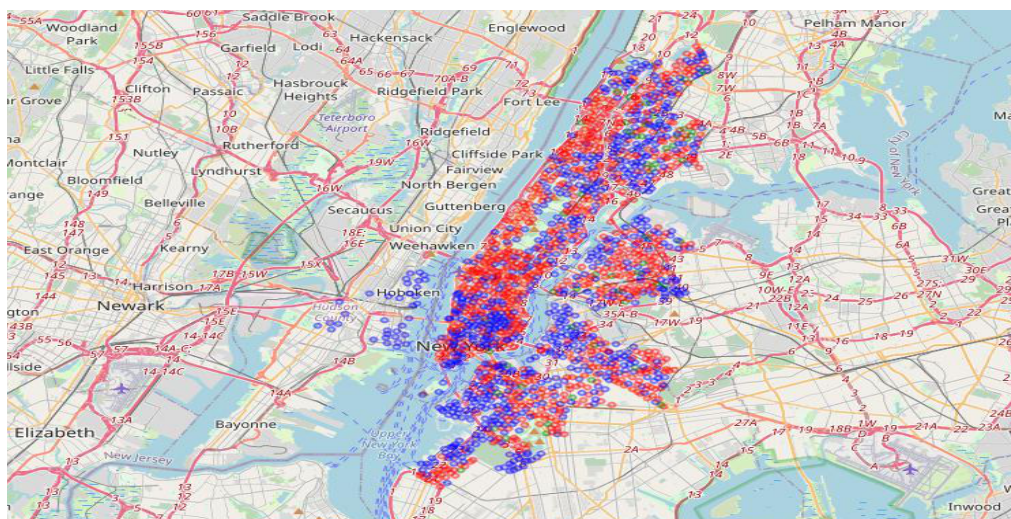
The plot of docking stations across the New York City maps the location of every docking station along with a color to indicate a net positive, negative or even amount of bikes for the given month. The blue stations are net positive, and red stations indicate net negative while green stations are even for the entire month. Of the 1656 docking stations represented, 799 ended with a surplus, 804 with a shortage, and 53 with an even count.

The plot does indicate several blue-colored docking stations in New Jersey. As the dataset does not contain any bike trips originating in NYC, a number of trips have an ending station in Jersey City or Hoboken. The New Jersey based stations are guaranteed to be blue based on that dataset without any departing trips from those docking stations.

The dataset does encompass 472,920 valid combinations of departure and arrival docking stations. Of the valid combinations 15 of the top 20 combinations are the same departure and arrival docking stations, indicative of recreational bike trips. Of the aforementioned valid combinations, 471,313 denote travel between two different docking stations.

Surplus by Borough

With almost an even number of docking stations with a net shortage and a net surplus, we evaluate the shortage and surplus by borough.

Station Surplus by Borough Histogram for Sept. 2022
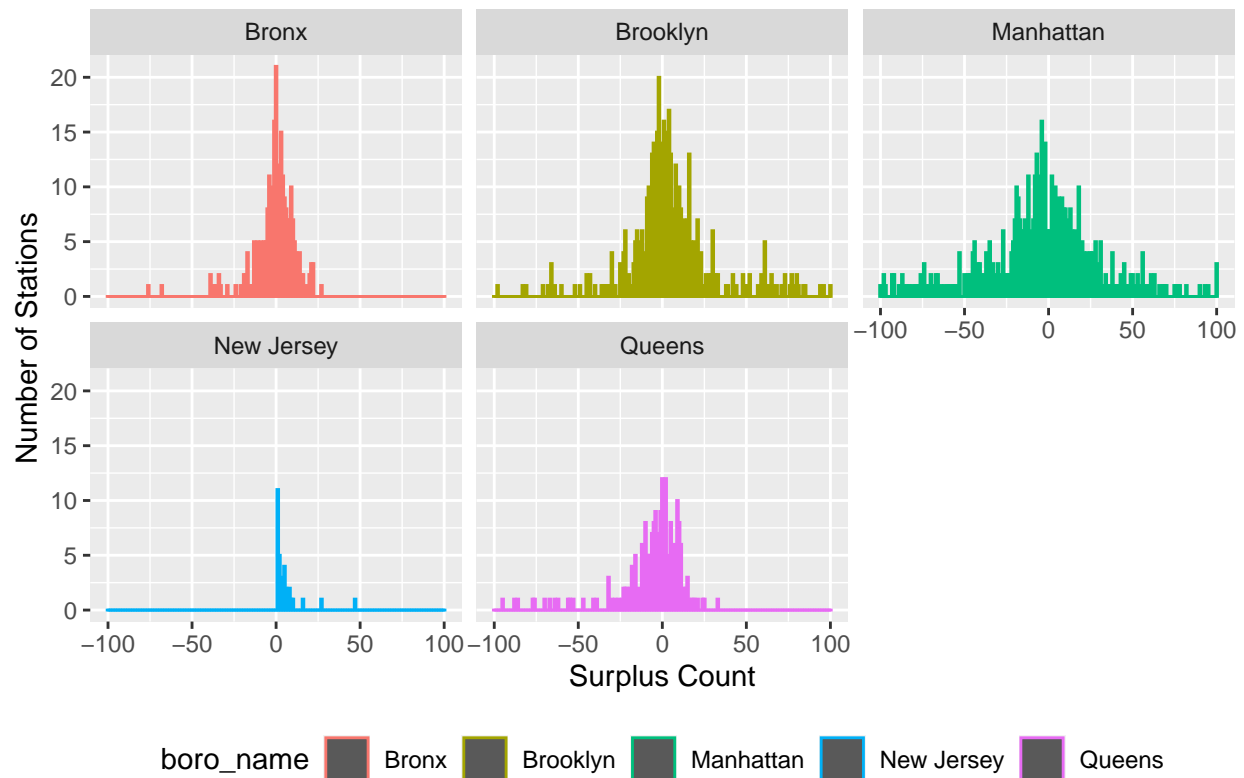
The plot denotes a near normal distribution for the four boroughs included in the dataset - the Bronx, Brooklyn, Manhattan, and Queens. As noted previously, the dataset contains only trips originating in New York City, so the plot for New Jersey only indicates docking stations surpluses. The balanced distribution across the four NYC boroughs likely demonstrates the bike trips are contained within a borough. With average duration less than 10 minutes for member users and less than 20 minutes for casual users, the distance traveled for all bike trips is likely less than three miles. The 30-minute base rental rate dictates a limited travel distance which inhibits users from traveling across boroughs via Citi Bike.

Docking Station 3582 Bike Availability
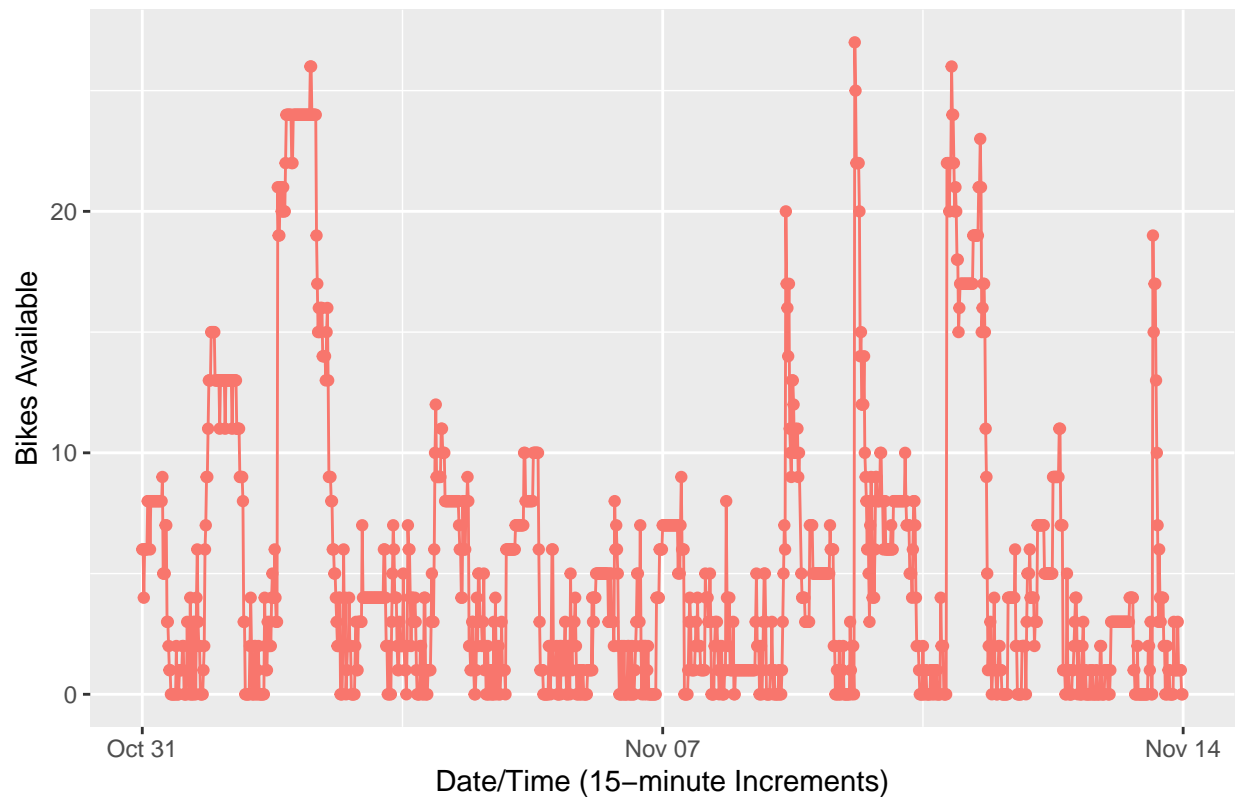
The above shows there is rebalancing at this station but it's not consistent.

```
stations_attrs_trim_bk61 <- stations_attrs_trim %>%
  filter(ntaname == "Crown Heights North")

#(stations_attrs_trim_bk61)
#11 stations in this file


# Let's try the clustering
# https://www.r-bloggers.com/2019/06/hierarchical-clustering-for-location-based-strategy-using-r-for-e-
library(geosphere)

# Distance matrix for docking stations
# Result is in meters
dist_mat <- distm(stations_attrs_trim_bk61[9:10], stations_attrs_trim_bk61[9:10], fun=distHaversine)
dist_mat <- as.data.frame(dist_mat)


dist_mat[is.na(dist_mat)] <- 0


dMat <- as.dist(dist_mat)


dMat[1:10]
```

```
##  [1]  312.8990  367.9586  391.9150  740.9843  659.7183  577.1017  778.0415
##  [8]  941.7302 1643.7342 2536.0525
```

```
# Now for the clustering
hier_clust <- hclust(dMat, method = "complete")
# 400 meters is about a quarter of a mile (0.248548 miles)
stations_attrs_trim_bk61$cluster <- cutree(hier_clust, h=400)
```

```
stations_attrs_trim_bk61
```

```
##    short_name station_id elevation elev_units                       name
## 1     3919.07       3584     41.41     meters Eastern Pkwy & Franklin Ave
## 2     3960.01       3582     43.12     meters    Lincoln Pl & Classon Ave
## 3     3993.03       3579     34.01     meters    Sterling Pl & Bedford Ave
## 4     4033.06       3578     33.24     meters       Park Pl & Franklin Ave
## 5     4066.15       3571     26.48     meters       Bedford Ave & Bergen St
## 6     4074.03       3562     33.95     meters  Classon Ave & St Marks Ave
## 7     4107.05       3569     29.73     meters Franklin Ave & St Marks Ave
## 8     4107.13       3673     26.90     meters       Dean St & Franklin Ave
## 9     4148.07       3546     26.41     meters    Pacific St & Classon Ave
## 10    4205.06       3041     18.40     meters  Kingston Ave & Herkimer St
## 11    4228.02       3042     17.56     meters        Fulton St & Utica Ave
##    capacity             ntaname boro_name       lon      lat cluster
## 1        42 Crown Heights North  Brooklyn -73.95768 40.67078       1
## 2        28 Crown Heights North  Brooklyn -73.96090 40.67217       1
## 3        25 Crown Heights North  Brooklyn -73.95413 40.67269       2
## 4        21 Crown Heights North  Brooklyn -73.95649 40.67418       3
## 5        24 Crown Heights North  Brooklyn -73.95292 40.67637       3
## 6        27 Crown Heights North  Brooklyn -73.95961 40.67652       4
## 7        29 Crown Heights North  Brooklyn -73.95617 40.67583       3
## 8        21 Crown Heights North  Brooklyn -73.95564 40.67759       3
## 9        21 Crown Heights North  Brooklyn -73.95879 40.67919       4
## 10       24 Crown Heights North  Brooklyn -73.94143 40.67891       5
## 11       19 Crown Heights North  Brooklyn -73.92989 40.67943       6
```

```
stations_with_bike_avail <- read.csv('bike_avail_by_station_and_time.csv', row.names = 1, header= TRUE,
```

```
stations_with_bike_avail_long <- stations_with_bike_avail %>%
  pivot_longer(!timestamp, names_to = "station.id", values_to = "bikes.avail.count")
```

```
station_to_cluster <- stations_attrs_trim_bk61 %>%
  dplyr::select(station_id, cluster)
```

```
(station_to_cluster)
```

```
##    station_id cluster
## 1        3584       1
## 2        3582       1
## 3        3579       2
## 4        3578       3
## 5        3571       3
## 6        3562       4
## 7        3569       3
## 8        3673       3
```

```
## 9          3546        4
## 10         3041        5
## 11         3042        6
```

```r
# Merge long df with counts with station.id and cluster to label clusters properly
stations_bike_avail_by_time <-
  merge(stations_with_bike_avail_long,
        station_to_cluster,
        by.x=c('station.id'),
        by.y=c('station_id'), all.x = TRUE)


stations_bike_avail_by_time_no_na <- stations_bike_avail_by_time %>%
  filter(!is.na(cluster))


# group by cluster ID for each timestamp
stations_bike_avail_by_time_no_na_group <- aggregate(bikes.avail.count ~ timestamp + cluster, data = sta


stations_bike_avail_by_time_no_na_group <- stations_bike_avail_by_time_no_na_group[order(stations_bike_a


# mutate to conver timestamp into day of the week, etc.
stations_bike_avail_by_time_no_na_group <- stations_bike_avail_by_time_no_na_group %>%
  mutate(time=as.ITime(ymd_hms(timestamp)),
         weekday = lubridate::wday(ymd_hms(timestamp),label=TRUE,abbr=TRUE))


stations_bike_avail_by_time_no_na_group$cluster <- as.factor(stations_bike_avail_by_time_no_na_group$clu
stations_bike_avail_by_time_no_na_group$time <- as.factor(stations_bike_avail_by_time_no_na_group$time)
stations_bike_avail_by_time_no_na_group$weekday <- as.factor(stations_bike_avail_by_time_no_na_group$wee


tab <- table(stations_bike_avail_by_time_no_na_group$bikes.avail.count)
tab
```

```
##
##    0    1    2    3    4    5    6    7    8    9   10   11   12   13   14   15   16   17   18   19
## 609  535  767  518  498  417  353  301  333  231  268  185  180  158  135  146  113  105  101  116
##   20   21   22   23   24   25   26   27   28   29   30   31   32   33   34   35   36   37   38   39
##   86  143  108  102   96   67   93   60   83   63   66   65   95   37   72   35   62   12   26   19
##   40   41   42   43   44   45   46   47   48   49   50   51   52   53   54   55   56   57   58   59
##   13   17    9   17   14   21   23   14   18   32   42    9   17   16   12   10   22    8    4    9
##   60   61   62   63   64   65   66   67   68   69   70   71   72   74   75   76   77   78   79   80
##    8    2    7    9    8   11   10    1    7    6    1   14    3    4    3    3   12    3    4    2
##   81   82   83   84   85   86   87   88   89   90   91   92   93   94   95   96   97   99  101  104
##    2    8    8    3    7    5    8    5    4    6    4    3    7    1    6    2    5    4    2    1
##  105  107  108  109  110  111  113  114  115  116  117
##    4   13    2    5    1    1    3    4    5    4    3
```

```r
# Below shows the range of values for `bikes.avail.count` with 35611 at zero and max of 438 with one oc


stations_bike_avail_by_time_no_timestamp <- subset(stations_bike_avail_by_time_no_na_group, select=-c(t
```

stations_bike_avail_by_time_no_timestamp

```
##       cluster bikes.avail.count     time weekday
## 1           1                27 00:00:00     Mon
## 1341        2                20 00:00:00     Mon
## 2681        3                85 00:00:00     Mon
## 4021        4                26 00:00:00     Mon
## 5361        5                23 00:00:00     Mon
## 6701        6                 4 00:00:00     Mon
## 2           1                26 00:15:00     Mon
## 1342        2                20 00:15:00     Mon
## 2682        3                85 00:15:00     Mon
## 4022        4                25 00:15:00     Mon
## 5362        5                23 00:15:00     Mon
## 6702        6                 2 00:15:00     Mon
## 3           1                23 00:30:00     Mon
## 1343        2                19 00:30:00     Mon
## 2683        3                83 00:30:00     Mon
## 4023        4                29 00:30:00     Mon
## 5363        5                23 00:30:00     Mon
## 6703        6                 2 00:30:00     Mon
## 4           1                27 00:45:00     Mon
## 1344        2                23 00:45:00     Mon
## 2684        3                81 00:45:00     Mon
## 4024        4                29 00:45:00     Mon
## 5364        5                23 00:45:00     Mon
## 6704        6                 2 00:45:00     Mon
## 5           1                28 01:00:00     Mon
## 1345        2                27 01:00:00     Mon
## 2685        3                83 01:00:00     Mon
## 4025        4                29 01:00:00     Mon
## 5365        5                23 01:00:00     Mon
## 6705        6                 0 01:00:00     Mon
## 6           1                28 01:15:00     Mon
## 1346        2                27 01:15:00     Mon
## 2686        3                83 01:15:00     Mon
## 4026        4                29 01:15:00     Mon
## 5366        5                21 01:15:00     Mon
## 6706        6                 0 01:15:00     Mon
## 7           1                28 01:30:00     Mon
## 1347        2                29 01:30:00     Mon
## 2687        3                85 01:30:00     Mon
## 4027        4                29 01:30:00     Mon
## 5367        5                21 01:30:00     Mon
## 6707        6                 0 01:30:00     Mon
## 8           1                30 01:45:00     Mon
## 1348        2                29 01:45:00     Mon
## 2688        3                85 01:45:00     Mon
## 4028        4                29 01:45:00     Mon
## 5368        5                21 01:45:00     Mon
## 6708        6                 0 01:45:00     Mon
## 9           1                30 02:00:00     Mon
## 1349        2                29 02:00:00     Mon
```

```
## 2689    3              83 02:00:00      Mon
## 4029    4              29 02:00:00      Mon
## 5369    5              23 02:00:00      Mon
## 6709    6               0 02:00:00      Mon
## 10      1              32 02:15:00      Mon
## 1350    2              29 02:15:00      Mon
## 2690    3              87 02:15:00      Mon
## 4030    4              29 02:15:00      Mon
## 5370    5              23 02:15:00      Mon
## 6710    6               0 02:15:00      Mon
## 11      1              30 02:30:00      Mon
## 1351    2              29 02:30:00      Mon
## 2691    3              88 02:30:00      Mon
## 4031    4              29 02:30:00      Mon
## 5371    5              25 02:30:00      Mon
## 6711    6               0 02:30:00      Mon
## 12      1              32 02:45:00      Mon
## 1352    2              30 02:45:00      Mon
## 2692    3              90 02:45:00      Mon
## 4032    4              29 02:45:00      Mon
## 5372    5              25 02:45:00      Mon
## 6712    6               0 02:45:00      Mon
## 13      1              32 03:00:00      Mon
## 1353    2              30 03:00:00      Mon
## 2693    3              90 03:00:00      Mon
## 4033    4              29 03:00:00      Mon
## 5373    5              25 03:00:00      Mon
## 6713    6               2 03:00:00      Mon
## 14      1              36 03:15:00      Mon
## 1354    2              30 03:15:00      Mon
## 2694    3              89 03:15:00      Mon
## 4034    4              29 03:15:00      Mon
## 5374    5              25 03:15:00      Mon
## 6714    6               2 03:15:00      Mon
## 15      1              36 03:30:00      Mon
## 1355    2              30 03:30:00      Mon
## 2695    3              85 03:30:00      Mon
## 4035    4              29 03:30:00      Mon
## 5375    5              25 03:30:00      Mon
## 6715    6               2 03:30:00      Mon
## 16      1              36 03:45:00      Mon
## 1356    2              28 03:45:00      Mon
## 2696    3              85 03:45:00      Mon
## 4036    4              29 03:45:00      Mon
## 5376    5              25 03:45:00      Mon
## 6716    6               2 03:45:00      Mon
## 17      1              36 04:00:00      Mon
## 1357    2              28 04:00:00      Mon
## 2697    3              87 04:00:00      Mon
## 4037    4              29 04:00:00      Mon
## 5377    5              25 04:00:00      Mon
## 6717    6               2 04:00:00      Mon
## 18      1              36 04:15:00      Mon
## 1358    2              28 04:15:00      Mon
```

```
## 2698    3           87 04:15:00    Mon
## 4038    4           29 04:15:00    Mon
## 5378    5           25 04:15:00    Mon
## 6718    6            2 04:15:00    Mon
## 19      1           36 04:30:00    Mon
## 1359    2           28 04:30:00    Mon
## 2699    3           99 04:30:00    Mon
## 4039    4           29 04:30:00    Mon
## 5379    5           25 04:30:00    Mon
## 6719    6            2 04:30:00    Mon
## 20      1           36 04:45:00    Mon
## 1360    2           28 04:45:00    Mon
## 2700    3           99 04:45:00    Mon
## 4040    4           29 04:45:00    Mon
## 5380    5           25 04:45:00    Mon
## 6720    6            2 04:45:00    Mon
## 21      1           32 05:00:00    Mon
## 1361    2           28 05:00:00    Mon
## 2701    3           97 05:00:00    Mon
## 4041    4           31 05:00:00    Mon
## 5381    5           23 05:00:00    Mon
## 6721    6            2 05:00:00    Mon
## 22      1           36 05:15:00    Mon
## 1362    2           28 05:15:00    Mon
## 2702    3           93 05:15:00    Mon
## 4042    4           31 05:15:00    Mon
## 5382    5           23 05:15:00    Mon
## 6722    6            2 05:15:00    Mon
## 23      1           34 05:30:00    Mon
## 1363    2           28 05:30:00    Mon
## 2703    3           96 05:30:00    Mon
## 4043    4           31 05:30:00    Mon
## 5383    5           23 05:30:00    Mon
## 6723    6            2 05:30:00    Mon
## 24      1           34 05:45:00    Mon
## 1364    2           28 05:45:00    Mon
## 2704    3           90 05:45:00    Mon
## 4044    4           31 05:45:00    Mon
## 5384    5           23 05:45:00    Mon
## 6724    6            2 05:45:00    Mon
## 25      1           36 06:00:00    Mon
## 1365    2           26 06:00:00    Mon
## 2705    3           86 06:00:00    Mon
## 4045    4           31 06:00:00    Mon
## 5385    5           21 06:00:00    Mon
## 6725    6            2 06:00:00    Mon
## 26      1           36 06:15:00    Mon
## 1366    2           27 06:15:00    Mon
## 2706    3           88 06:15:00    Mon
## 4046    4           27 06:15:00    Mon
## 5386    5           21 06:15:00    Mon
## 6726    6            2 06:15:00    Mon
## 27      1           37 06:30:00    Mon
## 1367    2           27 06:30:00    Mon
```

```
## 2707    3          88 06:30:00    Mon
## 4047    4          26 06:30:00    Mon
## 5387    5          19 06:30:00    Mon
## 6727    6           2 06:30:00    Mon
## 28      1          33 06:45:00    Mon
## 1368    2          25 06:45:00    Mon
## 2708    3          83 06:45:00    Mon
## 4048    4          25 06:45:00    Mon
## 5388    5          19 06:45:00    Mon
## 6728    6           2 06:45:00    Mon
## 29      1          33 07:00:00    Mon
## 1369    2          21 07:00:00    Mon
## 2709    3          81 07:00:00    Mon
## 4049    4          23 07:00:00    Mon
## 5389    5          17 07:00:00    Mon
## 6729    6           0 07:00:00    Mon
## 30      1          33 07:15:00    Mon
## 1370    2          21 07:15:00    Mon
## 2710    3          77 07:15:00    Mon
## 4050    4          21 07:15:00    Mon
## 5390    5          15 07:15:00    Mon
## 6730    6           4 07:15:00    Mon
## 31      1          38 07:30:00    Mon
## 1371    2          17 07:30:00    Mon
## 2711    3          71 07:30:00    Mon
## 4051    4          25 07:30:00    Mon
## 5391    5          14 07:30:00    Mon
## 6731    6           4 07:30:00    Mon
## 32      1          33 07:45:00    Mon
## 1372    2          15 07:45:00    Mon
## 2712    3          64 07:45:00    Mon
## 4052    4          18 07:45:00    Mon
## 5392    5          15 07:45:00    Mon
## 6732    6           3 07:45:00    Mon
## 33      1          21 08:00:00    Mon
## 1373    2          13 08:00:00    Mon
## 2713    3          58 08:00:00    Mon
## 4053    4          18 08:00:00    Mon
## 5393    5          15 08:00:00    Mon
## 6733    6           3 08:00:00    Mon
## 34      1          23 08:15:00    Mon
## 1374    2           9 08:15:00    Mon
## 2714    3          52 08:15:00    Mon
## 4054    4          13 08:15:00    Mon
## 5394    5          13 08:15:00    Mon
## 6734    6           5 08:15:00    Mon
## 35      1          20 08:30:00    Mon
## 1375    2           9 08:30:00    Mon
## 2715    3          46 08:30:00    Mon
## 4055    4           6 08:30:00    Mon
## 5395    5          13 08:30:00    Mon
## 6735    6           8 08:30:00    Mon
## 36      1          19 08:45:00    Mon
## 1376    2           7 08:45:00    Mon
```

```
## 2716    3    41 08:45:00    Mon
## 4056    4     2 08:45:00    Mon
## 5396    5    13 08:45:00    Mon
## 6736    6    10 08:45:00    Mon
## 37      1    22 09:00:00    Mon
## 1377    2     7 09:00:00    Mon
## 2717    3    31 09:00:00    Mon
## 4057    4     2 09:00:00    Mon
## 5397    5    13 09:00:00    Mon
## 6737    6    10 09:00:00    Mon
## 38      1    16 09:15:00    Mon
## 1378    2     7 09:15:00    Mon
## 2718    3    21 09:15:00    Mon
## 4058    4     2 09:15:00    Mon
## 5398    5    17 09:15:00    Mon
## 6738    6    11 09:15:00    Mon
## 39      1    15 09:30:00    Mon
## 1379    2     7 09:30:00    Mon
## 2719    3    21 09:30:00    Mon
## 4059    4     2 09:30:00    Mon
## 5399    5    15 09:30:00    Mon
## 6739    6    11 09:30:00    Mon
## 40      1    13 09:45:00    Mon
## 1380    2     9 09:45:00    Mon
## 2720    3    25 09:45:00    Mon
## 4060    4     3 09:45:00    Mon
## 5400    5    11 09:45:00    Mon
## 6740    6    10 09:45:00    Mon
## 41      1    10 10:00:00    Mon
## 1381    2     5 10:00:00    Mon
## 2721    3    22 10:00:00    Mon
## 4061    4     2 10:00:00    Mon
## 5401    5    11 10:00:00    Mon
## 6741    6    10 10:00:00    Mon
## 42      1    12 10:15:00    Mon
## 1382    2     2 10:15:00    Mon
## 2722    3    17 10:15:00    Mon
## 4062    4     2 10:15:00    Mon
## 5402    5     9 10:15:00    Mon
## 6742    6    13 10:15:00    Mon
## 43      1     7 10:30:00    Mon
## 1383    2     2 10:30:00    Mon
## 2723    3    17 10:30:00    Mon
## 4063    4     2 10:30:00    Mon
## 5403    5    11 10:30:00    Mon
## 6743    6    11 10:30:00    Mon
## 44      1    10 10:45:00    Mon
## 1384    2     4 10:45:00    Mon
## 2724    3    15 10:45:00    Mon
## 4064    4     1 10:45:00    Mon
## 5404    5    13 10:45:00    Mon
## 6744    6    11 10:45:00    Mon
## 45      1    12 11:00:00    Mon
## 1385    2     3 11:00:00    Mon
```

```
## 2725    3           13 11:00:00    Mon
## 4065    4            3 11:00:00    Mon
## 5405    5           14 11:00:00    Mon
## 6745    6           11 11:00:00    Mon
## 46      1           10 11:15:00    Mon
## 1386    2            3 11:15:00    Mon
## 2726    3           18 11:15:00    Mon
## 4066    4            1 11:15:00    Mon
## 5406    5           12 11:15:00    Mon
## 6746    6           11 11:15:00    Mon
## 47      1            8 11:30:00    Mon
## 1387    2            3 11:30:00    Mon
## 2727    3           13 11:30:00    Mon
## 4067    4            3 11:30:00    Mon
## 5407    5           12 11:30:00    Mon
## 6747    6           13 11:30:00    Mon
## 48      1           10 11:45:00    Mon
## 1388    2            5 11:45:00    Mon
## 2728    3           13 11:45:00    Mon
## 4068    4            1 11:45:00    Mon
## 5408    5           11 11:45:00    Mon
## 6748    6           13 11:45:00    Mon
## 49      1           12 12:00:00    Mon
## 1389    2            5 12:00:00    Mon
## 2729    3           14 12:00:00    Mon
## 4069    4            3 12:00:00    Mon
## 5409    5           14 12:00:00    Mon
## 6749    6           13 12:00:00    Mon
## 50      1           11 12:15:00    Mon
## 1390    2            3 12:15:00    Mon
## 2730    3           15 12:15:00    Mon
## 4070    4            5 12:15:00    Mon
## 5410    5           14 12:15:00    Mon
## 6750    6           13 12:15:00    Mon
## 51      1           11 12:30:00    Mon
## 1391    2            3 12:30:00    Mon
## 2731    3           14 12:30:00    Mon
## 4071    4            5 12:30:00    Mon
## 5411    5           12 12:30:00    Mon
## 6751    6           15 12:30:00    Mon
## 52      1           11 12:45:00    Mon
## 1392    2            1 12:45:00    Mon
## 2732    3           12 12:45:00    Mon
## 4072    4            3 12:45:00    Mon
## 5412    5           11 12:45:00    Mon
## 6752    6           12 12:45:00    Mon
## 53      1           13 13:00:00    Mon
## 1393    2            1 13:00:00    Mon
## 2733    3           14 13:00:00    Mon
## 4073    4            5 13:00:00    Mon
## 5413    5           13 13:00:00    Mon
## 6753    6           12 13:00:00    Mon
## 54      1           12 13:15:00    Mon
## 1394    2            1 13:15:00    Mon
```

```
## 2734    3           16 13:15:00    Mon
## 4074    4            5 13:15:00    Mon
## 5414    5           12 13:15:00    Mon
## 6754    6           12 13:15:00    Mon
## 55      1           10 13:30:00    Mon
## 1395    2            5 13:30:00    Mon
## 2735    3           15 13:30:00    Mon
## 4075    4            3 13:30:00    Mon
## 5415    5           12 13:30:00    Mon
## 6755    6           12 13:30:00    Mon
## 56      1            8 13:45:00    Mon
## 1396    2            5 13:45:00    Mon
## 2736    3            8 13:45:00    Mon
## 4076    4            1 13:45:00    Mon
## 5416    5           12 13:45:00    Mon
## 6756    6           12 13:45:00    Mon
## 57      1            7 14:00:00    Mon
## 1397    2            4 14:00:00    Mon
## 2737    3            4 14:00:00    Mon
## 4077    4            1 14:00:00    Mon
## 5417    5           11 14:00:00    Mon
## 6757    6           12 14:00:00    Mon
## 58      1            6 14:15:00    Mon
## 1398    2            2 14:15:00    Mon
## 2738    3            7 14:15:00    Mon
## 4078    4            3 14:15:00    Mon
## 5418    5            9 14:15:00    Mon
## 6758    6           11 14:15:00    Mon
## 59      1            7 14:30:00    Mon
## 1399    2            0 14:30:00    Mon
## 2739    3            2 14:30:00    Mon
## 4079    4            1 14:30:00    Mon
## 5419    5            8 14:30:00    Mon
## 6759    6           10 14:30:00    Mon
## 60      1            7 14:45:00    Mon
## 1400    2            0 14:45:00    Mon
## 2740    3            3 14:45:00    Mon
## 4080    4            2 14:45:00    Mon
## 5420    5            9 14:45:00    Mon
## 6760    6           10 14:45:00    Mon
## 61      1            8 15:00:00    Mon
## 1401    2            2 15:00:00    Mon
## 2741    3            5 15:00:00    Mon
## 4081    4            4 15:00:00    Mon
## 5421    5            5 15:00:00    Mon
## 6761    6           12 15:00:00    Mon
## 62      1            8 15:15:00    Mon
## 1402    2            2 15:15:00    Mon
## 2742    3            3 15:15:00    Mon
## 4082    4            4 15:15:00    Mon
## 5422    5            5 15:15:00    Mon
## 6762    6           10 15:15:00    Mon
## 63      1           10 15:30:00    Mon
## 1403    2            2 15:30:00    Mon
```

```
## 2743        3          7 15:30:00      Mon
## 4083        4          8 15:30:00      Mon
## 5423        5          4 15:30:00      Mon
## 6763        6          9 15:30:00      Mon
## 64          1          4 15:45:00      Mon
## 1404        2          0 15:45:00      Mon
## 2744        3         11 15:45:00      Mon
## 4084        4          7 15:45:00      Mon
## 5424        5          2 15:45:00      Mon
## 6764        6         10 15:45:00      Mon
## 65          1          4 16:00:00      Mon
## 1405        2          0 16:00:00      Mon
## 2745        3          8 16:00:00      Mon
## 4085        4          4 16:00:00      Mon
## 5425        5          2 16:00:00      Mon
## 6765        6          9 16:00:00      Mon
## 66          1          4 16:15:00      Mon
## 1406        2          1 16:15:00      Mon
## 2746        3          4 16:15:00      Mon
## 4086        4          3 16:15:00      Mon
## 5426        5          4 16:15:00      Mon
## 6766        6         11 16:15:00      Mon
## 67          1          8 16:30:00      Mon
## 1407        2          1 16:30:00      Mon
## 2747        3          2 16:30:00      Mon
## 4087        4          4 16:30:00      Mon
## 5427        5          1 16:30:00      Mon
## 6767        6         11 16:30:00      Mon
## 68          1          0 16:45:00      Mon
## 1408        2          7 16:45:00      Mon
## 2748        3          4 16:45:00      Mon
## 4088        4          8 16:45:00      Mon
## 5428        5          3 16:45:00      Mon
## 6768        6         11 16:45:00      Mon
## 69          1          3 17:00:00      Mon
## 1409        2          3 17:00:00      Mon
## 2749        3          4 17:00:00      Mon
## 4089        4         10 17:00:00      Mon
## 5429        5          1 17:00:00      Mon
## 6769        6         11 17:00:00      Mon
## 70          1          1 17:15:00      Mon
## 1410        2          6 17:15:00      Mon
## 2750        3         10 17:15:00      Mon
## 4090        4          5 17:15:00      Mon
## 5430        5          5 17:15:00      Mon
## 6770        6         11 17:15:00      Mon
## 71          1          6 17:30:00      Mon
## 1411        2          9 17:30:00      Mon
## 2751        3         12 17:30:00      Mon
## 4091        4         10 17:30:00      Mon
## 5431        5          7 17:30:00      Mon
## 6771        6         11 17:30:00      Mon
## 72          1          6 17:45:00      Mon
## 1412        2          7 17:45:00      Mon
```

```
## 2752       3              5 17:45:00       Mon
## 4092       4              9 17:45:00       Mon
## 5432       5              5 17:45:00       Mon
## 6772       6             10 17:45:00       Mon
## 73         1              7 18:00:00       Mon
## 1413       2              4 18:00:00       Mon
## 2753       3              3 18:00:00       Mon
## 4093       4              7 18:00:00       Mon
## 5433       5              6 18:00:00       Mon
## 6773       6              6 18:00:00       Mon
## 74         1              5 18:15:00       Mon
## 1414       2              8 18:15:00       Mon
## 2754       3             14 18:15:00       Mon
## 4094       4              7 18:15:00       Mon
## 5434       5              3 18:15:00       Mon
## 6774       6              4 18:15:00       Mon
## 75         1              5 18:30:00       Mon
## 1415       2              2 18:30:00       Mon
## 2755       3             11 18:30:00       Mon
## 4095       4              7 18:30:00       Mon
## 5435       5              4 18:30:00       Mon
## 6775       6              5 18:30:00       Mon
## 76         1              5 18:45:00       Mon
## 1416       2              9 18:45:00       Mon
## 2756       3              7 18:45:00       Mon
## 4096       4             13 18:45:00       Mon
## 5436       5             10 18:45:00       Mon
## 6776       6              4 18:45:00       Mon
## 77         1              8 19:00:00       Mon
## 1417       2              0 19:00:00       Mon
## 2757       3              9 19:00:00       Mon
## 4097       4             12 19:00:00       Mon
## 5437       5              6 19:00:00       Mon
## 6777       6              4 19:00:00       Mon
## 78         1              0 19:15:00       Mon
## 1418       2              0 19:15:00       Mon
## 2758       3             11 19:15:00       Mon
## 4098       4             14 19:15:00       Mon
## 5438       5              6 19:15:00       Mon
## 6778       6              2 19:15:00       Mon
## 79         1              2 19:30:00       Mon
## 1419       2              2 19:30:00       Mon
## 2759       3             10 19:30:00       Mon
## 4099       4             15 19:30:00       Mon
## 5439       5              5 19:30:00       Mon
## 6779       6              2 19:30:00       Mon
## 80         1              3 19:45:00       Mon
## 1420       2              2 19:45:00       Mon
## 2760       3              7 19:45:00       Mon
## 4100       4             18 19:45:00       Mon
## 5440       5              7 19:45:00       Mon
## 6780       6              2 19:45:00       Mon
## 81         1              5 20:00:00       Mon
## 1421       2              1 20:00:00       Mon
```

```
## 2761      3            6 20:00:00      Mon
## 4101      4           15 20:00:00      Mon
## 5441      5            9 20:00:00      Mon
## 6781      6            4 20:00:00      Mon
## 82        1           14 20:15:00      Mon
## 1422      2            2 20:15:00      Mon
## 2762      3           13 20:15:00      Mon
## 4102      4           15 20:15:00      Mon
## 5442      5           11 20:15:00      Mon
## 6782      6            4 20:15:00      Mon
## 83        1           20 20:30:00      Mon
## 1423      2            4 20:30:00      Mon
## 2763      3           16 20:30:00      Mon
## 4103      4           20 20:30:00      Mon
## 5443      5           12 20:30:00      Mon
## 6783      6            2 20:30:00      Mon
## 84        1           19 20:45:00      Mon
## 1424      2            4 20:45:00      Mon
## 2764      3           12 20:45:00      Mon
## 4104      4           20 20:45:00      Mon
## 5444      5           14 20:45:00      Mon
## 6784      6            0 20:45:00      Mon
## 85        1           18 21:00:00      Mon
## 1425      2            3 21:00:00      Mon
## 2765      3           13 21:00:00      Mon
## 4105      4           19 21:00:00      Mon
## 5445      5           14 21:00:00      Mon
## 6785      6            0 21:00:00      Mon
## 86        1           20 21:15:00      Mon
## 1426      2            3 21:15:00      Mon
## 2766      3           20 21:15:00      Mon
## 4106      4           19 21:15:00      Mon
## 5446      5           14 21:15:00      Mon
## 6786      6            0 21:15:00      Mon
## 87        1           18 21:30:00      Mon
## 1427      2            4 21:30:00      Mon
## 2767      3           28 21:30:00      Mon
## 4107      4           21 21:30:00      Mon
## 5447      5           14 21:30:00      Mon
## 6787      6            0 21:30:00      Mon
## 88        1           18 21:45:00      Mon
## 1428      2            8 21:45:00      Mon
## 2768      3           27 21:45:00      Mon
## 4108      4           24 21:45:00      Mon
## 5448      5           15 21:45:00      Mon
## 6788      6            0 21:45:00      Mon
## 89        1           15 22:00:00      Mon
## 1429      2           12 22:00:00      Mon
## 2769      3           31 22:00:00      Mon
## 4109      4           26 22:00:00      Mon
## 5449      5           15 22:00:00      Mon
## 6789      6            0 22:00:00      Mon
## 90        1           19 22:15:00      Mon
## 1430      2           10 22:15:00      Mon
```

```
## 2770    3          32 22:15:00     Mon
## 4110    4          29 22:15:00     Mon
## 5450    5          13 22:15:00     Mon
## 6790    6           0 22:15:00     Mon
## 91      1          21 22:30:00     Mon
## 1431    2          10 22:30:00     Mon
## 2771    3          42 22:30:00     Mon
## 4111    4          36 22:30:00     Mon
## 5451    5          15 22:30:00     Mon
## 6791    6           0 22:30:00     Mon
## 92      1          21 22:45:00     Mon
## 1432    2          18 22:45:00     Mon
## 2772    3          41 22:45:00     Mon
## 4112    4          39 22:45:00     Mon
## 5452    5          19 22:45:00     Mon
## 6792    6           0 22:45:00     Mon
## 93      1          22 23:00:00     Mon
## 1433    2          20 23:00:00     Mon
## 2773    3          43 23:00:00     Mon
## 4113    4          46 23:00:00     Mon
## 5453    5          27 23:00:00     Mon
## 6793    6           0 23:00:00     Mon
## 94      1          22 23:15:00     Mon
## 1434    2          19 23:15:00     Mon
## 2774    3          44 23:15:00     Mon
## 4114    4          44 23:15:00     Mon
## 5454    5          29 23:15:00     Mon
## 6794    6           0 23:15:00     Mon
## 95      1          20 23:30:00     Mon
## 1435    2          19 23:30:00     Mon
## 2775    3          56 23:30:00     Mon
## 4115    4          43 23:30:00     Mon
## 5455    5          29 23:30:00     Mon
## 6795    6           0 23:30:00     Mon
## 96      1          22 23:45:00     Mon
## 1436    2          17 23:45:00     Mon
## 2776    3          56 23:45:00     Mon
## 4116    4          43 23:45:00     Mon
## 5456    5          29 23:45:00     Mon
## 6796    6           0 23:45:00     Mon
## 97      1          22 00:00:00     Tue
## 1437    2          19 00:00:00     Tue
## 2777    3          60 00:00:00     Tue
## 4117    4          43 00:00:00     Tue
## 5457    5          31 00:00:00     Tue
## 6797    6           0 00:00:00     Tue
## 98      1          22 00:15:00     Tue
## 1438    2          19 00:15:00     Tue
## 2778    3          62 00:15:00     Tue
## 4118    4          45 00:15:00     Tue
## 5458    5          31 00:15:00     Tue
## 6798    6           0 00:15:00     Tue
## 99      1          21 00:30:00     Tue
## 1439    2          19 00:30:00     Tue
```

```
## 2779    3        58 00:30:00    Tue
## 4119    4        49 00:30:00    Tue
## 5459    5        29 00:30:00    Tue
## 6799    6         0 00:30:00    Tue
## 100     1        19 00:45:00    Tue
## 1440    2        19 00:45:00    Tue
## 2780    3        60 00:45:00    Tue
## 4120    4        50 00:45:00    Tue
## 5460    5        27 00:45:00    Tue
## 6800    6         0 00:45:00    Tue
## 101     1        17 01:00:00    Tue
## 1441    2        21 01:00:00    Tue
## 2781    3        62 01:00:00    Tue
## 4121    4        50 01:00:00    Tue
## 5461    5        29 01:00:00    Tue
## 6801    6         0 01:00:00    Tue
## 102     1        19 01:15:00    Tue
## 1442    2        21 01:15:00    Tue
## 2782    3        66 01:15:00    Tue
## 4122    4        50 01:15:00    Tue
## 5462    5        27 01:15:00    Tue
## 6802    6         0 01:15:00    Tue
## 103     1        19 01:30:00    Tue
## 1443    2        21 01:30:00    Tue
## 2783    3        66 01:30:00    Tue
## 4123    4        50 01:30:00    Tue
## 5463    5        29 01:30:00    Tue
## 6803    6         0 01:30:00    Tue
## 104     1        19 01:45:00    Tue
## 1444    2        21 01:45:00    Tue
## 2784    3        69 01:45:00    Tue
## 4124    4        50 01:45:00    Tue
## 5464    5        29 01:45:00    Tue
## 6804    6         0 01:45:00    Tue
## 105     1        19 02:00:00    Tue
## 1445    2        21 02:00:00    Tue
## 2785    3        69 02:00:00    Tue
## 4125    4        50 02:00:00    Tue
## 5465    5        29 02:00:00    Tue
## 6805    6         0 02:00:00    Tue
## 106     1        19 02:15:00    Tue
## 1446    2        23 02:15:00    Tue
## 2786    3        69 02:15:00    Tue
## 4126    4        50 02:15:00    Tue
## 5466    5        29 02:15:00    Tue
## 6806    6         0 02:15:00    Tue
## 107     1        19 02:30:00    Tue
## 1447    2        23 02:30:00    Tue
## 2787    3        71 02:30:00    Tue
## 4127    4        50 02:30:00    Tue
## 5467    5        29 02:30:00    Tue
## 6807    6         0 02:30:00    Tue
## 108     1        17 02:45:00    Tue
## 1448    2        25 02:45:00    Tue
```

```
## 2788      3            71 02:45:00      Tue
## 4128      4            50 02:45:00      Tue
## 5468      5            29 02:45:00      Tue
## 6808      6             0 02:45:00      Tue
## 109       1            19 03:00:00      Tue
## 1449      2            25 03:00:00      Tue
## 2789      3            71 03:00:00      Tue
## 4129      4            50 03:00:00      Tue
## 5469      5            27 03:00:00      Tue
## 6809      6             0 03:00:00      Tue
## 110       1            19 03:15:00      Tue
## 1450      2            25 03:15:00      Tue
## 2790      3            71 03:15:00      Tue
## 4130      4            50 03:15:00      Tue
## 5470      5            31 03:15:00      Tue
## 6810      6             0 03:15:00      Tue
## 111       1            19 03:30:00      Tue
## 1451      2            25 03:30:00      Tue
## 2791      3            71 03:30:00      Tue
## 4131      4            50 03:30:00      Tue
## 5471      5            31 03:30:00      Tue
## 6811      6             0 03:30:00      Tue
## 112       1            19 03:45:00      Tue
## 1452      2            26 03:45:00      Tue
## 2792      3            71 03:45:00      Tue
## 4132      4            50 03:45:00      Tue
## 5472      5            31 03:45:00      Tue
## 6812      6             0 03:45:00      Tue
## 113       1            19 04:00:00      Tue
## 1453      2            26 04:00:00      Tue
## 2793      3            71 04:00:00      Tue
## 4133      4            50 04:00:00      Tue
## 5473      5            31 04:00:00      Tue
## 6813      6             0 04:00:00      Tue
## 114       1            19 04:15:00      Tue
## 1454      2            26 04:15:00      Tue
## 2794      3            71 04:15:00      Tue
## 4134      4            50 04:15:00      Tue
## 5474      5            31 04:15:00      Tue
## 6814      6             0 04:15:00      Tue
## 115       1            19 04:30:00      Tue
## 1455      2            26 04:30:00      Tue
## 2795      3            71 04:30:00      Tue
## 4135      4            50 04:30:00      Tue
## 5475      5            31 04:30:00      Tue
## 6815      6             0 04:30:00      Tue
## 116       1            19 04:45:00      Tue
## 1456      2            26 04:45:00      Tue
## 2796      3            71 04:45:00      Tue
## 4136      4            50 04:45:00      Tue
## 5476      5            29 04:45:00      Tue
## 6816      6             2 04:45:00      Tue
## 117       1            17 05:00:00      Tue
## 1457      2            28 05:00:00      Tue
```

```
## 2797    3          71 05:00:00      Tue
## 4137    4          50 05:00:00      Tue
## 5477    5          29 05:00:00      Tue
## 6817    6           2 05:00:00      Tue
## 118     1          19 05:15:00      Tue
## 1458    2          28 05:15:00      Tue
## 2798    3          69 05:15:00      Tue
## 4138    4          48 05:15:00      Tue
## 5478    5          29 05:15:00      Tue
## 6818    6           2 05:15:00      Tue
## 119     1          19 05:30:00      Tue
## 1459    2          28 05:30:00      Tue
## 2799    3          69 05:30:00      Tue
## 4139    4          49 05:30:00      Tue
## 5479    5          27 05:30:00      Tue
## 6819    6           2 05:30:00      Tue
## 120     1          19 05:45:00      Tue
## 1460    2          28 05:45:00      Tue
## 2800    3          70 05:45:00      Tue
## 4140    4          48 05:45:00      Tue
## 5480    5          27 05:45:00      Tue
## 6820    6           0 05:45:00      Tue
## 121     1          19 06:00:00      Tue
## 1461    2          28 06:00:00      Tue
## 2801    3          71 06:00:00      Tue
## 4141    4          46 06:00:00      Tue
## 5481    5          25 06:00:00      Tue
## 6821    6           0 06:00:00      Tue
## 122     1          19 06:15:00      Tue
## 1462    2          28 06:15:00      Tue
## 2802    3          74 06:15:00      Tue
## 4142    4          46 06:15:00      Tue
## 5482    5          25 06:15:00      Tue
## 6822    6           1 06:15:00      Tue
## 123     1          17 06:30:00      Tue
## 1463    2          26 06:30:00      Tue
## 2803    3          74 06:30:00      Tue
## 4143    4          45 06:30:00      Tue
## 5483    5          23 06:30:00      Tue
## 6823    6           1 06:30:00      Tue
## 124     1          15 06:45:00      Tue
## 1464    2          26 06:45:00      Tue
## 2804    3          72 06:45:00      Tue
## 4144    4          41 06:45:00      Tue
## 5484    5          23 06:45:00      Tue
## 6824    6           1 06:45:00      Tue
## 125     1          15 07:00:00      Tue
## 1465    2          22 07:00:00      Tue
## 2805    3          66 07:00:00      Tue
## 4145    4          41 07:00:00      Tue
## 5485    5          23 07:00:00      Tue
## 6825    6           1 07:00:00      Tue
## 126     1          17 07:15:00      Tue
## 1466    2          22 07:15:00      Tue
```

```
## 2806    3           60 07:15:00       Tue
## 4146    4           43 07:15:00       Tue
## 5486    5           23 07:15:00       Tue
## 6826    6            1 07:15:00       Tue
## 127     1           17 07:30:00       Tue
## 1467    2           20 07:30:00       Tue
## 2807    3           60 07:30:00       Tue
## 4147    4           35 07:30:00       Tue
## 5487    5           19 07:30:00       Tue
## 6827    6            1 07:30:00       Tue
## 128     1           16 07:45:00       Tue
## 1468    2           11 07:45:00       Tue
## 2808    3           57 07:45:00       Tue
## 4148    4           28 07:45:00       Tue
## 5488    5           19 07:45:00       Tue
## 6828    6            0 07:45:00       Tue
## 129     1           12 08:00:00       Tue
## 1469    2            2 08:00:00       Tue
## 2809    3           42 08:00:00       Tue
## 4149    4           25 08:00:00       Tue
## 5489    5           21 08:00:00       Tue
## 6829    6            1 08:00:00       Tue
## 130     1           15 08:15:00       Tue
## 1470    2            3 08:15:00       Tue
## 2810    3           34 08:15:00       Tue
## 4150    4           26 08:15:00       Tue
## 5490    5           20 08:15:00       Tue
## 6830    6            1 08:15:00       Tue
## 131     1           12 08:30:00       Tue
## 1471    2            4 08:30:00       Tue
## 2811    3           38 08:30:00       Tue
## 4151    4           22 08:30:00       Tue
## 5491    5           20 08:30:00       Tue
## 6831    6            1 08:30:00       Tue
## 132     1            9 08:45:00       Tue
## 1472    2            3 08:45:00       Tue
## 2812    3           22 08:45:00       Tue
## 4152    4           22 08:45:00       Tue
## 5492    5           22 08:45:00       Tue
## 6832    6            1 08:45:00       Tue
## 133     1            6 09:00:00       Tue
## 1473    2            2 09:00:00       Tue
## 2813    3           12 09:00:00       Tue
## 4153    4           20 09:00:00       Tue
## 5493    5           17 09:00:00       Tue
## 6833    6            6 09:00:00       Tue
## 134     1            4 09:15:00       Tue
## 1474    2            0 09:15:00       Tue
## 2814    3           10 09:15:00       Tue
## 4154    4           18 09:15:00       Tue
## 5494    5           17 09:15:00       Tue
## 6834    6            8 09:15:00       Tue
## 135     1            9 09:30:00       Tue
## 1475    2            0 09:30:00       Tue
```

```
## 2815    3         5 09:30:00      Tue
## 4155    4        14 09:30:00      Tue
## 5495    5        10 09:30:00      Tue
## 6835    6         6 09:30:00      Tue
## 136     1         9 09:45:00      Tue
## 1476    2         0 09:45:00      Tue
## 2816    3         6 09:45:00      Tue
## 4156    4        11 09:45:00      Tue
## 5496    5         6 09:45:00      Tue
## 6836    6         6 09:45:00      Tue
## 137     1         7 10:00:00      Tue
## 1477    2         0 10:00:00      Tue
## 2817    3         4 10:00:00      Tue
## 4157    4        11 10:00:00      Tue
## 5497    5         3 10:00:00      Tue
## 6837    6         6 10:00:00      Tue
## 138     1         9 10:15:00      Tue
## 1478    2         3 10:15:00      Tue
## 2818    3         6 10:15:00      Tue
## 4158    4        10 10:15:00      Tue
## 5498    5         1 10:15:00      Tue
## 6838    6         8 10:15:00      Tue
## 139     1         3 10:30:00      Tue
## 1479    2         3 10:30:00      Tue
## 2819    3        10 10:30:00      Tue
## 4159    4        11 10:30:00      Tue
## 5499    5         1 10:30:00      Tue
## 6839    6         8 10:30:00      Tue
## 140     1         9 10:45:00      Tue
## 1480    2         5 10:45:00      Tue
## 2820    3        12 10:45:00      Tue
## 4160    4        13 10:45:00      Tue
## 5500    5         3 10:45:00      Tue
## 6840    6         8 10:45:00      Tue
## 141     1         9 11:00:00      Tue
## 1481    2         5 11:00:00      Tue
## 2821    3        10 11:00:00      Tue
## 4161    4        12 11:00:00      Tue
## 5501    5         1 11:00:00      Tue
## 6841    6         7 11:00:00      Tue
## 142     1         7 11:15:00      Tue
## 1482    2         0 11:15:00      Tue
## 2822    3        10 11:15:00      Tue
## 4162    4        13 11:15:00      Tue
## 5502    5         1 11:15:00      Tue
## 6842    6         5 11:15:00      Tue
## 143     1         1 11:30:00      Tue
## 1483    2         1 11:30:00      Tue
## 2823    3        10 11:30:00      Tue
## 4163    4         8 11:30:00      Tue
## 5503    5         1 11:30:00      Tue
## 6843    6         3 11:30:00      Tue
## 144     1         1 11:45:00      Tue
## 1484    2         1 11:45:00      Tue
```

```
## 2824    3          5 11:45:00    Tue
## 4164    4          5 11:45:00    Tue
## 5504    5          1 11:45:00    Tue
## 6844    6          3 11:45:00    Tue
## 145     1          1 12:00:00    Tue
## 1485    2          0 12:00:00    Tue
## 2825    3          7 12:00:00    Tue
## 4165    4          6 12:00:00    Tue
## 5505    5          0 12:00:00    Tue
## 6845    6          3 12:00:00    Tue
## 146     1          4 12:15:00    Tue
## 1486    2          1 12:15:00    Tue
## 2826    3          3 12:15:00    Tue
## 4166    4          8 12:15:00    Tue
## 5506    5          0 12:15:00    Tue
## 6846    6          3 12:15:00    Tue
## 147     1          4 12:30:00    Tue
## 1487    2          1 12:30:00    Tue
## 2827    3          5 12:30:00    Tue
## 4167    4          8 12:30:00    Tue
## 5507    5          0 12:30:00    Tue
## 6847    6          3 12:30:00    Tue
## 148     1          1 12:45:00    Tue
## 1488    2          0 12:45:00    Tue
## 2828    3          2 12:45:00    Tue
## 4168    4          5 12:45:00    Tue
## 5508    5          2 12:45:00    Tue
## 6848    6          3 12:45:00    Tue
## 149     1          3 13:00:00    Tue
## 1489    2          0 13:00:00    Tue
## 2829    3          5 13:00:00    Tue
## 4169    4          3 13:00:00    Tue
## 5509    5          2 13:00:00    Tue
## 6849    6          1 13:00:00    Tue
## 150     1          4 13:15:00    Tue
## 1490    2          0 13:15:00    Tue
## 2830    3          4 13:15:00    Tue
## 4170    4          4 13:15:00    Tue
## 5510    5          6 13:15:00    Tue
## 6850    6          1 13:15:00    Tue
## 151     1          5 13:30:00    Tue
## 1491    2          0 13:30:00    Tue
## 2831    3          5 13:30:00    Tue
## 4171    4          2 13:30:00    Tue
## 5511    5          4 13:30:00    Tue
## 6851    6          2 13:30:00    Tue
## 152     1          6 13:45:00    Tue
## 1492    2          2 13:45:00    Tue
## 2832    3          2 13:45:00    Tue
## 4172    4          3 13:45:00    Tue
## 5512    5          0 13:45:00    Tue
## 6852    6          2 13:45:00    Tue
## 153     1          1 14:00:00    Tue
## 1493    2          0 14:00:00    Tue
```

```
## 2833      3                  2 14:00:00      Tue
## 4173      4                  2 14:00:00      Tue
## 5513      5                  0 14:00:00      Tue
## 6853      6                  2 14:00:00      Tue
## 154       1                  0 14:15:00      Tue
## 1494      2                  0 14:15:00      Tue
## 2834      3                  1 14:15:00      Tue
## 4174      4                  4 14:15:00      Tue
## 5514      5                  1 14:15:00      Tue
## 6854      6                  2 14:15:00      Tue
## 155       1                  0 14:30:00      Tue
## 1495      2                  0 14:30:00      Tue
## 2835      3                  3 14:30:00      Tue
## 4175      4                  3 14:30:00      Tue
## 5515      5                  3 14:30:00      Tue
## 6855      6                  1 14:30:00      Tue
## 156       1                  0 14:45:00      Tue
## 1496      2                  0 14:45:00      Tue
## 2836      3                  2 14:45:00      Tue
## 4176      4                  5 14:45:00      Tue
## 5516      5                  8 14:45:00      Tue
## 6856      6                  1 14:45:00      Tue
## 157       1                  0 15:00:00      Tue
## 1497      2                  4 15:00:00      Tue
## 2837      3                  4 15:00:00      Tue
## 4177      4                  3 15:00:00      Tue
## 5517      5                  6 15:00:00      Tue
## 6857      6                  1 15:00:00      Tue
## 158       1                  0 15:15:00      Tue
## 1498      2                  2 15:15:00      Tue
## 2838      3                  3 15:15:00      Tue
## 4178      4                  4 15:15:00      Tue
## 5518      5                  7 15:15:00      Tue
## 6858      6                  3 15:15:00      Tue
## 159       1                  4 15:30:00      Tue
## 1499      2                  2 15:30:00      Tue
## 2839      3                  5 15:30:00      Tue
## 4179      4                  5 15:30:00      Tue
## 5519      5                  6 15:30:00      Tue
## 6859      6                  4 15:30:00      Tue
## 160       1                  6 15:45:00      Tue
## 1500      2                  3 15:45:00      Tue
## 2840      3                  6 15:45:00      Tue
## 4180      4                  4 15:45:00      Tue
## 5520      5                  7 15:45:00      Tue
## 6860      6                  2 15:45:00      Tue
## 161       1                  4 16:00:00      Tue
## 1501      2                  3 16:00:00      Tue
## 2841      3                  8 16:00:00      Tue
## 4181      4                  5 16:00:00      Tue
## 5521      5                  6 16:00:00      Tue
## 6861      6                  2 16:00:00      Tue
## 162       1                  3 16:15:00      Tue
## 1502      2                  1 16:15:00      Tue
```

```
## 2842      3            5 16:15:00       Tue
## 4182      4            4 16:15:00       Tue
## 5522      5            5 16:15:00       Tue
## 6862      6            1 16:15:00       Tue
## 163       1            3 16:30:00       Tue
## 1503      2            3 16:30:00       Tue
## 2843      3            8 16:30:00       Tue
## 4183      4            5 16:30:00       Tue
## 5523      5            4 16:30:00       Tue
## 6863      6            3 16:30:00       Tue
## 164       1            6 16:45:00       Tue
## 1504      2            2 16:45:00       Tue
## 2844      3            1 16:45:00       Tue
## 4184      4            9 16:45:00       Tue
## 5524      5            4 16:45:00       Tue
## 6864      6            1 16:45:00       Tue
## 165       1            7 17:00:00       Tue
## 1505      2            1 17:00:00       Tue
## 2845      3            7 17:00:00       Tue
## 4185      4            3 17:00:00       Tue
## 5525      5            2 17:00:00       Tue
## 6865      6            0 17:00:00       Tue
## 166       1           12 17:15:00       Tue
## 1506      2            4 17:15:00       Tue
## 2846      3            9 17:15:00       Tue
## 4186      4            3 17:15:00       Tue
## 5526      5            2 17:15:00       Tue
## 6866      6            0 17:15:00       Tue
## 167       1           14 17:30:00       Tue
## 1507      2            4 17:30:00       Tue
## 2847      3           11 17:30:00       Tue
## 4187      4            1 17:30:00       Tue
## 5527      5            3 17:30:00       Tue
## 6867      6            3 17:30:00       Tue
## 168       1           14 17:45:00       Tue
## 1508      2            9 17:45:00       Tue
## 2848      3           23 17:45:00       Tue
## 4188      4            5 17:45:00       Tue
## 5528      5            1 17:45:00       Tue
## 6868      6            3 17:45:00       Tue
## 169       1           12 18:00:00       Tue
## 1509      2            8 18:00:00       Tue
## 2849      3            9 18:00:00       Tue
## 4189      4            5 18:00:00       Tue
## 5529      5            3 18:00:00       Tue
## 6869      6            3 18:00:00       Tue
## 170       1            7 18:15:00       Tue
## 1510      2            3 18:15:00       Tue
## 2850      3           13 18:15:00       Tue
## 4190      4            7 18:15:00       Tue
## 5530      5            0 18:15:00       Tue
## 6870      6            3 18:15:00       Tue
## 171       1           14 18:30:00       Tue
## 1511      2            2 18:30:00       Tue
```

```
## 2851    3          20 18:30:00    Tue
## 4191    4          13 18:30:00    Tue
## 5531    5           4 18:30:00    Tue
## 6871    6           0 18:30:00    Tue
## 172     1          16 18:45:00    Tue
## 1512    2           4 18:45:00    Tue
## 2852    3          22 18:45:00    Tue
## 4192    4          17 18:45:00    Tue
## 5532    5           3 18:45:00    Tue
## 6872    6           0 18:45:00    Tue
## 173     1          14 19:00:00    Tue
## 1513    2           6 19:00:00    Tue
## 2853    3          29 19:00:00    Tue
## 4193    4          19 19:00:00    Tue
## 5533    5           3 19:00:00    Tue
## 6873    6           1 19:00:00    Tue
## 174     1          10 19:15:00    Tue
## 1514    2           2 19:15:00    Tue
## 2854    3          36 19:15:00    Tue
## 4194    4          20 19:15:00    Tue
## 5534    5           2 19:15:00    Tue
## 6874    6           0 19:15:00    Tue
## 175     1           8 19:30:00    Tue
## 1515    2           3 19:30:00    Tue
## 2855    3          29 19:30:00    Tue
## 4195    4          20 19:30:00    Tue
## 5535    5           2 19:30:00    Tue
## 6875    6           0 19:30:00    Tue
## 176     1          29 19:45:00    Tue
## 1516    2           4 19:45:00    Tue
## 2856    3          35 19:45:00    Tue
## 4196    4          13 19:45:00    Tue
## 5536    5           2 19:45:00    Tue
## 6876    6           0 19:45:00    Tue
## 177     1          27 20:00:00    Tue
## 1517    2           2 20:00:00    Tue
## 2857    3          41 20:00:00    Tue
## 4197    4          11 20:00:00    Tue
## 5537    5           2 20:00:00    Tue
## 6877    6           0 20:00:00    Tue
## 178     1          26 20:15:00    Tue
## 1518    2           4 20:15:00    Tue
## 2858    3          44 20:15:00    Tue
## 4198    4          12 20:15:00    Tue
## 5538    5           2 20:15:00    Tue
## 6878    6           4 20:15:00    Tue
## 179     1          28 20:30:00    Tue
## 1519    2           8 20:30:00    Tue
## 2859    3          53 20:30:00    Tue
## 4199    4          13 20:30:00    Tue
## 5539    5           2 20:30:00    Tue
## 6879    6           4 20:30:00    Tue
## 180     1          28 20:45:00    Tue
## 1520    2           7 20:45:00    Tue
```

```
## 2860    3              49 20:45:00    Tue
## 4200    4              20 20:45:00    Tue
## 5540    5               4 20:45:00    Tue
## 6880    6               4 20:45:00    Tue
## 181     1              22 21:00:00    Tue
## 1521    2              10 21:00:00    Tue
## 2861    3              50 21:00:00    Tue
## 4201    4              24 21:00:00    Tue
## 5541    5               2 21:00:00    Tue
## 6881    6               2 21:00:00    Tue
## 182     1              22 21:15:00    Tue
## 1522    2              14 21:15:00    Tue
## 2862    3              55 21:15:00    Tue
## 4202    4              25 21:15:00    Tue
## 5542    5               2 21:15:00    Tue
## 6882    6               4 21:15:00    Tue
## 183     1              29 21:30:00    Tue
## 1523    2              13 21:30:00    Tue
## 2863    3              55 21:30:00    Tue
## 4203    4              25 21:30:00    Tue
## 5543    5               0 21:30:00    Tue
## 6883    6               6 21:30:00    Tue
## 184     1              30 21:45:00    Tue
## 1524    2              17 21:45:00    Tue
## 2864    3              53 21:45:00    Tue
## 4204    4              26 21:45:00    Tue
## 5544    5               3 21:45:00    Tue
## 6884    6               6 21:45:00    Tue
## 185     1              28 22:00:00    Tue
## 1525    2              19 22:00:00    Tue
## 2865    3              48 22:00:00    Tue
## 4205    4              26 22:00:00    Tue
## 5545    5               3 22:00:00    Tue
## 6885    6               6 22:00:00    Tue
## 186     1              36 22:15:00    Tue
## 1526    2              22 22:15:00    Tue
## 2866    3              54 22:15:00    Tue
## 4206    4              31 22:15:00    Tue
## 5546    5               2 22:15:00    Tue
## 6886    6               6 22:15:00    Tue
## 187     1              36 22:30:00    Tue
## 1527    2              26 22:30:00    Tue
## 2867    3              53 22:30:00    Tue
## 4207    4              35 22:30:00    Tue
## 5547    5               4 22:30:00    Tue
## 6887    6               4 22:30:00    Tue
## 188     1              36 22:45:00    Tue
## 1528    2              26 22:45:00    Tue
## 2868    3              55 22:45:00    Tue
## 4208    4              30 22:45:00    Tue
## 5548    5               6 22:45:00    Tue
## 6888    6               6 22:45:00    Tue
## 189     1              37 23:00:00    Tue
## 1529    2              28 23:00:00    Tue
```

```
## 2869    3             61 23:00:00     Tue
## 4209    4             28 23:00:00     Tue
## 5549    5              9 23:00:00     Tue
## 6889    6              5 23:00:00     Tue
## 190     1             39 23:15:00     Tue
## 1530    2             30 23:15:00     Tue
## 2870    3             65 23:15:00     Tue
## 4210    4             26 23:15:00     Tue
## 5550    5             10 23:15:00     Tue
## 6890    6              5 23:15:00     Tue
## 191     1             38 23:30:00     Tue
## 1531    2             29 23:30:00     Tue
## 2871    3             69 23:30:00     Tue
## 4211    4             28 23:30:00     Tue
## 5551    5             10 23:30:00     Tue
## 6891    6              4 23:30:00     Tue
## 192     1             38 23:45:00     Tue
## 1532    2             31 23:45:00     Tue
## 2872    3             78 23:45:00     Tue
## 4212    4             27 23:45:00     Tue
## 5552    5             10 23:45:00     Tue
## 6892    6              2 23:45:00     Tue
## 193     1             36 00:00:00     Wed
## 1533    2             31 00:00:00     Wed
## 2873    3             86 00:00:00     Wed
## 4213    4             29 00:00:00     Wed
## 5553    5             14 00:00:00     Wed
## 6893    6              2 00:00:00     Wed
## 194     1             36 00:15:00     Wed
## 1534    2             34 00:15:00     Wed
## 2874    3             88 00:15:00     Wed
## 4214    4             31 00:15:00     Wed
## 5554    5             16 00:15:00     Wed
## 6894    6              2 00:15:00     Wed
## 195     1             36 00:30:00     Wed
## 1535    2             34 00:30:00     Wed
## 2875    3             85 00:30:00     Wed
## 4215    4             35 00:30:00     Wed
## 5555    5             16 00:30:00     Wed
## 6895    6              2 00:30:00     Wed
## 196     1             34 00:45:00     Wed
## 1536    2             36 00:45:00     Wed
## 2876    3             87 00:45:00     Wed
## 4216    4             35 00:45:00     Wed
## 5556    5             14 00:45:00     Wed
## 6896    6              2 00:45:00     Wed
## 197     1             32 01:00:00     Wed
## 1537    2             36 01:00:00     Wed
## 2877    3             89 01:00:00     Wed
## 4217    4             35 01:00:00     Wed
## 5557    5             18 01:00:00     Wed
## 6897    6              2 01:00:00     Wed
## 198     1             32 01:15:00     Wed
## 1538    2             36 01:15:00     Wed
```

```
## 2878     3              97 01:15:00       Wed
## 4218     4              35 01:15:00       Wed
## 5558     5              22 01:15:00       Wed
## 6898     6               2 01:15:00       Wed
## 199      1              32 01:30:00       Wed
## 1539     2              36 01:30:00       Wed
## 2879     3              99 01:30:00       Wed
## 4219     4              36 01:30:00       Wed
## 5559     5              22 01:30:00       Wed
## 6899     6               2 01:30:00       Wed
## 200      1              30 01:45:00       Wed
## 1540     2              36 01:45:00       Wed
## 2880     3             104 01:45:00       Wed
## 4220     4              36 01:45:00       Wed
## 5560     5              22 01:45:00       Wed
## 6900     6               2 01:45:00       Wed
## 201      1              32 02:00:00       Wed
## 1541     2              36 02:00:00       Wed
## 2881     3             107 02:00:00       Wed
## 4221     4              36 02:00:00       Wed
## 5561     5              22 02:00:00       Wed
## 6901     6               2 02:00:00       Wed
## 202      1              30 02:15:00       Wed
## 1542     2              36 02:15:00       Wed
## 2882     3             107 02:15:00       Wed
## 4222     4              36 02:15:00       Wed
## 5562     5              22 02:15:00       Wed
## 6902     6               2 02:15:00       Wed
## 203      1              30 02:30:00       Wed
## 1543     2              34 02:30:00       Wed
## 2883     3             107 02:30:00       Wed
## 4223     4              36 02:30:00       Wed
## 5563     5              22 02:30:00       Wed
## 6903     6               2 02:30:00       Wed
## 204      1              30 02:45:00       Wed
## 1544     2              30 02:45:00       Wed
## 2884     3             107 02:45:00       Wed
## 4224     4              34 02:45:00       Wed
## 5564     5              22 02:45:00       Wed
## 6904     6               2 02:45:00       Wed
## 205      1              30 03:00:00       Wed
## 1545     2              32 03:00:00       Wed
## 2885     3             107 03:00:00       Wed
## 4225     4              34 03:00:00       Wed
## 5565     5              24 03:00:00       Wed
## 6905     6               2 03:00:00       Wed
## 206      1              30 03:15:00       Wed
## 1546     2              34 03:15:00       Wed
## 2886     3             107 03:15:00       Wed
## 4226     4              34 03:15:00       Wed
## 5566     5              24 03:15:00       Wed
## 6906     6               2 03:15:00       Wed
## 207      1              30 03:30:00       Wed
## 1547     2              34 03:30:00       Wed
```

```
## 2887    3        109 03:30:00    Wed
## 4227    4         34 03:30:00    Wed
## 5567    5         24 03:30:00    Wed
## 6907    6          2 03:30:00    Wed
## 208     1         30 03:45:00    Wed
## 1548    2         34 03:45:00    Wed
## 2888    3        109 03:45:00    Wed
## 4228    4         34 03:45:00    Wed
## 5568    5         24 03:45:00    Wed
## 6908    6          2 03:45:00    Wed
## 209     1         30 04:00:00    Wed
## 1549    2         34 04:00:00    Wed
## 2889    3        109 04:00:00    Wed
## 4229    4         34 04:00:00    Wed
## 5569    5         24 04:00:00    Wed
## 6909    6          2 04:00:00    Wed
## 210     1         30 04:15:00    Wed
## 1550    2         32 04:15:00    Wed
## 2890    3        109 04:15:00    Wed
## 4230    4         34 04:15:00    Wed
## 5570    5         24 04:15:00    Wed
## 6910    6          2 04:15:00    Wed
## 211     1         32 04:30:00    Wed
## 1551    2         34 04:30:00    Wed
## 2891    3        107 04:30:00    Wed
## 4231    4         34 04:30:00    Wed
## 5571    5         24 04:30:00    Wed
## 6911    6          2 04:30:00    Wed
## 212     1         32 04:45:00    Wed
## 1552    2         34 04:45:00    Wed
## 2892    3        107 04:45:00    Wed
## 4232    4         34 04:45:00    Wed
## 5572    5         24 04:45:00    Wed
## 6912    6          2 04:45:00    Wed
## 213     1         32 05:00:00    Wed
## 1553    2         34 05:00:00    Wed
## 2893    3        107 05:00:00    Wed
## 4233    4         34 05:00:00    Wed
## 5573    5         26 05:00:00    Wed
## 6913    6          2 05:00:00    Wed
## 214     1         32 05:15:00    Wed
## 1554    2         34 05:15:00    Wed
## 2894    3        107 05:15:00    Wed
## 4234    4         34 05:15:00    Wed
## 5574    5         26 05:15:00    Wed
## 6914    6          2 05:15:00    Wed
## 215     1         32 05:30:00    Wed
## 1555    2         34 05:30:00    Wed
## 2895    3        107 05:30:00    Wed
## 4235    4         34 05:30:00    Wed
## 5575    5         26 05:30:00    Wed
## 6915    6          2 05:30:00    Wed
## 216     1         32 05:45:00    Wed
## 1556    2         34 05:45:00    Wed
```

```
## 2896      3         105 05:45:00      Wed
## 4236      4          33 05:45:00      Wed
## 5576      5          24 05:45:00      Wed
## 6916      6           2 05:45:00      Wed
## 217       1          32 06:00:00      Wed
## 1557      2          34 06:00:00      Wed
## 2897      3         105 06:00:00      Wed
## 4237      4          31 06:00:00      Wed
## 5577      5          22 06:00:00      Wed
## 6917      6           2 06:00:00      Wed
## 218       1          30 06:15:00      Wed
## 1558      2          32 06:15:00      Wed
## 2898      3         101 06:15:00      Wed
## 4238      4          31 06:15:00      Wed
## 5578      5          22 06:15:00      Wed
## 6918      6           2 06:15:00      Wed
## 219       1          30 06:30:00      Wed
## 1559      2          32 06:30:00      Wed
## 2899      3         101 06:30:00      Wed
## 4239      4          31 06:30:00      Wed
## 5579      5          20 06:30:00      Wed
## 6919      6           2 06:30:00      Wed
## 220       1          28 06:45:00      Wed
## 1560      2          32 06:45:00      Wed
## 2900      3          99 06:45:00      Wed
## 4240      4          29 06:45:00      Wed
## 5580      5          20 06:45:00      Wed
## 6920      6           2 06:45:00      Wed
## 221       1          28 07:00:00      Wed
## 1561      2          32 07:00:00      Wed
## 2901      3          95 07:00:00      Wed
## 4241      4          29 07:00:00      Wed
## 5581      5          22 07:00:00      Wed
## 6921      6           2 07:00:00      Wed
## 222       1          30 07:15:00      Wed
## 1562      2          30 07:15:00      Wed
## 2902      3          91 07:15:00      Wed
## 4242      4          23 07:15:00      Wed
## 5582      5          22 07:15:00      Wed
## 6922      6           4 07:15:00      Wed
## 223       1          31 07:30:00      Wed
## 1563      2          32 07:30:00      Wed
## 2903      3          79 07:30:00      Wed
## 4243      4          21 07:30:00      Wed
## 5583      5          20 07:30:00      Wed
## 6923      6           4 07:30:00      Wed
## 224       1          32 07:45:00      Wed
## 1564      2          33 07:45:00      Wed
## 2904      3          65 07:45:00      Wed
## 4244      4          23 07:45:00      Wed
## 5584      5          18 07:45:00      Wed
## 6924      6           5 07:45:00      Wed
## 225       1          32 08:00:00      Wed
## 1565      2          24 08:00:00      Wed
```

```
## 2905    3           58 08:00:00      Wed
## 4245    4           19 08:00:00      Wed
## 5585    5           15 08:00:00      Wed
## 6925    6            3 08:00:00      Wed
## 226     1           29 08:15:00      Wed
## 1566    2           20 08:15:00      Wed
## 2906    3           51 08:15:00      Wed
## 4246    4           11 08:15:00      Wed
## 5586    5           17 08:15:00      Wed
## 6926    6            6 08:15:00      Wed
## 227     1           28 08:30:00      Wed
## 1567    2           19 08:30:00      Wed
## 2907    3           40 08:30:00      Wed
## 4247    4            8 08:30:00      Wed
## 5587    5           13 08:30:00      Wed
## 6927    6           11 08:30:00      Wed
## 228     1           26 08:45:00      Wed
## 1568    2           18 08:45:00      Wed
## 2908    3           31 08:45:00      Wed
## 4248    4           10 08:45:00      Wed
## 5588    5           13 08:45:00      Wed
## 6928    6           11 08:45:00      Wed
## 229     1           25 09:00:00      Wed
## 1569    2           15 09:00:00      Wed
## 2909    3           24 09:00:00      Wed
## 4249    4            7 09:00:00      Wed
## 5589    5            7 09:00:00      Wed
## 6929    6           11 09:00:00      Wed
## 230     1           24 09:15:00      Wed
## 1570    2           13 09:15:00      Wed
## 2910    3           19 09:15:00      Wed
## 4250    4            5 09:15:00      Wed
## 5590    5            7 09:15:00      Wed
## 6930    6           13 09:15:00      Wed
## 231     1           27 09:30:00      Wed
## 1571    2           12 09:30:00      Wed
## 2911    3           15 09:30:00      Wed
## 4251    4            3 09:30:00      Wed
## 5591    5            7 09:30:00      Wed
## 6931    6           13 09:30:00      Wed
## 232     1           17 09:45:00      Wed
## 1572    2           14 09:45:00      Wed
## 2912    3           14 09:45:00      Wed
## 4252    4            4 09:45:00      Wed
## 5592    5            3 09:45:00      Wed
## 6932    6           13 09:45:00      Wed
## 233     1           19 10:00:00      Wed
## 1573    2           13 10:00:00      Wed
## 2913    3           17 10:00:00      Wed
## 4253    4            2 10:00:00      Wed
## 5593    5            1 10:00:00      Wed
## 6933    6           11 10:00:00      Wed
## 234     1           22 10:15:00      Wed
## 1574    2           14 10:15:00      Wed
```

```
## 2914    3          18 10:15:00      Wed
## 4254    4           2 10:15:00      Wed
## 5594    5           1 10:15:00      Wed
## 6934    6          11 10:15:00      Wed
## 235     1          18 10:30:00      Wed
## 1575    2          13 10:30:00      Wed
## 2915    3          15 10:30:00      Wed
## 4255    4           2 10:30:00      Wed
## 5595    5           3 10:30:00      Wed
## 6935    6          12 10:30:00      Wed
## 236     1          18 10:45:00      Wed
## 1576    2          10 10:45:00      Wed
## 2916    3          11 10:45:00      Wed
## 4256    4           1 10:45:00      Wed
## 5596    5           3 10:45:00      Wed
## 6936    6          12 10:45:00      Wed
## 237     1          18 11:00:00      Wed
## 1577    2           9 11:00:00      Wed
## 2917    3          10 11:00:00      Wed
## 4257    4           2 11:00:00      Wed
## 5597    5           3 11:00:00      Wed
## 6937    6          12 11:00:00      Wed
## 238     1          16 11:15:00      Wed
## 1578    2           9 11:15:00      Wed
## 2918    3          12 11:15:00      Wed
## 4258    4           2 11:15:00      Wed
## 5598    5           2 11:15:00      Wed
## 6938    6          12 11:15:00      Wed
## 239     1          20 11:30:00      Wed
## 1579    2          11 11:30:00      Wed
## 2919    3           8 11:30:00      Wed
## 4259    4           3 11:30:00      Wed
## 5599    5           2 11:30:00      Wed
## 6939    6          12 11:30:00      Wed
## 240     1          20 11:45:00      Wed
## 1580    2          11 11:45:00      Wed
## 2920    3          10 11:45:00      Wed
## 4260    4           6 11:45:00      Wed
## 5600    5           2 11:45:00      Wed
## 6940    6          12 11:45:00      Wed
## 241     1          17 12:00:00      Wed
## 1581    2           9 12:00:00      Wed
## 2921    3          10 12:00:00      Wed
## 4261    4           6 12:00:00      Wed
## 5601    5           4 12:00:00      Wed
## 6941    6          12 12:00:00      Wed
## 242     1          13 12:15:00      Wed
## 1582    2           9 12:15:00      Wed
## 2922    3           8 12:15:00      Wed
## 4262    4           4 12:15:00      Wed
## 5602    5           4 12:15:00      Wed
## 6942    6          13 12:15:00      Wed
## 243     1          14 12:30:00      Wed
## 1583    2           8 12:30:00      Wed
```

```
## 2923    3         8 12:30:00    Wed
## 4263    4         6 12:30:00    Wed
## 5603    5         4 12:30:00    Wed
## 6943    6         9 12:30:00    Wed
## 244     1        12 12:45:00    Wed
## 1584    2         9 12:45:00    Wed
## 2924    3         9 12:45:00    Wed
## 4264    4         5 12:45:00    Wed
## 5604    5         4 12:45:00    Wed
## 6944    6         5 12:45:00    Wed
## 245     1        12 13:00:00    Wed
## 1585    2         9 13:00:00    Wed
## 2925    3         8 13:00:00    Wed
## 4265    4         1 13:00:00    Wed
## 5605    5         4 13:00:00    Wed
## 6945    6         6 13:00:00    Wed
## 246     1        15 13:15:00    Wed
## 1586    2         7 13:15:00    Wed
## 2926    3        10 13:15:00    Wed
## 4266    4         1 13:15:00    Wed
## 5606    5         4 13:15:00    Wed
## 6946    6         5 13:15:00    Wed
## 247     1        10 13:30:00    Wed
## 1587    2         8 13:30:00    Wed
## 2927    3        12 13:30:00    Wed
## 4267    4         2 13:30:00    Wed
## 5607    5         5 13:30:00    Wed
## 6947    6         7 13:30:00    Wed
## 248     1        10 13:45:00    Wed
## 1588    2         7 13:45:00    Wed
## 2928    3        11 13:45:00    Wed
## 4268    4         3 13:45:00    Wed
## 5608    5         5 13:45:00    Wed
## 6948    6         7 13:45:00    Wed
## 249     1         7 14:00:00    Wed
## 1589    2         6 14:00:00    Wed
## 2929    3        13 14:00:00    Wed
## 4269    4         9 14:00:00    Wed
## 5609    5         4 14:00:00    Wed
## 6949    6         3 14:00:00    Wed
## 250     1        13 14:15:00    Wed
## 1590    2         5 14:15:00    Wed
## 2930    3        16 14:15:00    Wed
## 4270    4         8 14:15:00    Wed
## 5610    5         4 14:15:00    Wed
## 6950    6         4 14:15:00    Wed
## 251     1        14 14:30:00    Wed
## 1591    2         5 14:30:00    Wed
## 2931    3        13 14:30:00    Wed
## 4271    4         6 14:30:00    Wed
## 5611    5         4 14:30:00    Wed
## 6951    6         3 14:30:00    Wed
## 252     1         9 14:45:00    Wed
## 1592    2         5 14:45:00    Wed
```

```
## 2932     3             13 14:45:00      Wed
## 4272     4              9 14:45:00      Wed
## 5612     5              2 14:45:00      Wed
## 6952     6              2 14:45:00      Wed
## 253      1              9 15:00:00      Wed
## 1593     2              5 15:00:00      Wed
## 2933     3             12 15:00:00      Wed
## 4273     4              4 15:00:00      Wed
## 5613     5              3 15:00:00      Wed
## 6953     6              4 15:00:00      Wed
## 254      1              5 15:15:00      Wed
## 1594     2              8 15:15:00      Wed
## 2934     3             12 15:15:00      Wed
## 4274     4              2 15:15:00      Wed
## 5614     5              3 15:15:00      Wed
## 6954     6              2 15:15:00      Wed
## 255      1              7 15:30:00      Wed
## 1595     2             10 15:30:00      Wed
## 2935     3             11 15:30:00      Wed
## 4275     4              2 15:30:00      Wed
## 5615     5              2 15:30:00      Wed
## 6955     6              4 15:30:00      Wed
## 256      1              4 15:45:00      Wed
## 1596     2             10 15:45:00      Wed
## 2936     3             12 15:45:00      Wed
## 4276     4              1 15:45:00      Wed
## 5616     5              2 15:45:00      Wed
## 6956     6              2 15:45:00      Wed
## 257      1              4 16:00:00      Wed
## 1597     2              9 16:00:00      Wed
## 2937     3              7 16:00:00      Wed
## 4277     4              2 16:00:00      Wed
## 5617     5              3 16:00:00      Wed
## 6957     6              1 16:00:00      Wed
## 258      1              1 16:15:00      Wed
## 1598     2             11 16:15:00      Wed
## 2938     3              5 16:15:00      Wed
## 4278     4              2 16:15:00      Wed
## 5618     5              3 16:15:00      Wed
## 6958     6              1 16:15:00      Wed
## 259      1              0 16:30:00      Wed
## 1599     2              7 16:30:00      Wed
## 2939     3              7 16:30:00      Wed
## 4279     4              1 16:30:00      Wed
## 5619     5              2 16:30:00      Wed
## 6959     6              5 16:30:00      Wed
## 260      1              2 16:45:00      Wed
## 1600     2              8 16:45:00      Wed
## 2940     3              5 16:45:00      Wed
## 4280     4              4 16:45:00      Wed
## 5620     5              2 16:45:00      Wed
## 6960     6              4 16:45:00      Wed
## 261      1              7 17:00:00      Wed
## 1601     2              7 17:00:00      Wed
```

```
## 2941      3             10 17:00:00      Wed
## 4281      4              5 17:00:00      Wed
## 5621      5              3 17:00:00      Wed
## 6961      6              5 17:00:00      Wed
## 262       1              4 17:15:00      Wed
## 1602      2              7 17:15:00      Wed
## 2942      3             17 17:15:00      Wed
## 4282      4              5 17:15:00      Wed
## 5622      5              2 17:15:00      Wed
## 6962      6              9 17:15:00      Wed
## 263       1             10 17:30:00      Wed
## 1603      2              5 17:30:00      Wed
## 2943      3             18 17:30:00      Wed
## 4283      4              8 17:30:00      Wed
## 5623      5              2 17:30:00      Wed
## 6963      6              9 17:30:00      Wed
## 264       1              0 17:45:00      Wed
## 1604      2              2 17:45:00      Wed
## 2944      3             15 17:45:00      Wed
## 4284      4              7 17:45:00      Wed
## 5624      5              6 17:45:00      Wed
## 6964      6              9 17:45:00      Wed
## 265       1              1 18:00:00      Wed
## 1605      2              7 18:00:00      Wed
## 2945      3             22 18:00:00      Wed
## 4285      4              8 18:00:00      Wed
## 5625      5              4 18:00:00      Wed
## 6965      6              9 18:00:00      Wed
## 266       1              3 18:15:00      Wed
## 1606      2              1 18:15:00      Wed
## 2946      3             23 18:15:00      Wed
## 4286      4              8 18:15:00      Wed
## 5626      5              4 18:15:00      Wed
## 6966      6             14 18:15:00      Wed
## 267       1              9 18:30:00      Wed
## 1607      2              2 18:30:00      Wed
## 2947      3             31 18:30:00      Wed
## 4287      4             17 18:30:00      Wed
## 5627      5              2 18:30:00      Wed
## 6967      6             11 18:30:00      Wed
## 268       1             10 18:45:00      Wed
## 1608      2              5 18:45:00      Wed
## 2948      3             34 18:45:00      Wed
## 4288      4             11 18:45:00      Wed
## 5628      5              0 18:45:00      Wed
## 6968      6             13 18:45:00      Wed
## 269       1             13 19:00:00      Wed
## 1609      2              5 19:00:00      Wed
## 2949      3             39 19:00:00      Wed
## 4289      4             11 19:00:00      Wed
## 5629      5              2 19:00:00      Wed
## 6969      6             13 19:00:00      Wed
## 270       1             13 19:15:00      Wed
## 1610      2              9 19:15:00      Wed
```

```
## 2950    3                33 19:15:00      Wed
## 4290    4                11 19:15:00      Wed
## 5630    5                 4 19:15:00      Wed
## 6970    6                 8 19:15:00      Wed
## 271     1                 5 19:30:00      Wed
## 1611    2                 9 19:30:00      Wed
## 2951    3                27 19:30:00      Wed
## 4291    4                10 19:30:00      Wed
## 5631    5                 9 19:30:00      Wed
## 6971    6                 7 19:30:00      Wed
## 272     1                 5 19:45:00      Wed
## 1612    2                 3 19:45:00      Wed
## 2952    3                35 19:45:00      Wed
## 4292    4                 8 19:45:00      Wed
## 5632    5                 8 19:45:00      Wed
## 6972    6                 6 19:45:00      Wed
## 273     1                 0 20:00:00      Wed
## 1613    2                 4 20:00:00      Wed
## 2953    3                39 20:00:00      Wed
## 4293    4                 6 20:00:00      Wed
## 5633    5                 5 20:00:00      Wed
## 6973    6                 7 20:00:00      Wed
## 274     1                 1 20:15:00      Wed
## 1614    2                 4 20:15:00      Wed
## 2954    3                38 20:15:00      Wed
## 4294    4                 9 20:15:00      Wed
## 5634    5                11 20:15:00      Wed
## 6974    6                 5 20:15:00      Wed
## 275     1                 1 20:30:00      Wed
## 1615    2                 2 20:30:00      Wed
## 2955    3                46 20:30:00      Wed
## 4295    4                 6 20:30:00      Wed
## 5635    5                 7 20:30:00      Wed
## 6975    6                 5 20:30:00      Wed
## 276     1                 2 20:45:00      Wed
## 1616    2                 4 20:45:00      Wed
## 2956    3                42 20:45:00      Wed
## 4296    4                 7 20:45:00      Wed
## 5636    5                 5 20:45:00      Wed
## 6976    6                 4 20:45:00      Wed
## 277     1                 3 21:00:00      Wed
## 1617    2                 6 21:00:00      Wed
## 2957    3                52 21:00:00      Wed
## 4297    4                 7 21:00:00      Wed
## 5637    5                 9 21:00:00      Wed
## 6977    6                 2 21:00:00      Wed
## 278     1                 6 21:15:00      Wed
## 1618    2                10 21:15:00      Wed
## 2958    3                64 21:15:00      Wed
## 4298    4                11 21:15:00      Wed
## 5638    5                 9 21:15:00      Wed
## 6978    6                 1 21:15:00      Wed
## 279     1                 5 21:30:00      Wed
## 1619    2                10 21:30:00      Wed
```

```
## 2959    3                62 21:30:00        Wed
## 4299    4                11 21:30:00        Wed
## 5639    5                14 21:30:00        Wed
## 6979    6                 1 21:30:00        Wed
## 280     1                 9 21:45:00        Wed
## 1620    2                11 21:45:00        Wed
## 2960    3                68 21:45:00        Wed
## 4300    4                14 21:45:00        Wed
## 5640    5                25 21:45:00        Wed
## 6980    6                 1 21:45:00        Wed
## 281     1                 9 22:00:00        Wed
## 1621    2                11 22:00:00        Wed
## 2961    3                68 22:00:00        Wed
## 4301    4                19 22:00:00        Wed
## 5641    5                20 22:00:00        Wed
## 6981    6                 1 22:00:00        Wed
## 282     1                 7 22:15:00        Wed
## 1622    2                11 22:15:00        Wed
## 2962    3                75 22:15:00        Wed
## 4302    4                16 22:15:00        Wed
## 5642    5                25 22:15:00        Wed
## 6982    6                 1 22:15:00        Wed
## 283     1                 5 22:30:00        Wed
## 1623    2                13 22:30:00        Wed
## 2963    3                76 22:30:00        Wed
## 4303    4                18 22:30:00        Wed
## 5643    5                24 22:30:00        Wed
## 6983    6                 1 22:30:00        Wed
## 284     1                 5 22:45:00        Wed
## 1624    2                18 22:45:00        Wed
## 2964    3                82 22:45:00        Wed
## 4304    4                21 22:45:00        Wed
## 5644    5                24 22:45:00        Wed
## 6984    6                 1 22:45:00        Wed
## 285     1                 9 23:00:00        Wed
## 1625    2                18 23:00:00        Wed
## 2965    3                82 23:00:00        Wed
## 4305    4                20 23:00:00        Wed
## 5645    5                22 23:00:00        Wed
## 6985    6                 5 23:00:00        Wed
## 286     1                 7 23:15:00        Wed
## 1626    2                22 23:15:00        Wed
## 2966    3                86 23:15:00        Wed
## 4306    4                24 23:15:00        Wed
## 5646    5                17 23:15:00        Wed
## 6986    6                 3 23:15:00        Wed
## 287     1                 8 23:30:00        Wed
## 1627    2                24 23:30:00        Wed
## 2967    3                90 23:30:00        Wed
## 4307    4                24 23:30:00        Wed
## 5647    5                11 23:30:00        Wed
## 6987    6                 1 23:30:00        Wed
## 288     1                 8 23:45:00        Wed
## 1628    2                22 23:45:00        Wed
```

```
## 2968      3          92 23:45:00      Wed
## 4308      4          22 23:45:00      Wed
## 5648      5          11 23:45:00      Wed
## 6988      6           1 23:45:00      Wed
## 289       1           8 00:00:00      Thu
## 1629      2          28 00:00:00      Thu
## 2969      3          96 00:00:00      Thu
## 4309      4          23 00:00:00      Thu
## 5649      5          12 00:00:00      Thu
## 6989      6           1 00:00:00      Thu
## 290       1          10 00:15:00      Thu
## 1630      2          30 00:15:00      Thu
## 2970      3         105 00:15:00      Thu
## 4310      4          23 00:15:00      Thu
## 5650      5          13 00:15:00      Thu
## 6990      6           1 00:15:00      Thu
## 291       1          10 00:30:00      Thu
## 1631      2          32 00:30:00      Thu
## 2971      3         105 00:30:00      Thu
## 4311      4          23 00:30:00      Thu
## 5651      5          11 00:30:00      Thu
## 6991      6           1 00:30:00      Thu
## 292       1          10 00:45:00      Thu
## 1632      2          36 00:45:00      Thu
## 2972      3         107 00:45:00      Thu
## 4312      4          25 00:45:00      Thu
## 5652      5          15 00:45:00      Thu
## 6992      6           1 00:45:00      Thu
## 293       1          12 01:00:00      Thu
## 1633      2          36 01:00:00      Thu
## 2973      3         109 01:00:00      Thu
## 4313      4          25 01:00:00      Thu
## 5653      5          15 01:00:00      Thu
## 6993      6           1 01:00:00      Thu
## 294       1          14 01:15:00      Thu
## 1634      2          36 01:15:00      Thu
## 2974      3         113 01:15:00      Thu
## 4314      4          25 01:15:00      Thu
## 5654      5          15 01:15:00      Thu
## 6994      6           1 01:15:00      Thu
## 295       1          14 01:30:00      Thu
## 1635      2          36 01:30:00      Thu
## 2975      3         115 01:30:00      Thu
## 4315      4          25 01:30:00      Thu
## 5655      5          15 01:30:00      Thu
## 6995      6           1 01:30:00      Thu
## 296       1          14 01:45:00      Thu
## 1636      2          38 01:45:00      Thu
## 2976      3         115 01:45:00      Thu
## 4316      4          25 01:45:00      Thu
## 5656      5          15 01:45:00      Thu
## 6996      6           1 01:45:00      Thu
## 297       1          14 02:00:00      Thu
## 1637      2          38 02:00:00      Thu
```

```
## 2977    3         116 02:00:00     Thu
## 4317    4          25 02:00:00     Thu
## 5657    5          15 02:00:00     Thu
## 6997    6           1 02:00:00     Thu
## 298     1          14 02:15:00     Thu
## 1638    2          38 02:15:00     Thu
## 2978    3         116 02:15:00     Thu
## 4318    4          25 02:15:00     Thu
## 5658    5          15 02:15:00     Thu
## 6998    6           3 02:15:00     Thu
## 299     1          14 02:30:00     Thu
## 1639    2          38 02:30:00     Thu
## 2979    3         116 02:30:00     Thu
## 4319    4          25 02:30:00     Thu
## 5659    5          21 02:30:00     Thu
## 6999    6           3 02:30:00     Thu
## 300     1          14 02:45:00     Thu
## 1640    2          38 02:45:00     Thu
## 2980    3         114 02:45:00     Thu
## 4320    4          25 02:45:00     Thu
## 5660    5          21 02:45:00     Thu
## 7000    6           3 02:45:00     Thu
## 301     1          14 03:00:00     Thu
## 1641    2          38 03:00:00     Thu
## 2981    3         114 03:00:00     Thu
## 4321    4          25 03:00:00     Thu
## 5661    5          21 03:00:00     Thu
## 7001    6           3 03:00:00     Thu
## 302     1          14 03:15:00     Thu
## 1642    2          36 03:15:00     Thu
## 2982    3         116 03:15:00     Thu
## 4322    4          29 03:15:00     Thu
## 5662    5          21 03:15:00     Thu
## 7002    6           3 03:15:00     Thu
## 303     1          14 03:30:00     Thu
## 1643    2          36 03:30:00     Thu
## 2983    3         117 03:30:00     Thu
## 4323    4          31 03:30:00     Thu
## 5663    5          21 03:30:00     Thu
## 7003    6           3 03:30:00     Thu
## 304     1          14 03:45:00     Thu
## 1644    2          38 03:45:00     Thu
## 2984    3         117 03:45:00     Thu
## 4324    4          31 03:45:00     Thu
## 5664    5          21 03:45:00     Thu
## 7004    6           3 03:45:00     Thu
## 305     1          14 04:00:00     Thu
## 1645    2          36 04:00:00     Thu
## 2985    3         117 04:00:00     Thu
## 4325    4          31 04:00:00     Thu
## 5665    5          21 04:00:00     Thu
## 7005    6           3 04:00:00     Thu
## 306     1          14 04:15:00     Thu
## 1646    2          36 04:15:00     Thu
```

```
## 2986   3     115 04:15:00     Thu
## 4326   4      31 04:15:00     Thu
## 5666   5      21 04:15:00     Thu
## 7006   6       3 04:15:00     Thu
## 307    1      14 04:30:00     Thu
## 1647   2      36 04:30:00     Thu
## 2987   3     115 04:30:00     Thu
## 4327   4      31 04:30:00     Thu
## 5667   5      21 04:30:00     Thu
## 7007   6       3 04:30:00     Thu
## 308    1      14 04:45:00     Thu
## 1648   2      36 04:45:00     Thu
## 2988   3     115 04:45:00     Thu
## 4328   4      31 04:45:00     Thu
## 5668   5      21 04:45:00     Thu
## 7008   6       3 04:45:00     Thu
## 309    1      14 05:00:00     Thu
## 1649   2      36 05:00:00     Thu
## 2989   3     113 05:00:00     Thu
## 4329   4      31 05:00:00     Thu
## 5669   5      21 05:00:00     Thu
## 7009   6       3 05:00:00     Thu
## 310    1      12 05:15:00     Thu
## 1650   2      36 05:15:00     Thu
## 2990   3     113 05:15:00     Thu
## 4330   4      31 05:15:00     Thu
## 5670   5      22 05:15:00     Thu
## 7010   6       5 05:15:00     Thu
## 311    1      12 05:30:00     Thu
## 1651   2      36 05:30:00     Thu
## 2991   3     111 05:30:00     Thu
## 4331   4      31 05:30:00     Thu
## 5671   5      20 05:30:00     Thu
## 7011   6       3 05:30:00     Thu
## 312    1      12 05:45:00     Thu
## 1652   2      36 05:45:00     Thu
## 2992   3     107 05:45:00     Thu
## 4332   4      30 05:45:00     Thu
## 5672   5      20 05:45:00     Thu
## 7012   6       3 05:45:00     Thu
## 313    1      14 06:00:00     Thu
## 1653   2      36 06:00:00     Thu
## 2993   3     110 06:00:00     Thu
## 4333   4      30 06:00:00     Thu
## 5673   5      18 06:00:00     Thu
## 7013   6       3 06:00:00     Thu
## 314    1      13 06:15:00     Thu
## 1654   2      34 06:15:00     Thu
## 2994   3     108 06:15:00     Thu
## 4334   4      26 06:15:00     Thu
## 5674   5      18 06:15:00     Thu
## 7014   6       3 06:15:00     Thu
## 315    1      11 06:30:00     Thu
## 1655   2      32 06:30:00     Thu
```

```
## 2995    3        114 06:30:00    Thu
## 4335    4         23 06:30:00    Thu
## 5675    5         16 06:30:00    Thu
## 7015    6          3 06:30:00    Thu
## 316     1          5 06:45:00    Thu
## 1656    2         34 06:45:00    Thu
## 2996    3        114 06:45:00    Thu
## 4336    4         21 06:45:00    Thu
## 5676    5         16 06:45:00    Thu
## 7016    6          3 06:45:00    Thu
## 317     1          5 07:00:00    Thu
## 1657    2         32 07:00:00    Thu
## 2997    3        108 07:00:00    Thu
## 4337    4         19 07:00:00    Thu
## 5677    5         16 07:00:00    Thu
## 7017    6          3 07:00:00    Thu
## 318     1          6 07:15:00    Thu
## 1658    2         31 07:15:00    Thu
## 2998    3         97 07:15:00    Thu
## 4338    4         20 07:15:00    Thu
## 5678    5         16 07:15:00    Thu
## 7018    6          3 07:15:00    Thu
## 319     1          2 07:30:00    Thu
## 1659    2         29 07:30:00    Thu
## 2999    3         94 07:30:00    Thu
## 4339    4         14 07:30:00    Thu
## 5679    5         18 07:30:00    Thu
## 7019    6          3 07:30:00    Thu
## 320     1          6 07:45:00    Thu
## 1660    2         23 07:45:00    Thu
## 3000    3         84 07:45:00    Thu
## 4340    4         11 07:45:00    Thu
## 5680    5         20 07:45:00    Thu
## 7020    6          4 07:45:00    Thu
## 321     1          4 08:00:00    Thu
## 1661    2         17 08:00:00    Thu
## 3001    3         63 08:00:00    Thu
## 4341    4          8 08:00:00    Thu
## 5681    5         16 08:00:00    Thu
## 7021    6          4 08:00:00    Thu
## 322     1          4 08:15:00    Thu
## 1662    2         13 08:15:00    Thu
## 3002    3         56 08:15:00    Thu
## 4342    4          4 08:15:00    Thu
## 5682    5         13 08:15:00    Thu
## 7022    6          6 08:15:00    Thu
## 323     1         10 08:30:00    Thu
## 1663    2         10 08:30:00    Thu
## 3003    3         48 08:30:00    Thu
## 4343    4          3 08:30:00    Thu
## 5683    5         10 08:30:00    Thu
## 7023    6          4 08:30:00    Thu
## 324     1         20 08:45:00    Thu
## 1664    2          8 08:45:00    Thu
```

```
## 3004     3          32 08:45:00      Thu
## 4344     4           4 08:45:00      Thu
## 5684     5          10 08:45:00      Thu
## 7024     6           4 08:45:00      Thu
## 325      1          19 09:00:00      Thu
## 1665     2           6 09:00:00      Thu
## 3005     3          19 09:00:00      Thu
## 4345     4           5 09:00:00      Thu
## 5685     5           9 09:00:00      Thu
## 7025     6           1 09:00:00      Thu
## 326      1          12 09:15:00      Thu
## 1666     2           5 09:15:00      Thu
## 3006     3          20 09:15:00      Thu
## 4346     4           6 09:15:00      Thu
## 5686     5          10 09:15:00      Thu
## 7026     6           1 09:15:00      Thu
## 327      1          10 09:30:00      Thu
## 1667     2           3 09:30:00      Thu
## 3007     3          23 09:30:00      Thu
## 4347     4           4 09:30:00      Thu
## 5687     5           8 09:30:00      Thu
## 7027     6           2 09:30:00      Thu
## 328      1           8 09:45:00      Thu
## 1668     2           0 09:45:00      Thu
## 3008     3          23 09:45:00      Thu
## 4348     4           4 09:45:00      Thu
## 5688     5           8 09:45:00      Thu
## 7028     6           2 09:45:00      Thu
## 329      1           4 10:00:00      Thu
## 1669     2           1 10:00:00      Thu
## 3009     3          16 10:00:00      Thu
## 4349     4           8 10:00:00      Thu
## 5689     5           8 10:00:00      Thu
## 7029     6           2 10:00:00      Thu
## 330      1           3 10:15:00      Thu
## 1670     2           1 10:15:00      Thu
## 3010     3          14 10:15:00      Thu
## 4350     4           4 10:15:00      Thu
## 5690     5           8 10:15:00      Thu
## 7030     6           3 10:15:00      Thu
## 331      1           2 10:30:00      Thu
## 1671     2           1 10:30:00      Thu
## 3011     3          15 10:30:00      Thu
## 4351     4           3 10:30:00      Thu
## 5691     5           5 10:30:00      Thu
## 7031     6           3 10:30:00      Thu
## 332      1           1 10:45:00      Thu
## 1672     2           0 10:45:00      Thu
## 3012     3          13 10:45:00      Thu
## 4352     4           1 10:45:00      Thu
## 5692     5           4 10:45:00      Thu
## 7032     6           3 10:45:00      Thu
## 333      1           3 11:00:00      Thu
## 1673     2           0 11:00:00      Thu
```

```
## 3013    3           6 11:00:00    Thu
## 4353    4           1 11:00:00    Thu
## 5693    5           2 11:00:00    Thu
## 7033    6           7 11:00:00    Thu
## 334     1           2 11:15:00    Thu
## 1674    2           0 11:15:00    Thu
## 3014    3           9 11:15:00    Thu
## 4354    4           1 11:15:00    Thu
## 5694    5           5 11:15:00    Thu
## 7034    6           7 11:15:00    Thu
## 335     1           3 11:30:00    Thu
## 1675    2           0 11:30:00    Thu
## 3015    3           8 11:30:00    Thu
## 4355    4           3 11:30:00    Thu
## 5695    5           3 11:30:00    Thu
## 7035    6           6 11:30:00    Thu
## 336     1           3 11:45:00    Thu
## 1676    2           0 11:45:00    Thu
## 3016    3           4 11:45:00    Thu
## 4356    4           2 11:45:00    Thu
## 5696    5           5 11:45:00    Thu
## 7036    6           6 11:45:00    Thu
## 337     1           4 12:00:00    Thu
## 1677    2           0 12:00:00    Thu
## 3017    3           3 12:00:00    Thu
## 4357    4           1 12:00:00    Thu
## 5697    5           1 12:00:00    Thu
## 7037    6           8 12:00:00    Thu
## 338     1           9 12:15:00    Thu
## 1678    2           2 12:15:00    Thu
## 3018    3           8 12:15:00    Thu
## 4358    4           4 12:15:00    Thu
## 5698    5           1 12:15:00    Thu
## 7038    6           6 12:15:00    Thu
## 339     1           4 12:30:00    Thu
## 1679    2           0 12:30:00    Thu
## 3019    3           6 12:30:00    Thu
## 4359    4           2 12:30:00    Thu
## 5699    5           1 12:30:00    Thu
## 7039    6           7 12:30:00    Thu
## 340     1           9 12:45:00    Thu
## 1680    2           1 12:45:00    Thu
## 3020    3           3 12:45:00    Thu
## 4360    4           4 12:45:00    Thu
## 5700    5           1 12:45:00    Thu
## 7040    6           8 12:45:00    Thu
## 341     1          11 13:00:00    Thu
## 1681    2           1 13:00:00    Thu
## 3021    3           7 13:00:00    Thu
## 4361    4           1 13:00:00    Thu
## 5701    5           1 13:00:00    Thu
## 7041    6           8 13:00:00    Thu
## 342     1           8 13:15:00    Thu
## 1682    2           1 13:15:00    Thu
```

```
## 3022     3            9 13:15:00     Thu
## 4362     4            1 13:15:00     Thu
## 5702     5            6 13:15:00     Thu
## 7042     6            8 13:15:00     Thu
## 343      1            2 13:30:00     Thu
## 1683     2            7 13:30:00     Thu
## 3023     3           10 13:30:00     Thu
## 4363     4            1 13:30:00     Thu
## 5703     5            5 13:30:00     Thu
## 7043     6            6 13:30:00     Thu
## 344      1            9 13:45:00     Thu
## 1684     2            7 13:45:00     Thu
## 3024     3           10 13:45:00     Thu
## 4364     4            1 13:45:00     Thu
## 5704     5            1 13:45:00     Thu
## 7044     6            6 13:45:00     Thu
## 345      1           12 14:00:00     Thu
## 1685     2            3 14:00:00     Thu
## 3025     3            7 14:00:00     Thu
## 4365     4            3 14:00:00     Thu
## 5705     5            1 14:00:00     Thu
## 7045     6            6 14:00:00     Thu
## 346      1           12 14:15:00     Thu
## 1686     2            7 14:15:00     Thu
## 3026     3            9 14:15:00     Thu
## 4366     4            5 14:15:00     Thu
## 5706     5            4 14:15:00     Thu
## 7046     6            7 14:15:00     Thu
## 347      1           10 14:30:00     Thu
## 1687     2            1 14:30:00     Thu
## 3027     3           11 14:30:00     Thu
## 4367     4            2 14:30:00     Thu
## 5707     5            4 14:30:00     Thu
## 7047     6            5 14:30:00     Thu
## 348      1            7 14:45:00     Thu
## 1688     2            1 14:45:00     Thu
## 3028     3           12 14:45:00     Thu
## 4368     4            3 14:45:00     Thu
## 5708     5            3 14:45:00     Thu
## 7048     6            5 14:45:00     Thu
## 349      1            7 15:00:00     Thu
## 1689     2            1 15:00:00     Thu
## 3029     3           10 15:00:00     Thu
## 4369     4            6 15:00:00     Thu
## 5709     5            1 15:00:00     Thu
## 7049     6            5 15:00:00     Thu
## 350      1           10 15:15:00     Thu
## 1690     2            1 15:15:00     Thu
## 3030     3           12 15:15:00     Thu
## 4370     4            6 15:15:00     Thu
## 5710     5            3 15:15:00     Thu
## 7050     6            7 15:15:00     Thu
## 351      1            9 15:30:00     Thu
## 1691     2            3 15:30:00     Thu
```

```
## 3031    3     9 15:30:00    Thu
## 4371    4     2 15:30:00    Thu
## 5711    5     3 15:30:00    Thu
## 7051    6     2 15:30:00    Thu
## 352     1     8 15:45:00    Thu
## 1692    2     7 15:45:00    Thu
## 3032    3    10 15:45:00    Thu
## 4372    4     2 15:45:00    Thu
## 5712    5     5 15:45:00    Thu
## 7052    6     2 15:45:00    Thu
## 353     1    10 16:00:00    Thu
## 1693    2     3 16:00:00    Thu
## 3033    3     8 16:00:00    Thu
## 4373    4     2 16:00:00    Thu
## 5713    5     5 16:00:00    Thu
## 7053    6     2 16:00:00    Thu
## 354     1     8 16:15:00    Thu
## 1694    2     1 16:15:00    Thu
## 3034    3     7 16:15:00    Thu
## 4374    4     3 16:15:00    Thu
## 5714    5     6 16:15:00    Thu
## 7054    6     5 16:15:00    Thu
## 355     1     7 16:30:00    Thu
## 1695    2     4 16:30:00    Thu
## 3035    3     7 16:30:00    Thu
## 4375    4     4 16:30:00    Thu
## 5715    5     4 16:30:00    Thu
## 7055    6     5 16:30:00    Thu
## 356     1     8 16:45:00    Thu
## 1696    2     2 16:45:00    Thu
## 3036    3     9 16:45:00    Thu
## 4376    4     3 16:45:00    Thu
## 5716    5     4 16:45:00    Thu
## 7056    6     8 16:45:00    Thu
## 357     1     9 17:00:00    Thu
## 1697    2     3 17:00:00    Thu
## 3037    3    10 17:00:00    Thu
## 4377    4     2 17:00:00    Thu
## 5717    5     4 17:00:00    Thu
## 7057    6     8 17:00:00    Thu
## 358     1     7 17:15:00    Thu
## 1698    2     1 17:15:00    Thu
## 3038    3    10 17:15:00    Thu
## 4378    4     4 17:15:00    Thu
## 5718    5     3 17:15:00    Thu
## 7058    6     5 17:15:00    Thu
## 359     1     6 17:30:00    Thu
## 1699    2     1 17:30:00    Thu
## 3039    3    13 17:30:00    Thu
## 4379    4     9 17:30:00    Thu
## 5719    5     3 17:30:00    Thu
## 7059    6     5 17:30:00    Thu
## 360     1     9 17:45:00    Thu
## 1700    2     3 17:45:00    Thu
```

```
## 3040   3          13 17:45:00      Thu
## 4380   4           5 17:45:00      Thu
## 5720   5           3 17:45:00      Thu
## 7060   6           4 17:45:00      Thu
## 361    1           3 18:00:00      Thu
## 1701   2           1 18:00:00      Thu
## 3041   3          12 18:00:00      Thu
## 4381   4           2 18:00:00      Thu
## 5721   5           3 18:00:00      Thu
## 7061   6           3 18:00:00      Thu
## 362    1           6 18:15:00      Thu
## 1702   2           1 18:15:00      Thu
## 3042   3          12 18:15:00      Thu
## 4382   4           4 18:15:00      Thu
## 5722   5           5 18:15:00      Thu
## 7062   6           3 18:15:00      Thu
## 363    1           4 18:30:00      Thu
## 1703   2           1 18:30:00      Thu
## 3043   3          10 18:30:00      Thu
## 4383   4           4 18:30:00      Thu
## 5723   5           5 18:30:00      Thu
## 7063   6           2 18:30:00      Thu
## 364    1           0 18:45:00      Thu
## 1704   2           0 18:45:00      Thu
## 3044   3          16 18:45:00      Thu
## 4384   4           8 18:45:00      Thu
## 5724   5           8 18:45:00      Thu
## 7064   6           2 18:45:00      Thu
## 365    1           6 19:00:00      Thu
## 1705   2           4 19:00:00      Thu
## 3045   3          18 19:00:00      Thu
## 4385   4           3 19:00:00      Thu
## 5725   5          13 19:00:00      Thu
## 7065   6           3 19:00:00      Thu
## 366    1           6 19:15:00      Thu
## 1706   2           6 19:15:00      Thu
## 3046   3          19 19:15:00      Thu
## 4386   4           5 19:15:00      Thu
## 5726   5          10 19:15:00      Thu
## 7066   6           3 19:15:00      Thu
## 367    1           2 19:30:00      Thu
## 1707   2           2 19:30:00      Thu
## 3047   3          23 19:30:00      Thu
## 4387   4           2 19:30:00      Thu
## 5727   5           8 19:30:00      Thu
## 7067   6           3 19:30:00      Thu
## 368    1           0 19:45:00      Thu
## 1708   2           7 19:45:00      Thu
## 3048   3          23 19:45:00      Thu
## 4388   4           3 19:45:00      Thu
## 5728   5           5 19:45:00      Thu
## 7068   6           2 19:45:00      Thu
## 369    1           4 20:00:00      Thu
## 1709   2           3 20:00:00      Thu
```

```
## 3049      3          24 20:00:00      Thu
## 4389      4           3 20:00:00      Thu
## 5729      5           7 20:00:00      Thu
## 7069      6           2 20:00:00      Thu
## 370       1           1 20:15:00      Thu
## 1710      2           6 20:15:00      Thu
## 3050      3          27 20:15:00      Thu
## 4390      4           4 20:15:00      Thu
## 5730      5           7 20:15:00      Thu
## 7070      6           2 20:15:00      Thu
## 371       1           2 20:30:00      Thu
## 1711      2           9 20:30:00      Thu
## 3051      3          41 20:30:00      Thu
## 4391      4           5 20:30:00      Thu
## 5731      5           4 20:30:00      Thu
## 7071      6           1 20:30:00      Thu
## 372       1           1 20:45:00      Thu
## 1712      2          10 20:45:00      Thu
## 3052      3          40 20:45:00      Thu
## 4392      4          13 20:45:00      Thu
## 5732      5           3 20:45:00      Thu
## 7072      6           1 20:45:00      Thu
## 373       1           1 21:00:00      Thu
## 1713      2           9 21:00:00      Thu
## 3053      3          40 21:00:00      Thu
## 4393      4           4 21:00:00      Thu
## 5733      5           3 21:00:00      Thu
## 7073      6           1 21:00:00      Thu
## 374       1           6 21:15:00      Thu
## 1714      2           7 21:15:00      Thu
## 3054      3          39 21:15:00      Thu
## 4394      4           4 21:15:00      Thu
## 5734      5           8 21:15:00      Thu
## 7074      6           1 21:15:00      Thu
## 375       1           8 21:30:00      Thu
## 1715      2           5 21:30:00      Thu
## 3055      3          46 21:30:00      Thu
## 4395      4           5 21:30:00      Thu
## 5735      5          10 21:30:00      Thu
## 7075      6           1 21:30:00      Thu
## 376       1           4 21:45:00      Thu
## 1716      2           7 21:45:00      Thu
## 3056      3          44 21:45:00      Thu
## 4396      4           8 21:45:00      Thu
## 5736      5          10 21:45:00      Thu
## 7076      6           1 21:45:00      Thu
## 377       1           3 22:00:00      Thu
## 1717      2           2 22:00:00      Thu
## 3057      3          47 22:00:00      Thu
## 4397      4          14 22:00:00      Thu
## 5737      5           7 22:00:00      Thu
## 7077      6           1 22:00:00      Thu
## 378       1           7 22:15:00      Thu
## 1718      2           5 22:15:00      Thu
```

```
## 3058      3            50 22:15:00     Thu
## 4398      4            17 22:15:00     Thu
## 5738      5            11 22:15:00     Thu
## 7078      6             1 22:15:00     Thu
## 379       1            12 22:30:00     Thu
## 1719      2             7 22:30:00     Thu
## 3059      3            51 22:30:00     Thu
## 4399      4            13 22:30:00     Thu
## 5739      5             9 22:30:00     Thu
## 7079      6             1 22:30:00     Thu
## 380       1            13 22:45:00     Thu
## 1720      2             3 22:45:00     Thu
## 3060      3            52 22:45:00     Thu
## 4400      4            15 22:45:00     Thu
## 5740      5             8 22:45:00     Thu
## 7080      6             1 22:45:00     Thu
## 381       1            10 23:00:00     Thu
## 1721      2             4 23:00:00     Thu
## 3061      3            57 23:00:00     Thu
## 4401      4            19 23:00:00     Thu
## 5741      5            10 23:00:00     Thu
## 7081      6             1 23:00:00     Thu
## 382       1            12 23:15:00     Thu
## 1722      2             6 23:15:00     Thu
## 3062      3            61 23:15:00     Thu
## 4402      4            19 23:15:00     Thu
## 5742      5             8 23:15:00     Thu
## 7082      6             3 23:15:00     Thu
## 383       1            11 23:30:00     Thu
## 1723      2             8 23:30:00     Thu
## 3063      3            59 23:30:00     Thu
## 4403      4            21 23:30:00     Thu
## 5743      5             8 23:30:00     Thu
## 7083      6             1 23:30:00     Thu
## 384       1            11 23:45:00     Thu
## 1724      2             8 23:45:00     Thu
## 3064      3            63 23:45:00     Thu
## 4404      4            23 23:45:00     Thu
## 5744      5             8 23:45:00     Thu
## 7084      6             1 23:45:00     Thu
## 385       1            21 00:00:00     Fri
## 1725      2            12 00:00:00     Fri
## 3065      3            64 00:00:00     Fri
## 4405      4            22 00:00:00     Fri
## 5745      5            10 00:00:00     Fri
## 7085      6             1 00:00:00     Fri
## 386       1            23 00:15:00     Fri
## 1726      2            22 00:15:00     Fri
## 3066      3            74 00:15:00     Fri
## 4406      4            30 00:15:00     Fri
## 5746      5            11 00:15:00     Fri
## 7086      6             1 00:15:00     Fri
## 387       1            23 00:30:00     Fri
## 1727      2            22 00:30:00     Fri
```

```
## 3067    3        80 00:30:00    Fri
## 4407    4        32 00:30:00    Fri
## 5747    5        13 00:30:00    Fri
## 7087    6         1 00:30:00    Fri
## 388     1        23 00:45:00    Fri
## 1728    2        26 00:45:00    Fri
## 3068    3        82 00:45:00    Fri
## 4408    4        32 00:45:00    Fri
## 5748    5        19 00:45:00    Fri
## 7088    6         1 00:45:00    Fri
## 389     1        24 01:00:00    Fri
## 1729    2        29 01:00:00    Fri
## 3069    3        82 01:00:00    Fri
## 4409    4        32 01:00:00    Fri
## 5749    5        19 01:00:00    Fri
## 7089    6         1 01:00:00    Fri
## 390     1        24 01:15:00    Fri
## 1730    2        31 01:15:00    Fri
## 3070    3        83 01:15:00    Fri
## 4410    4        36 01:15:00    Fri
## 5750    5        17 01:15:00    Fri
## 7090    6         1 01:15:00    Fri
## 391     1        24 01:30:00    Fri
## 1731    2        31 01:30:00    Fri
## 3071    3        83 01:30:00    Fri
## 4411    4        34 01:30:00    Fri
## 5751    5        19 01:30:00    Fri
## 7091    6         1 01:30:00    Fri
## 392     1        22 01:45:00    Fri
## 1732    2        31 01:45:00    Fri
## 3072    3        84 01:45:00    Fri
## 4412    4        34 01:45:00    Fri
## 5752    5        21 01:45:00    Fri
## 7092    6         1 01:45:00    Fri
## 393     1        22 02:00:00    Fri
## 1733    2        28 02:00:00    Fri
## 3073    3        84 02:00:00    Fri
## 4413    4        34 02:00:00    Fri
## 5753    5        19 02:00:00    Fri
## 7093    6         1 02:00:00    Fri
## 394     1        26 02:15:00    Fri
## 1734    2        26 02:15:00    Fri
## 3074    3        82 02:15:00    Fri
## 4414    4        34 02:15:00    Fri
## 5754    5        19 02:15:00    Fri
## 7094    6         1 02:15:00    Fri
## 395     1        26 02:30:00    Fri
## 1735    2        26 02:30:00    Fri
## 3075    3        82 02:30:00    Fri
## 4415    4        34 02:30:00    Fri
## 5755    5        19 02:30:00    Fri
## 7095    6         3 02:30:00    Fri
## 396     1        26 02:45:00    Fri
## 1736    2        26 02:45:00    Fri
```

```
## 3076      3              82 02:45:00      Fri
## 4416      4              34 02:45:00      Fri
## 5756      5              19 02:45:00      Fri
## 7096      6               5 02:45:00      Fri
## 397       1              26 03:00:00      Fri
## 1737      2              26 03:00:00      Fri
## 3077      3              80 03:00:00      Fri
## 4417      4              34 03:00:00      Fri
## 5757      5              17 03:00:00      Fri
## 7097      6               5 03:00:00      Fri
## 398       1              26 03:15:00      Fri
## 1738      2              27 03:15:00      Fri
## 3078      3              78 03:15:00      Fri
## 4418      4              34 03:15:00      Fri
## 5758      5              17 03:15:00      Fri
## 7098      6               5 03:15:00      Fri
## 399       1              26 03:30:00      Fri
## 1739      2              27 03:30:00      Fri
## 3079      3              79 03:30:00      Fri
## 4419      4              34 03:30:00      Fri
## 5759      5              17 03:30:00      Fri
## 7099      6               3 03:30:00      Fri
## 400       1              24 03:45:00      Fri
## 1740      2              27 03:45:00      Fri
## 3080      3              77 03:45:00      Fri
## 4420      4              34 03:45:00      Fri
## 5760      5              17 03:45:00      Fri
## 7100      6               1 03:45:00      Fri
## 401       1              26 04:00:00      Fri
## 1741      2              27 04:00:00      Fri
## 3081      3              79 04:00:00      Fri
## 4421      4              34 04:00:00      Fri
## 5761      5              17 04:00:00      Fri
## 7101      6               1 04:00:00      Fri
## 402       1              24 04:15:00      Fri
## 1742      2              27 04:15:00      Fri
## 3082      3              79 04:15:00      Fri
## 4422      4              34 04:15:00      Fri
## 5762      5              17 04:15:00      Fri
## 7102      6               1 04:15:00      Fri
## 403       1              24 04:30:00      Fri
## 1743      2              27 04:30:00      Fri
## 3083      3              77 04:30:00      Fri
## 4423      4              34 04:30:00      Fri
## 5763      5              17 04:30:00      Fri
## 7103      6               1 04:30:00      Fri
## 404       1              22 04:45:00      Fri
## 1744      2              27 04:45:00      Fri
## 3084      3              77 04:45:00      Fri
## 4424      4              34 04:45:00      Fri
## 5764      5              19 04:45:00      Fri
## 7104      6               1 04:45:00      Fri
## 405       1              21 05:00:00      Fri
## 1745      2              27 05:00:00      Fri
```

```
## 3085    3         77 05:00:00    Fri
## 4425    4         34 05:00:00    Fri
## 5765    5         19 05:00:00    Fri
## 7105    6          1 05:00:00    Fri
## 406     1         21 05:15:00    Fri
## 1746    2         27 05:15:00    Fri
## 3086    3         77 05:15:00    Fri
## 4426    4         34 05:15:00    Fri
## 5766    5         19 05:15:00    Fri
## 7106    6          1 05:15:00    Fri
## 407     1         21 05:30:00    Fri
## 1747    2         27 05:30:00    Fri
## 3087    3         77 05:30:00    Fri
## 4427    4         34 05:30:00    Fri
## 5767    5         19 05:30:00    Fri
## 7107    6          1 05:30:00    Fri
## 408     1         21 05:45:00    Fri
## 1748    2         27 05:45:00    Fri
## 3088    3         77 05:45:00    Fri
## 4428    4         34 05:45:00    Fri
## 5768    5         19 05:45:00    Fri
## 7108    6          3 05:45:00    Fri
## 409     1         19 06:00:00    Fri
## 1749    2         27 06:00:00    Fri
## 3089    3         77 06:00:00    Fri
## 4429    4         32 06:00:00    Fri
## 5769    5         19 06:00:00    Fri
## 7109    6          3 06:00:00    Fri
## 410     1         18 06:15:00    Fri
## 1750    2         27 06:15:00    Fri
## 3090    3         77 06:15:00    Fri
## 4430    4         32 06:15:00    Fri
## 5770    5         15 06:15:00    Fri
## 7110    6          3 06:15:00    Fri
## 411     1         14 06:30:00    Fri
## 1751    2         27 06:30:00    Fri
## 3091    3         77 06:30:00    Fri
## 4431    4         32 06:30:00    Fri
## 5771    5         13 06:30:00    Fri
## 7111    6          1 06:30:00    Fri
## 412     1         16 06:45:00    Fri
## 1752    2         27 06:45:00    Fri
## 3092    3         75 06:45:00    Fri
## 4432    4         30 06:45:00    Fri
## 5772    5         11 06:45:00    Fri
## 7112    6          1 06:45:00    Fri
## 413     1         16 07:00:00    Fri
## 1753    2         23 07:00:00    Fri
## 3093    3         72 07:00:00    Fri
## 4433    4         30 07:00:00    Fri
## 5773    5         11 07:00:00    Fri
## 7113    6          1 07:00:00    Fri
## 414     1         16 07:15:00    Fri
## 1754    2         24 07:15:00    Fri
```

```
## 3094    3         65 07:15:00      Fri
## 4434    4         30 07:15:00      Fri
## 5774    5         13 07:15:00      Fri
## 7114    6          1 07:15:00      Fri
## 415     1         26 07:30:00      Fri
## 1755    2         23 07:30:00      Fri
## 3095    3         60 07:30:00      Fri
## 4435    4         19 07:30:00      Fri
## 5775    5         13 07:30:00      Fri
## 7115    6          1 07:30:00      Fri
## 416     1         24 07:45:00      Fri
## 1756    2         17 07:45:00      Fri
## 3096    3         49 07:45:00      Fri
## 4436    4         16 07:45:00      Fri
## 5776    5         13 07:45:00      Fri
## 7116    6          1 07:45:00      Fri
## 417     1         20 08:00:00      Fri
## 1757    2         17 08:00:00      Fri
## 3097    3         53 08:00:00      Fri
## 4437    4          8 08:00:00      Fri
## 5777    5         11 08:00:00      Fri
## 7117    6          1 08:00:00      Fri
## 418     1         20 08:15:00      Fri
## 1758    2         12 08:15:00      Fri
## 3098    3         51 08:15:00      Fri
## 4438    4          6 08:15:00      Fri
## 5778    5         11 08:15:00      Fri
## 7118    6          1 08:15:00      Fri
## 419     1         24 08:30:00      Fri
## 1759    2         12 08:30:00      Fri
## 3099    3         39 08:30:00      Fri
## 4439    4          6 08:30:00      Fri
## 5779    5         11 08:30:00      Fri
## 7119    6          1 08:30:00      Fri
## 420     1         23 08:45:00      Fri
## 1760    2         10 08:45:00      Fri
## 3100    3         31 08:45:00      Fri
## 4440    4          9 08:45:00      Fri
## 5780    5         11 08:45:00      Fri
## 7120    6          4 08:45:00      Fri
## 421     1         19 09:00:00      Fri
## 1761    2          4 09:00:00      Fri
## 3101    3         32 09:00:00      Fri
## 4441    4          7 09:00:00      Fri
## 5781    5         11 09:00:00      Fri
## 7121    6          6 09:00:00      Fri
## 422     1         20 09:15:00      Fri
## 1762    2          4 09:15:00      Fri
## 3102    3         29 09:15:00      Fri
## 4442    4          7 09:15:00      Fri
## 5782    5          9 09:15:00      Fri
## 7122    6          5 09:15:00      Fri
## 423     1         12 09:30:00      Fri
## 1763    2          5 09:30:00      Fri
```

```
## 3103    3               30 09:30:00       Fri
## 4443    4                5 09:30:00       Fri
## 5783    5                9 09:30:00       Fri
## 7123    6                5 09:30:00       Fri
## 424     1               12 09:45:00       Fri
## 1764    2                1 09:45:00       Fri
## 3104    3               31 09:45:00       Fri
## 4444    4                7 09:45:00       Fri
## 5784    5                9 09:45:00       Fri
## 7124    6                5 09:45:00       Fri
## 425     1                5 10:00:00       Fri
## 1765    2                5 10:00:00       Fri
## 3105    3               28 10:00:00       Fri
## 4445    4                3 10:00:00       Fri
## 5785    5                8 10:00:00       Fri
## 7125    6                6 10:00:00       Fri
## 426     1                5 10:15:00       Fri
## 1766    2                5 10:15:00       Fri
## 3106    3               32 10:15:00       Fri
## 4446    4                4 10:15:00       Fri
## 5786    5                5 10:15:00       Fri
## 7126    6                7 10:15:00       Fri
## 427     1               10 10:30:00       Fri
## 1767    2                4 10:30:00       Fri
## 3107    3               30 10:30:00       Fri
## 4447    4                2 10:30:00       Fri
## 5787    5                4 10:30:00       Fri
## 7127    6                5 10:30:00       Fri
## 428     1               10 10:45:00       Fri
## 1768    2                4 10:45:00       Fri
## 3108    3               28 10:45:00       Fri
## 4448    4                1 10:45:00       Fri
## 5788    5                3 10:45:00       Fri
## 7128    6                5 10:45:00       Fri
## 429     1                8 11:00:00       Fri
## 1769    2                0 11:00:00       Fri
## 3109    3               31 11:00:00       Fri
## 4449    4                1 11:00:00       Fri
## 5789    5                3 11:00:00       Fri
## 7129    6                7 11:00:00       Fri
## 430     1                3 11:15:00       Fri
## 1770    2                3 11:15:00       Fri
## 3110    3               28 11:15:00       Fri
## 4450    4                4 11:15:00       Fri
## 5790    5                6 11:15:00       Fri
## 7130    6                8 11:15:00       Fri
## 431     1                3 11:30:00       Fri
## 1771    2                3 11:30:00       Fri
## 3111    3               27 11:30:00       Fri
## 4451    4                4 11:30:00       Fri
## 5791    5                3 11:30:00       Fri
## 7131    6                6 11:30:00       Fri
## 432     1                5 11:45:00       Fri
## 1772    2                0 11:45:00       Fri
```

```
## 3112    3         23 11:45:00    Fri
## 4452    4          2 11:45:00    Fri
## 5792    5          3 11:45:00    Fri
## 7132    6          6 11:45:00    Fri
## 433     1          8 12:00:00    Fri
## 1773    2          0 12:00:00    Fri
## 3113    3         24 12:00:00    Fri
## 4453    4          3 12:00:00    Fri
## 5793    5          3 12:00:00    Fri
## 7133    6          6 12:00:00    Fri
## 434     1          5 12:15:00    Fri
## 1774    2          0 12:15:00    Fri
## 3114    3         21 12:15:00    Fri
## 4454    4          1 12:15:00    Fri
## 5794    5          2 12:15:00    Fri
## 7134    6          4 12:15:00    Fri
## 435     1          5 12:30:00    Fri
## 1775    2          0 12:30:00    Fri
## 3115    3         23 12:30:00    Fri
## 4455    4          1 12:30:00    Fri
## 5795    5          2 12:30:00    Fri
## 7135    6          5 12:30:00    Fri
## 436     1          5 12:45:00    Fri
## 1776    2          4 12:45:00    Fri
## 3116    3         20 12:45:00    Fri
## 4456    4          4 12:45:00    Fri
## 5796    5          2 12:45:00    Fri
## 7136    6          5 12:45:00    Fri
## 437     1          7 13:00:00    Fri
## 1777    2          0 13:00:00    Fri
## 3117    3         17 13:00:00    Fri
## 4457    4          1 13:00:00    Fri
## 5797    5          1 13:00:00    Fri
## 7137    6          5 13:00:00    Fri
## 438     1          7 13:15:00    Fri
## 1778    2          1 13:15:00    Fri
## 3118    3         23 13:15:00    Fri
## 4458    4          1 13:15:00    Fri
## 5798    5          0 13:15:00    Fri
## 7138    6          3 13:15:00    Fri
## 439     1          7 13:30:00    Fri
## 1779    2          1 13:30:00    Fri
## 3119    3         19 13:30:00    Fri
## 4459    4          1 13:30:00    Fri
## 5799    5          0 13:30:00    Fri
## 7139    6          3 13:30:00    Fri
## 440     1          2 13:45:00    Fri
## 1780    2          2 13:45:00    Fri
## 3120    3         16 13:45:00    Fri
## 4460    4          1 13:45:00    Fri
## 5800    5          0 13:45:00    Fri
## 7140    6          3 13:45:00    Fri
## 441     1          3 14:00:00    Fri
## 1781    2          0 14:00:00    Fri
```

```
## 3121    3        17 14:00:00    Fri
## 4461    4         2 14:00:00    Fri
## 5801    5         0 14:00:00    Fri
## 7141    6         5 14:00:00    Fri
## 442     1         8 14:15:00    Fri
## 1782    2         0 14:15:00    Fri
## 3122    3        15 14:15:00    Fri
## 4462    4         4 14:15:00    Fri
## 5802    5         0 14:15:00    Fri
## 7142    6         2 14:15:00    Fri
## 443     1         3 14:30:00    Fri
## 1783    2         1 14:30:00    Fri
## 3123    3        13 14:30:00    Fri
## 4463    4         3 14:30:00    Fri
## 5803    5         0 14:30:00    Fri
## 7143    6         0 14:30:00    Fri
## 444     1         2 14:45:00    Fri
## 1784    2         1 14:45:00    Fri
## 3124    3        13 14:45:00    Fri
## 4464    4         1 14:45:00    Fri
## 5804    5         2 14:45:00    Fri
## 7144    6         2 14:45:00    Fri
## 445     1         0 15:00:00    Fri
## 1785    2         1 15:00:00    Fri
## 3125    3        11 15:00:00    Fri
## 4465    4         1 15:00:00    Fri
## 5805    5         2 15:00:00    Fri
## 7145    6         2 15:00:00    Fri
## 446     1         2 15:15:00    Fri
## 1786    2         6 15:15:00    Fri
## 3126    3        11 15:15:00    Fri
## 4466    4         1 15:15:00    Fri
## 5806    5         1 15:15:00    Fri
## 7146    6         2 15:15:00    Fri
## 447     1         4 15:30:00    Fri
## 1787    2         3 15:30:00    Fri
## 3127    3        18 15:30:00    Fri
## 4467    4         1 15:30:00    Fri
## 5807    5         5 15:30:00    Fri
## 7147    6         2 15:30:00    Fri
## 448     1         2 15:45:00    Fri
## 1788    2         3 15:45:00    Fri
## 3128    3        23 15:45:00    Fri
## 4468    4         5 15:45:00    Fri
## 5808    5         5 15:45:00    Fri
## 7148    6         2 15:45:00    Fri
## 449     1         2 16:00:00    Fri
## 1789    2         0 16:00:00    Fri
## 3129    3        36 16:00:00    Fri
## 4469    4         2 16:00:00    Fri
## 5809    5         4 16:00:00    Fri
## 7149    6         2 16:00:00    Fri
## 450     1         1 16:15:00    Fri
## 1790    2         0 16:15:00    Fri
```

```
## 3130    3         33 16:15:00      Fri
## 4470    4          5 16:15:00      Fri
## 5810    5          4 16:15:00      Fri
## 7150    6          3 16:15:00      Fri
## 451     1          5 16:30:00      Fri
## 1791    2          0 16:30:00      Fri
## 3131    3         33 16:30:00      Fri
## 4471    4          7 16:30:00      Fri
## 5811    5          1 16:30:00      Fri
## 7151    6          3 16:30:00      Fri
## 452     1          0 16:45:00      Fri
## 1792    2          3 16:45:00      Fri
## 3132    3         24 16:45:00      Fri
## 4472    4          5 16:45:00      Fri
## 5812    5          2 16:45:00      Fri
## 7152    6          2 16:45:00      Fri
## 453     1          2 17:00:00      Fri
## 1793    2          1 17:00:00      Fri
## 3133    3         25 17:00:00      Fri
## 4473    4          6 17:00:00      Fri
## 5813    5          1 17:00:00      Fri
## 7153    6          1 17:00:00      Fri
## 454     1          3 17:15:00      Fri
## 1794    2          0 17:15:00      Fri
## 3134    3         17 17:15:00      Fri
## 4474    4         12 17:15:00      Fri
## 5814    5          0 17:15:00      Fri
## 7154    6          1 17:15:00      Fri
## 455     1          3 17:30:00      Fri
## 1795    2          0 17:30:00      Fri
## 3135    3         21 17:30:00      Fri
## 4475    4         10 17:30:00      Fri
## 5815    5          0 17:30:00      Fri
## 7155    6          0 17:30:00      Fri
## 456     1          2 17:45:00      Fri
## 1796    2          1 17:45:00      Fri
## 3136    3         21 17:45:00      Fri
## 4476    4          8 17:45:00      Fri
## 5816    5          0 17:45:00      Fri
## 7156    6          2 17:45:00      Fri
## 457     1          6 18:00:00      Fri
## 1797    2          1 18:00:00      Fri
## 3137    3         20 18:00:00      Fri
## 4477    4          6 18:00:00      Fri
## 5817    5          0 18:00:00      Fri
## 7157    6          2 18:00:00      Fri
## 458     1          4 18:15:00      Fri
## 1798    2          1 18:15:00      Fri
## 3138    3         21 18:15:00      Fri
## 4478    4         11 18:15:00      Fri
## 5818    5          0 18:15:00      Fri
## 7158    6          0 18:15:00      Fri
## 459     1          2 18:30:00      Fri
## 1799    2          2 18:30:00      Fri
```

```
## 3139     3            12 18:30:00       Fri
## 4479     4            13 18:30:00       Fri
## 5819     5             0 18:30:00       Fri
## 7159     6             0 18:30:00       Fri
## 460      1             4 18:45:00       Fri
## 1800     2             0 18:45:00       Fri
## 3140     3            14 18:45:00       Fri
## 4480     4             1 18:45:00       Fri
## 5820     5             0 18:45:00       Fri
## 7160     6             0 18:45:00       Fri
## 461      1             4 19:00:00       Fri
## 1801     2             0 19:00:00       Fri
## 3141     3            15 19:00:00       Fri
## 4481     4             3 19:00:00       Fri
## 5821     5             2 19:00:00       Fri
## 7161     6             0 19:00:00       Fri
## 462      1             2 19:15:00       Fri
## 1802     2             3 19:15:00       Fri
## 3142     3            18 19:15:00       Fri
## 4482     4             3 19:15:00       Fri
## 5822     5             3 19:15:00       Fri
## 7162     6             0 19:15:00       Fri
## 463      1             2 19:30:00       Fri
## 1803     2             1 19:30:00       Fri
## 3143     3            11 19:30:00       Fri
## 4483     4             1 19:30:00       Fri
## 5823     5             3 19:30:00       Fri
## 7163     6             0 19:30:00       Fri
## 464      1             3 19:45:00       Fri
## 1804     2             0 19:45:00       Fri
## 3144     3             7 19:45:00       Fri
## 4484     4             4 19:45:00       Fri
## 5824     5             2 19:45:00       Fri
## 7164     6             2 19:45:00       Fri
## 465      1             6 20:00:00       Fri
## 1805     2             5 20:00:00       Fri
## 3145     3             7 20:00:00       Fri
## 4485     4             5 20:00:00       Fri
## 5825     5             1 20:00:00       Fri
## 7165     6             2 20:00:00       Fri
## 466      1             4 20:15:00       Fri
## 1806     2             1 20:15:00       Fri
## 3146     3            18 20:15:00       Fri
## 4486     4             6 20:15:00       Fri
## 5826     5             0 20:15:00       Fri
## 7166     6             3 20:15:00       Fri
## 467      1             6 20:30:00       Fri
## 1807     2             0 20:30:00       Fri
## 3147     3            22 20:30:00       Fri
## 4487     4             3 20:30:00       Fri
## 5827     5             0 20:30:00       Fri
## 7167     6             1 20:30:00       Fri
## 468      1             5 20:45:00       Fri
## 1808     2             7 20:45:00       Fri
```

```
## 3148    3        20 20:45:00    Fri
## 4488    4         5 20:45:00    Fri
## 5828    5         0 20:45:00    Fri
## 7168    6         1 20:45:00    Fri
## 469     1         7 21:00:00    Fri
## 1809    2         5 21:00:00    Fri
## 3149    3        11 21:00:00    Fri
## 4489    4         7 21:00:00    Fri
## 5829    5         0 21:00:00    Fri
## 7169    6         1 21:00:00    Fri
## 470     1         8 21:15:00    Fri
## 1810    2         5 21:15:00    Fri
## 3150    3         3 21:15:00    Fri
## 4490    4         7 21:15:00    Fri
## 5830    5         0 21:15:00    Fri
## 7170    6         5 21:15:00    Fri
## 471     1        12 21:30:00    Fri
## 1811    2         5 21:30:00    Fri
## 3151    3         9 21:30:00    Fri
## 4491    4         5 21:30:00    Fri
## 5831    5         4 21:30:00    Fri
## 7171    6         5 21:30:00    Fri
## 472     1        12 21:45:00    Fri
## 1812    2         5 21:45:00    Fri
## 3152    3        16 21:45:00    Fri
## 4492    4         6 21:45:00    Fri
## 5832    5         4 21:45:00    Fri
## 7172    6         5 21:45:00    Fri
## 473     1        10 22:00:00    Fri
## 1813    2         7 22:00:00    Fri
## 3153    3        15 22:00:00    Fri
## 4493    4         8 22:00:00    Fri
## 5833    5         9 22:00:00    Fri
## 7173    6         7 22:00:00    Fri
## 474     1         9 22:15:00    Fri
## 1814    2         9 22:15:00    Fri
## 3154    3        26 22:15:00    Fri
## 4494    4         6 22:15:00    Fri
## 5834    5         8 22:15:00    Fri
## 7174    6         5 22:15:00    Fri
## 475     1         6 22:30:00    Fri
## 1815    2         9 22:30:00    Fri
## 3155    3        28 22:30:00    Fri
## 4495    4         7 22:30:00    Fri
## 5835    5        10 22:30:00    Fri
## 7175    6         7 22:30:00    Fri
## 476     1         8 22:45:00    Fri
## 1816    2         5 22:45:00    Fri
## 3156    3        30 22:45:00    Fri
## 4496    4         7 22:45:00    Fri
## 5836    5        13 22:45:00    Fri
## 7176    6         5 22:45:00    Fri
## 477     1        12 23:00:00    Fri
## 1817    2         5 23:00:00    Fri
```

```
## 3157   3          26 23:00:00      Fri
## 4497   4           7 23:00:00      Fri
## 5837   5          17 23:00:00      Fri
## 7177   6           3 23:00:00      Fri
## 478    1          12 23:15:00      Fri
## 1818   2           6 23:15:00      Fri
## 3158   3          27 23:15:00      Fri
## 4498   4           7 23:15:00      Fri
## 5838   5          16 23:15:00      Fri
## 7178   6           1 23:15:00      Fri
## 479    1          16 23:30:00      Fri
## 1819   2           7 23:30:00      Fri
## 3159   3          30 23:30:00      Fri
## 4499   4           7 23:30:00      Fri
## 5839   5          16 23:30:00      Fri
## 7179   6           1 23:30:00      Fri
## 480    1          19 23:45:00      Fri
## 1820   2           7 23:45:00      Fri
## 3160   3          28 23:45:00      Fri
## 4500   4           8 23:45:00      Fri
## 5840   5          18 23:45:00      Fri
## 7180   6           1 23:45:00      Fri
## 481    1          23 00:00:00      Sat
## 1821   2           5 00:00:00      Sat
## 3161   3          32 00:00:00      Sat
## 4501   4           8 00:00:00      Sat
## 5841   5          18 00:00:00      Sat
## 7181   6           1 00:00:00      Sat
## 482    1          21 00:15:00      Sat
## 1822   2           4 00:15:00      Sat
## 3162   3          36 00:15:00      Sat
## 4502   4          10 00:15:00      Sat
## 5842   5          14 00:15:00      Sat
## 7182   6           2 00:15:00      Sat
## 483    1          20 00:30:00      Sat
## 1823   2           4 00:30:00      Sat
## 3163   3          36 00:30:00      Sat
## 4503   4          12 00:30:00      Sat
## 5843   5          16 00:30:00      Sat
## 7183   6           2 00:30:00      Sat
## 484    1          23 00:45:00      Sat
## 1824   2          10 00:45:00      Sat
## 3164   3          32 00:45:00      Sat
## 4504   4          12 00:45:00      Sat
## 5844   5          14 00:45:00      Sat
## 7184   6           2 00:45:00      Sat
## 485    1          19 01:00:00      Sat
## 1825   2          16 01:00:00      Sat
## 3165   3          36 01:00:00      Sat
## 4505   4          10 01:00:00      Sat
## 5845   5          14 01:00:00      Sat
## 7185   6           0 01:00:00      Sat
## 486    1          19 01:15:00      Sat
## 1826   2          16 01:15:00      Sat
```

```
## 3166    3             39 01:15:00      Sat
## 4506    4              8 01:15:00      Sat
## 5846    5             18 01:15:00      Sat
## 7186    6              0 01:15:00      Sat
## 487     1             17 01:30:00      Sat
## 1827    2             16 01:30:00      Sat
## 3167    3             36 01:30:00      Sat
## 4507    4             11 01:30:00      Sat
## 5847    5             16 01:30:00      Sat
## 7187    6              0 01:30:00      Sat
## 488     1             16 01:45:00      Sat
## 1828    2             17 01:45:00      Sat
## 3168    3             39 01:45:00      Sat
## 4508    4              9 01:45:00      Sat
## 5848    5             20 01:45:00      Sat
## 7188    6              0 01:45:00      Sat
## 489     1             16 02:00:00      Sat
## 1829    2             17 02:00:00      Sat
## 3169    3             37 02:00:00      Sat
## 4509    4             10 02:00:00      Sat
## 5849    5             20 02:00:00      Sat
## 7189    6              0 02:00:00      Sat
## 490     1             15 02:15:00      Sat
## 1830    2             17 02:15:00      Sat
## 3170    3             40 02:15:00      Sat
## 4510    4              8 02:15:00      Sat
## 5850    5             25 02:15:00      Sat
## 7190    6              0 02:15:00      Sat
## 491     1             15 02:30:00      Sat
## 1831    2             19 02:30:00      Sat
## 3171    3             44 02:30:00      Sat
## 4511    4              8 02:30:00      Sat
## 5851    5             25 02:30:00      Sat
## 7191    6              0 02:30:00      Sat
## 492     1             15 02:45:00      Sat
## 1832    2             22 02:45:00      Sat
## 3172    3             46 02:45:00      Sat
## 4512    4              8 02:45:00      Sat
## 5852    5             29 02:45:00      Sat
## 7192    6              0 02:45:00      Sat
## 493     1             15 03:00:00      Sat
## 1833    2             22 03:00:00      Sat
## 3173    3             49 03:00:00      Sat
## 4513    4             11 03:00:00      Sat
## 5853    5             30 03:00:00      Sat
## 7193    6              0 03:00:00      Sat
## 494     1             18 03:15:00      Sat
## 1834    2             20 03:15:00      Sat
## 3174    3             50 03:15:00      Sat
## 4514    4             11 03:15:00      Sat
## 5854    5             30 03:15:00      Sat
## 7194    6              0 03:15:00      Sat
## 495     1             20 03:30:00      Sat
## 1835    2             26 03:30:00      Sat
```

```
## 3175      3            50 03:30:00      Sat
## 4515      4            11 03:30:00      Sat
## 5855      5            30 03:30:00      Sat
## 7195      6             0 03:30:00      Sat
## 496       1            18 03:45:00      Sat
## 1836      2            26 03:45:00      Sat
## 3176      3            48 03:45:00      Sat
## 4516      4            11 03:45:00      Sat
## 5856      5            32 03:45:00      Sat
## 7196      6             0 03:45:00      Sat
## 497       1            18 04:00:00      Sat
## 1837      2            26 04:00:00      Sat
## 3177      3            49 04:00:00      Sat
## 4517      4            11 04:00:00      Sat
## 5857      5            30 04:00:00      Sat
## 7197      6             0 04:00:00      Sat
## 498       1            16 04:15:00      Sat
## 1838      2            28 04:15:00      Sat
## 3178      3            47 04:15:00      Sat
## 4518      4            11 04:15:00      Sat
## 5858      5            32 04:15:00      Sat
## 7198      6             0 04:15:00      Sat
## 499       1            16 04:30:00      Sat
## 1839      2            28 04:30:00      Sat
## 3179      3            47 04:30:00      Sat
## 4519      4            10 04:30:00      Sat
## 5859      5            32 04:30:00      Sat
## 7199      6             0 04:30:00      Sat
## 500       1            14 04:45:00      Sat
## 1840      2            28 04:45:00      Sat
## 3180      3            49 04:45:00      Sat
## 4520      4            10 04:45:00      Sat
## 5860      5            33 04:45:00      Sat
## 7200      6             0 04:45:00      Sat
## 501       1            14 05:00:00      Sat
## 1841      2            26 05:00:00      Sat
## 3181      3            48 05:00:00      Sat
## 4521      4            10 05:00:00      Sat
## 5861      5            33 05:00:00      Sat
## 7201      6             0 05:00:00      Sat
## 502       1            14 05:15:00      Sat
## 1842      2            28 05:15:00      Sat
## 3182      3            48 05:15:00      Sat
## 4522      4            10 05:15:00      Sat
## 5862      5            33 05:15:00      Sat
## 7202      6             0 05:15:00      Sat
## 503       1            14 05:30:00      Sat
## 1843      2            28 05:30:00      Sat
## 3183      3            48 05:30:00      Sat
## 4523      4            10 05:30:00      Sat
## 5863      5            33 05:30:00      Sat
## 7203      6             2 05:30:00      Sat
## 504       1            14 05:45:00      Sat
## 1844      2            28 05:45:00      Sat
```

```
## 3184    3              48 05:45:00        Sat
## 4524    4              10 05:45:00        Sat
## 5864    5              33 05:45:00        Sat
## 7204    6               2 05:45:00        Sat
## 505     1              16 06:00:00        Sat
## 1845    2              28 06:00:00        Sat
## 3185    3              46 06:00:00        Sat
## 4525    4              10 06:00:00        Sat
## 5865    5              33 06:00:00        Sat
## 7205    6               2 06:00:00        Sat
## 506     1              18 06:15:00        Sat
## 1846    2              28 06:15:00        Sat
## 3186    3              44 06:15:00        Sat
## 4526    4              10 06:15:00        Sat
## 5866    5              33 06:15:00        Sat
## 7206    6               2 06:15:00        Sat
## 507     1              17 06:30:00        Sat
## 1847    2              28 06:30:00        Sat
## 3187    3              43 06:30:00        Sat
## 4527    4              10 06:30:00        Sat
## 5867    5              33 06:30:00        Sat
## 7207    6               4 06:30:00        Sat
## 508     1              17 06:45:00        Sat
## 1848    2              28 06:45:00        Sat
## 3188    3              40 06:45:00        Sat
## 4528    4              10 06:45:00        Sat
## 5868    5              33 06:45:00        Sat
## 7208    6               4 06:45:00        Sat
## 509     1              15 07:00:00        Sat
## 1849    2              28 07:00:00        Sat
## 3189    3              40 07:00:00        Sat
## 4529    4              10 07:00:00        Sat
## 5869    5              31 07:00:00        Sat
## 7209    6               4 07:00:00        Sat
## 510     1              15 07:15:00        Sat
## 1850    2              26 07:15:00        Sat
## 3190    3              40 07:15:00        Sat
## 4530    4              10 07:15:00        Sat
## 5870    5              31 07:15:00        Sat
## 7210    6               6 07:15:00        Sat
## 511     1              16 07:30:00        Sat
## 1851    2              24 07:30:00        Sat
## 3191    3              38 07:30:00        Sat
## 4531    4              10 07:30:00        Sat
## 5871    5              31 07:30:00        Sat
## 7211    6               6 07:30:00        Sat
## 512     1              16 07:45:00        Sat
## 1852    2              22 07:45:00        Sat
## 3192    3              33 07:45:00        Sat
## 4532    4               8 07:45:00        Sat
## 5872    5              30 07:45:00        Sat
## 7212    6               6 07:45:00        Sat
## 513     1              13 08:00:00        Sat
## 1853    2              22 08:00:00        Sat
```

```
## 3193     3         35 08:00:00       Sat
## 4533     4          9 08:00:00       Sat
## 5873     5         28 08:00:00       Sat
## 7213     6          2 08:00:00       Sat
## 514      1         10 08:15:00       Sat
## 1854     2         22 08:15:00       Sat
## 3194     3         35 08:15:00       Sat
## 4534     4         10 08:15:00       Sat
## 5874     5         28 08:15:00       Sat
## 7214     6          2 08:15:00       Sat
## 515      1          6 08:30:00       Sat
## 1855     2         20 08:30:00       Sat
## 3195     3         34 08:30:00       Sat
## 4535     4          9 08:30:00       Sat
## 5875     5         26 08:30:00       Sat
## 7215     6          2 08:30:00       Sat
## 516      1          5 08:45:00       Sat
## 1856     2         18 08:45:00       Sat
## 3196     3         35 08:45:00       Sat
## 4536     4          6 08:45:00       Sat
## 5876     5         22 08:45:00       Sat
## 7216     6          2 08:45:00       Sat
## 517      1          3 09:00:00       Sat
## 1857     2         18 09:00:00       Sat
## 3197     3         38 09:00:00       Sat
## 4537     4          7 09:00:00       Sat
## 5877     5         21 09:00:00       Sat
## 7217     6          2 09:00:00       Sat
## 518      1          3 09:15:00       Sat
## 1858     2         18 09:15:00       Sat
## 3198     3         47 09:15:00       Sat
## 4538     4          7 09:15:00       Sat
## 5878     5         21 09:15:00       Sat
## 7218     6          2 09:15:00       Sat
## 519      1          2 09:30:00       Sat
## 1859     2         16 09:30:00       Sat
## 3199     3         39 09:30:00       Sat
## 4539     4          7 09:30:00       Sat
## 5879     5         23 09:30:00       Sat
## 7219     6          2 09:30:00       Sat
## 520      1          3 09:45:00       Sat
## 1860     2         13 09:45:00       Sat
## 3200     3         35 09:45:00       Sat
## 4540     4          7 09:45:00       Sat
## 5880     5         21 09:45:00       Sat
## 7220     6          2 09:45:00       Sat
## 521      1          3 10:00:00       Sat
## 1861     2         13 10:00:00       Sat
## 3201     3         33 10:00:00       Sat
## 4541     4          5 10:00:00       Sat
## 5881     5         22 10:00:00       Sat
## 7221     6          2 10:00:00       Sat
## 522      1          1 10:15:00       Sat
## 1862     2          5 10:15:00       Sat
```

## 3202	3	27	10:15:00	Sat
## 4542	4	1	10:15:00	Sat
## 5882	5	20	10:15:00	Sat
## 7222	6	3	10:15:00	Sat
## 523	1	0	10:30:00	Sat
## 1863	2	4	10:30:00	Sat
## 3203	3	27	10:30:00	Sat
## 4543	4	4	10:30:00	Sat
## 5883	5	22	10:30:00	Sat
## 7223	6	3	10:30:00	Sat
## 524	1	1	10:45:00	Sat
## 1864	2	0	10:45:00	Sat
## 3204	3	23	10:45:00	Sat
## 4544	4	2	10:45:00	Sat
## 5884	5	19	10:45:00	Sat
## 7224	6	3	10:45:00	Sat
## 525	1	0	11:00:00	Sat
## 1865	2	0	11:00:00	Sat
## 3205	3	19	11:00:00	Sat
## 4545	4	3	11:00:00	Sat
## 5885	5	15	11:00:00	Sat
## 7225	6	3	11:00:00	Sat
## 526	1	5	11:15:00	Sat
## 1866	2	0	11:15:00	Sat
## 3206	3	11	11:15:00	Sat
## 4546	4	4	11:15:00	Sat
## 5886	5	14	11:15:00	Sat
## 7226	6	3	11:15:00	Sat
## 527	1	3	11:30:00	Sat
## 1867	2	0	11:30:00	Sat
## 3207	3	9	11:30:00	Sat
## 4547	4	4	11:30:00	Sat
## 5887	5	6	11:30:00	Sat
## 7227	6	4	11:30:00	Sat
## 528	1	2	11:45:00	Sat
## 1868	2	0	11:45:00	Sat
## 3208	3	3	11:45:00	Sat
## 4548	4	1	11:45:00	Sat
## 5888	5	6	11:45:00	Sat
## 7228	6	5	11:45:00	Sat
## 529	1	4	12:00:00	Sat
## 1869	2	4	12:00:00	Sat
## 3209	3	3	12:00:00	Sat
## 4549	4	1	12:00:00	Sat
## 5889	5	4	12:00:00	Sat
## 7229	6	6	12:00:00	Sat
## 530	1	6	12:15:00	Sat
## 1870	2	0	12:15:00	Sat
## 3210	3	2	12:15:00	Sat
## 4550	4	1	12:15:00	Sat
## 5890	5	4	12:15:00	Sat
## 7230	6	8	12:15:00	Sat
## 531	1	7	12:30:00	Sat
## 1871	2	0	12:30:00	Sat

```
## 3211      3          3 12:30:00      Sat
## 4551      4          1 12:30:00      Sat
## 5891      5          4 12:30:00      Sat
## 7231      6          8 12:30:00      Sat
## 532       1          1 12:45:00      Sat
## 1872      2          0 12:45:00      Sat
## 3212      3          7 12:45:00      Sat
## 4552      4          1 12:45:00      Sat
## 5892      5          4 12:45:00      Sat
## 7232      6          8 12:45:00      Sat
## 533       1          1 13:00:00      Sat
## 1873      2          0 13:00:00      Sat
## 3213      3          5 13:00:00      Sat
## 4553      4          2 13:00:00      Sat
## 5893      5          2 13:00:00      Sat
## 7233      6          8 13:00:00      Sat
## 534       1          2 13:15:00      Sat
## 1874      2          0 13:15:00      Sat
## 3214      3          3 13:15:00      Sat
## 4554      4          1 13:15:00      Sat
## 5894      5          2 13:15:00      Sat
## 7234      6          6 13:15:00      Sat
## 535       1          3 13:30:00      Sat
## 1875      2          0 13:30:00      Sat
## 3215      3          5 13:30:00      Sat
## 4555      4          4 13:30:00      Sat
## 5895      5          3 13:30:00      Sat
## 7235      6          6 13:30:00      Sat
## 536       1          2 13:45:00      Sat
## 1876      2          2 13:45:00      Sat
## 3216      3         11 13:45:00      Sat
## 4556      4          1 13:45:00      Sat
## 5896      5          2 13:45:00      Sat
## 7236      6          5 13:45:00      Sat
## 537       1          4 14:00:00      Sat
## 1877      2          0 14:00:00      Sat
## 3217      3         14 14:00:00      Sat
## 4557      4          3 14:00:00      Sat
## 5897      5          3 14:00:00      Sat
## 7237      6          5 14:00:00      Sat
## 538       1          1 14:15:00      Sat
## 1878      2          3 14:15:00      Sat
## 3218      3         11 14:15:00      Sat
## 4558      4          2 14:15:00      Sat
## 5898      5          1 14:15:00      Sat
## 7238      6          5 14:15:00      Sat
## 539       1          4 14:30:00      Sat
## 1879      2          1 14:30:00      Sat
## 3219      3          2 14:30:00      Sat
## 4559      4          3 14:30:00      Sat
## 5899      5          1 14:30:00      Sat
## 7239      6          4 14:30:00      Sat
## 540       1          2 14:45:00      Sat
## 1880      2          1 14:45:00      Sat
```

```
## 3220     3        4 14:45:00      Sat
## 4560     4        2 14:45:00      Sat
## 5900     5        0 14:45:00      Sat
## 7240     6        6 14:45:00      Sat
## 541      1        3 15:00:00      Sat
## 1881     2        3 15:00:00      Sat
## 3221     3        8 15:00:00      Sat
## 4561     4        2 15:00:00      Sat
## 5901     5        2 15:00:00      Sat
## 7241     6        5 15:00:00      Sat
## 542      1        3 15:15:00      Sat
## 1882     2        0 15:15:00      Sat
## 3222     3        2 15:15:00      Sat
## 4562     4        5 15:15:00      Sat
## 5902     5        1 15:15:00      Sat
## 7242     6        4 15:15:00      Sat
## 543      1        3 15:30:00      Sat
## 1883     2        2 15:30:00      Sat
## 3223     3       10 15:30:00      Sat
## 4563     4        2 15:30:00      Sat
## 5903     5        2 15:30:00      Sat
## 7243     6        4 15:30:00      Sat
## 544      1        6 15:45:00      Sat
## 1884     2        2 15:45:00      Sat
## 3224     3       11 15:45:00      Sat
## 4564     4        3 15:45:00      Sat
## 5904     5        1 15:45:00      Sat
## 7244     6        3 15:45:00      Sat
## 545      1        3 16:00:00      Sat
## 1885     2        2 16:00:00      Sat
## 3225     3        5 16:00:00      Sat
## 4565     4        5 16:00:00      Sat
## 5905     5        1 16:00:00      Sat
## 7245     6        4 16:00:00      Sat
## 546      1        7 16:15:00      Sat
## 1886     2        6 16:15:00      Sat
## 3226     3        0 16:15:00      Sat
## 4566     4        2 16:15:00      Sat
## 5906     5        3 16:15:00      Sat
## 7246     6        4 16:15:00      Sat
## 547      1        6 16:30:00      Sat
## 1887     2        0 16:30:00      Sat
## 3227     3        6 16:30:00      Sat
## 4567     4        1 16:30:00      Sat
## 5907     5        4 16:30:00      Sat
## 7247     6        3 16:30:00      Sat
## 548      1       10 16:45:00      Sat
## 1888     2        4 16:45:00      Sat
## 3228     3       11 16:45:00      Sat
## 4568     4        2 16:45:00      Sat
## 5908     5        2 16:45:00      Sat
## 7248     6        3 16:45:00      Sat
## 549      1        5 17:00:00      Sat
## 1889     2        0 17:00:00      Sat
```

```
## 3229    3        9 17:00:00      Sat
## 4569    4        1 17:00:00      Sat
## 5909    5        0 17:00:00      Sat
## 7249    6        4 17:00:00      Sat
## 550     1        5 17:15:00      Sat
## 1890    2        0 17:15:00      Sat
## 3230    3       11 17:15:00      Sat
## 4570    4        1 17:15:00      Sat
## 5910    5        3 17:15:00      Sat
## 7250    6        4 17:15:00      Sat
## 551     1        9 17:30:00      Sat
## 1891    2        2 17:30:00      Sat
## 3231    3       10 17:30:00      Sat
## 4571    4        1 17:30:00      Sat
## 5911    5        1 17:30:00      Sat
## 7251    6        3 17:30:00      Sat
## 552     1       14 17:45:00      Sat
## 1892    2        7 17:45:00      Sat
## 3232    3       10 17:45:00      Sat
## 4572    4        1 17:45:00      Sat
## 5912    5        2 17:45:00      Sat
## 7252    6        4 17:45:00      Sat
## 553     1       11 18:00:00      Sat
## 1893    2        4 18:00:00      Sat
## 3233    3        4 18:00:00      Sat
## 4573    4        2 18:00:00      Sat
## 5913    5        4 18:00:00      Sat
## 7253    6        6 18:00:00      Sat
## 554     1       11 18:15:00      Sat
## 1894    2        4 18:15:00      Sat
## 3234    3        8 18:15:00      Sat
## 4574    4        2 18:15:00      Sat
## 5914    5        7 18:15:00      Sat
## 7254    6        4 18:15:00      Sat
## 555     1        8 18:30:00      Sat
## 1895    2        6 18:30:00      Sat
## 3235    3       11 18:30:00      Sat
## 4575    4        2 18:30:00      Sat
## 5915    5        5 18:30:00      Sat
## 7255    6        4 18:30:00      Sat
## 556     1        7 18:45:00      Sat
## 1896    2        5 18:45:00      Sat
## 3236    3        6 18:45:00      Sat
## 4576    4        1 18:45:00      Sat
## 5916    5        6 18:45:00      Sat
## 7256    6        4 18:45:00      Sat
## 557     1       12 19:00:00      Sat
## 1897    2        5 19:00:00      Sat
## 3237    3       14 19:00:00      Sat
## 4577    4        2 19:00:00      Sat
## 5917    5        7 19:00:00      Sat
## 7257    6        4 19:00:00      Sat
## 558     1        4 19:15:00      Sat
## 1898    2        6 19:15:00      Sat
```

```
## 3238      3             25 19:15:00        Sat
## 4578      4              2 19:15:00        Sat
## 5918      5              7 19:15:00        Sat
## 7258      6              4 19:15:00        Sat
## 559       1              5 19:30:00        Sat
## 1899      2              7 19:30:00        Sat
## 3239      3             24 19:30:00        Sat
## 4579      4              4 19:30:00        Sat
## 5919      5              8 19:30:00        Sat
## 7259      6              2 19:30:00        Sat
## 560       1              4 19:45:00        Sat
## 1900      2              4 19:45:00        Sat
## 3240      3             21 19:45:00        Sat
## 4580      4              4 19:45:00        Sat
## 5920      5              6 19:45:00        Sat
## 7260      6              2 19:45:00        Sat
## 561       1              8 20:00:00        Sat
## 1901      2              4 20:00:00        Sat
## 3241      3             25 20:00:00        Sat
## 4581      4              4 20:00:00        Sat
## 5921      5              6 20:00:00        Sat
## 7261      6              2 20:00:00        Sat
## 562       1              4 20:15:00        Sat
## 1902      2              0 20:15:00        Sat
## 3242      3             23 20:15:00        Sat
## 4582      4              2 20:15:00        Sat
## 5922      5              6 20:15:00        Sat
## 7262      6              3 20:15:00        Sat
## 563       1              2 20:30:00        Sat
## 1903      2              0 20:30:00        Sat
## 3243      3             18 20:30:00        Sat
## 4583      4              7 20:30:00        Sat
## 5923      5              6 20:30:00        Sat
## 7263      6              3 20:30:00        Sat
## 564       1              6 20:45:00        Sat
## 1904      2              1 20:45:00        Sat
## 3244      3             26 20:45:00        Sat
## 4584      4              6 20:45:00        Sat
## 5924      5              8 20:45:00        Sat
## 7264      6              3 20:45:00        Sat
## 565       1              0 21:00:00        Sat
## 1905      2              5 21:00:00        Sat
## 3245      3             23 21:00:00        Sat
## 4585      4             11 21:00:00        Sat
## 5925      5              7 21:00:00        Sat
## 7265      6              7 21:00:00        Sat
## 566       1              1 21:15:00        Sat
## 1906      2              4 21:15:00        Sat
## 3246      3             18 21:15:00        Sat
## 4586      4              9 21:15:00        Sat
## 5926      5              9 21:15:00        Sat
## 7266      6              4 21:15:00        Sat
## 567       1              0 21:30:00        Sat
## 1907      2              7 21:30:00        Sat
```

```
## 3247     3              19 21:30:00      Sat
## 4587     4               9 21:30:00      Sat
## 5927     5               8 21:30:00      Sat
## 7267     6               4 21:30:00      Sat
## 568      1               0 21:45:00      Sat
## 1908     2               6 21:45:00      Sat
## 3248     3              17 21:45:00      Sat
## 4588     4               6 21:45:00      Sat
## 5928     5               8 21:45:00      Sat
## 7268     6               6 21:45:00      Sat
## 569      1               1 22:00:00      Sat
## 1909     2               6 22:00:00      Sat
## 3249     3              22 22:00:00      Sat
## 4589     4               6 22:00:00      Sat
## 5929     5               7 22:00:00      Sat
## 7269     6               6 22:00:00      Sat
## 570      1               1 22:15:00      Sat
## 1910     2               3 22:15:00      Sat
## 3250     3              22 22:15:00      Sat
## 4590     4               5 22:15:00      Sat
## 5930     5               7 22:15:00      Sat
## 7270     6               4 22:15:00      Sat
## 571      1               3 22:30:00      Sat
## 1911     2               4 22:30:00      Sat
## 3251     3              22 22:30:00      Sat
## 4591     4               7 22:30:00      Sat
## 5931     5               7 22:30:00      Sat
## 7271     6               2 22:30:00      Sat
## 572      1               3 22:45:00      Sat
## 1912     2               2 22:45:00      Sat
## 3252     3              22 22:45:00      Sat
## 4592     4               2 22:45:00      Sat
## 5932     5               7 22:45:00      Sat
## 7272     6               4 22:45:00      Sat
## 573      1               5 23:00:00      Sat
## 1913     2               2 23:00:00      Sat
## 3253     3              23 23:00:00      Sat
## 4593     4               3 23:00:00      Sat
## 5933     5               8 23:00:00      Sat
## 7273     6               5 23:00:00      Sat
## 574      1               5 23:15:00      Sat
## 1914     2               2 23:15:00      Sat
## 3254     3              26 23:15:00      Sat
## 4594     4               3 23:15:00      Sat
## 5934     5               7 23:15:00      Sat
## 7274     6               5 23:15:00      Sat
## 575      1               2 23:30:00      Sat
## 1915     2               5 23:30:00      Sat
## 3255     3              28 23:30:00      Sat
## 4595     4               3 23:30:00      Sat
## 5935     5               9 23:30:00      Sat
## 7275     6               9 23:30:00      Sat
## 576      1               1 23:45:00      Sat
## 1916     2               3 23:45:00      Sat
```

```
## 3256    3         33 23:45:00    Sat
## 4596    4         10 23:45:00    Sat
## 5936    5          9 23:45:00    Sat
## 7276    6          9 23:45:00    Sat
## 577     1          3 00:00:00    Sun
## 1917    2          5 00:00:00    Sun
## 3257    3         37 00:00:00    Sun
## 4597    4         12 00:00:00    Sun
## 5937    5         11 00:00:00    Sun
## 7277    6          8 00:00:00    Sun
## 578     1          2 00:15:00    Sun
## 1918    2          5 00:15:00    Sun
## 3258    3         34 00:15:00    Sun
## 4598    4          5 00:15:00    Sun
## 5938    5         11 00:15:00    Sun
## 7278    6          8 00:15:00    Sun
## 579     1          3 00:30:00    Sun
## 1919    2          3 00:30:00    Sun
## 3259    3         34 00:30:00    Sun
## 4599    4          4 00:30:00    Sun
## 5939    5         11 00:30:00    Sun
## 7279    6          8 00:30:00    Sun
## 580     1          3 00:45:00    Sun
## 1920    2          6 00:45:00    Sun
## 3260    3         32 00:45:00    Sun
## 4600    4          5 00:45:00    Sun
## 5940    5         14 00:45:00    Sun
## 7280    6          6 00:45:00    Sun
## 581     1          7 01:00:00    Sun
## 1921    2          8 01:00:00    Sun
## 3261    3         33 01:00:00    Sun
## 4601    4          4 01:00:00    Sun
## 5941    5         12 01:00:00    Sun
## 7281    6          6 01:00:00    Sun
## 582     1         15 01:15:00    Sun
## 1922    2         18 01:15:00    Sun
## 3262    3         86 01:15:00    Sun
## 4602    4         12 01:15:00    Sun
## 5942    5         32 01:15:00    Sun
## 7282    6         10 01:15:00    Sun
## 583     1         19 01:30:00    Sun
## 1923    2         18 01:30:00    Sun
## 3263    3         90 01:30:00    Sun
## 4603    4         15 01:30:00    Sun
## 5943    5         32 01:30:00    Sun
## 7283    6         12 01:30:00    Sun
## 584     1         20 01:45:00    Sun
## 1924    2         15 01:45:00    Sun
## 3264    3         92 01:45:00    Sun
## 4604    4         14 01:45:00    Sun
## 5944    5         35 01:45:00    Sun
## 7284    6          6 01:45:00    Sun
## 585     1         11 02:00:00    Sun
## 1925    2         13 02:00:00    Sun
```

```
## 3265    3         50 02:00:00    Sun
## 4605    4          7 02:00:00    Sun
## 5945    5         21 02:00:00    Sun
## 7285    6          2 02:00:00    Sun
## 586     1         11 02:15:00    Sun
## 1926    2         13 02:15:00    Sun
## 3266    3         49 02:15:00    Sun
## 4606    4          8 02:15:00    Sun
## 5946    5         21 02:15:00    Sun
## 7286    6          2 02:15:00    Sun
## 587     1         13 02:30:00    Sun
## 1927    2         13 02:30:00    Sun
## 3267    3         50 02:30:00    Sun
## 4607    4          8 02:30:00    Sun
## 5947    5         21 02:30:00    Sun
## 7287    6          2 02:30:00    Sun
## 588     1         13 02:45:00    Sun
## 1928    2         13 02:45:00    Sun
## 3268    3         48 02:45:00    Sun
## 4608    4          8 02:45:00    Sun
## 5948    5         21 02:45:00    Sun
## 7288    6          2 02:45:00    Sun
## 589     1         13 03:00:00    Sun
## 1929    2         11 03:00:00    Sun
## 3269    3         48 03:00:00    Sun
## 4609    4          8 03:00:00    Sun
## 5949    5         21 03:00:00    Sun
## 7289    6          2 03:00:00    Sun
## 590     1         13 03:15:00    Sun
## 1930    2         11 03:15:00    Sun
## 3270    3         46 03:15:00    Sun
## 4610    4          8 03:15:00    Sun
## 5950    5         17 03:15:00    Sun
## 7290    6          2 03:15:00    Sun
## 591     1         13 03:30:00    Sun
## 1931    2         11 03:30:00    Sun
## 3271    3         46 03:30:00    Sun
## 4611    4          8 03:30:00    Sun
## 5951    5         17 03:30:00    Sun
## 7291    6          2 03:30:00    Sun
## 592     1         13 03:45:00    Sun
## 1932    2         11 03:45:00    Sun
## 3272    3         46 03:45:00    Sun
## 4612    4          8 03:45:00    Sun
## 5952    5         17 03:45:00    Sun
## 7292    6          2 03:45:00    Sun
## 593     1         13 04:00:00    Sun
## 1933    2         11 04:00:00    Sun
## 3273    3         50 04:00:00    Sun
## 4613    4          8 04:00:00    Sun
## 5953    5         16 04:00:00    Sun
## 7293    6          2 04:00:00    Sun
## 594     1         12 04:15:00    Sun
## 1934    2         12 04:15:00    Sun
```

```
## 3274      3            49 04:15:00        Sun
## 4614      4             8 04:15:00        Sun
## 5954      5            20 04:15:00        Sun
## 7294      6             2 04:15:00        Sun
## 595       1            12 04:30:00        Sun
## 1935      2            13 04:30:00        Sun
## 3275      3            49 04:30:00        Sun
## 4615      4             8 04:30:00        Sun
## 5955      5            22 04:30:00        Sun
## 7295      6             2 04:30:00        Sun
## 596       1            10 04:45:00        Sun
## 1936      2            13 04:45:00        Sun
## 3276      3            49 04:45:00        Sun
## 4616      4             8 04:45:00        Sun
## 5956      5            22 04:45:00        Sun
## 7296      6             2 04:45:00        Sun
## 597       1            10 05:00:00        Sun
## 1937      2            11 05:00:00        Sun
## 3277      3            49 05:00:00        Sun
## 4617      4             8 05:00:00        Sun
## 5957      5            22 05:00:00        Sun
## 7297      6             2 05:00:00        Sun
## 598       1            10 05:15:00        Sun
## 1938      2            11 05:15:00        Sun
## 3278      3            47 05:15:00        Sun
## 4618      4             7 05:15:00        Sun
## 5958      5            20 05:15:00        Sun
## 7298      6             2 05:15:00        Sun
## 599       1            12 05:30:00        Sun
## 1939      2            11 05:30:00        Sun
## 3279      3            45 05:30:00        Sun
## 4619      4             7 05:30:00        Sun
## 5959      5            21 05:30:00        Sun
## 7299      6             2 05:30:00        Sun
## 600       1            12 05:45:00        Sun
## 1940      2            11 05:45:00        Sun
## 3280      3            47 05:45:00        Sun
## 4620      4             7 05:45:00        Sun
## 5960      5            19 05:45:00        Sun
## 7300      6             2 05:45:00        Sun
## 601       1            12 06:00:00        Sun
## 1941      2            11 06:00:00        Sun
## 3281      3            44 06:00:00        Sun
## 4621      4             7 06:00:00        Sun
## 5961      5            19 06:00:00        Sun
## 7301      6             4 06:00:00        Sun
## 602       1            10 06:15:00        Sun
## 1942      2            11 06:15:00        Sun
## 3282      3            44 06:15:00        Sun
## 4622      4             7 06:15:00        Sun
## 5962      5            19 06:15:00        Sun
## 7302      6             5 06:15:00        Sun
## 603       1             8 06:30:00        Sun
## 1943      2            11 06:30:00        Sun
```

```
## 3283      3                42 06:30:00        Sun
## 4623      4                 7 06:30:00        Sun
## 5963      5                19 06:30:00        Sun
## 7303      6                 5 06:30:00        Sun
## 604       1                 7 06:45:00        Sun
## 1944      2                 8 06:45:00        Sun
## 3284      3                42 06:45:00        Sun
## 4624      4                 7 06:45:00        Sun
## 5964      5                19 06:45:00        Sun
## 7304      6                 5 06:45:00        Sun
## 605       1                10 07:00:00        Sun
## 1945      2                 8 07:00:00        Sun
## 3285      3                40 07:00:00        Sun
## 4625      4                 6 07:00:00        Sun
## 5965      5                19 07:00:00        Sun
## 7305      6                 5 07:00:00        Sun
## 606       1                10 07:15:00        Sun
## 1946      2                 8 07:15:00        Sun
## 3286      3                39 07:15:00        Sun
## 4626      4                 6 07:15:00        Sun
## 5966      5                18 07:15:00        Sun
## 7306      6                 7 07:15:00        Sun
## 607       1                 8 07:30:00        Sun
## 1947      2                10 07:30:00        Sun
## 3287      3                36 07:30:00        Sun
## 4627      4                 6 07:30:00        Sun
## 5967      5                18 07:30:00        Sun
## 7307      6                 7 07:30:00        Sun
## 608       1                 7 07:45:00        Sun
## 1948      2                 9 07:45:00        Sun
## 3288      3                36 07:45:00        Sun
## 4628      4                 6 07:45:00        Sun
## 5968      5                18 07:45:00        Sun
## 7308      6                 7 07:45:00        Sun
## 609       1                 7 08:00:00        Sun
## 1949      2                 7 08:00:00        Sun
## 3289      3                39 08:00:00        Sun
## 4629      4                 5 08:00:00        Sun
## 5969      5                22 08:00:00        Sun
## 7309      6                 7 08:00:00        Sun
## 610       1                 6 08:15:00        Sun
## 1950      2                 7 08:15:00        Sun
## 3290      3                45 08:15:00        Sun
## 4630      4                 5 08:15:00        Sun
## 5970      5                22 08:15:00        Sun
## 7310      6                 7 08:15:00        Sun
## 611       1                 9 08:30:00        Sun
## 1951      2                 6 08:30:00        Sun
## 3291      3                42 08:30:00        Sun
## 4631      4                 5 08:30:00        Sun
## 5971      5                22 08:30:00        Sun
## 7311      6                 7 08:30:00        Sun
## 612       1                 9 08:45:00        Sun
## 1952      2                 5 08:45:00        Sun
```

```
## 3292      3          32 08:45:00      Sun
## 4632      4           3 08:45:00      Sun
## 5972      5          22 08:45:00      Sun
## 7312      6           7 08:45:00      Sun
## 613       1          13 09:00:00      Sun
## 1953      2           7 09:00:00      Sun
## 3293      3          23 09:00:00      Sun
## 4633      4           3 09:00:00      Sun
## 5973      5          18 09:00:00      Sun
## 7313      6           2 09:00:00      Sun
## 614       1           9 09:15:00      Sun
## 1954      2           2 09:15:00      Sun
## 3294      3          26 09:15:00      Sun
## 4634      4           3 09:15:00      Sun
## 5974      5           9 09:15:00      Sun
## 7314      6           2 09:15:00      Sun
## 615       1           6 09:30:00      Sun
## 1955      2           2 09:30:00      Sun
## 3295      3          21 09:30:00      Sun
## 4635      4           3 09:30:00      Sun
## 5975      5           6 09:30:00      Sun
## 7315      6           2 09:30:00      Sun
## 616       1           3 09:45:00      Sun
## 1956      2           2 09:45:00      Sun
## 3296      3           9 09:45:00      Sun
## 4636      4           4 09:45:00      Sun
## 5976      5           2 09:45:00      Sun
## 7316      6           3 09:45:00      Sun
## 617       1           1 10:00:00      Sun
## 1957      2           0 10:00:00      Sun
## 3297      3           5 10:00:00      Sun
## 4637      4           3 10:00:00      Sun
## 5977      5           0 10:00:00      Sun
## 7317      6           2 10:00:00      Sun
## 618       1           0 10:15:00      Sun
## 1958      2           0 10:15:00      Sun
## 3298      3           4 10:15:00      Sun
## 4638      4           1 10:15:00      Sun
## 5978      5           0 10:15:00      Sun
## 7318      6           2 10:15:00      Sun
## 619       1           0 10:30:00      Sun
## 1959      2           2 10:30:00      Sun
## 3299      3           2 10:30:00      Sun
## 4639      4           2 10:30:00      Sun
## 5979      5           0 10:30:00      Sun
## 7319      6           2 10:30:00      Sun
## 620       1           2 10:45:00      Sun
## 1960      2           0 10:45:00      Sun
## 3300      3           1 10:45:00      Sun
## 4640      4           0 10:45:00      Sun
## 5980      5           0 10:45:00      Sun
## 7320      6           3 10:45:00      Sun
## 621       1           0 11:00:00      Sun
## 1961      2           0 11:00:00      Sun
```

```
## 3301     3                      1 11:00:00        Sun
## 4641     4                      0 11:00:00        Sun
## 5981     5                      0 11:00:00        Sun
## 7321     6                      3 11:00:00        Sun
## 622      1                      3 11:15:00        Sun
## 1962     2                      2 11:15:00        Sun
## 3302     3                      0 11:15:00        Sun
## 4642     4                      2 11:15:00        Sun
## 5982     5                      0 11:15:00        Sun
## 7322     6                      2 11:15:00        Sun
## 623      1                      2 11:30:00        Sun
## 1963     2                      0 11:30:00        Sun
## 3303     3                      0 11:30:00        Sun
## 4643     4                      1 11:30:00        Sun
## 5983     5                      0 11:30:00        Sun
## 7323     6                      2 11:30:00        Sun
## 624      1                      0 11:45:00        Sun
## 1964     2                      1 11:45:00        Sun
## 3304     3                      1 11:45:00        Sun
## 4644     4                      1 11:45:00        Sun
## 5984     5                      0 11:45:00        Sun
## 7324     6                      2 11:45:00        Sun
## 625      1                      2 12:00:00        Sun
## 1965     2                      0 12:00:00        Sun
## 3305     3                      0 12:00:00        Sun
## 4645     4                      3 12:00:00        Sun
## 5985     5                      1 12:00:00        Sun
## 7325     6                      4 12:00:00        Sun
## 626      1                      1 12:15:00        Sun
## 1966     2                      0 12:15:00        Sun
## 3306     3                      3 12:15:00        Sun
## 4646     4                      0 12:15:00        Sun
## 5986     5                      0 12:15:00        Sun
## 7326     6                      2 12:15:00        Sun
## 627      1                      2 12:30:00        Sun
## 1967     2                      0 12:30:00        Sun
## 3307     3                      0 12:30:00        Sun
## 4647     4                      4 12:30:00        Sun
## 5987     5                      2 12:30:00        Sun
## 7327     6                      2 12:30:00        Sun
## 628      1                      2 12:45:00        Sun
## 1968     2                      0 12:45:00        Sun
## 3308     3                      2 12:45:00        Sun
## 4648     4                      0 12:45:00        Sun
## 5988     5                      3 12:45:00        Sun
## 7328     6                      2 12:45:00        Sun
## 629      1                      5 13:00:00        Sun
## 1969     2                      6 13:00:00        Sun
## 3309     3                      5 13:00:00        Sun
## 4649     4                      0 13:00:00        Sun
## 5989     5                      1 13:00:00        Sun
## 7329     6                      0 13:00:00        Sun
## 630      1                      7 13:15:00        Sun
## 1970     2                      6 13:15:00        Sun
```

```
## 3310      3           4 13:15:00      Sun
## 4650      4           2 13:15:00      Sun
## 5990      5           2 13:15:00      Sun
## 7330      6           3 13:15:00      Sun
## 631       1           5 13:30:00      Sun
## 1971      2           4 13:30:00      Sun
## 3311      3          12 13:30:00      Sun
## 4651      4           3 13:30:00      Sun
## 5991      5           1 13:30:00      Sun
## 7331      6           5 13:30:00      Sun
## 632       1           1 13:45:00      Sun
## 1972      2           4 13:45:00      Sun
## 3312      3          16 13:45:00      Sun
## 4652      4           1 13:45:00      Sun
## 5992      5           7 13:45:00      Sun
## 7332      6           5 13:45:00      Sun
## 633       1           6 14:00:00      Sun
## 1973      2           1 14:00:00      Sun
## 3313      3          11 14:00:00      Sun
## 4653      4           2 14:00:00      Sun
## 5993      5           1 14:00:00      Sun
## 7333      6           6 14:00:00      Sun
## 634       1           1 14:15:00      Sun
## 1974      2           3 14:15:00      Sun
## 3314      3          16 14:15:00      Sun
## 4654      4           7 14:15:00      Sun
## 5994      5           0 14:15:00      Sun
## 7334      6           6 14:15:00      Sun
## 635       1           1 14:30:00      Sun
## 1975      2           5 14:30:00      Sun
## 3315      3          22 14:30:00      Sun
## 4655      4           2 14:30:00      Sun
## 5995      5           3 14:30:00      Sun
## 7335      6           5 14:30:00      Sun
## 636       1           3 14:45:00      Sun
## 1976      2           1 14:45:00      Sun
## 3316      3          21 14:45:00      Sun
## 4656      4           5 14:45:00      Sun
## 5996      5           0 14:45:00      Sun
## 7336      6           5 14:45:00      Sun
## 637       1           7 15:00:00      Sun
## 1977      2           4 15:00:00      Sun
## 3317      3          18 15:00:00      Sun
## 4657      4          11 15:00:00      Sun
## 5997      5           0 15:00:00      Sun
## 7337      6           5 15:00:00      Sun
## 638       1           5 15:15:00      Sun
## 1978      2           4 15:15:00      Sun
## 3318      3          18 15:15:00      Sun
## 4658      4           9 15:15:00      Sun
## 5998      5           0 15:15:00      Sun
## 7338      6           2 15:15:00      Sun
## 639       1           6 15:30:00      Sun
## 1979      2           0 15:30:00      Sun
```

```
## 3319    3          22 15:30:00    Sun
## 4659    4           5 15:30:00    Sun
## 5999    5           2 15:30:00    Sun
## 7339    6           6 15:30:00    Sun
## 640     1           9 15:45:00    Sun
## 1980    2           4 15:45:00    Sun
## 3320    3          17 15:45:00    Sun
## 4660    4           3 15:45:00    Sun
## 6000    5           4 15:45:00    Sun
## 7340    6           6 15:45:00    Sun
## 641     1           7 16:00:00    Sun
## 1981    2          10 16:00:00    Sun
## 3321    3          18 16:00:00    Sun
## 4661    4           0 16:00:00    Sun
## 6001    5           5 16:00:00    Sun
## 7341    6           6 16:00:00    Sun
## 642     1           5 16:15:00    Sun
## 1982    2           4 16:15:00    Sun
## 3322    3          15 16:15:00    Sun
## 4662    4           3 16:15:00    Sun
## 6002    5           4 16:15:00    Sun
## 7342    6           2 16:15:00    Sun
## 643     1          10 16:30:00    Sun
## 1983    2           5 16:30:00    Sun
## 3323    3           7 16:30:00    Sun
## 4663    4           3 16:30:00    Sun
## 6003    5           2 16:30:00    Sun
## 7343    6           2 16:30:00    Sun
## 644     1          11 16:45:00    Sun
## 1984    2           4 16:45:00    Sun
## 3324    3           7 16:45:00    Sun
## 4664    4           6 16:45:00    Sun
## 6004    5           2 16:45:00    Sun
## 7344    6           2 16:45:00    Sun
## 645     1           6 17:00:00    Sun
## 1985    2           5 17:00:00    Sun
## 3325    3          10 17:00:00    Sun
## 4665    4           8 17:00:00    Sun
## 6005    5           2 17:00:00    Sun
## 7345    6           2 17:00:00    Sun
## 646     1          11 17:15:00    Sun
## 1986    2           1 17:15:00    Sun
## 3326    3          18 17:15:00    Sun
## 4666    4           3 17:15:00    Sun
## 6006    5           0 17:15:00    Sun
## 7346    6           6 17:15:00    Sun
## 647     1          11 17:30:00    Sun
## 1987    2           1 17:30:00    Sun
## 3327    3          21 17:30:00    Sun
## 4667    4           8 17:30:00    Sun
## 6007    5           0 17:30:00    Sun
## 7347    6           5 17:30:00    Sun
## 648     1           9 17:45:00    Sun
## 1988    2           3 17:45:00    Sun
```

```
## 3328    3                23 17:45:00      Sun
## 4668    4                13 17:45:00      Sun
## 6008    5                 0 17:45:00      Sun
## 7348    6                 4 17:45:00      Sun
## 649     1                 5 18:00:00      Sun
## 1989    2                 3 18:00:00      Sun
## 3329    3                26 18:00:00      Sun
## 4669    4                13 18:00:00      Sun
## 6009    5                 4 18:00:00      Sun
## 7349    6                 4 18:00:00      Sun
## 650     1                 4 18:15:00      Sun
## 1990    2                 5 18:15:00      Sun
## 3330    3                37 18:15:00      Sun
## 4670    4                12 18:15:00      Sun
## 6010    5                 4 18:15:00      Sun
## 7350    6                 0 18:15:00      Sun
## 651     1                 6 18:30:00      Sun
## 1991    2                 5 18:30:00      Sun
## 3331    3                26 18:30:00      Sun
## 4671    4                 9 18:30:00      Sun
## 6011    5                 4 18:30:00      Sun
## 7351    6                 2 18:30:00      Sun
## 652     1                 2 18:45:00      Sun
## 1992    2                 4 18:45:00      Sun
## 3332    3                21 18:45:00      Sun
## 4672    4                 5 18:45:00      Sun
## 6012    5                 7 18:45:00      Sun
## 7352    6                 0 18:45:00      Sun
## 653     1                 3 19:00:00      Sun
## 1993    2                 2 19:00:00      Sun
## 3333    3                23 19:00:00      Sun
## 4673    4                 6 19:00:00      Sun
## 6013    5                 7 19:00:00      Sun
## 7353    6                 0 19:00:00      Sun
## 654     1                 4 19:15:00      Sun
## 1994    2                 2 19:15:00      Sun
## 3334    3                35 19:15:00      Sun
## 4674    4                 5 19:15:00      Sun
## 6014    5                 8 19:15:00      Sun
## 7354    6                 3 19:15:00      Sun
## 655     1                13 19:30:00      Sun
## 1995    2                 1 19:30:00      Sun
## 3335    3                39 19:30:00      Sun
## 4675    4                 7 19:30:00      Sun
## 6015    5                 6 19:30:00      Sun
## 7355    6                 3 19:30:00      Sun
## 656     1                17 19:45:00      Sun
## 1996    2                 3 19:45:00      Sun
## 3336    3                33 19:45:00      Sun
## 4676    4                 8 19:45:00      Sun
## 6016    5                 8 19:45:00      Sun
## 7356    6                 4 19:45:00      Sun
## 657     1                16 20:00:00      Sun
## 1997    2                 6 20:00:00      Sun
```

```
## 3337    3         40 20:00:00    Sun
## 4677    4          5 20:00:00    Sun
## 6017    5         12 20:00:00    Sun
## 7357    6          2 20:00:00    Sun
## 658     1         16 20:15:00    Sun
## 1998    2          6 20:15:00    Sun
## 3338    3         46 20:15:00    Sun
## 4678    4         11 20:15:00    Sun
## 6018    5          8 20:15:00    Sun
## 7358    6          2 20:15:00    Sun
## 659     1         15 20:30:00    Sun
## 1999    2          4 20:30:00    Sun
## 3339    3         49 20:30:00    Sun
## 4679    4         11 20:30:00    Sun
## 6019    5         12 20:30:00    Sun
## 7359    6          2 20:30:00    Sun
## 660     1         15 20:45:00    Sun
## 2000    2          6 20:45:00    Sun
## 3340    3         38 20:45:00    Sun
## 4680    4         14 20:45:00    Sun
## 6020    5         12 20:45:00    Sun
## 7360    6          0 20:45:00    Sun
## 661     1         19 21:00:00    Sun
## 2001    2         10 21:00:00    Sun
## 3341    3         40 21:00:00    Sun
## 4681    4         17 21:00:00    Sun
## 6021    5         12 21:00:00    Sun
## 7361    6          0 21:00:00    Sun
## 662     1         24 21:15:00    Sun
## 2002    2         10 21:15:00    Sun
## 3342    3         50 21:15:00    Sun
## 4682    4         19 21:15:00    Sun
## 6022    5         12 21:15:00    Sun
## 7362    6          0 21:15:00    Sun
## 663     1         26 21:30:00    Sun
## 2003    2          9 21:30:00    Sun
## 3343    3         55 21:30:00    Sun
## 4683    4         22 21:30:00    Sun
## 6023    5         14 21:30:00    Sun
## 7363    6          0 21:30:00    Sun
## 664     1         26 21:45:00    Sun
## 2004    2          9 21:45:00    Sun
## 3344    3         60 21:45:00    Sun
## 4684    4         22 21:45:00    Sun
## 6024    5         12 21:45:00    Sun
## 7364    6          0 21:45:00    Sun
## 665     1         33 22:00:00    Sun
## 2005    2         12 22:00:00    Sun
## 3345    3         64 22:00:00    Sun
## 4685    4         23 22:00:00    Sun
## 6025    5         10 22:00:00    Sun
## 7365    6          0 22:00:00    Sun
## 666     1         35 22:15:00    Sun
## 2006    2         12 22:15:00    Sun
```

```
## 3346   3       68 22:15:00   Sun
## 4686   4       24 22:15:00   Sun
## 6026   5       14 22:15:00   Sun
## 7366   6        2 22:15:00   Sun
## 667    1       34 22:30:00   Sun
## 2007   2       14 22:30:00   Sun
## 3347   3       74 22:30:00   Sun
## 4687   4       24 22:30:00   Sun
## 6027   5       16 22:30:00   Sun
## 7367   6        3 22:30:00   Sun
## 668    1       36 22:45:00   Sun
## 2008   2       14 22:45:00   Sun
## 3348   3       72 22:45:00   Sun
## 4688   4       24 22:45:00   Sun
## 6028   5       18 22:45:00   Sun
## 7368   6        3 22:45:00   Sun
## 669    1       38 23:00:00   Sun
## 2009   2       14 23:00:00   Sun
## 3349   3       71 23:00:00   Sun
## 4689   4       27 23:00:00   Sun
## 6029   5       18 23:00:00   Sun
## 7369   6        3 23:00:00   Sun
## 670    1       43 23:15:00   Sun
## 2010   2       17 23:15:00   Sun
## 3350   3       77 23:15:00   Sun
## 4690   4       27 23:15:00   Sun
## 6030   5       19 23:15:00   Sun
## 7370   6        3 23:15:00   Sun
## 671    1       43 23:30:00   Sun
## 2011   2       18 23:30:00   Sun
## 3351   3       75 23:30:00   Sun
## 4691   4       27 23:30:00   Sun
## 6031   5       17 23:30:00   Sun
## 7371   6        3 23:30:00   Sun
## 672    1       43 23:45:00   Sun
## 2012   2       18 23:45:00   Sun
## 3352   3       76 23:45:00   Sun
## 4692   4       27 23:45:00   Sun
## 6032   5       17 23:45:00   Sun
## 7372   6        3 23:45:00   Sun
## 673    1       44 00:00:00   Mon
## 2013   2       22 00:00:00   Mon
## 3353   3       78 00:00:00   Mon
## 4693   4       25 00:00:00   Mon
## 6033   5       20 00:00:00   Mon
## 7373   6        3 00:00:00   Mon
## 674    1       44 00:15:00   Mon
## 2014   2       24 00:15:00   Mon
## 3354   3       86 00:15:00   Mon
## 4694   4       25 00:15:00   Mon
## 6034   5       20 00:15:00   Mon
## 7374   6        2 00:15:00   Mon
## 675    1       44 00:30:00   Mon
## 2015   2       26 00:30:00   Mon
```

```
## 3355    3        87 00:30:00    Mon
## 4695    4        21 00:30:00    Mon
## 6035    5        22 00:30:00    Mon
## 7375    6         2 00:30:00    Mon
## 676     1        46 00:45:00    Mon
## 2016    2        24 00:45:00    Mon
## 3356    3        87 00:45:00    Mon
## 4696    4        25 00:45:00    Mon
## 6036    5        22 00:45:00    Mon
## 7376    6         2 00:45:00    Mon
## 677     1        46 01:00:00    Mon
## 2017    2        26 01:00:00    Mon
## 3357    3        87 01:00:00    Mon
## 4697    4        25 01:00:00    Mon
## 6037    5        22 01:00:00    Mon
## 7377    6         2 01:00:00    Mon
## 678     1        46 01:15:00    Mon
## 2018    2        24 01:15:00    Mon
## 3358    3        89 01:15:00    Mon
## 4698    4        25 01:15:00    Mon
## 6038    5        22 01:15:00    Mon
## 7378    6         2 01:15:00    Mon
## 679     1        44 01:30:00    Mon
## 2019    2        24 01:30:00    Mon
## 3359    3        89 01:30:00    Mon
## 4699    4        21 01:30:00    Mon
## 6039    5        22 01:30:00    Mon
## 7379    6         2 01:30:00    Mon
## 680     1        46 01:45:00    Mon
## 2020    2        24 01:45:00    Mon
## 3360    3        91 01:45:00    Mon
## 4700    4        15 01:45:00    Mon
## 6040    5        22 01:45:00    Mon
## 7380    6         2 01:45:00    Mon
## 681     1        47 02:00:00    Mon
## 2021    2        24 02:00:00    Mon
## 3361    3        92 02:00:00    Mon
## 4701    4        15 02:00:00    Mon
## 6041    5        22 02:00:00    Mon
## 7381    6         2 02:00:00    Mon
## 682     1        47 02:15:00    Mon
## 2022    2        24 02:15:00    Mon
## 3362    3        93 02:15:00    Mon
## 4702    4        15 02:15:00    Mon
## 6042    5        22 02:15:00    Mon
## 7382    6         2 02:15:00    Mon
## 683     1        47 02:30:00    Mon
## 2023    2        26 02:30:00    Mon
## 3363    3        91 02:30:00    Mon
## 4703    4        15 02:30:00    Mon
## 6043    5        22 02:30:00    Mon
## 7383    6         2 02:30:00    Mon
## 684     1        49 02:45:00    Mon
## 2024    2        23 02:45:00    Mon
```

```
## 3364    3         91 02:45:00    Mon
## 4704    4         15 02:45:00    Mon
## 6044    5         22 02:45:00    Mon
## 7384    6          2 02:45:00    Mon
## 685     1         49 03:00:00    Mon
## 2025    2         27 03:00:00    Mon
## 3365    3         93 03:00:00    Mon
## 4705    4         15 03:00:00    Mon
## 6045    5         22 03:00:00    Mon
## 7385    6          2 03:00:00    Mon
## 686     1         49 03:15:00    Mon
## 2026    2         25 03:15:00    Mon
## 3366    3         93 03:15:00    Mon
## 4706    4         15 03:15:00    Mon
## 6046    5         22 03:15:00    Mon
## 7386    6          2 03:15:00    Mon
## 687     1         49 03:30:00    Mon
## 2027    2         25 03:30:00    Mon
## 3367    3         93 03:30:00    Mon
## 4707    4         13 03:30:00    Mon
## 6047    5         22 03:30:00    Mon
## 7387    6          2 03:30:00    Mon
## 688     1         45 03:45:00    Mon
## 2028    2         25 03:45:00    Mon
## 3368    3         95 03:45:00    Mon
## 4708    4         15 03:45:00    Mon
## 6048    5         22 03:45:00    Mon
## 7388    6          2 03:45:00    Mon
## 689     1         45 04:00:00    Mon
## 2029    2         26 04:00:00    Mon
## 3369    3         93 04:00:00    Mon
## 4709    4         15 04:00:00    Mon
## 6049    5         21 04:00:00    Mon
## 7389    6          2 04:00:00    Mon
## 690     1         45 04:15:00    Mon
## 2030    2         26 04:15:00    Mon
## 3370    3         95 04:15:00    Mon
## 4710    4         15 04:15:00    Mon
## 6050    5         21 04:15:00    Mon
## 7390    6          2 04:15:00    Mon
## 691     1         45 04:30:00    Mon
## 2031    2         26 04:30:00    Mon
## 3371    3         97 04:30:00    Mon
## 4711    4         15 04:30:00    Mon
## 6051    5         21 04:30:00    Mon
## 7391    6          2 04:30:00    Mon
## 692     1         45 04:45:00    Mon
## 2032    2         26 04:45:00    Mon
## 3372    3         97 04:45:00    Mon
## 4712    4         15 04:45:00    Mon
## 6052    5         21 04:45:00    Mon
## 7392    6          2 04:45:00    Mon
## 693     1         43 05:00:00    Mon
## 2033    2         26 05:00:00    Mon
```

```
## 3373      3            95 05:00:00      Mon
## 4713      4            15 05:00:00      Mon
## 6053      5            21 05:00:00      Mon
## 7393      6             2 05:00:00      Mon
## 694       1            43 05:15:00      Mon
## 2034      2            26 05:15:00      Mon
## 3374      3            95 05:15:00      Mon
## 4714      4            15 05:15:00      Mon
## 6054      5            21 05:15:00      Mon
## 7394      6             2 05:15:00      Mon
## 695       1            41 05:30:00      Mon
## 2035      2            26 05:30:00      Mon
## 3375      3            95 05:30:00      Mon
## 4715      4            15 05:30:00      Mon
## 6055      5            21 05:30:00      Mon
## 7395      6             2 05:30:00      Mon
## 696       1            43 05:45:00      Mon
## 2036      2            26 05:45:00      Mon
## 3376      3            87 05:45:00      Mon
## 4716      4            14 05:45:00      Mon
## 6056      5            21 05:45:00      Mon
## 7396      6             2 05:45:00      Mon
## 697       1            45 06:00:00      Mon
## 2037      2            26 06:00:00      Mon
## 3377      3            88 06:00:00      Mon
## 4717      4            10 06:00:00      Mon
## 6057      5            17 06:00:00      Mon
## 7397      6             2 06:00:00      Mon
## 698       1            42 06:15:00      Mon
## 2038      2            28 06:15:00      Mon
## 3378      3            90 06:15:00      Mon
## 4718      4            10 06:15:00      Mon
## 6058      5            15 06:15:00      Mon
## 7398      6             2 06:15:00      Mon
## 699       1            41 06:30:00      Mon
## 2039      2            28 06:30:00      Mon
## 3379      3            93 06:30:00      Mon
## 4719      4             9 06:30:00      Mon
## 6059      5            13 06:30:00      Mon
## 7399      6             2 06:30:00      Mon
## 700       1            41 06:45:00      Mon
## 2040      2            27 06:45:00      Mon
## 3380      3            83 06:45:00      Mon
## 4720      4             6 06:45:00      Mon
## 6060      5            11 06:45:00      Mon
## 7400      6             2 06:45:00      Mon
## 701       1            33 07:00:00      Mon
## 2041      2            27 07:00:00      Mon
## 3381      3            82 07:00:00      Mon
## 4721      4             7 07:00:00      Mon
## 6061      5            11 07:00:00      Mon
## 7401      6             2 07:00:00      Mon
## 702       1            35 07:15:00      Mon
## 2042      2            25 07:15:00      Mon
```

```
## 3382    3               76 07:15:00      Mon
## 4722    4                5 07:15:00      Mon
## 6062    5               10 07:15:00      Mon
## 7402    6                4 07:15:00      Mon
## 703     1               32 07:30:00      Mon
## 2043    2               21 07:30:00      Mon
## 3383    3               68 07:30:00      Mon
## 4723    4                3 07:30:00      Mon
## 6063    5                6 07:30:00      Mon
## 7403    6                2 07:30:00      Mon
## 704     1               40 07:45:00      Mon
## 2044    2               17 07:45:00      Mon
## 3384    3               59 07:45:00      Mon
## 4724    4                3 07:45:00      Mon
## 6064    5                6 07:45:00      Mon
## 7404    6                2 07:45:00      Mon
## 705     1               29 08:00:00      Mon
## 2045    2               16 08:00:00      Mon
## 3385    3               49 08:00:00      Mon
## 4725    4                4 08:00:00      Mon
## 6065    5                4 08:00:00      Mon
## 7405    6                3 08:00:00      Mon
## 706     1               32 08:15:00      Mon
## 2046    2               14 08:15:00      Mon
## 3386    3               40 08:15:00      Mon
## 4726    4                3 08:15:00      Mon
## 6066    5                1 08:15:00      Mon
## 7406    6                3 08:15:00      Mon
## 707     1               30 08:30:00      Mon
## 2047    2               10 08:30:00      Mon
## 3387    3               30 08:30:00      Mon
## 4727    4                3 08:30:00      Mon
## 6067    5                0 08:30:00      Mon
## 7407    6                3 08:30:00      Mon
## 708     1               29 08:45:00      Mon
## 2048    2                7 08:45:00      Mon
## 3388    3               26 08:45:00      Mon
## 4728    4                3 08:45:00      Mon
## 6068    5                2 08:45:00      Mon
## 7408    6                6 08:45:00      Mon
## 709     1               24 09:00:00      Mon
## 2049    2                5 09:00:00      Mon
## 3389    3               25 09:00:00      Mon
## 4729    4                1 09:00:00      Mon
## 6069    5                8 09:00:00      Mon
## 7409    6                8 09:00:00      Mon
## 710     1               23 09:15:00      Mon
## 2050    2                5 09:15:00      Mon
## 3390    3               26 09:15:00      Mon
## 4730    4                1 09:15:00      Mon
## 6070    5               10 09:15:00      Mon
## 7410    6                6 09:15:00      Mon
## 711     1               19 09:30:00      Mon
## 2051    2                6 09:30:00      Mon
```

```
## 3391    3          16 09:30:00    Mon
## 4731    4           2 09:30:00    Mon
## 6071    5          11 09:30:00    Mon
## 7411    6           4 09:30:00    Mon
## 712     1          15 09:45:00    Mon
## 2052    2           2 09:45:00    Mon
## 3392    3          14 09:45:00    Mon
## 4732    4           2 09:45:00    Mon
## 6072    5           6 09:45:00    Mon
## 7412    6           4 09:45:00    Mon
## 713     1          10 10:00:00    Mon
## 2053    2           3 10:00:00    Mon
## 3393    3          19 10:00:00    Mon
## 4733    4           5 10:00:00    Mon
## 6073    5           3 10:00:00    Mon
## 7413    6           4 10:00:00    Mon
## 714     1           8 10:15:00    Mon
## 2054    2           4 10:15:00    Mon
## 3394    3          20 10:15:00    Mon
## 4734    4           2 10:15:00    Mon
## 6074    5           3 10:15:00    Mon
## 7414    6           4 10:15:00    Mon
## 715     1           6 10:30:00    Mon
## 2055    2           3 10:30:00    Mon
## 3395    3          20 10:30:00    Mon
## 4735    4           3 10:30:00    Mon
## 6075    5           3 10:30:00    Mon
## 7415    6           4 10:30:00    Mon
## 716     1           8 10:45:00    Mon
## 2056    2           3 10:45:00    Mon
## 3396    3          20 10:45:00    Mon
## 4736    4           1 10:45:00    Mon
## 6076    5           4 10:45:00    Mon
## 7416    6           5 10:45:00    Mon
## 717     1          13 11:00:00    Mon
## 2057    2           3 11:00:00    Mon
## 3397    3          24 11:00:00    Mon
## 4737    4           2 11:00:00    Mon
## 6077    5           2 11:00:00    Mon
## 7417    6           5 11:00:00    Mon
## 718     1          13 11:15:00    Mon
## 2058    2           5 11:15:00    Mon
## 3398    3          18 11:15:00    Mon
## 4738    4           2 11:15:00    Mon
## 6078    5           4 11:15:00    Mon
## 7418    6           5 11:15:00    Mon
## 719     1          10 11:30:00    Mon
## 2059    2           3 11:30:00    Mon
## 3399    3          17 11:30:00    Mon
## 4739    4           2 11:30:00    Mon
## 6079    5           2 11:30:00    Mon
## 7419    6           5 11:30:00    Mon
## 720     1          10 11:45:00    Mon
## 2060    2           2 11:45:00    Mon
```

```
## 3400     3          18 11:45:00     Mon
## 4740     4           2 11:45:00     Mon
## 6080     5           2 11:45:00     Mon
## 7420     6           5 11:45:00     Mon
## 721      1           9 12:00:00     Mon
## 2061     2           1 12:00:00     Mon
## 3401     3          22 12:00:00     Mon
## 4741     4           3 12:00:00     Mon
## 6081     5           1 12:00:00     Mon
## 7421     6           5 12:00:00     Mon
## 722      1           4 12:15:00     Mon
## 2062     2           1 12:15:00     Mon
## 3402     3          15 12:15:00     Mon
## 4742     4           4 12:15:00     Mon
## 6082     5           2 12:15:00     Mon
## 7422     6           5 12:15:00     Mon
## 723      1           1 12:30:00     Mon
## 2063     2           1 12:30:00     Mon
## 3403     3          14 12:30:00     Mon
## 4743     4           6 12:30:00     Mon
## 6083     5           2 12:30:00     Mon
## 7423     6           3 12:30:00     Mon
## 724      1           3 12:45:00     Mon
## 2064     2           0 12:45:00     Mon
## 3404     3          12 12:45:00     Mon
## 4744     4           5 12:45:00     Mon
## 6084     5           1 12:45:00     Mon
## 7424     6           3 12:45:00     Mon
## 725      1           3 13:00:00     Mon
## 2065     2           1 13:00:00     Mon
## 3405     3          10 13:00:00     Mon
## 4745     4           4 13:00:00     Mon
## 6085     5           1 13:00:00     Mon
## 7425     6           4 13:00:00     Mon
## 726      1           3 13:15:00     Mon
## 2066     2           2 13:15:00     Mon
## 3406     3           6 13:15:00     Mon
## 4746     4           4 13:15:00     Mon
## 6086     5           2 13:15:00     Mon
## 7426     6           6 13:15:00     Mon
## 727      1           3 13:30:00     Mon
## 2067     2           3 13:30:00     Mon
## 3407     3          10 13:30:00     Mon
## 4747     4           2 13:30:00     Mon
## 6087     5           1 13:30:00     Mon
## 7427     6           6 13:30:00     Mon
## 728      1           9 13:45:00     Mon
## 2068     2           2 13:45:00     Mon
## 3408     3           5 13:45:00     Mon
## 4748     4           3 13:45:00     Mon
## 6088     5           1 13:45:00     Mon
## 7428     6           4 13:45:00     Mon
## 729      1           7 14:00:00     Mon
## 2069     2           1 14:00:00     Mon
```

```
## 3409    3              6 14:00:00      Mon
## 4749    4              3 14:00:00      Mon
## 6089    5              0 14:00:00      Mon
## 7429    6              2 14:00:00      Mon
## 730     1              6 14:15:00      Mon
## 2070    2              3 14:15:00      Mon
## 3410    3              4 14:15:00      Mon
## 4750    4              3 14:15:00      Mon
## 6090    5              0 14:15:00      Mon
## 7430    6              4 14:15:00      Mon
## 731     1              4 14:30:00      Mon
## 2071    2              0 14:30:00      Mon
## 3411    3              0 14:30:00      Mon
## 4751    4              2 14:30:00      Mon
## 6091    5              0 14:30:00      Mon
## 7431    6              2 14:30:00      Mon
## 732     1              4 14:45:00      Mon
## 2072    2              0 14:45:00      Mon
## 3412    3              2 14:45:00      Mon
## 4752    4              2 14:45:00      Mon
## 6092    5              0 14:45:00      Mon
## 7432    6              2 14:45:00      Mon
## 733     1              3 15:00:00      Mon
## 2073    2              0 15:00:00      Mon
## 3413    3              3 15:00:00      Mon
## 4753    4              1 15:00:00      Mon
## 6093    5              1 15:00:00      Mon
## 7433    6              2 15:00:00      Mon
## 734     1              5 15:15:00      Mon
## 2074    2              0 15:15:00      Mon
## 3414    3              3 15:15:00      Mon
## 4754    4              1 15:15:00      Mon
## 6094    5              7 15:15:00      Mon
## 7434    6              2 15:15:00      Mon
## 735     1              8 15:30:00      Mon
## 2075    2              0 15:30:00      Mon
## 3415    3              3 15:30:00      Mon
## 4755    4              0 15:30:00      Mon
## 6095    5              9 15:30:00      Mon
## 7435    6              2 15:30:00      Mon
## 736     1              8 15:45:00      Mon
## 2076    2              0 15:45:00      Mon
## 3416    3              4 15:45:00      Mon
## 4756    4              1 15:45:00      Mon
## 6096    5              4 15:45:00      Mon
## 7436    6              2 15:45:00      Mon
## 737     1              3 16:00:00      Mon
## 2077    2              0 16:00:00      Mon
## 3417    3              2 16:00:00      Mon
## 4757    4              4 16:00:00      Mon
## 6097    5              2 16:00:00      Mon
## 7437    6              2 16:00:00      Mon
## 738     1              0 16:15:00      Mon
## 2078    2              0 16:15:00      Mon
```

```
## 3418    3          2 16:15:00    Mon
## 4758    4          1 16:15:00    Mon
## 6098    5          1 16:15:00    Mon
## 7438    6          1 16:15:00    Mon
## 739     1          1 16:30:00    Mon
## 2079    2          0 16:30:00    Mon
## 3419    3          4 16:30:00    Mon
## 4759    4          2 16:30:00    Mon
## 6099    5          1 16:30:00    Mon
## 7439    6          0 16:30:00    Mon
## 740     1          4 16:45:00    Mon
## 2080    2          0 16:45:00    Mon
## 3420    3          3 16:45:00    Mon
## 4760    4          2 16:45:00    Mon
## 6100    5          1 16:45:00    Mon
## 7440    6          0 16:45:00    Mon
## 741     1          4 17:00:00    Mon
## 2081    2          2 17:00:00    Mon
## 3421    3          5 17:00:00    Mon
## 4761    4          1 17:00:00    Mon
## 6101    5          3 17:00:00    Mon
## 7441    6          0 17:00:00    Mon
## 742     1          3 17:15:00    Mon
## 2082    2          3 17:15:00    Mon
## 3422    3          0 17:15:00    Mon
## 4762    4          5 17:15:00    Mon
## 6102    5          0 17:15:00    Mon
## 7442    6          0 17:15:00    Mon
## 743     1          3 17:30:00    Mon
## 2083    2          4 17:30:00    Mon
## 3423    3          6 17:30:00    Mon
## 4763    4          2 17:30:00    Mon
## 6103    5          0 17:30:00    Mon
## 7443    6          0 17:30:00    Mon
## 744     1          2 17:45:00    Mon
## 2084    2          4 17:45:00    Mon
## 3424    3         12 17:45:00    Mon
## 4764    4          0 17:45:00    Mon
## 6104    5          0 17:45:00    Mon
## 7444    6          0 17:45:00    Mon
## 745     1          3 18:00:00    Mon
## 2085    2          0 18:00:00    Mon
## 3425    3          9 18:00:00    Mon
## 4765    4          1 18:00:00    Mon
## 6105    5          1 18:00:00    Mon
## 7445    6          4 18:00:00    Mon
## 746     1          9 18:15:00    Mon
## 2086    2          9 18:15:00    Mon
## 3426    3          8 18:15:00    Mon
## 4766    4          2 18:15:00    Mon
## 6106    5          1 18:15:00    Mon
## 7446    6          2 18:15:00    Mon
## 747     1          9 18:30:00    Mon
## 2087    2          0 18:30:00    Mon
```

```
## 3427    3         6 18:30:00    Mon
## 4767    4         6 18:30:00    Mon
## 6107    5         0 18:30:00    Mon
## 7447    6         2 18:30:00    Mon
## 748     1         8 18:45:00    Mon
## 2088    2         2 18:45:00    Mon
## 3428    3         8 18:45:00    Mon
## 4768    4         4 18:45:00    Mon
## 6108    5         3 18:45:00    Mon
## 7448    6         2 18:45:00    Mon
## 749     1         7 19:00:00    Mon
## 2089    2         3 19:00:00    Mon
## 3429    3        15 19:00:00    Mon
## 4769    4         5 19:00:00    Mon
## 6109    5         4 19:00:00    Mon
## 7449    6         0 19:00:00    Mon
## 750     1         6 19:15:00    Mon
## 2090    2         2 19:15:00    Mon
## 3430    3         7 19:15:00    Mon
## 4770    4         7 19:15:00    Mon
## 6110    5         3 19:15:00    Mon
## 7450    6         2 19:15:00    Mon
## 751     1         4 19:30:00    Mon
## 2091    2         2 19:30:00    Mon
## 3431    3         8 19:30:00    Mon
## 4771    4         8 19:30:00    Mon
## 6111    5         5 19:30:00    Mon
## 7451    6         2 19:30:00    Mon
## 752     1         3 19:45:00    Mon
## 2092    2         2 19:45:00    Mon
## 3432    3         5 19:45:00    Mon
## 4772    4        10 19:45:00    Mon
## 6112    5         3 19:45:00    Mon
## 7452    6         0 19:45:00    Mon
## 753     1         4 20:00:00    Mon
## 2093    2         4 20:00:00    Mon
## 3433    3         8 20:00:00    Mon
## 4773    4        10 20:00:00    Mon
## 6113    5         4 20:00:00    Mon
## 7453    6         2 20:00:00    Mon
## 754     1         3 20:15:00    Mon
## 2094    2         9 20:15:00    Mon
## 3434    3        10 20:15:00    Mon
## 4774    4        18 20:15:00    Mon
## 6114    5         6 20:15:00    Mon
## 7454    6         0 20:15:00    Mon
## 755     1        10 20:30:00    Mon
## 2095    2         5 20:30:00    Mon
## 3435    3        11 20:30:00    Mon
## 4775    4        18 20:30:00    Mon
## 6115    5         5 20:30:00    Mon
## 7455    6         3 20:30:00    Mon
## 756     1         6 20:45:00    Mon
## 2096    2        11 20:45:00    Mon
```

```
## 3436    3            18 20:45:00    Mon
## 4776    4            18 20:45:00    Mon
## 6116    5             4 20:45:00    Mon
## 7456    6             3 20:45:00    Mon
## 757     1             9 21:00:00    Mon
## 2097    2            11 21:00:00    Mon
## 3437    3            25 21:00:00    Mon
## 4777    4            18 21:00:00    Mon
## 6117    5             3 21:00:00    Mon
## 7457    6             1 21:00:00    Mon
## 758     1            12 21:15:00    Mon
## 2098    2            15 21:15:00    Mon
## 3438    3            30 21:15:00    Mon
## 4778    4            16 21:15:00    Mon
## 6118    5             4 21:15:00    Mon
## 7458    6             1 21:15:00    Mon
## 759     1            15 21:30:00    Mon
## 2099    2            19 21:30:00    Mon
## 3439    3            29 21:30:00    Mon
## 4779    4            20 21:30:00    Mon
## 6119    5             4 21:30:00    Mon
## 7459    6             2 21:30:00    Mon
## 760     1            14 21:45:00    Mon
## 2100    2            17 21:45:00    Mon
## 3440    3            31 21:45:00    Mon
## 4780    4             9 21:45:00    Mon
## 6120    5             6 21:45:00    Mon
## 7460    6             2 21:45:00    Mon
## 761     1            14 22:00:00    Mon
## 2101    2            17 22:00:00    Mon
## 3441    3            38 22:00:00    Mon
## 4781    4            10 22:00:00    Mon
## 6121    5             6 22:00:00    Mon
## 7461    6             2 22:00:00    Mon
## 762     1            14 22:15:00    Mon
## 2102    2            20 22:15:00    Mon
## 3442    3            37 22:15:00    Mon
## 4782    4            15 22:15:00    Mon
## 6122    5             4 22:15:00    Mon
## 7462    6             3 22:15:00    Mon
## 763     1            12 22:30:00    Mon
## 2103    2            24 22:30:00    Mon
## 3443    3            43 22:30:00    Mon
## 4783    4            15 22:30:00    Mon
## 6123    5             6 22:30:00    Mon
## 7463    6             3 22:30:00    Mon
## 764     1            17 22:45:00    Mon
## 2104    2            28 22:45:00    Mon
## 3444    3            44 22:45:00    Mon
## 4784    4            19 22:45:00    Mon
## 6124    5             5 22:45:00    Mon
## 7464    6             3 22:45:00    Mon
## 765     1            14 23:00:00    Mon
## 2105    2            30 23:00:00    Mon
```

```
## 3445     3                49 23:00:00        Mon
## 4785     4                18 23:00:00        Mon
## 6125     5                 5 23:00:00        Mon
## 7465     6                 1 23:00:00        Mon
## 766      1                15 23:15:00        Mon
## 2106     2                30 23:15:00        Mon
## 3446     3                49 23:15:00        Mon
## 4786     4                21 23:15:00        Mon
## 6126     5                 5 23:15:00        Mon
## 7466     6                 1 23:15:00        Mon
## 767      1                17 23:30:00        Mon
## 2107     2                29 23:30:00        Mon
## 3447     3                50 23:30:00        Mon
## 4787     4                24 23:30:00        Mon
## 6127     5                11 23:30:00        Mon
## 7467     6                 1 23:30:00        Mon
## 768      1                17 23:45:00        Mon
## 2108     2                27 23:45:00        Mon
## 3448     3                50 23:45:00        Mon
## 4788     4                25 23:45:00        Mon
## 6128     5                12 23:45:00        Mon
## 7468     6                 1 23:45:00        Mon
## 769      1                13 00:00:00        Tue
## 2109     2                27 00:00:00        Tue
## 3449     3                50 00:00:00        Tue
## 4789     4                25 00:00:00        Tue
## 6129     5                12 00:00:00        Tue
## 7469     6                 0 00:00:00        Tue
## 770      1                13 00:15:00        Tue
## 2110     2                27 00:15:00        Tue
## 3450     3                50 00:15:00        Tue
## 4790     4                25 00:15:00        Tue
## 6130     5                14 00:15:00        Tue
## 7470     6                 0 00:15:00        Tue
## 771      1                17 00:30:00        Tue
## 2111     2                25 00:30:00        Tue
## 3451     3                48 00:30:00        Tue
## 4791     4                24 00:30:00        Tue
## 6131     5                14 00:30:00        Tue
## 7471     6                 2 00:30:00        Tue
## 772      1                17 00:45:00        Tue
## 2112     2                25 00:45:00        Tue
## 3452     3                50 00:45:00        Tue
## 4792     4                24 00:45:00        Tue
## 6132     5                10 00:45:00        Tue
## 7472     6                 2 00:45:00        Tue
## 773      1                17 01:00:00        Tue
## 2113     2                23 01:00:00        Tue
## 3453     3                52 01:00:00        Tue
## 4793     4                24 01:00:00        Tue
## 6133     5                 8 01:00:00        Tue
## 7473     6                 2 01:00:00        Tue
## 774      1                15 01:15:00        Tue
## 2114     2                25 01:15:00        Tue
```

```
## 3454     3          53 01:15:00     Tue
## 4794     4          26 01:15:00     Tue
## 6134     5           8 01:15:00     Tue
## 7474     6           2 01:15:00     Tue
## 775      1          17 01:30:00     Tue
## 2115     2          25 01:30:00     Tue
## 3455     3          55 01:30:00     Tue
## 4795     4          26 01:30:00     Tue
## 6135     5           8 01:30:00     Tue
## 7475     6           2 01:30:00     Tue
## 776      1          19 01:45:00     Tue
## 2116     2          25 01:45:00     Tue
## 3456     3          57 01:45:00     Tue
## 4796     4          26 01:45:00     Tue
## 6136     5           8 01:45:00     Tue
## 7476     6           2 01:45:00     Tue
## 777      1          19 02:00:00     Tue
## 2117     2          27 02:00:00     Tue
## 3457     3          56 02:00:00     Tue
## 4797     4          24 02:00:00     Tue
## 6137     5           8 02:00:00     Tue
## 7477     6           2 02:00:00     Tue
## 778      1          19 02:15:00     Tue
## 2118     2          31 02:15:00     Tue
## 3458     3          56 02:15:00     Tue
## 4798     4          24 02:15:00     Tue
## 6138     5           8 02:15:00     Tue
## 7478     6           2 02:15:00     Tue
## 779      1          19 02:30:00     Tue
## 2119     2          31 02:30:00     Tue
## 3459     3          54 02:30:00     Tue
## 4799     4          24 02:30:00     Tue
## 6139     5           8 02:30:00     Tue
## 7479     6           2 02:30:00     Tue
## 780      1          21 02:45:00     Tue
## 2120     2          33 02:45:00     Tue
## 3460     3          56 02:45:00     Tue
## 4800     4          24 02:45:00     Tue
## 6140     5           8 02:45:00     Tue
## 7480     6           2 02:45:00     Tue
## 781      1          21 03:00:00     Tue
## 2121     2          31 03:00:00     Tue
## 3461     3          56 03:00:00     Tue
## 4801     4          24 03:00:00     Tue
## 6141     5           8 03:00:00     Tue
## 7481     6           4 03:00:00     Tue
## 782      1          21 03:15:00     Tue
## 2122     2          33 03:15:00     Tue
## 3462     3          56 03:15:00     Tue
## 4802     4          24 03:15:00     Tue
## 6142     5           8 03:15:00     Tue
## 7482     6           4 03:15:00     Tue
## 783      1          21 03:30:00     Tue
## 2123     2          35 03:30:00     Tue
```

```
## 3463    3              56 03:30:00    Tue
## 4803    4              24 03:30:00    Tue
## 6143    5               8 03:30:00    Tue
## 7483    6               4 03:30:00    Tue
## 784     1              21 03:45:00    Tue
## 2124    2              35 03:45:00    Tue
## 3464    3              56 03:45:00    Tue
## 4804    4              24 03:45:00    Tue
## 6144    5               8 03:45:00    Tue
## 7484    6               4 03:45:00    Tue
## 785     1              21 04:00:00    Tue
## 2125    2              33 04:00:00    Tue
## 3465    3              56 04:00:00    Tue
## 4805    4              24 04:00:00    Tue
## 6145    5               8 04:00:00    Tue
## 7485    6               4 04:00:00    Tue
## 786     1              21 04:15:00    Tue
## 2126    2              35 04:15:00    Tue
## 3466    3              54 04:15:00    Tue
## 4806    4              24 04:15:00    Tue
## 6146    5               8 04:15:00    Tue
## 7486    6               4 04:15:00    Tue
## 787     1              21 04:30:00    Tue
## 2127    2              35 04:30:00    Tue
## 3467    3              56 04:30:00    Tue
## 4807    4              24 04:30:00    Tue
## 6147    5               8 04:30:00    Tue
## 7487    6               2 04:30:00    Tue
## 788     1              21 04:45:00    Tue
## 2128    2              35 04:45:00    Tue
## 3468    3              54 04:45:00    Tue
## 4808    4              24 04:45:00    Tue
## 6148    5               8 04:45:00    Tue
## 7488    6               2 04:45:00    Tue
## 789     1              21 05:00:00    Tue
## 2129    2              35 05:00:00    Tue
## 3469    3              56 05:00:00    Tue
## 4809    4              24 05:00:00    Tue
## 6149    5               8 05:00:00    Tue
## 7489    6               2 05:00:00    Tue
## 790     1              21 05:15:00    Tue
## 2130    2              35 05:15:00    Tue
## 3470    3              56 05:15:00    Tue
## 4810    4              22 05:15:00    Tue
## 6150    5               8 05:15:00    Tue
## 7490    6               2 05:15:00    Tue
## 791     1              21 05:30:00    Tue
## 2131    2              35 05:30:00    Tue
## 3471    3              56 05:30:00    Tue
## 4811    4              21 05:30:00    Tue
## 6151    5               6 05:30:00    Tue
## 7491    6               2 05:30:00    Tue
## 792     1              21 05:45:00    Tue
## 2132    2              35 05:45:00    Tue
```

```
## 3472    3         56 05:45:00    Tue
## 4812    4         21 05:45:00    Tue
## 6152    5          6 05:45:00    Tue
## 7492    6          2 05:45:00    Tue
## 793     1         21 06:00:00    Tue
## 2133    2         35 06:00:00    Tue
## 3473    3         58 06:00:00    Tue
## 4813    4         20 06:00:00    Tue
## 6153    5          6 06:00:00    Tue
## 7493    6          3 06:00:00    Tue
## 794     1         22 06:15:00    Tue
## 2134    2         35 06:15:00    Tue
## 3474    3         56 06:15:00    Tue
## 4814    4         17 06:15:00    Tue
## 6154    5          6 06:15:00    Tue
## 7494    6          3 06:15:00    Tue
## 795     1         16 06:30:00    Tue
## 2135    2         35 06:30:00    Tue
## 3475    3         53 06:30:00    Tue
## 4815    4         16 06:30:00    Tue
## 6155    5          6 06:30:00    Tue
## 7495    6          4 06:30:00    Tue
## 796     1         16 06:45:00    Tue
## 2136    2         35 06:45:00    Tue
## 3476    3         46 06:45:00    Tue
## 4816    4         16 06:45:00    Tue
## 6156    5          6 06:45:00    Tue
## 7496    6          6 06:45:00    Tue
## 797     1         13 07:00:00    Tue
## 2137    2         35 07:00:00    Tue
## 3477    3         39 07:00:00    Tue
## 4817    4         14 07:00:00    Tue
## 6157    5          5 07:00:00    Tue
## 7497    6          4 07:00:00    Tue
## 798     1          9 07:15:00    Tue
## 2138    2         35 07:15:00    Tue
## 3478    3         31 07:15:00    Tue
## 4818    4         15 07:15:00    Tue
## 6158    5          5 07:15:00    Tue
## 7498    6          6 07:15:00    Tue
## 799     1         11 07:30:00    Tue
## 2139    2         28 07:30:00    Tue
## 3479    3         29 07:30:00    Tue
## 4819    4         10 07:30:00    Tue
## 6159    5          5 07:30:00    Tue
## 7499    6          7 07:30:00    Tue
## 800     1         13 07:45:00    Tue
## 2140    2         26 07:45:00    Tue
## 3480    3         17 07:45:00    Tue
## 4820    4          9 07:45:00    Tue
## 6160    5          5 07:45:00    Tue
## 7500    6          5 07:45:00    Tue
## 801     1          6 08:00:00    Tue
## 2141    2         16 08:00:00    Tue
```

```
## 3481    3            12 08:00:00      Tue
## 4821    4             6 08:00:00      Tue
## 6161    5             7 08:00:00      Tue
## 7501    6             5 08:00:00      Tue
## 802     1             8 08:15:00      Tue
## 2142    2            10 08:15:00      Tue
## 3482    3             8 08:15:00      Tue
## 4822    4             5 08:15:00      Tue
## 6162    5             5 08:15:00      Tue
## 7502    6             5 08:15:00      Tue
## 803     1            15 08:30:00      Tue
## 2143    2             8 08:30:00      Tue
## 3483    3             2 08:30:00      Tue
## 4823    4             5 08:30:00      Tue
## 6163    5             2 08:30:00      Tue
## 7503    6             6 08:30:00      Tue
## 804     1            15 08:45:00      Tue
## 2144    2             5 08:45:00      Tue
## 3484    3             2 08:45:00      Tue
## 4824    4             2 08:45:00      Tue
## 6164    5             4 08:45:00      Tue
## 7504    6            11 08:45:00      Tue
## 805     1            14 09:00:00      Tue
## 2145    2             7 09:00:00      Tue
## 3485    3             1 09:00:00      Tue
## 4825    4             1 09:00:00      Tue
## 6165    5             1 09:00:00      Tue
## 7505    6            15 09:00:00      Tue
## 806     1            11 09:15:00      Tue
## 2146    2             3 09:15:00      Tue
## 3486    3             3 09:15:00      Tue
## 4826    4             0 09:15:00      Tue
## 6166    5             1 09:15:00      Tue
## 7506    6            13 09:15:00      Tue
## 807     1             5 09:30:00      Tue
## 2147    2             3 09:30:00      Tue
## 3487    3             4 09:30:00      Tue
## 4827    4             1 09:30:00      Tue
## 6167    5             3 09:30:00      Tue
## 7507    6            13 09:30:00      Tue
## 808     1             2 09:45:00      Tue
## 2148    2             1 09:45:00      Tue
## 3488    3             3 09:45:00      Tue
## 4828    4             1 09:45:00      Tue
## 6168    5             1 09:45:00      Tue
## 7508    6            15 09:45:00      Tue
## 809     1             2 10:00:00      Tue
## 2149    2             1 10:00:00      Tue
## 3489    3             7 10:00:00      Tue
## 4829    4             2 10:00:00      Tue
## 6169    5             1 10:00:00      Tue
## 7509    6            15 10:00:00      Tue
## 810     1             5 10:15:00      Tue
## 2150    2             2 10:15:00      Tue
```

```
## 3490    3         15 10:15:00    Tue
## 4830    4          0 10:15:00    Tue
## 6170    5          1 10:15:00    Tue
## 7510    6         15 10:15:00    Tue
## 811     1          5 10:30:00    Tue
## 2151    2          2 10:30:00    Tue
## 3491    3          6 10:30:00    Tue
## 4831    4          0 10:30:00    Tue
## 6171    5          1 10:30:00    Tue
## 7511    6         15 10:30:00    Tue
## 812     1          6 10:45:00    Tue
## 2152    2          2 10:45:00    Tue
## 3492    3          0 10:45:00    Tue
## 4832    4          0 10:45:00    Tue
## 6172    5          1 10:45:00    Tue
## 7512    6         15 10:45:00    Tue
## 813     1          8 11:00:00    Tue
## 2153    2          0 11:00:00    Tue
## 3493    3          1 11:00:00    Tue
## 4833    4          1 11:00:00    Tue
## 6173    5          2 11:00:00    Tue
## 7513    6         15 11:00:00    Tue
## 814     1          8 11:15:00    Tue
## 2154    2          3 11:15:00    Tue
## 3494    3          2 11:15:00    Tue
## 4834    4          1 11:15:00    Tue
## 6174    5          0 11:15:00    Tue
## 7514    6         11 11:15:00    Tue
## 815     1          3 11:30:00    Tue
## 2155    2          1 11:30:00    Tue
## 3495    3          2 11:30:00    Tue
## 4835    4          1 11:30:00    Tue
## 6175    5          0 11:30:00    Tue
## 7515    6          9 11:30:00    Tue
## 816     1          1 11:45:00    Tue
## 2156    2          2 11:45:00    Tue
## 3496    3          5 11:45:00    Tue
## 4836    4          2 11:45:00    Tue
## 6176    5          6 11:45:00    Tue
## 7516    6          8 11:45:00    Tue
## 817     1          3 12:00:00    Tue
## 2157    2          4 12:00:00    Tue
## 3497    3         11 12:00:00    Tue
## 4837    4          5 12:00:00    Tue
## 6177    5          6 12:00:00    Tue
## 7517    6          8 12:00:00    Tue
## 818     1          2 12:15:00    Tue
## 2158    2          3 12:15:00    Tue
## 3498    3         10 12:15:00    Tue
## 4838    4          2 12:15:00    Tue
## 6178    5          2 12:15:00    Tue
## 7518    6          7 12:15:00    Tue
## 819     1          2 12:30:00    Tue
## 2159    2          2 12:30:00    Tue
```

```
## 3499      3              11 12:30:00      Tue
## 4839      4               3 12:30:00      Tue
## 6179      5               2 12:30:00      Tue
## 7519      6               5 12:30:00      Tue
## 820       1               1 12:45:00      Tue
## 2160      2               0 12:45:00      Tue
## 3500      3               6 12:45:00      Tue
## 4840      4               2 12:45:00      Tue
## 6180      5               4 12:45:00      Tue
## 7520      6               5 12:45:00      Tue
## 821       1               2 13:00:00      Tue
## 2161      2               0 13:00:00      Tue
## 3501      3               5 13:00:00      Tue
## 4841      4               3 13:00:00      Tue
## 6181      5               2 13:00:00      Tue
## 7521      6               3 13:00:00      Tue
## 822       1               2 13:15:00      Tue
## 2162      2               0 13:15:00      Tue
## 3502      3               4 13:15:00      Tue
## 4842      4               4 13:15:00      Tue
## 6182      5               1 13:15:00      Tue
## 7522      6               2 13:15:00      Tue
## 823       1               2 13:30:00      Tue
## 2163      2               0 13:30:00      Tue
## 3503      3               8 13:30:00      Tue
## 4843      4               5 13:30:00      Tue
## 6183      5               0 13:30:00      Tue
## 7523      6               2 13:30:00      Tue
## 824       1               0 13:45:00      Tue
## 2164      2               0 13:45:00      Tue
## 3504      3               6 13:45:00      Tue
## 4844      4               3 13:45:00      Tue
## 6184      5               1 13:45:00      Tue
## 7524      6               4 13:45:00      Tue
## 825       1               2 14:00:00      Tue
## 2165      2               0 14:00:00      Tue
## 3505      3               0 14:00:00      Tue
## 4845      4               3 14:00:00      Tue
## 6185      5               1 14:00:00      Tue
## 7525      6               2 14:00:00      Tue
## 826       1               5 14:15:00      Tue
## 2166      2               0 14:15:00      Tue
## 3506      3               2 14:15:00      Tue
## 4846      4               5 14:15:00      Tue
## 6186      5               3 14:15:00      Tue
## 7526      6               2 14:15:00      Tue
## 827       1               1 14:30:00      Tue
## 2167      2               2 14:30:00      Tue
## 3507      3               7 14:30:00      Tue
## 4847      4               3 14:30:00      Tue
## 6187      5               6 14:30:00      Tue
## 7527      6               0 14:30:00      Tue
## 828       1               3 14:45:00      Tue
## 2168      2               2 14:45:00      Tue
```

```
## 3508     3          6 14:45:00     Tue
## 4848     4          5 14:45:00     Tue
## 6188     5          5 14:45:00     Tue
## 7528     6          0 14:45:00     Tue
## 829      1          6 15:00:00     Tue
## 2169     2          2 15:00:00     Tue
## 3509     3          4 15:00:00     Tue
## 4849     4          8 15:00:00     Tue
## 6189     5          7 15:00:00     Tue
## 7529     6          0 15:00:00     Tue
## 830      1          7 15:15:00     Tue
## 2170     2          2 15:15:00     Tue
## 3510     3          8 15:15:00     Tue
## 4850     4          3 15:15:00     Tue
## 6190     5          6 15:15:00     Tue
## 7530     6          0 15:15:00     Tue
## 831      1          6 15:30:00     Tue
## 2171     2          2 15:30:00     Tue
## 3511     3          3 15:30:00     Tue
## 4851     4          4 15:30:00     Tue
## 6191     5          4 15:30:00     Tue
## 7531     6          3 15:30:00     Tue
## 832      1         21 15:45:00     Tue
## 2172     2          2 15:45:00     Tue
## 3512     3          4 15:45:00     Tue
## 4852     4          5 15:45:00     Tue
## 6192     5          4 15:45:00     Tue
## 7532     6          6 15:45:00     Tue
## 833      1         21 16:00:00     Tue
## 2173     2          0 16:00:00     Tue
## 3513     3          3 16:00:00     Tue
## 4853     4          2 16:00:00     Tue
## 6193     5          4 16:00:00     Tue
## 7533     6          4 16:00:00     Tue
## 834      1         17 16:15:00     Tue
## 2174     2          2 16:15:00     Tue
## 3514     3          2 16:15:00     Tue
## 4854     4          2 16:15:00     Tue
## 6194     5          3 16:15:00     Tue
## 7534     6          4 16:15:00     Tue
## 835      1         17 16:30:00     Tue
## 2175     2          5 16:30:00     Tue
## 3515     3          2 16:30:00     Tue
## 4855     4          1 16:30:00     Tue
## 6195     5          2 16:30:00     Tue
## 7535     6          2 16:30:00     Tue
## 836      1         17 16:45:00     Tue
## 2176     2          2 16:45:00     Tue
## 3516     3          3 16:45:00     Tue
## 4856     4          0 16:45:00     Tue
## 6196     5          1 16:45:00     Tue
## 7536     6          2 16:45:00     Tue
## 837      1         13 17:00:00     Tue
## 2177     2          5 17:00:00     Tue
```

```
## 3517    3            12 17:00:00      Tue
## 4857    4             4 17:00:00      Tue
## 6197    5             1 17:00:00      Tue
## 7537    6             0 17:00:00      Tue
## 838     1            12 17:15:00      Tue
## 2178    2             2 17:15:00      Tue
## 3518    3            13 17:15:00      Tue
## 4858    4             7 17:15:00      Tue
## 6198    5             2 17:15:00      Tue
## 7538    6             0 17:15:00      Tue
## 839     1            16 17:30:00      Tue
## 2179    2             2 17:30:00      Tue
## 3519    3             9 17:30:00      Tue
## 4859    4             8 17:30:00      Tue
## 6199    5             6 17:30:00      Tue
## 7539    6             0 17:30:00      Tue
## 840     1            21 17:45:00      Tue
## 2180    2             1 17:45:00      Tue
## 3520    3             3 17:45:00      Tue
## 4860    4             5 17:45:00      Tue
## 6200    5             6 17:45:00      Tue
## 7540    6             0 17:45:00      Tue
## 841     1            17 18:00:00      Tue
## 2181    2             1 18:00:00      Tue
## 3521    3             5 18:00:00      Tue
## 4861    4            10 18:00:00      Tue
## 6201    5             4 18:00:00      Tue
## 7541    6             0 18:00:00      Tue
## 842     1            12 18:15:00      Tue
## 2182    2             4 18:15:00      Tue
## 3522    3             9 18:15:00      Tue
## 4862    4            19 18:15:00      Tue
## 6202    5             2 18:15:00      Tue
## 7542    6             1 18:15:00      Tue
## 843     1            10 18:30:00      Tue
## 2183    2             4 18:30:00      Tue
## 3523    3            10 18:30:00      Tue
## 4863    4            14 18:30:00      Tue
## 6203    5             1 18:30:00      Tue
## 7543    6             1 18:30:00      Tue
## 844     1            15 18:45:00      Tue
## 2184    2             1 18:45:00      Tue
## 3524    3             7 18:45:00      Tue
## 4864    4            12 18:45:00      Tue
## 6204    5             2 18:45:00      Tue
## 7544    6             1 18:45:00      Tue
## 845     1            14 19:00:00      Tue
## 2185    2             1 19:00:00      Tue
## 3525    3            11 19:00:00      Tue
## 4865    4             7 19:00:00      Tue
## 6205    5             0 19:00:00      Tue
## 7545    6             0 19:00:00      Tue
## 846     1            19 19:30:00      Tue
## 2186    2             2 19:30:00      Tue
```

```
## 3526    3        18 19:30:00    Tue
## 4866    4         6 19:30:00    Tue
## 6206    5         2 19:30:00    Tue
## 7546    6         1 19:30:00    Tue
## 847     1        11 19:45:00    Tue
## 2187    2         8 19:45:00    Tue
## 3527    3        24 19:45:00    Tue
## 4867    4         4 19:45:00    Tue
## 6207    5         5 19:45:00    Tue
## 7547    6         0 19:45:00    Tue
## 848     1        10 20:00:00    Tue
## 2188    2         7 20:00:00    Tue
## 3528    3        26 20:00:00    Tue
## 4868    4         7 20:00:00    Tue
## 6208    5         4 20:00:00    Tue
## 7548    6         0 20:00:00    Tue
## 849     1        10 20:45:00    Tue
## 2189    2         8 20:45:00    Tue
## 3529    3        39 20:45:00    Tue
## 4869    4         9 20:45:00    Tue
## 6209    5         0 20:45:00    Tue
## 7549    6         0 20:45:00    Tue
## 850     1         7 21:00:00    Tue
## 2190    2        10 21:00:00    Tue
## 3530    3        36 21:00:00    Tue
## 4870    4        12 21:00:00    Tue
## 6210    5         0 21:00:00    Tue
## 7550    6         0 21:00:00    Tue
## 851     1         7 21:15:00    Tue
## 2191    2        10 21:15:00    Tue
## 3531    3        38 21:15:00    Tue
## 4871    4        10 21:15:00    Tue
## 6211    5         0 21:15:00    Tue
## 7551    6         0 21:15:00    Tue
## 852     1         9 21:30:00    Tue
## 2192    2        10 21:30:00    Tue
## 3532    3        36 21:30:00    Tue
## 4872    4        13 21:30:00    Tue
## 6212    5         2 21:30:00    Tue
## 7552    6         0 21:30:00    Tue
## 853     1         8 21:45:00    Tue
## 2193    2        10 21:45:00    Tue
## 3533    3        31 21:45:00    Tue
## 4873    4        15 21:45:00    Tue
## 6213    5         0 21:45:00    Tue
## 7553    6         0 21:45:00    Tue
## 854     1        10 22:00:00    Tue
## 2194    2        13 22:00:00    Tue
## 3534    3        38 22:00:00    Tue
## 4874    4        17 22:00:00    Tue
## 6214    5         2 22:00:00    Tue
## 7554    6         0 22:00:00    Tue
## 855     1        11 22:15:00    Tue
## 2195    2        13 22:15:00    Tue
```

```
## 3535      3          39 22:15:00      Tue
## 4875      4          16 22:15:00      Tue
## 6215      5           0 22:15:00      Tue
## 7555      6           0 22:15:00      Tue
## 856       1          13 22:30:00      Tue
## 2196      2          14 22:30:00      Tue
## 3536      3          36 22:30:00      Tue
## 4876      4          15 22:30:00      Tue
## 6216      5           1 22:30:00      Tue
## 7556      6           0 22:30:00      Tue
## 857       1          15 22:45:00      Tue
## 2197      2          16 22:45:00      Tue
## 3537      3          41 22:45:00      Tue
## 4877      4          18 22:45:00      Tue
## 6217      5           1 22:45:00      Tue
## 7557      6           0 22:45:00      Tue
## 858       1          16 23:00:00      Tue
## 2198      2          20 23:00:00      Tue
## 3538      3          44 23:00:00      Tue
## 4878      4          12 23:00:00      Tue
## 6218      5           6 23:00:00      Tue
## 7558      6           0 23:00:00      Tue
## 859       1          15 23:15:00      Tue
## 2199      2          16 23:15:00      Tue
## 3539      3          41 23:15:00      Tue
## 4879      4          13 23:15:00      Tue
## 6219      5           5 23:15:00      Tue
## 7559      6           0 23:15:00      Tue
## 860       1          15 23:30:00      Tue
## 2200      2          20 23:30:00      Tue
## 3540      3          42 23:30:00      Tue
## 4880      4          16 23:30:00      Tue
## 6220      5           5 23:30:00      Tue
## 7560      6           0 23:30:00      Tue
## 861       1          13 23:45:00      Tue
## 2201      2          20 23:45:00      Tue
## 3541      3          45 23:45:00      Tue
## 4881      4          18 23:45:00      Tue
## 6221      5           5 23:45:00      Tue
## 7561      6           0 23:45:00      Tue
## 862       1          11 00:00:00      Wed
## 2202      2          24 00:00:00      Wed
## 3542      3          53 00:00:00      Wed
## 4882      4          17 00:00:00      Wed
## 6222      5           5 00:00:00      Wed
## 7562      6           0 00:00:00      Wed
## 863       1           9 00:15:00      Wed
## 2203      2          26 00:15:00      Wed
## 3543      3          55 00:15:00      Wed
## 4883      4          18 00:15:00      Wed
## 6223      5           6 00:15:00      Wed
## 7563      6           0 00:15:00      Wed
## 864       1           7 00:30:00      Wed
## 2204      2          28 00:30:00      Wed
```

```
## 3544    3         55 00:30:00      Wed
## 4884    4         20 00:30:00      Wed
## 6224    5          8 00:30:00      Wed
## 7564    6          0 00:30:00      Wed
## 865     1          7 00:45:00      Wed
## 2205    2         30 00:45:00      Wed
## 3545    3         53 00:45:00      Wed
## 4885    4         21 00:45:00      Wed
## 6225    5          6 00:45:00      Wed
## 7565    6          0 00:45:00      Wed
## 866     1          6 01:00:00      Wed
## 2206    2         31 01:00:00      Wed
## 3546    3         53 01:00:00      Wed
## 4886    4         21 01:00:00      Wed
## 6226    5          8 01:00:00      Wed
## 7566    6          0 01:00:00      Wed
## 867     1          6 01:15:00      Wed
## 2207    2         29 01:15:00      Wed
## 3547    3         53 01:15:00      Wed
## 4887    4         21 01:15:00      Wed
## 6227    5          8 01:15:00      Wed
## 7567    6          0 01:15:00      Wed
## 868     1          6 01:30:00      Wed
## 2208    2         31 01:30:00      Wed
## 3548    3         57 01:30:00      Wed
## 4888    4         21 01:30:00      Wed
## 6228    5         10 01:30:00      Wed
## 7568    6          2 01:30:00      Wed
## 869     1          6 01:45:00      Wed
## 2209    2         31 01:45:00      Wed
## 3549    3         56 01:45:00      Wed
## 4889    4         21 01:45:00      Wed
## 6229    5         10 01:45:00      Wed
## 7569    6          2 01:45:00      Wed
## 870     1          8 02:00:00      Wed
## 2210    2         33 02:00:00      Wed
## 3550    3         56 02:00:00      Wed
## 4890    4         21 02:00:00      Wed
## 6230    5         10 02:00:00      Wed
## 7570    6          4 02:00:00      Wed
## 871     1          8 02:15:00      Wed
## 2211    2         33 02:15:00      Wed
## 3551    3         56 02:15:00      Wed
## 4891    4         21 02:15:00      Wed
## 6231    5          8 02:15:00      Wed
## 7571    6          4 02:15:00      Wed
## 872     1          8 02:30:00      Wed
## 2212    2         31 02:30:00      Wed
## 3552    3         52 02:30:00      Wed
## 4892    4         21 02:30:00      Wed
## 6232    5         10 02:30:00      Wed
## 7572    6          4 02:30:00      Wed
## 873     1          8 02:45:00      Wed
## 2213    2         31 02:45:00      Wed
```

```
## 3553    3              54 02:45:00    Wed
## 4893    4              21 02:45:00    Wed
## 6233    5              10 02:45:00    Wed
## 7573    6               4 02:45:00    Wed
## 874     1               8 03:00:00    Wed
## 2214    2              32 03:00:00    Wed
## 3554    3              52 03:00:00    Wed
## 4894    4              21 03:00:00    Wed
## 6234    5              12 03:00:00    Wed
## 7574    6               4 03:00:00    Wed
## 875     1               8 03:15:00    Wed
## 2215    2              32 03:15:00    Wed
## 3555    3              54 03:15:00    Wed
## 4895    4              21 03:15:00    Wed
## 6235    5              12 03:15:00    Wed
## 7575    6               6 03:15:00    Wed
## 876     1               8 03:30:00    Wed
## 2216    2              32 03:30:00    Wed
## 3556    3              54 03:30:00    Wed
## 4896    4              23 03:30:00    Wed
## 6236    5              12 03:30:00    Wed
## 7576    6               4 03:30:00    Wed
## 877     1               8 03:45:00    Wed
## 2217    2              32 03:45:00    Wed
## 3557    3              54 03:45:00    Wed
## 4897    4              23 03:45:00    Wed
## 6237    5              12 03:45:00    Wed
## 7577    6               4 03:45:00    Wed
## 878     1               8 04:00:00    Wed
## 2218    2              32 04:00:00    Wed
## 3558    3              52 04:00:00    Wed
## 4898    4              23 04:00:00    Wed
## 6238    5              12 04:00:00    Wed
## 7578    6               5 04:00:00    Wed
## 879     1               8 04:15:00    Wed
## 2219    2              32 04:15:00    Wed
## 3559    3              52 04:15:00    Wed
## 4899    4              23 04:15:00    Wed
## 6239    5              12 04:15:00    Wed
## 7579    6               5 04:15:00    Wed
## 880     1               8 04:30:00    Wed
## 2220    2              32 04:30:00    Wed
## 3560    3              52 04:30:00    Wed
## 4900    4              23 04:30:00    Wed
## 6240    5              12 04:30:00    Wed
## 7580    6               5 04:30:00    Wed
## 881     1               8 04:45:00    Wed
## 2221    2              32 04:45:00    Wed
## 3561    3              52 04:45:00    Wed
## 4901    4              23 04:45:00    Wed
## 6241    5              10 04:45:00    Wed
## 7581    6               7 04:45:00    Wed
## 882     1               8 05:00:00    Wed
## 2222    2              32 05:00:00    Wed
```

```
## 3562    3          52 05:00:00    Wed
## 4902    4          21 05:00:00    Wed
## 6242    5          12 05:00:00    Wed
## 7582    6           7 05:00:00    Wed
## 883     1           8 05:15:00    Wed
## 2223    2          32 05:15:00    Wed
## 3563    3          52 05:15:00    Wed
## 4903    4          21 05:15:00    Wed
## 6243    5          10 05:15:00    Wed
## 7583    6           7 05:15:00    Wed
## 884     1           8 05:30:00    Wed
## 2224    2          32 05:30:00    Wed
## 3564    3          50 05:30:00    Wed
## 4904    4          21 05:30:00    Wed
## 6244    5          12 05:30:00    Wed
## 7584    6           9 05:30:00    Wed
## 885     1           8 05:45:00    Wed
## 2225    2          32 05:45:00    Wed
## 3565    3          50 05:45:00    Wed
## 4905    4          19 05:45:00    Wed
## 6245    5          10 05:45:00    Wed
## 7585    6           7 05:45:00    Wed
## 886     1          10 06:00:00    Wed
## 2226    2          34 06:00:00    Wed
## 3566    3          50 06:00:00    Wed
## 4906    4          16 06:00:00    Wed
## 6246    5          10 06:00:00    Wed
## 7586    6           7 06:00:00    Wed
## 887     1           8 06:15:00    Wed
## 2227    2          34 06:15:00    Wed
## 3567    3          49 06:15:00    Wed
## 4907    4          14 06:15:00    Wed
## 6247    5           8 06:15:00    Wed
## 7587    6           6 06:15:00    Wed
## 888     1           8 06:30:00    Wed
## 2228    2          34 06:30:00    Wed
## 3568    3          47 06:30:00    Wed
## 4908    4          14 06:30:00    Wed
## 6248    5           8 06:30:00    Wed
## 7588    6           6 06:30:00    Wed
## 889     1           8 06:45:00    Wed
## 2229    2          34 06:45:00    Wed
## 3569    3          45 06:45:00    Wed
## 4909    4          11 06:45:00    Wed
## 6249    5           6 06:45:00    Wed
## 7589    6           7 06:45:00    Wed
## 890     1           8 07:00:00    Wed
## 2230    2          34 07:00:00    Wed
## 3570    3          41 07:00:00    Wed
## 4910    4          16 07:00:00    Wed
## 6250    5           6 07:00:00    Wed
## 7590    6           7 07:00:00    Wed
## 891     1           7 07:15:00    Wed
## 2231    2          34 07:15:00    Wed
```

```
## 3571    3          36 07:15:00     Wed
## 4911    4          17 07:15:00     Wed
## 6251    5           5 07:15:00     Wed
## 7591    6           7 07:15:00     Wed
## 892     1          12 07:30:00     Wed
## 2232    2          32 07:30:00     Wed
## 3572    3          33 07:30:00     Wed
## 4912    4           9 07:30:00     Wed
## 6252    5           3 07:30:00     Wed
## 7592    6           8 07:30:00     Wed
## 893     1          10 07:45:00     Wed
## 2233    2          28 07:45:00     Wed
## 3573    3          18 07:45:00     Wed
## 4913    4           7 07:45:00     Wed
## 6253    5           3 07:45:00     Wed
## 7593    6           6 07:45:00     Wed
## 894     1           8 08:00:00     Wed
## 2234    2          18 08:00:00     Wed
## 3574    3          10 08:00:00     Wed
## 4914    4           7 08:00:00     Wed
## 6254    5           5 08:00:00     Wed
## 7594    6           6 08:00:00     Wed
## 895     1           7 08:15:00     Wed
## 2235    2          13 08:15:00     Wed
## 3575    3           8 08:15:00     Wed
## 4915    4          12 08:15:00     Wed
## 6255    5           2 08:15:00     Wed
## 7595    6           5 08:15:00     Wed
## 896     1           5 08:30:00     Wed
## 2236    2           7 08:30:00     Wed
## 3576    3          10 08:30:00     Wed
## 4916    4           9 08:30:00     Wed
## 6256    5           4 08:30:00     Wed
## 7596    6           7 08:30:00     Wed
## 897     1           6 08:45:00     Wed
## 2237    2           8 08:45:00     Wed
## 3577    3           7 08:45:00     Wed
## 4917    4           7 08:45:00     Wed
## 6257    5           4 08:45:00     Wed
## 7597    6           7 08:45:00     Wed
## 898     1           4 09:00:00     Wed
## 2238    2           4 09:00:00     Wed
## 3578    3           6 09:00:00     Wed
## 4918    4           6 09:00:00     Wed
## 6258    5           2 09:00:00     Wed
## 7598    6           9 09:00:00     Wed
## 899     1           1 09:15:00     Wed
## 2239    2           2 09:15:00     Wed
## 3579    3          11 09:15:00     Wed
## 4919    4           5 09:15:00     Wed
## 6259    5           1 09:15:00     Wed
## 7599    6          10 09:15:00     Wed
## 900     1           0 09:30:00     Wed
## 2240    2           0 09:30:00     Wed
```

```
## 3580    3          8 09:30:00    Wed
## 4920    4          1 09:30:00    Wed
## 6260    5          1 09:30:00    Wed
## 7600    6         10 09:30:00    Wed
## 901     1          1 09:45:00    Wed
## 2241    2          0 09:45:00    Wed
## 3581    3          9 09:45:00    Wed
## 4921    4          1 09:45:00    Wed
## 6261    5          0 09:45:00    Wed
## 7601    6         10 09:45:00    Wed
## 902     1          3 10:00:00    Wed
## 2242    2          0 10:00:00    Wed
## 3582    3          7 10:00:00    Wed
## 4922    4          1 10:00:00    Wed
## 6262    5          0 10:00:00    Wed
## 7602    6         10 10:00:00    Wed
## 903     1          6 10:15:00    Wed
## 2243    2          0 10:15:00    Wed
## 3583    3          2 10:15:00    Wed
## 4923    4          1 10:15:00    Wed
## 6263    5          2 10:15:00    Wed
## 7603    6          9 10:15:00    Wed
## 904     1          4 10:30:00    Wed
## 2244    2          0 10:30:00    Wed
## 3584    3          0 10:30:00    Wed
## 4924    4          1 10:30:00    Wed
## 6264    5          3 10:30:00    Wed
## 7604    6          9 10:30:00    Wed
## 905     1          3 10:45:00    Wed
## 2245    2          0 10:45:00    Wed
## 3585    3          0 10:45:00    Wed
## 4925    4          0 10:45:00    Wed
## 6265    5          2 10:45:00    Wed
## 7605    6          9 10:45:00    Wed
## 906     1          1 11:00:00    Wed
## 2246    2          0 11:00:00    Wed
## 3586    3          2 11:00:00    Wed
## 4926    4          2 11:00:00    Wed
## 6266    5          1 11:00:00    Wed
## 7606    6          9 11:00:00    Wed
## 907     1          0 11:15:00    Wed
## 2247    2          0 11:15:00    Wed
## 3587    3          3 11:15:00    Wed
## 4927    4          0 11:15:00    Wed
## 6267    5          6 11:15:00    Wed
## 7607    6          9 11:15:00    Wed
## 908     1          0 11:30:00    Wed
## 2248    2          0 11:30:00    Wed
## 3588    3          3 11:30:00    Wed
## 4928    4          0 11:30:00    Wed
## 6268    5          6 11:30:00    Wed
## 7608    6          7 11:30:00    Wed
## 909     1          2 11:45:00    Wed
## 2249    2          0 11:45:00    Wed
```

```
## 3589    3              0 11:45:00       Wed
## 4929    4              0 11:45:00       Wed
## 6269    5              6 11:45:00       Wed
## 7609    6              5 11:45:00       Wed
## 910     1              0 12:00:00       Wed
## 2250    2              0 12:00:00       Wed
## 3590    3              5 12:00:00       Wed
## 4930    4              0 12:00:00       Wed
## 6270    5              8 12:00:00       Wed
## 7610    6              5 12:00:00       Wed
## 911     1              0 12:15:00       Wed
## 2251    2              0 12:15:00       Wed
## 3591    3              5 12:15:00       Wed
## 4931    4              0 12:15:00       Wed
## 6271    5              8 12:15:00       Wed
## 7611    6              7 12:15:00       Wed
## 912     1              4 12:30:00       Wed
## 2252    2              2 12:30:00       Wed
## 3592    3              4 12:30:00       Wed
## 4932    4              0 12:30:00       Wed
## 6272    5              7 12:30:00       Wed
## 7612    6              3 12:30:00       Wed
## 913     1              2 12:45:00       Wed
## 2253    2              2 12:45:00       Wed
## 3593    3              5 12:45:00       Wed
## 4933    4              1 12:45:00       Wed
## 6273    5              7 12:45:00       Wed
## 7613    6              3 12:45:00       Wed
## 914     1              3 13:00:00       Wed
## 2254    2              0 13:00:00       Wed
## 3594    3              3 13:00:00       Wed
## 4934    4              1 13:00:00       Wed
## 6274    5              9 13:00:00       Wed
## 7614    6              6 13:00:00       Wed
## 915     1              3 13:15:00       Wed
## 2255    2              0 13:15:00       Wed
## 3595    3              4 13:15:00       Wed
## 4935    4              0 13:15:00       Wed
## 6275    5              9 13:15:00       Wed
## 7615    6              6 13:15:00       Wed
## 916     1              2 13:30:00       Wed
## 2256    2              0 13:30:00       Wed
## 3596    3              7 13:30:00       Wed
## 4936    4              3 13:30:00       Wed
## 6276    5              3 13:30:00       Wed
## 7616    6              6 13:30:00       Wed
## 917     1              2 13:45:00       Wed
## 2257    2              0 13:45:00       Wed
## 3597    3              8 13:45:00       Wed
## 4937    4              3 13:45:00       Wed
## 6277    5              1 13:45:00       Wed
## 7617    6              7 13:45:00       Wed
## 918     1             31 14:00:00       Wed
## 2258    2              2 14:00:00       Wed
```

```
## 3598    3            6 14:00:00     Wed
## 4938    4            5 14:00:00     Wed
## 6278    5            1 14:00:00     Wed
## 7618    6            9 14:00:00     Wed
## 919     1           32 14:15:00     Wed
## 2259    2            4 14:15:00     Wed
## 3599    3           16 14:15:00     Wed
## 4939    4            4 14:15:00     Wed
## 6279    5            1 14:15:00     Wed
## 7619    6            7 14:15:00     Wed
## 920     1           31 14:30:00     Wed
## 2260    2            0 14:30:00     Wed
## 3600    3           27 14:30:00     Wed
## 4940    4            2 14:30:00     Wed
## 6280    5            2 14:30:00     Wed
## 7620    6            4 14:30:00     Wed
## 921     1           25 14:45:00     Wed
## 2261    2            2 14:45:00     Wed
## 3601    3           19 14:45:00     Wed
## 4941    4            3 14:45:00     Wed
## 6281    5            3 14:45:00     Wed
## 7621    6            8 14:45:00     Wed
## 922     1           24 15:00:00     Wed
## 2262    2            2 15:00:00     Wed
## 3602    3           17 15:00:00     Wed
## 4942    4            4 15:00:00     Wed
## 6282    5            8 15:00:00     Wed
## 7622    6            8 15:00:00     Wed
## 923     1           26 15:15:00     Wed
## 2263    2            0 15:15:00     Wed
## 3603    3           24 15:15:00     Wed
## 4943    4            6 15:15:00     Wed
## 6283    5           10 15:15:00     Wed
## 7623    6            9 15:15:00     Wed
## 924     1           21 15:30:00     Wed
## 2264    2            0 15:30:00     Wed
## 3604    3           36 15:30:00     Wed
## 4944    4            8 15:30:00     Wed
## 6284    5           11 15:30:00     Wed
## 7624    6           10 15:30:00     Wed
## 925     1           14 15:45:00     Wed
## 2265    2            0 15:45:00     Wed
## 3605    3           29 15:45:00     Wed
## 4945    4           10 15:45:00     Wed
## 6285    5           10 15:45:00     Wed
## 7625    6           10 15:45:00     Wed
## 926     1           15 16:00:00     Wed
## 2266    2            0 16:00:00     Wed
## 3606    3           23 16:00:00     Wed
## 4946    4           11 16:00:00     Wed
## 6286    5           10 16:00:00     Wed
## 7626    6            5 16:00:00     Wed
## 927     1           13 16:15:00     Wed
## 2267    2            0 16:15:00     Wed
```

```
## 3607    3         20 16:15:00    Wed
## 4947    4          9 16:15:00    Wed
## 6287    5         10 16:15:00    Wed
## 7627    6          5 16:15:00    Wed
## 928     1         13 16:30:00    Wed
## 2268    2          2 16:30:00    Wed
## 3608    3         17 16:30:00    Wed
## 4948    4         10 16:30:00    Wed
## 6288    5         10 16:30:00    Wed
## 7628    6          7 16:30:00    Wed
## 929     1         16 16:45:00    Wed
## 2269    2          0 16:45:00    Wed
## 3609    3         17 16:45:00    Wed
## 4949    4          9 16:45:00    Wed
## 6289    5          8 16:45:00    Wed
## 7629    6          7 16:45:00    Wed
## 930     1         16 17:00:00    Wed
## 2270    2          2 17:00:00    Wed
## 3610    3         19 17:00:00    Wed
## 4950    4          7 17:00:00    Wed
## 6290    5          7 17:00:00    Wed
## 7630    6          5 17:00:00    Wed
## 931     1         13 17:15:00    Wed
## 2271    2          4 17:15:00    Wed
## 3611    3         17 17:15:00    Wed
## 4951    4         10 17:15:00    Wed
## 6291    5          8 17:15:00    Wed
## 7631    6          7 17:15:00    Wed
## 932     1         10 17:30:00    Wed
## 2272    2          0 17:30:00    Wed
## 3612    3         20 17:30:00    Wed
## 4952    4         12 17:30:00    Wed
## 6292    5          6 17:30:00    Wed
## 7632    6          7 17:30:00    Wed
## 933     1         11 17:45:00    Wed
## 2273    2          3 17:45:00    Wed
## 3613    3         21 17:45:00    Wed
## 4953    4         13 17:45:00    Wed
## 6293    5          9 17:45:00    Wed
## 7633    6          5 17:45:00    Wed
## 934     1          8 18:00:00    Wed
## 2274    2          0 18:00:00    Wed
## 3614    3         25 18:00:00    Wed
## 4954    4         12 18:00:00    Wed
## 6294    5          9 18:00:00    Wed
## 7634    6          5 18:00:00    Wed
## 935     1          8 18:15:00    Wed
## 2275    2          0 18:15:00    Wed
## 3615    3         18 18:15:00    Wed
## 4955    4         18 18:15:00    Wed
## 6295    5          6 18:15:00    Wed
## 7635    6          4 18:15:00    Wed
## 936     1          9 18:30:00    Wed
## 2276    2          5 18:30:00    Wed
```

```
## 3616    3              7 18:30:00     Wed
## 4956    4             22 18:30:00     Wed
## 6296    5              5 18:30:00     Wed
## 7636    6              4 18:30:00     Wed
## 937     1              5 18:45:00     Wed
## 2277    2              7 18:45:00     Wed
## 3617    3              9 18:45:00     Wed
## 4957    4             23 18:45:00     Wed
## 6297    5              6 18:45:00     Wed
## 7637    6              3 18:45:00     Wed
## 938     1             11 19:00:00     Wed
## 2278    2              5 19:00:00     Wed
## 3618    3              6 19:00:00     Wed
## 4958    4             26 19:00:00     Wed
## 6298    5              8 19:00:00     Wed
## 7638    6              4 19:00:00     Wed
## 939     1             15 19:15:00     Wed
## 2279    2              7 19:15:00     Wed
## 3619    3              9 19:15:00     Wed
## 4959    4             26 19:15:00     Wed
## 6299    5              8 19:15:00     Wed
## 7639    6              4 19:15:00     Wed
## 940     1             16 19:30:00     Wed
## 2280    2              4 19:30:00     Wed
## 3620    3             14 19:30:00     Wed
## 4960    4             24 19:30:00     Wed
## 6300    5             11 19:30:00     Wed
## 7640    6              6 19:30:00     Wed
## 941     1             16 19:45:00     Wed
## 2281    2              2 19:45:00     Wed
## 3621    3             21 19:45:00     Wed
## 4961    4             29 19:45:00     Wed
## 6301    5              9 19:45:00     Wed
## 7641    6              2 19:45:00     Wed
## 942     1             16 20:00:00     Wed
## 2282    2              5 20:00:00     Wed
## 3622    3             19 20:00:00     Wed
## 4962    4             21 20:00:00     Wed
## 6302    5              9 20:00:00     Wed
## 7642    6              4 20:00:00     Wed
## 943     1             14 20:15:00     Wed
## 2283    2              2 20:15:00     Wed
## 3623    3             23 20:15:00     Wed
## 4963    4             22 20:15:00     Wed
## 6303    5              6 20:15:00     Wed
## 7643    6              4 20:15:00     Wed
## 944     1             15 20:30:00     Wed
## 2284    2              1 20:30:00     Wed
## 3624    3             23 20:30:00     Wed
## 4964    4             23 20:30:00     Wed
## 6304    5              6 20:30:00     Wed
## 7644    6              3 20:30:00     Wed
## 945     1             16 20:45:00     Wed
## 2285    2              0 20:45:00     Wed
```

```
## 3625    3          24 20:45:00    Wed
## 4965    4          23 20:45:00    Wed
## 6305    5           5 20:45:00    Wed
## 7645    6           3 20:45:00    Wed
## 946     1          18 21:00:00    Wed
## 2286    2           0 21:00:00    Wed
## 3626    3          22 21:00:00    Wed
## 4966    4          20 21:00:00    Wed
## 6306    5           7 21:00:00    Wed
## 7646    6           3 21:00:00    Wed
## 947     1          16 21:15:00    Wed
## 2287    2           0 21:15:00    Wed
## 3627    3          22 21:15:00    Wed
## 4967    4          22 21:15:00    Wed
## 6307    5           9 21:15:00    Wed
## 7647    6           1 21:15:00    Wed
## 948     1          14 21:30:00    Wed
## 2288    2           0 21:30:00    Wed
## 3628    3          36 21:30:00    Wed
## 4968    4          23 21:30:00    Wed
## 6308    5           9 21:30:00    Wed
## 7648    6           3 21:30:00    Wed
## 949     1          17 21:45:00    Wed
## 2289    2           0 21:45:00    Wed
## 3629    3          31 21:45:00    Wed
## 4969    4          23 21:45:00    Wed
## 6309    5          10 21:45:00    Wed
## 7649    6           3 21:45:00    Wed
## 950     1          17 22:00:00    Wed
## 2290    2           0 22:00:00    Wed
## 3630    3          33 22:00:00    Wed
## 4970    4          23 22:00:00    Wed
## 6310    5          10 22:00:00    Wed
## 7650    6           0 22:00:00    Wed
## 951     1          20 22:15:00    Wed
## 2291    2           4 22:15:00    Wed
## 3631    3          38 22:15:00    Wed
## 4971    4          23 22:15:00    Wed
## 6311    5          11 22:15:00    Wed
## 7651    6           0 22:15:00    Wed
## 952     1          15 22:30:00    Wed
## 2292    2           2 22:30:00    Wed
## 3632    3          39 22:30:00    Wed
## 4972    4          21 22:30:00    Wed
## 6312    5          11 22:30:00    Wed
## 7652    6           0 22:30:00    Wed
## 953     1          14 22:45:00    Wed
## 2293    2           4 22:45:00    Wed
## 3633    3          50 22:45:00    Wed
## 4973    4          24 22:45:00    Wed
## 6313    5          10 22:45:00    Wed
## 7653    6           0 22:45:00    Wed
## 954     1          14 23:00:00    Wed
## 2294    2           6 23:00:00    Wed
```

```
## 3634   3    45 23:00:00    Wed
## 4974   4    28 23:00:00    Wed
## 6314   5    12 23:00:00    Wed
## 7654   6     0 23:00:00    Wed
## 955    1     6 23:15:00    Wed
## 2295   2     6 23:15:00    Wed
## 3635   3    45 23:15:00    Wed
## 4975   4    30 23:15:00    Wed
## 6315   5    12 23:15:00    Wed
## 7655   6     4 23:15:00    Wed
## 956    1    10 23:30:00    Wed
## 2296   2     8 23:30:00    Wed
## 3636   3    49 23:30:00    Wed
## 4976   4    32 23:30:00    Wed
## 6316   5    14 23:30:00    Wed
## 7656   6     4 23:30:00    Wed
## 957    1    10 23:45:00    Wed
## 2297   2    11 23:45:00    Wed
## 3637   3    52 23:45:00    Wed
## 4977   4    34 23:45:00    Wed
## 6317   5    14 23:45:00    Wed
## 7657   6     2 23:45:00    Wed
## 958    1    10 00:00:00    Thu
## 2298   2    13 00:00:00    Thu
## 3638   3    54 00:00:00    Thu
## 4978   4    36 00:00:00    Thu
## 6318   5    16 00:00:00    Thu
## 7658   6     2 00:00:00    Thu
## 959    1    10 00:15:00    Thu
## 2299   2    13 00:15:00    Thu
## 3639   3    56 00:15:00    Thu
## 4979   4    34 00:15:00    Thu
## 6319   5    14 00:15:00    Thu
## 7659   6     2 00:15:00    Thu
## 960    1    10 00:30:00    Thu
## 2300   2    15 00:30:00    Thu
## 3640   3    54 00:30:00    Thu
## 4980   4    34 00:30:00    Thu
## 6320   5    16 00:30:00    Thu
## 7660   6     2 00:30:00    Thu
## 961    1    10 00:45:00    Thu
## 2301   2    15 00:45:00    Thu
## 3641   3    57 00:45:00    Thu
## 4981   4    34 00:45:00    Thu
## 6321   5    16 00:45:00    Thu
## 7661   6     4 00:45:00    Thu
## 962    1    10 01:00:00    Thu
## 2302   2    13 01:00:00    Thu
## 3642   3    62 01:00:00    Thu
## 4982   4    32 01:00:00    Thu
## 6322   5    16 01:00:00    Thu
## 7662   6     4 01:00:00    Thu
## 963    1    10 01:15:00    Thu
## 2303   2    13 01:15:00    Thu
```

```
## 3643    3         65 01:15:00      Thu
## 4983    4         32 01:15:00      Thu
## 6323    5         18 01:15:00      Thu
## 7663    6          4 01:15:00      Thu
## 964     1         10 01:30:00      Thu
## 2304    2         15 01:30:00      Thu
## 3644    3         64 01:30:00      Thu
## 4984    4         32 01:30:00      Thu
## 6324    5         16 01:30:00      Thu
## 7664    6          6 01:30:00      Thu
## 965     1         11 01:45:00      Thu
## 2305    2         14 01:45:00      Thu
## 3645    3         64 01:45:00      Thu
## 4985    4         32 01:45:00      Thu
## 6325    5         18 01:45:00      Thu
## 7665    6          4 01:45:00      Thu
## 966     1         10 02:00:00      Thu
## 2306    2         15 02:00:00      Thu
## 3646    3         64 02:00:00      Thu
## 4986    4         32 02:00:00      Thu
## 6326    5         20 02:00:00      Thu
## 7666    6          4 02:00:00      Thu
## 967     1         10 02:15:00      Thu
## 2307    2         15 02:15:00      Thu
## 3647    3         63 02:15:00      Thu
## 4987    4         32 02:15:00      Thu
## 6327    5         20 02:15:00      Thu
## 7667    6          2 02:15:00      Thu
## 968     1         12 02:30:00      Thu
## 2308    2         13 02:30:00      Thu
## 3648    3         65 02:30:00      Thu
## 4988    4         32 02:30:00      Thu
## 6328    5         20 02:30:00      Thu
## 7668    6          2 02:30:00      Thu
## 969     1         12 02:45:00      Thu
## 2309    2         15 02:45:00      Thu
## 3649    3         65 02:45:00      Thu
## 4989    4         32 02:45:00      Thu
## 6329    5         18 02:45:00      Thu
## 7669    6          2 02:45:00      Thu
## 970     1         13 03:00:00      Thu
## 2310    2         15 03:00:00      Thu
## 3650    3         66 03:00:00      Thu
## 4990    4         32 03:00:00      Thu
## 6330    5         18 03:00:00      Thu
## 7670    6          0 03:00:00      Thu
## 971     1         12 03:15:00      Thu
## 2311    2         14 03:15:00      Thu
## 3651    3         66 03:15:00      Thu
## 4991    4         32 03:15:00      Thu
## 6331    5         22 03:15:00      Thu
## 7671    6          2 03:15:00      Thu
## 972     1         12 03:30:00      Thu
## 2312    2         16 03:30:00      Thu
```

```
## 3652     3           66 03:30:00      Thu
## 4992     4           32 03:30:00      Thu
## 6332     5           22 03:30:00      Thu
## 7672     6            2 03:30:00      Thu
## 973      1           12 03:45:00      Thu
## 2313     2           16 03:45:00      Thu
## 3653     3           68 03:45:00      Thu
## 4993     4           32 03:45:00      Thu
## 6333     5           22 03:45:00      Thu
## 7673     6            2 03:45:00      Thu
## 974      1           12 04:00:00      Thu
## 2314     2           16 04:00:00      Thu
## 3654     3           68 04:00:00      Thu
## 4994     4           32 04:00:00      Thu
## 6334     5           18 04:00:00      Thu
## 7674     6            2 04:00:00      Thu
## 975      1           12 04:15:00      Thu
## 2315     2           16 04:15:00      Thu
## 3655     3           68 04:15:00      Thu
## 4995     4           32 04:15:00      Thu
## 6335     5           18 04:15:00      Thu
## 7675     6            2 04:15:00      Thu
## 976      1           12 04:30:00      Thu
## 2316     2           16 04:30:00      Thu
## 3656     3           66 04:30:00      Thu
## 4996     4           32 04:30:00      Thu
## 6336     5           18 04:30:00      Thu
## 7676     6            2 04:30:00      Thu
## 977      1           12 04:45:00      Thu
## 2317     2           16 04:45:00      Thu
## 3657     3           66 04:45:00      Thu
## 4997     4           32 04:45:00      Thu
## 6337     5           18 04:45:00      Thu
## 7677     6            2 04:45:00      Thu
## 978      1           12 05:00:00      Thu
## 2318     2           16 05:00:00      Thu
## 3658     3           66 05:00:00      Thu
## 4998     4           32 05:00:00      Thu
## 6338     5           16 05:00:00      Thu
## 7678     6            2 05:00:00      Thu
## 979      1           12 05:15:00      Thu
## 2319     2           16 05:15:00      Thu
## 3659     3           66 05:15:00      Thu
## 4999     4           28 05:15:00      Thu
## 6339     5           16 05:15:00      Thu
## 7679     6            2 05:15:00      Thu
## 980      1           12 05:30:00      Thu
## 2320     2           16 05:30:00      Thu
## 3660     3           62 05:30:00      Thu
## 5000     4           28 05:30:00      Thu
## 6340     5           16 05:30:00      Thu
## 7680     6            2 05:30:00      Thu
## 981      1           12 05:45:00      Thu
## 2321     2           16 05:45:00      Thu
```

```
## 3661     3          62 05:45:00     Thu
## 5001     4          28 05:45:00     Thu
## 6341     5          16 05:45:00     Thu
## 7681     6           4 05:45:00     Thu
## 982      1          12 06:00:00     Thu
## 2322     2          14 06:00:00     Thu
## 3662     3          64 06:00:00     Thu
## 5002     4          27 06:00:00     Thu
## 6342     5          14 06:00:00     Thu
## 7682     6           4 06:00:00     Thu
## 983      1          18 06:15:00     Thu
## 2323     2          14 06:15:00     Thu
## 3663     3          63 06:15:00     Thu
## 5003     4          27 06:15:00     Thu
## 6343     5          14 06:15:00     Thu
## 7683     6           4 06:15:00     Thu
## 984      1          12 06:30:00     Thu
## 2324     2          14 06:30:00     Thu
## 3664     3          63 06:30:00     Thu
## 5004     4          26 06:30:00     Thu
## 6344     5          12 06:30:00     Thu
## 7684     6           4 06:30:00     Thu
## 985      1          11 06:45:00     Thu
## 2325     2          13 06:45:00     Thu
## 3665     3          59 06:45:00     Thu
## 5005     4          22 06:45:00     Thu
## 6345     5           9 06:45:00     Thu
## 7685     6           6 06:45:00     Thu
## 986      1           9 07:00:00     Thu
## 2326     2           9 07:00:00     Thu
## 3666     3          59 07:00:00     Thu
## 5006     4          22 07:00:00     Thu
## 6346     5           9 07:00:00     Thu
## 7686     6           6 07:00:00     Thu
## 987      1          11 07:15:00     Thu
## 2327     2           9 07:15:00     Thu
## 3667     3          55 07:15:00     Thu
## 5007     4          20 07:15:00     Thu
## 6347     5          10 07:15:00     Thu
## 7687     6           2 07:15:00     Thu
## 988      1           7 07:30:00     Thu
## 2328     2          13 07:30:00     Thu
## 3668     3          53 07:30:00     Thu
## 5008     4          16 07:30:00     Thu
## 6348     5          10 07:30:00     Thu
## 7688     6           2 07:30:00     Thu
## 989      1           9 07:45:00     Thu
## 2329     2          10 07:45:00     Thu
## 3669     3          55 07:45:00     Thu
## 5009     4           9 07:45:00     Thu
## 6349     5          12 07:45:00     Thu
## 7689     6           2 07:45:00     Thu
## 990      1           8 08:00:00     Thu
## 2330     2          10 08:00:00     Thu
```

```
## 3670    3        45 08:00:00    Thu
## 5010    4         8 08:00:00    Thu
## 6350    5        10 08:00:00    Thu
## 7690    6         2 08:00:00    Thu
## 991     1         8 08:15:00    Thu
## 2331    2         4 08:15:00    Thu
## 3671    3        39 08:15:00    Thu
## 5011    4         5 08:15:00    Thu
## 6351    5         8 08:15:00    Thu
## 7691    6         2 08:15:00    Thu
## 992     1         7 08:30:00    Thu
## 2332    2         6 08:30:00    Thu
## 3672    3        28 08:30:00    Thu
## 5012    4         3 08:30:00    Thu
## 6352    5         6 08:30:00    Thu
## 7692    6         3 08:30:00    Thu
## 993     1        11 08:45:00    Thu
## 2333    2         0 08:45:00    Thu
## 3673    3        24 08:45:00    Thu
## 5013    4         4 08:45:00    Thu
## 6353    5         5 08:45:00    Thu
## 7693    6         5 08:45:00    Thu
## 994     1         9 09:00:00    Thu
## 2334    2         0 09:00:00    Thu
## 3674    3        12 09:00:00    Thu
## 5014    4         6 09:00:00    Thu
## 6354    5         4 09:00:00    Thu
## 7694    6         5 09:00:00    Thu
## 995     1         8 09:15:00    Thu
## 2335    2         0 09:15:00    Thu
## 3675    3        10 09:15:00    Thu
## 5015    4         5 09:15:00    Thu
## 6355    5         3 09:15:00    Thu
## 7695    6         5 09:15:00    Thu
## 996     1        10 09:30:00    Thu
## 2336    2         0 09:30:00    Thu
## 3676    3         9 09:30:00    Thu
## 5016    4         6 09:30:00    Thu
## 6356    5         5 09:30:00    Thu
## 7696    6         5 09:30:00    Thu
## 997     1         5 09:45:00    Thu
## 2337    2         2 09:45:00    Thu
## 3677    3         6 09:45:00    Thu
## 5017    4         5 09:45:00    Thu
## 6357    5         5 09:45:00    Thu
## 7697    6         4 09:45:00    Thu
## 998     1         3 10:00:00    Thu
## 2338    2         0 10:00:00    Thu
## 3678    3         5 10:00:00    Thu
## 5018    4         5 10:00:00    Thu
## 6358    5         5 10:00:00    Thu
## 7698    6         5 10:00:00    Thu
## 999     1         2 10:30:00    Thu
## 2339    2         0 10:30:00    Thu
```

```
## 3679     3          5 10:30:00     Thu
## 5019     4          5 10:30:00     Thu
## 6359     5          6 10:30:00     Thu
## 7699     6          6 10:30:00     Thu
## 1000     1          1 10:45:00     Thu
## 2340     2          1 10:45:00     Thu
## 3680     3          7 10:45:00     Thu
## 5020     4          5 10:45:00     Thu
## 6360     5          6 10:45:00     Thu
## 7700     6          4 10:45:00     Thu
## 1001     1          0 11:00:00     Thu
## 2341     2          1 11:00:00     Thu
## 3681     3         10 11:00:00     Thu
## 5021     4          5 11:00:00     Thu
## 6361     5          5 11:00:00     Thu
## 7701     6          5 11:00:00     Thu
## 1002     1          0 11:15:00     Thu
## 2342     2          0 11:15:00     Thu
## 3682     3          8 11:15:00     Thu
## 5022     4          4 11:15:00     Thu
## 6362     5          5 11:15:00     Thu
## 7702     6          4 11:15:00     Thu
## 1003     1          2 11:30:00     Thu
## 2343     2          0 11:30:00     Thu
## 3683     3         15 11:30:00     Thu
## 5023     4          3 11:30:00     Thu
## 6363     5          5 11:30:00     Thu
## 7703     6          5 11:30:00     Thu
## 1004     1          5 11:45:00     Thu
## 2344     2          0 11:45:00     Thu
## 3684     3         12 11:45:00     Thu
## 5024     4          5 11:45:00     Thu
## 6364     5          5 11:45:00     Thu
## 7704     6          4 11:45:00     Thu
## 1005     1          8 12:00:00     Thu
## 2345     2          0 12:00:00     Thu
## 3685     3          9 12:00:00     Thu
## 5025     4          1 12:00:00     Thu
## 6365     5          5 12:00:00     Thu
## 7705     6          4 12:00:00     Thu
## 1006     1          7 12:15:00     Thu
## 2346     2          0 12:15:00     Thu
## 3686     3          6 12:15:00     Thu
## 5026     4          5 12:15:00     Thu
## 6366     5          2 12:15:00     Thu
## 7706     6          4 12:15:00     Thu
## 1007     1          4 12:30:00     Thu
## 2347     2          0 12:30:00     Thu
## 3687     3         10 12:30:00     Thu
## 5027     4          7 12:30:00     Thu
## 6367     5          2 12:30:00     Thu
## 7707     6          4 12:30:00     Thu
## 1008     1          2 12:45:00     Thu
## 2348     2          0 12:45:00     Thu
```

```
## 3688     3         9 12:45:00    Thu
## 5028     4         5 12:45:00    Thu
## 6368     5         2 12:45:00    Thu
## 7708     6         2 12:45:00    Thu
## 1009     1         3 13:00:00    Thu
## 2349     2         1 13:00:00    Thu
## 3689     3         5 13:00:00    Thu
## 5029     4         3 13:00:00    Thu
## 6369     5         2 13:00:00    Thu
## 7709     6         2 13:00:00    Thu
## 1010     1         0 13:15:00    Thu
## 2350     2         3 13:15:00    Thu
## 3690     3        10 13:15:00    Thu
## 5030     4         3 13:15:00    Thu
## 6370     5         1 13:15:00    Thu
## 7710     6         2 13:15:00    Thu
## 1011     1         0 13:30:00    Thu
## 2351     2         5 13:30:00    Thu
## 3691     3         8 13:30:00    Thu
## 5031     4         2 13:30:00    Thu
## 6371     5         1 13:30:00    Thu
## 7711     6         2 13:30:00    Thu
## 1012     1         1 13:45:00    Thu
## 2352     2         0 13:45:00    Thu
## 3692     3         4 13:45:00    Thu
## 5032     4         3 13:45:00    Thu
## 6372     5         1 13:45:00    Thu
## 7712     6         2 13:45:00    Thu
## 1013     1         2 14:00:00    Thu
## 2353     2         2 14:00:00    Thu
## 3693     3         7 14:00:00    Thu
## 5033     4         4 14:00:00    Thu
## 6373     5         5 14:00:00    Thu
## 7713     6         2 14:00:00    Thu
## 1014     1         7 14:15:00    Thu
## 2354     2         2 14:15:00    Thu
## 3694     3         3 14:15:00    Thu
## 5034     4         3 14:15:00    Thu
## 6374     5         1 14:15:00    Thu
## 7714     6         2 14:15:00    Thu
## 1015     1         6 14:30:00    Thu
## 2355     2         0 14:30:00    Thu
## 3695     3         3 14:30:00    Thu
## 5035     4         4 14:30:00    Thu
## 6375     5         3 14:30:00    Thu
## 7715     6         2 14:30:00    Thu
## 1016     1         4 14:45:00    Thu
## 2356     2         0 14:45:00    Thu
## 3696     3         3 14:45:00    Thu
## 5036     4         3 14:45:00    Thu
## 6376     5         4 14:45:00    Thu
## 7716     6         2 14:45:00    Thu
## 1017     1         0 15:00:00    Thu
## 2357     2         2 15:00:00    Thu
```

```
## 3697    3         2 15:00:00      Thu
## 5037    4         3 15:00:00      Thu
## 6377    5         4 15:00:00      Thu
## 7717    6         2 15:00:00      Thu
## 1018    1         1 15:15:00      Thu
## 2358    2         0 15:15:00      Thu
## 3698    3         1 15:15:00      Thu
## 5038    4         6 15:15:00      Thu
## 6378    5         1 15:15:00      Thu
## 7718    6         2 15:15:00      Thu
## 1019    1         0 15:30:00      Thu
## 2359    2         0 15:30:00      Thu
## 3699    3         3 15:30:00      Thu
## 5039    4         6 15:30:00      Thu
## 6379    5         0 15:30:00      Thu
## 7719    6         2 15:30:00      Thu
## 1020    1         1 15:45:00      Thu
## 2360    2         1 15:45:00      Thu
## 3700    3         6 15:45:00      Thu
## 5040    4         4 15:45:00      Thu
## 6380    5         0 15:45:00      Thu
## 7720    6         2 15:45:00      Thu
## 1021    1         4 16:00:00      Thu
## 2361    2         0 16:00:00      Thu
## 3701    3        10 16:00:00      Thu
## 5041    4         3 16:00:00      Thu
## 6381    5         0 16:00:00      Thu
## 7721    6         3 16:00:00      Thu
## 1022    1         0 16:15:00      Thu
## 2362    2         0 16:15:00      Thu
## 3702    3        16 16:15:00      Thu
## 5042    4         1 16:15:00      Thu
## 6382    5         0 16:15:00      Thu
## 7722    6         3 16:15:00      Thu
## 1023    1         3 16:30:00      Thu
## 2363    2         0 16:30:00      Thu
## 3703    3        17 16:30:00      Thu
## 5043    4         2 16:30:00      Thu
## 6383    5         0 16:30:00      Thu
## 7723    6         3 16:30:00      Thu
## 1024    1         0 16:45:00      Thu
## 2364    2         0 16:45:00      Thu
## 3704    3        17 16:45:00      Thu
## 5044    4        10 16:45:00      Thu
## 6384    5         0 16:45:00      Thu
## 7724    6         4 16:45:00      Thu
## 1025    1         0 17:00:00      Thu
## 2365    2         0 17:00:00      Thu
## 3705    3        15 17:00:00      Thu
## 5045    4        10 17:00:00      Thu
## 6385    5         0 17:00:00      Thu
## 7725    6         5 17:00:00      Thu
## 1026    1         0 17:15:00      Thu
## 2366    2         2 17:15:00      Thu
```

```
## 3706    3         18 17:15:00    Thu
## 5046    4          9 17:15:00    Thu
## 6386    5          0 17:15:00    Thu
## 7726    6          4 17:15:00    Thu
## 1027    1          2 17:30:00    Thu
## 2367    2          2 17:30:00    Thu
## 3707    3         17 17:30:00    Thu
## 5047    4          6 17:30:00    Thu
## 6387    5          1 17:30:00    Thu
## 7727    6          2 17:30:00    Thu
## 1028    1          8 17:45:00    Thu
## 2368    2          2 17:45:00    Thu
## 3708    3         13 17:45:00    Thu
## 5048    4          2 17:45:00    Thu
## 6388    5          4 17:45:00    Thu
## 7728    6          2 17:45:00    Thu
## 1029    1          3 18:00:00    Thu
## 2369    2          0 18:00:00    Thu
## 3709    3         21 18:00:00    Thu
## 5049    4          2 18:00:00    Thu
## 6389    5          6 18:00:00    Thu
## 7729    6          0 18:00:00    Thu
## 1030    1          2 18:15:00    Thu
## 2370    2          2 18:15:00    Thu
## 3710    3         17 18:15:00    Thu
## 5050    4          3 18:15:00    Thu
## 6390    5          9 18:15:00    Thu
## 7730    6          0 18:15:00    Thu
## 1031    1          5 18:30:00    Thu
## 2371    2          0 18:30:00    Thu
## 3711    3         16 18:30:00    Thu
## 5051    4          3 18:30:00    Thu
## 6391    5          9 18:30:00    Thu
## 7731    6          0 18:30:00    Thu
## 1032    1          9 18:45:00    Thu
## 2372    2          2 18:45:00    Thu
## 3712    3         15 18:45:00    Thu
## 5052    4          2 18:45:00    Thu
## 6392    5          5 18:45:00    Thu
## 7732    6          0 18:45:00    Thu
## 1033    1          0 19:00:00    Thu
## 2373    2          2 19:00:00    Thu
## 3713    3         16 19:00:00    Thu
## 5053    4          2 19:00:00    Thu
## 6393    5          5 19:00:00    Thu
## 7733    6          0 19:00:00    Thu
## 1034    1          0 19:15:00    Thu
## 2374    2          5 19:15:00    Thu
## 3714    3          8 19:15:00    Thu
## 5054    4          4 19:15:00    Thu
## 6394    5          2 19:15:00    Thu
## 7734    6          0 19:15:00    Thu
## 1035    1          0 19:30:00    Thu
## 2375    2          5 19:30:00    Thu
```

```
## 3715     3          9 19:30:00     Thu
## 5055     4          9 19:30:00     Thu
## 6395     5          0 19:30:00     Thu
## 7735     6          0 19:30:00     Thu
## 1036     1         23 19:45:00     Thu
## 2376     2          7 19:45:00     Thu
## 3716     3          9 19:45:00     Thu
## 5056     4          6 19:45:00     Thu
## 6396     5          0 19:45:00     Thu
## 7736     6          0 19:45:00     Thu
## 1037     1         24 20:00:00     Thu
## 2377     2          2 20:00:00     Thu
## 3717     3          7 20:00:00     Thu
## 5057     4          8 20:00:00     Thu
## 6397     5          2 20:00:00     Thu
## 7737     6          0 20:00:00     Thu
## 1038     1         24 20:15:00     Thu
## 2378     2          4 20:15:00     Thu
## 3718     3          6 20:15:00     Thu
## 5058     4          6 20:15:00     Thu
## 6398     5          2 20:15:00     Thu
## 7738     6          1 20:15:00     Thu
## 1039     1         23 20:30:00     Thu
## 2379     2          2 20:30:00     Thu
## 3719     3          9 20:30:00     Thu
## 5059     4         12 20:30:00     Thu
## 6399     5          4 20:30:00     Thu
## 7739     6          1 20:30:00     Thu
## 1040     1         23 20:45:00     Thu
## 2380     2          4 20:45:00     Thu
## 3720     3         15 20:45:00     Thu
## 5060     4         10 20:45:00     Thu
## 6400     5          2 20:45:00     Thu
## 7740     6          1 20:45:00     Thu
## 1041     1         22 21:00:00     Thu
## 2381     2         12 21:00:00     Thu
## 3721     3         16 21:00:00     Thu
## 5061     4          7 21:00:00     Thu
## 6401     5          4 21:00:00     Thu
## 7741     6          3 21:00:00     Thu
## 1042     1         26 21:15:00     Thu
## 2382     2         12 21:15:00     Thu
## 3722     3         18 21:15:00     Thu
## 5062     4          7 21:15:00     Thu
## 6402     5          4 21:15:00     Thu
## 7742     6          3 21:15:00     Thu
## 1043     1         30 21:30:00     Thu
## 2383     2         10 21:30:00     Thu
## 3723     3         12 21:30:00     Thu
## 5063     4          6 21:30:00     Thu
## 6403     5          4 21:30:00     Thu
## 7743     6          1 21:30:00     Thu
## 1044     1         30 21:45:00     Thu
## 2384     2         10 21:45:00     Thu
```

```
## 3724    3              16 21:45:00      Thu
## 5064    4               9 21:45:00      Thu
## 6404    5               4 21:45:00      Thu
## 7744    6               1 21:45:00      Thu
## 1045    1              29 22:00:00      Thu
## 2385    2               6 22:00:00      Thu
## 3725    3              19 22:00:00      Thu
## 5065    4               9 22:00:00      Thu
## 6405    5               6 22:00:00      Thu
## 7745    6               1 22:00:00      Thu
## 1046    1              27 22:15:00      Thu
## 2386    2              10 22:15:00      Thu
## 3726    3              18 22:15:00      Thu
## 5066    4              11 22:15:00      Thu
## 6406    5               9 22:15:00      Thu
## 7746    6               1 22:15:00      Thu
## 1047    1              30 22:30:00      Thu
## 2387    2              10 22:30:00      Thu
## 3727    3              16 22:30:00      Thu
## 5067    4              11 22:30:00      Thu
## 6407    5               6 22:30:00      Thu
## 7747    6               0 22:30:00      Thu
## 1048    1              30 22:45:00      Thu
## 2388    2              11 22:45:00      Thu
## 3728    3              18 22:45:00      Thu
## 5068    4              11 22:45:00      Thu
## 6408    5              10 22:45:00      Thu
## 7748    6               0 22:45:00      Thu
## 1049    1              28 23:00:00      Thu
## 2389    2              11 23:00:00      Thu
## 3729    3              23 23:00:00      Thu
## 5069    4              17 23:00:00      Thu
## 6409    5              12 23:00:00      Thu
## 7749    6               0 23:00:00      Thu
## 1050    1              31 23:15:00      Thu
## 2390    2              13 23:15:00      Thu
## 3730    3              26 23:15:00      Thu
## 5070    4              14 23:15:00      Thu
## 6410    5              13 23:15:00      Thu
## 7750    6               2 23:15:00      Thu
## 1051    1              20 23:30:00      Thu
## 2391    2              11 23:30:00      Thu
## 3731    3              39 23:30:00      Thu
## 5071    4              16 23:30:00      Thu
## 6411    5              15 23:30:00      Thu
## 7751    6               2 23:30:00      Thu
## 1052    1              23 23:45:00      Thu
## 2392    2               9 23:45:00      Thu
## 3732    3              42 23:45:00      Thu
## 5072    4              20 23:45:00      Thu
## 6412    5              14 23:45:00      Thu
## 7752    6               2 23:45:00      Thu
## 1053    1              26 00:00:00      Fri
## 2393    2              11 00:00:00      Fri
```

```
## 3733      3               46 00:00:00      Fri
## 5073      4               21 00:00:00      Fri
## 6413      5               12 00:00:00      Fri
## 7753      6                2 00:00:00      Fri
## 1054      1               26 00:15:00      Fri
## 2394      2               11 00:15:00      Fri
## 3734      3               51 00:15:00      Fri
## 5074      4               20 00:15:00      Fri
## 6414      5               10 00:15:00      Fri
## 7754      6                2 00:15:00      Fri
## 1055      1               28 00:30:00      Fri
## 2395      2               13 00:30:00      Fri
## 3735      3               49 00:30:00      Fri
## 5075      4               20 00:30:00      Fri
## 6415      5                8 00:30:00      Fri
## 7755      6                0 00:30:00      Fri
## 1056      1               28 00:45:00      Fri
## 2396      2               12 00:45:00      Fri
## 3736      3               52 00:45:00      Fri
## 5076      4               22 00:45:00      Fri
## 6416      5               10 00:45:00      Fri
## 7756      6                0 00:45:00      Fri
## 1057      1               27 01:00:00      Fri
## 2397      2               13 01:00:00      Fri
## 3737      3               51 01:00:00      Fri
## 5077      4               24 01:00:00      Fri
## 6417      5                8 01:00:00      Fri
## 7757      6                0 01:00:00      Fri
## 1058      1               29 01:15:00      Fri
## 2398      2               15 01:15:00      Fri
## 3738      3               54 01:15:00      Fri
## 5078      4               26 01:15:00      Fri
## 6418      5                8 01:15:00      Fri
## 7758      6                0 01:15:00      Fri
## 1059      1               31 01:30:00      Fri
## 2399      2               15 01:30:00      Fri
## 3739      3               55 01:30:00      Fri
## 5079      4               26 01:30:00      Fri
## 6419      5               10 01:30:00      Fri
## 7759      6                2 01:30:00      Fri
## 1060      1               31 01:45:00      Fri
## 2400      2               15 01:45:00      Fri
## 3740      3               56 01:45:00      Fri
## 5080      4               26 01:45:00      Fri
## 6420      5               10 01:45:00      Fri
## 7760      6                4 01:45:00      Fri
## 1061      1               31 02:00:00      Fri
## 2401      2               15 02:00:00      Fri
## 3741      3               59 02:00:00      Fri
## 5081      4               26 02:00:00      Fri
## 6421      5               10 02:00:00      Fri
## 7761      6                4 02:00:00      Fri
## 1062      1               28 02:15:00      Fri
## 2402      2               19 02:15:00      Fri
```

```
## 3742    3         63 02:15:00     Fri
## 5082    4         26 02:15:00     Fri
## 6422    5         10 02:15:00     Fri
## 7762    6          4 02:15:00     Fri
## 1063    1         28 02:30:00     Fri
## 2403    2         21 02:30:00     Fri
## 3743    3         63 02:30:00     Fri
## 5083    4         26 02:30:00     Fri
## 6423    5         10 02:30:00     Fri
## 7763    6          2 02:30:00     Fri
## 1064    1         28 02:45:00     Fri
## 2404    2         21 02:45:00     Fri
## 3744    3         65 02:45:00     Fri
## 5084    4         27 02:45:00     Fri
## 6424    5         10 02:45:00     Fri
## 7764    6          4 02:45:00     Fri
## 1065    1         28 03:00:00     Fri
## 2405    2         21 03:00:00     Fri
## 3745    3         67 03:00:00     Fri
## 5085    4         27 03:00:00     Fri
## 6425    5         10 03:00:00     Fri
## 7765    6          4 03:00:00     Fri
## 1066    1         28 03:15:00     Fri
## 2406    2         21 03:15:00     Fri
## 3746    3         65 03:15:00     Fri
## 5086    4         28 03:15:00     Fri
## 6426    5         10 03:15:00     Fri
## 7766    6          4 03:15:00     Fri
## 1067    1         30 03:30:00     Fri
## 2407    2         21 03:30:00     Fri
## 3747    3         65 03:30:00     Fri
## 5087    4         28 03:30:00     Fri
## 6427    5         10 03:30:00     Fri
## 7767    6          4 03:30:00     Fri
## 1068    1         30 03:45:00     Fri
## 2408    2         21 03:45:00     Fri
## 3748    3         65 03:45:00     Fri
## 5088    4         28 03:45:00     Fri
## 6428    5          8 03:45:00     Fri
## 7768    6          4 03:45:00     Fri
## 1069    1         30 04:00:00     Fri
## 2409    2         21 04:00:00     Fri
## 3749    3         63 04:00:00     Fri
## 5089    4         28 04:00:00     Fri
## 6429    5         10 04:00:00     Fri
## 7769    6          2 04:00:00     Fri
## 1070    1         32 04:15:00     Fri
## 2410    2         21 04:15:00     Fri
## 3750    3         65 04:15:00     Fri
## 5090    4         28 04:15:00     Fri
## 6430    5         10 04:15:00     Fri
## 7770    6          2 04:15:00     Fri
## 1071    1         32 04:30:00     Fri
## 2411    2         23 04:30:00     Fri
```

```
## 3751    3           63 04:30:00      Fri
## 5091    4           28 04:30:00      Fri
## 6431    5            8 04:30:00      Fri
## 7771    6            2 04:30:00      Fri
## 1072    1           32 04:45:00      Fri
## 2412    2           21 04:45:00      Fri
## 3752    3           57 04:45:00      Fri
## 5092    4           26 04:45:00      Fri
## 6432    5           10 04:45:00      Fri
## 7772    6            2 04:45:00      Fri
## 1073    1           32 05:00:00      Fri
## 2413    2           23 05:00:00      Fri
## 3753    3           59 05:00:00      Fri
## 5093    4           28 05:00:00      Fri
## 6433    5           10 05:00:00      Fri
## 7773    6            2 05:00:00      Fri
## 1074    1           32 05:15:00      Fri
## 2414    2           23 05:15:00      Fri
## 3754    3           59 05:15:00      Fri
## 5094    4           28 05:15:00      Fri
## 6434    5           10 05:15:00      Fri
## 7774    6            2 05:15:00      Fri
## 1075    1           32 05:30:00      Fri
## 2415    2           23 05:30:00      Fri
## 3755    3           59 05:30:00      Fri
## 5095    4           28 05:30:00      Fri
## 6435    5           10 05:30:00      Fri
## 7775    6            2 05:30:00      Fri
## 1076    1           32 05:45:00      Fri
## 2416    2           23 05:45:00      Fri
## 3756    3           59 05:45:00      Fri
## 5096    4           27 05:45:00      Fri
## 6436    5           10 05:45:00      Fri
## 7776    6            2 05:45:00      Fri
## 1077    1           34 06:00:00      Fri
## 2417    2           23 06:00:00      Fri
## 3757    3           60 06:00:00      Fri
## 5097    4           27 06:00:00      Fri
## 6437    5            6 06:00:00      Fri
## 7777    6            2 06:00:00      Fri
## 1078    1           33 06:15:00      Fri
## 2418    2           21 06:15:00      Fri
## 3758    3           60 06:15:00      Fri
## 5098    4           27 06:15:00      Fri
## 6438    5            6 06:15:00      Fri
## 7778    6            2 06:15:00      Fri
## 1079    1           35 06:30:00      Fri
## 2419    2           21 06:30:00      Fri
## 3759    3           62 06:30:00      Fri
## 5099    4           25 06:30:00      Fri
## 6439    5            2 06:30:00      Fri
## 7779    6            2 06:30:00      Fri
## 1080    1           33 06:45:00      Fri
## 2420    2           21 06:45:00      Fri
```

```
## 3760    3         57 06:45:00      Fri
## 5100    4         25 06:45:00      Fri
## 6440    5         10 06:45:00      Fri
## 7780    6          2 06:45:00      Fri
## 1081    1         26 07:00:00      Fri
## 2421    2         15 07:00:00      Fri
## 3761    3         57 07:00:00      Fri
## 5101    4         27 07:00:00      Fri
## 6441    5         10 07:00:00      Fri
## 7781    6          2 07:00:00      Fri
## 1082    1         25 07:15:00      Fri
## 2422    2         14 07:15:00      Fri
## 3762    3         54 07:15:00      Fri
## 5102    4         23 07:15:00      Fri
## 6442    5          9 07:15:00      Fri
## 7782    6          2 07:15:00      Fri
## 1083    1         23 07:30:00      Fri
## 2423    2         15 07:30:00      Fri
## 3763    3         48 07:30:00      Fri
## 5103    4         23 07:30:00      Fri
## 6443    5          7 07:30:00      Fri
## 7783    6          0 07:30:00      Fri
## 1084    1         26 07:45:00      Fri
## 2424    2         11 07:45:00      Fri
## 3764    3         40 07:45:00      Fri
## 5104    4         20 07:45:00      Fri
## 6444    5          9 07:45:00      Fri
## 7784    6          0 07:45:00      Fri
## 1085    1         24 08:00:00      Fri
## 2425    2          8 08:00:00      Fri
## 3765    3         38 08:00:00      Fri
## 5105    4         11 08:00:00      Fri
## 6445    5          7 08:00:00      Fri
## 7785    6          0 08:00:00      Fri
## 1086    1         20 08:15:00      Fri
## 2426    2          8 08:15:00      Fri
## 3766    3         33 08:15:00      Fri
## 5106    4          7 08:15:00      Fri
## 6446    5          7 08:15:00      Fri
## 7786    6          0 08:15:00      Fri
## 1087    1         18 08:30:00      Fri
## 2427    2          3 08:30:00      Fri
## 3767    3         23 08:30:00      Fri
## 5107    4          7 08:30:00      Fri
## 6447    5          0 08:30:00      Fri
## 7787    6          3 08:30:00      Fri
## 1088    1         16 08:45:00      Fri
## 2428    2          3 08:45:00      Fri
## 3768    3         21 08:45:00      Fri
## 5108    4          7 08:45:00      Fri
## 6448    5          0 08:45:00      Fri
## 7788    6          4 08:45:00      Fri
## 1089    1          5 09:00:00      Fri
## 2429    2          4 09:00:00      Fri
```

```
## 3769    3        18 09:00:00    Fri
## 5109    4         6 09:00:00    Fri
## 6449    5         0 09:00:00    Fri
## 7789    6         4 09:00:00    Fri
## 1090    1         7 09:15:00    Fri
## 2430    2         8 09:15:00    Fri
## 3770    3        16 09:15:00    Fri
## 5110    4         4 09:15:00    Fri
## 6450    5         5 09:15:00    Fri
## 7790    6         4 09:15:00    Fri
## 1091    1         7 09:30:00    Fri
## 2431    2         6 09:30:00    Fri
## 3771    3        14 09:30:00    Fri
## 5111    4         6 09:30:00    Fri
## 6451    5         5 09:30:00    Fri
## 7791    6         1 09:30:00    Fri
## 1092    1         5 09:45:00    Fri
## 2432    2         6 09:45:00    Fri
## 3772    3        11 09:45:00    Fri
## 5112    4         1 09:45:00    Fri
## 6452    5         4 09:45:00    Fri
## 7792    6         1 09:45:00    Fri
## 1093    1         4 10:00:00    Fri
## 2433    2         6 10:00:00    Fri
## 3773    3         7 10:00:00    Fri
## 5113    4         1 10:00:00    Fri
## 6453    5         2 10:00:00    Fri
## 7793    6         1 10:00:00    Fri
## 1094    1         4 10:15:00    Fri
## 2434    2         2 10:15:00    Fri
## 3774    3         8 10:15:00    Fri
## 5114    4         0 10:15:00    Fri
## 6454    5         2 10:15:00    Fri
## 7794    6         1 10:15:00    Fri
## 1095    1         5 10:30:00    Fri
## 2435    2         1 10:30:00    Fri
## 3775    3        11 10:30:00    Fri
## 5115    4         0 10:30:00    Fri
## 6455    5         2 10:30:00    Fri
## 7795    6         1 10:30:00    Fri
## 1096    1         4 10:45:00    Fri
## 2436    2         3 10:45:00    Fri
## 3776    3         9 10:45:00    Fri
## 5116    4         2 10:45:00    Fri
## 6456    5         2 10:45:00    Fri
## 7796    6         1 10:45:00    Fri
## 1097    1         7 11:00:00    Fri
## 2437    2         3 11:00:00    Fri
## 3777    3         9 11:00:00    Fri
## 5117    4         1 11:00:00    Fri
## 6457    5         2 11:00:00    Fri
## 7797    6         1 11:00:00    Fri
## 1098    1         6 11:15:00    Fri
## 2438    2         3 11:15:00    Fri
```

```
## 3778    3        9 11:15:00    Fri
## 5118    4        0 11:15:00    Fri
## 6458    5        2 11:15:00    Fri
## 7798    6        3 11:15:00    Fri
## 1099    1        6 11:30:00    Fri
## 2439    2        1 11:30:00    Fri
## 3779    3        3 11:30:00    Fri
## 5119    4        0 11:30:00    Fri
## 6459    5        3 11:30:00    Fri
## 7799    6        4 11:30:00    Fri
## 1100    1        5 11:45:00    Fri
## 2440    2        1 11:45:00    Fri
## 3780    3        7 11:45:00    Fri
## 5120    4        2 11:45:00    Fri
## 6460    5        3 11:45:00    Fri
## 7800    6        4 11:45:00    Fri
## 1101    1        0 12:00:00    Fri
## 2441    2        0 12:00:00    Fri
## 3781    3        4 12:00:00    Fri
## 5121    4        1 12:00:00    Fri
## 6461    5        3 12:00:00    Fri
## 7801    6        4 12:00:00    Fri
## 1102    1        1 12:15:00    Fri
## 2442    2        0 12:15:00    Fri
## 3782    3        2 12:15:00    Fri
## 5122    4        1 12:15:00    Fri
## 6462    5        2 12:15:00    Fri
## 7802    6        4 12:15:00    Fri
## 1103    1        2 12:30:00    Fri
## 2443    2        0 12:30:00    Fri
## 3783    3        4 12:30:00    Fri
## 5123    4        1 12:30:00    Fri
## 6463    5        2 12:30:00    Fri
## 7803    6        4 12:30:00    Fri
## 1104    1        4 12:45:00    Fri
## 2444    2        0 12:45:00    Fri
## 3784    3        3 12:45:00    Fri
## 5124    4        1 12:45:00    Fri
## 6464    5        4 12:45:00    Fri
## 7804    6        6 12:45:00    Fri
## 1105    1        1 13:00:00    Fri
## 2445    2        2 13:00:00    Fri
## 3785    3        2 13:00:00    Fri
## 5125    4        0 13:00:00    Fri
## 6465    5        2 13:00:00    Fri
## 7805    6        6 13:00:00    Fri
## 1106    1        1 13:15:00    Fri
## 2446    2        2 13:15:00    Fri
## 3786    3        2 13:15:00    Fri
## 5126    4        2 13:15:00    Fri
## 6466    5        2 13:15:00    Fri
## 7806    6        4 13:15:00    Fri
## 1107    1        2 13:30:00    Fri
## 2447    2        2 13:30:00    Fri
```

```
## 3787    3        2 13:30:00    Fri
## 5127    4        3 13:30:00    Fri
## 6467    5        2 13:30:00    Fri
## 7807    6        2 13:30:00    Fri
## 1108    1        2 13:45:00    Fri
## 2448    2        0 13:45:00    Fri
## 3788    3        2 13:45:00    Fri
## 5128    4        5 13:45:00    Fri
## 6468    5        2 13:45:00    Fri
## 7808    6        2 13:45:00    Fri
## 1109    1        2 14:00:00    Fri
## 2449    2        0 14:00:00    Fri
## 3789    3        4 14:00:00    Fri
## 5129    4        4 14:00:00    Fri
## 6469    5        0 14:00:00    Fri
## 7809    6        2 14:00:00    Fri
## 1110    1        1 14:15:00    Fri
## 2450    2        0 14:15:00    Fri
## 3790    3        5 14:15:00    Fri
## 5130    4        5 14:15:00    Fri
## 6470    5        0 14:15:00    Fri
## 7810    6        2 14:15:00    Fri
## 1111    1        1 14:30:00    Fri
## 2451    2        0 14:30:00    Fri
## 3791    3        3 14:30:00    Fri
## 5131    4        6 14:30:00    Fri
## 6471    5        0 14:30:00    Fri
## 7811    6        2 14:30:00    Fri
## 1112    1        1 14:45:00    Fri
## 2452    2        0 14:45:00    Fri
## 3792    3        2 14:45:00    Fri
## 5132    4        3 14:45:00    Fri
## 6472    5        0 14:45:00    Fri
## 7812    6        2 14:45:00    Fri
## 1113    1        3 15:00:00    Fri
## 2453    2        0 15:00:00    Fri
## 3793    3        1 15:00:00    Fri
## 5133    4        1 15:00:00    Fri
## 6473    5        1 15:00:00    Fri
## 7813    6        2 15:00:00    Fri
## 1114    1        4 15:15:00    Fri
## 2454    2        0 15:15:00    Fri
## 3794    3        1 15:15:00    Fri
## 5134    4        1 15:15:00    Fri
## 6474    5        1 15:15:00    Fri
## 7814    6        4 15:15:00    Fri
## 1115    1        6 15:30:00    Fri
## 2455    2        0 15:30:00    Fri
## 3795    3        1 15:30:00    Fri
## 5135    4        1 15:30:00    Fri
## 6475    5        1 15:30:00    Fri
## 7815    6        4 15:30:00    Fri
## 1116    1        8 15:45:00    Fri
## 2456    2        1 15:45:00    Fri
```

```
## 3796      3             6 15:45:00      Fri
## 5136      4             1 15:45:00      Fri
## 6476      5             3 15:45:00      Fri
## 7816      6             4 15:45:00      Fri
## 1117      1             8 16:00:00      Fri
## 2457      2             1 16:00:00      Fri
## 3797      3             7 16:00:00      Fri
## 5137      4             4 16:00:00      Fri
## 6477      5             5 16:00:00      Fri
## 7817      6             5 16:00:00      Fri
## 1118      1             8 16:15:00      Fri
## 2458      2             1 16:15:00      Fri
## 3798      3             7 16:15:00      Fri
## 5138      4             5 16:15:00      Fri
## 6478      5             5 16:15:00      Fri
## 7818      6             5 16:15:00      Fri
## 1119      1             8 16:30:00      Fri
## 2459      2             1 16:30:00      Fri
## 3799      3            11 16:30:00      Fri
## 5139      4             7 16:30:00      Fri
## 6479      5             3 16:30:00      Fri
## 7819      6             5 16:30:00      Fri
## 1120      1             8 16:45:00      Fri
## 2460      2             0 16:45:00      Fri
## 3800      3            13 16:45:00      Fri
## 5140      4             5 16:45:00      Fri
## 6480      5             3 16:45:00      Fri
## 7820      6             3 16:45:00      Fri
## 1121      1             8 17:00:00      Fri
## 2461      2             0 17:00:00      Fri
## 3801      3            15 17:00:00      Fri
## 5141      4             5 17:00:00      Fri
## 6481      5             3 17:00:00      Fri
## 7821      6             2 17:00:00      Fri
## 1122      1             8 17:15:00      Fri
## 2462      2             0 17:15:00      Fri
## 3802      3            16 17:15:00      Fri
## 5142      4             4 17:15:00      Fri
## 6482      5             2 17:15:00      Fri
## 7822      6             2 17:15:00      Fri
## 1123      1             8 17:30:00      Fri
## 2463      2             0 17:30:00      Fri
## 3803      3             9 17:30:00      Fri
## 5143      4             4 17:30:00      Fri
## 6483      5             2 17:30:00      Fri
## 7823      6             2 17:30:00      Fri
## 1124      1            10 17:45:00      Fri
## 2464      2             0 17:45:00      Fri
## 3804      3            11 17:45:00      Fri
## 5144      4             6 17:45:00      Fri
## 6484      5             0 17:45:00      Fri
## 7824      6             2 17:45:00      Fri
## 1125      1             7 18:00:00      Fri
## 2465      2             0 18:00:00      Fri
```

```
## 3805   3       15 18:00:00    Fri
## 5145   4        6 18:00:00    Fri
## 6485   5        2 18:00:00    Fri
## 7825   6        2 18:00:00    Fri
## 1126   1        7 18:15:00    Fri
## 2466   2        2 18:15:00    Fri
## 3806   3       15 18:15:00    Fri
## 5146   4        9 18:15:00    Fri
## 6486   5        0 18:15:00    Fri
## 7826   6        2 18:15:00    Fri
## 1127   1        5 18:30:00    Fri
## 2467   2        4 18:30:00    Fri
## 3807   3       17 18:30:00    Fri
## 5147   4       11 18:30:00    Fri
## 6487   5        2 18:30:00    Fri
## 7827   6        2 18:30:00    Fri
## 1128   1        3 18:45:00    Fri
## 2468   2        4 18:45:00    Fri
## 3808   3       10 18:45:00    Fri
## 5148   4       13 18:45:00    Fri
## 6488   5        2 18:45:00    Fri
## 7828   6        2 18:45:00    Fri
## 1129   1        3 19:00:00    Fri
## 2469   2        4 19:00:00    Fri
## 3809   3        5 19:00:00    Fri
## 5149   4        8 19:00:00    Fri
## 6489   5        0 19:00:00    Fri
## 7829   6        2 19:00:00    Fri
## 1130   1        2 19:15:00    Fri
## 2470   2        4 19:15:00    Fri
## 3810   3        4 19:15:00    Fri
## 5150   4        8 19:15:00    Fri
## 6490   5        0 19:15:00    Fri
## 7830   6        1 19:15:00    Fri
## 1131   1        2 19:30:00    Fri
## 2471   2        8 19:30:00    Fri
## 3811   3        7 19:30:00    Fri
## 5151   4        6 19:30:00    Fri
## 6491   5        0 19:30:00    Fri
## 7831   6        1 19:30:00    Fri
## 1132   1        3 19:45:00    Fri
## 2472   2       12 19:45:00    Fri
## 3812   3        8 19:45:00    Fri
## 5152   4        6 19:45:00    Fri
## 6492   5        4 19:45:00    Fri
## 7832   6        1 19:45:00    Fri
## 1133   1        9 20:00:00    Fri
## 2473   2       12 20:00:00    Fri
## 3813   3        9 20:00:00    Fri
## 5153   4        4 20:00:00    Fri
## 6493   5        4 20:00:00    Fri
## 7833   6        1 20:00:00    Fri
## 1134   1        9 20:15:00    Fri
## 2474   2       14 20:15:00    Fri
```

```
## 3814       3              8 20:15:00      Fri
## 5154       4              4 20:15:00      Fri
## 6494       5              4 20:15:00      Fri
## 7834       6              1 20:15:00      Fri
## 1135       1              9 20:30:00      Fri
## 2475       2             12 20:30:00      Fri
## 3815       3             13 20:30:00      Fri
## 5155       4              9 20:30:00      Fri
## 6495       5              4 20:30:00      Fri
## 7835       6              1 20:30:00      Fri
## 1136       1              9 20:45:00      Fri
## 2476       2             10 20:45:00      Fri
## 3816       3             14 20:45:00      Fri
## 5156       4             11 20:45:00      Fri
## 6496       5              4 20:45:00      Fri
## 7836       6              1 20:45:00      Fri
## 1137       1              7 21:00:00      Fri
## 2477       2              8 21:00:00      Fri
## 3817       3             12 21:00:00      Fri
## 5157       4             12 21:00:00      Fri
## 6497       5              4 21:00:00      Fri
## 7837       6              1 21:00:00      Fri
## 1138       1              3 21:15:00      Fri
## 2478       2              4 21:15:00      Fri
## 3818       3             19 21:15:00      Fri
## 5158       4             12 21:15:00      Fri
## 6498       5              4 21:15:00      Fri
## 7838       6              1 21:15:00      Fri
## 1139       1              8 21:30:00      Fri
## 2479       2              4 21:30:00      Fri
## 3819       3             18 21:30:00      Fri
## 5159       4             13 21:30:00      Fri
## 6499       5              2 21:30:00      Fri
## 7839       6              3 21:30:00      Fri
## 1140       1             12 21:45:00      Fri
## 2480       2              2 21:45:00      Fri
## 3820       3             22 21:45:00      Fri
## 5160       4             13 21:45:00      Fri
## 6500       5              2 21:45:00      Fri
## 7840       6              1 21:45:00      Fri
## 1141       1             12 22:00:00      Fri
## 2481       2              1 22:00:00      Fri
## 3821       3             20 22:00:00      Fri
## 5161       4             13 22:00:00      Fri
## 6501       5              4 22:00:00      Fri
## 7841       6              1 22:00:00      Fri
## 1142       1             14 22:15:00      Fri
## 2482       2              1 22:15:00      Fri
## 3822       3             19 22:15:00      Fri
## 5162       4             15 22:15:00      Fri
## 6502       5              2 22:15:00      Fri
## 7842       6              1 22:15:00      Fri
## 1143       1             15 22:30:00      Fri
## 2483       2              1 22:30:00      Fri
```

```
## 3823    3            14 22:30:00     Fri
## 5163    4            13 22:30:00     Fri
## 6503    5             2 22:30:00     Fri
## 7843    6             1 22:30:00     Fri
## 1144    1            13 22:45:00     Fri
## 2484    2             1 22:45:00     Fri
## 3824    3            12 22:45:00     Fri
## 5164    4            13 22:45:00     Fri
## 6504    5             3 22:45:00     Fri
## 7844    6             1 22:45:00     Fri
## 1145    1            13 23:00:00     Fri
## 2485    2             1 23:00:00     Fri
## 3825    3            14 23:00:00     Fri
## 5165    4            10 23:00:00     Fri
## 6505    5             3 23:00:00     Fri
## 7845    6             1 23:00:00     Fri
## 1146    1            13 23:15:00     Fri
## 2486    2             1 23:15:00     Fri
## 3826    3            20 23:15:00     Fri
## 5166    4            10 23:15:00     Fri
## 6506    5             7 23:15:00     Fri
## 7846    6             1 23:15:00     Fri
## 1147    1            13 23:30:00     Fri
## 2487    2             3 23:30:00     Fri
## 3827    3            21 23:30:00     Fri
## 5167    4            10 23:30:00     Fri
## 6507    5             9 23:30:00     Fri
## 7847    6             1 23:30:00     Fri
## 1148    1            15 23:45:00     Fri
## 2488    2             3 23:45:00     Fri
## 3828    3            22 23:45:00     Fri
## 5168    4            17 23:45:00     Fri
## 6508    5            10 23:45:00     Fri
## 7848    6             1 23:45:00     Fri
## 1149    1            13 00:00:00     Sat
## 2489    2             1 00:00:00     Sat
## 3829    3            23 00:00:00     Sat
## 5169    4            19 00:00:00     Sat
## 6509    5            10 00:00:00     Sat
## 7849    6             1 00:00:00     Sat
## 1150    1            15 00:15:00     Sat
## 2490    2             3 00:15:00     Sat
## 3830    3            21 00:15:00     Sat
## 5170    4            19 00:15:00     Sat
## 6510    5            10 00:15:00     Sat
## 7850    6             4 00:15:00     Sat
## 1151    1            17 00:30:00     Sat
## 2491    2             3 00:30:00     Sat
## 3831    3            22 00:30:00     Sat
## 5171    4            21 00:30:00     Sat
## 6511    5            12 00:30:00     Sat
## 7851    6             1 00:30:00     Sat
## 1152    1            19 00:45:00     Sat
## 2492    2             3 00:45:00     Sat
```

```
## 3832    3         28 00:45:00      Sat
## 5172    4         21 00:45:00      Sat
## 6512    5         12 00:45:00      Sat
## 7852    6          1 00:45:00      Sat
## 1153    1         26 01:00:00      Sat
## 2493    2          5 01:00:00      Sat
## 3833    3         30 01:00:00      Sat
## 5173    4         17 01:00:00      Sat
## 6513    5         12 01:00:00      Sat
## 7853    6          1 01:00:00      Sat
## 1154    1         26 01:15:00      Sat
## 2494    2          5 01:15:00      Sat
## 3834    3         30 01:15:00      Sat
## 5174    4         13 01:15:00      Sat
## 6514    5         12 01:15:00      Sat
## 7854    6          1 01:15:00      Sat
## 1155    1         28 01:30:00      Sat
## 2495    2          9 01:30:00      Sat
## 3835    3         38 01:30:00      Sat
## 5175    4         17 01:30:00      Sat
## 6515    5         12 01:30:00      Sat
## 7855    6          1 01:30:00      Sat
## 1156    1         28 01:45:00      Sat
## 2496    2          7 01:45:00      Sat
## 3836    3         41 01:45:00      Sat
## 5176    4         19 01:45:00      Sat
## 6516    5         12 01:45:00      Sat
## 7856    6          1 01:45:00      Sat
## 1157    1         29 02:00:00      Sat
## 2497    2          7 02:00:00      Sat
## 3837    3         43 02:00:00      Sat
## 5177    4         19 02:00:00      Sat
## 6517    5         12 02:00:00      Sat
## 7857    6          1 02:00:00      Sat
## 1158    1         30 02:15:00      Sat
## 2498    2          9 02:15:00      Sat
## 3838    3         41 02:15:00      Sat
## 5178    4         20 02:15:00      Sat
## 6518    5          8 02:15:00      Sat
## 7858    6          1 02:15:00      Sat
## 1159    1         34 02:30:00      Sat
## 2499    2          9 02:30:00      Sat
## 3839    3         47 02:30:00      Sat
## 5179    4         24 02:30:00      Sat
## 6519    5          8 02:30:00      Sat
## 7859    6          0 02:30:00      Sat
## 1160    1         30 02:45:00      Sat
## 2500    2          9 02:45:00      Sat
## 3840    3         47 02:45:00      Sat
## 5180    4         24 02:45:00      Sat
## 6520    5          8 02:45:00      Sat
## 7860    6          0 02:45:00      Sat
## 1161    1         30 03:00:00      Sat
## 2501    2          7 03:00:00      Sat
```

```
## 3841   3           50 03:00:00      Sat
## 5181   4           22 03:00:00      Sat
## 6521   5            8 03:00:00      Sat
## 7861   6            0 03:00:00      Sat
## 1162   1           30 03:15:00      Sat
## 2502   2           11 03:15:00      Sat
## 3842   3           48 03:15:00      Sat
## 5182   4           22 03:15:00      Sat
## 6522   5            8 03:15:00      Sat
## 7862   6            0 03:15:00      Sat
## 1163   1           30 03:30:00      Sat
## 2503   2           11 03:30:00      Sat
## 3843   3           46 03:30:00      Sat
## 5183   4           24 03:30:00      Sat
## 6523   5            6 03:30:00      Sat
## 7863   6            0 03:30:00      Sat
## 1164   1           30 03:45:00      Sat
## 2504   2           11 03:45:00      Sat
## 3844   3           50 03:45:00      Sat
## 5184   4           24 03:45:00      Sat
## 6524   5            6 03:45:00      Sat
## 7864   6            0 03:45:00      Sat
## 1165   1           30 04:00:00      Sat
## 2505   2           11 04:00:00      Sat
## 3845   3           50 04:00:00      Sat
## 5185   4           24 04:00:00      Sat
## 6525   5            6 04:00:00      Sat
## 7865   6            0 04:00:00      Sat
## 1166   1           32 04:15:00      Sat
## 2506   2           11 04:15:00      Sat
## 3846   3           53 04:15:00      Sat
## 5186   4           24 04:15:00      Sat
## 6526   5            6 04:15:00      Sat
## 7866   6            0 04:15:00      Sat
## 1167   1           32 04:30:00      Sat
## 2507   2           11 04:30:00      Sat
## 3847   3           51 04:30:00      Sat
## 5187   4           24 04:30:00      Sat
## 6527   5            8 04:30:00      Sat
## 7867   6            0 04:30:00      Sat
## 1168   1           32 04:45:00      Sat
## 2508   2           11 04:45:00      Sat
## 3848   3           49 04:45:00      Sat
## 5188   4           24 04:45:00      Sat
## 6528   5            8 04:45:00      Sat
## 7868   6            0 04:45:00      Sat
## 1169   1           32 05:00:00      Sat
## 2509   2            9 05:00:00      Sat
## 3849   3           51 05:00:00      Sat
## 5189   4           24 05:00:00      Sat
## 6529   5            8 05:00:00      Sat
## 7869   6            2 05:00:00      Sat
## 1170   1           34 05:15:00      Sat
## 2510   2            9 05:15:00      Sat
```

```
## 3850    3              49 05:15:00      Sat
## 5190    4              24 05:15:00      Sat
## 6530    5               8 05:15:00      Sat
## 7870    6               4 05:15:00      Sat
## 1171    1              34 05:30:00      Sat
## 2511    2               9 05:30:00      Sat
## 3851    3              49 05:30:00      Sat
## 5191    4              24 05:30:00      Sat
## 6531    5               8 05:30:00      Sat
## 7871    6               4 05:30:00      Sat
## 1172    1              34 05:45:00      Sat
## 2512    2               9 05:45:00      Sat
## 3852    3              49 05:45:00      Sat
## 5192    4              24 05:45:00      Sat
## 6532    5               8 05:45:00      Sat
## 7872    6               4 05:45:00      Sat
## 1173    1              38 06:00:00      Sat
## 2513    2               9 06:00:00      Sat
## 3853    3              49 06:00:00      Sat
## 5193    4              24 06:00:00      Sat
## 6533    5               8 06:00:00      Sat
## 7873    6               2 06:00:00      Sat
## 1174    1              37 06:15:00      Sat
## 2514    2               9 06:15:00      Sat
## 3854    3              49 06:15:00      Sat
## 5194    4              24 06:15:00      Sat
## 6534    5               8 06:15:00      Sat
## 7874    6               2 06:15:00      Sat
## 1175    1              37 06:30:00      Sat
## 2515    2              11 06:30:00      Sat
## 3855    3              49 06:30:00      Sat
## 5195    4              22 06:30:00      Sat
## 6535    5               8 06:30:00      Sat
## 7875    6               2 06:30:00      Sat
## 1176    1              37 06:45:00      Sat
## 2516    2               9 06:45:00      Sat
## 3856    3              47 06:45:00      Sat
## 5196    4              23 06:45:00      Sat
## 6536    5               8 06:45:00      Sat
## 7876    6               2 06:45:00      Sat
## 1177    1              35 07:00:00      Sat
## 2517    2               7 07:00:00      Sat
## 3857    3              49 07:00:00      Sat
## 5197    4              21 07:00:00      Sat
## 6537    5               8 07:00:00      Sat
## 7877    6               2 07:00:00      Sat
## 1178    1              35 07:15:00      Sat
## 2518    2               7 07:15:00      Sat
## 3858    3              51 07:15:00      Sat
## 5198    4              23 07:15:00      Sat
## 6538    5               8 07:15:00      Sat
## 7878    6               2 07:15:00      Sat
## 1179    1              33 07:30:00      Sat
## 2519    2               7 07:30:00      Sat
```

```
## 3859      3              53 07:30:00      Sat
## 5199      4              23 07:30:00      Sat
## 6539      5               8 07:30:00      Sat
## 7879      6               2 07:30:00      Sat
## 1180      1              31 07:45:00      Sat
## 2520      2               7 07:45:00      Sat
## 3860      3              52 07:45:00      Sat
## 5200      4              24 07:45:00      Sat
## 6540      5               8 07:45:00      Sat
## 7880      6               2 07:45:00      Sat
## 1181      1              32 08:00:00      Sat
## 2521      2               7 08:00:00      Sat
## 3861      3              53 08:00:00      Sat
## 5201      4              24 08:00:00      Sat
## 6541      5               8 08:00:00      Sat
## 7881      6               0 08:00:00      Sat
## 1182      1              34 08:15:00      Sat
## 2522      2               7 08:15:00      Sat
## 3862      3              46 08:15:00      Sat
## 5202      4              22 08:15:00      Sat
## 6542      5              10 08:15:00      Sat
## 7882      6               0 08:15:00      Sat
## 1183      1              28 08:30:00      Sat
## 2523      2               7 08:30:00      Sat
## 3863      3              48 08:30:00      Sat
## 5203      4              21 08:30:00      Sat
## 6543      5              10 08:30:00      Sat
## 7883      6               4 08:30:00      Sat
## 1184      1              30 08:45:00      Sat
## 2524      2               7 08:45:00      Sat
## 3864      3              47 08:45:00      Sat
## 5204      4              21 08:45:00      Sat
## 6544      5              12 08:45:00      Sat
## 7884      6               4 08:45:00      Sat
## 1185      1              28 09:00:00      Sat
## 2525      2               3 09:00:00      Sat
## 3865      3              43 09:00:00      Sat
## 5205      4              14 09:00:00      Sat
## 6545      5               6 09:00:00      Sat
## 7885      6               4 09:00:00      Sat
## 1186      1              22 09:15:00      Sat
## 2526      2               2 09:15:00      Sat
## 3866      3              41 09:15:00      Sat
## 5206      4              16 09:15:00      Sat
## 6546      5               2 09:15:00      Sat
## 7886      6               6 09:15:00      Sat
## 1187      1              20 09:30:00      Sat
## 2527      2               0 09:30:00      Sat
## 3867      3              37 09:30:00      Sat
## 5207      4              14 09:30:00      Sat
## 6547      5               2 09:30:00      Sat
## 7887      6               4 09:30:00      Sat
## 1188      1              15 09:45:00      Sat
## 2528      2               0 09:45:00      Sat
```

```
## 3868     3             34 09:45:00     Sat
## 5208     4             10 09:45:00     Sat
## 6548     5              4 09:45:00     Sat
## 7888     6              4 09:45:00     Sat
## 1189     1             12 10:00:00     Sat
## 2529     2              0 10:00:00     Sat
## 3869     3             32 10:00:00     Sat
## 5209     4              9 10:00:00     Sat
## 6549     5              6 10:00:00     Sat
## 7889     6              4 10:00:00     Sat
## 1190     1             14 10:15:00     Sat
## 2530     2              0 10:15:00     Sat
## 3870     3             21 10:15:00     Sat
## 5210     4              8 10:15:00     Sat
## 6550     5              6 10:15:00     Sat
## 7890     6              0 10:15:00     Sat
## 1191     1             23 10:30:00     Sat
## 2531     2              2 10:30:00     Sat
## 3871     3             20 10:30:00     Sat
## 5211     4              8 10:30:00     Sat
## 6551     5              6 10:30:00     Sat
## 7891     6              0 10:30:00     Sat
## 1192     1             13 10:45:00     Sat
## 2532     2              2 10:45:00     Sat
## 3872     3             15 10:45:00     Sat
## 5212     4              6 10:45:00     Sat
## 6552     5              6 10:45:00     Sat
## 7892     6              1 10:45:00     Sat
## 1193     1             10 11:00:00     Sat
## 2533     2              4 11:00:00     Sat
## 3873     3             18 11:00:00     Sat
## 5213     4              4 11:00:00     Sat
## 6553     5              4 11:00:00     Sat
## 7893     6              8 11:00:00     Sat
## 1194     1              9 11:15:00     Sat
## 2534     2              4 11:15:00     Sat
## 3874     3             21 11:15:00     Sat
## 5214     4              7 11:15:00     Sat
## 6554     5              4 11:15:00     Sat
## 7894     6             12 11:15:00     Sat
## 1195     1              4 11:30:00     Sat
## 2535     2              0 11:30:00     Sat
## 3875     3             16 11:30:00     Sat
## 5215     4              6 11:30:00     Sat
## 6555     5              5 11:30:00     Sat
## 7895     6              9 11:30:00     Sat
## 1196     1              5 11:45:00     Sat
## 2536     2              1 11:45:00     Sat
## 3876     3             23 11:45:00     Sat
## 5216     4              6 11:45:00     Sat
## 6556     5              6 11:45:00     Sat
## 7896     6             14 11:45:00     Sat
## 1197     1              2 12:00:00     Sat
## 2537     2              0 12:00:00     Sat
```

```
## 3877    3            16 12:00:00      Sat
## 5217    4             1 12:00:00      Sat
## 6557    5             3 12:00:00      Sat
## 7897    6            10 12:00:00      Sat
## 1198    1             4 12:15:00      Sat
## 2538    2             0 12:15:00      Sat
## 3878    3             8 12:15:00      Sat
## 5218    4             3 12:15:00      Sat
## 6558    5             4 12:15:00      Sat
## 7898    6            10 12:15:00      Sat
## 1199    1             1 12:30:00      Sat
## 2539    2             0 12:30:00      Sat
## 3879    3            10 12:30:00      Sat
## 5219    4             3 12:30:00      Sat
## 6559    5             4 12:30:00      Sat
## 7899    6             9 12:30:00      Sat
## 1200    1             2 12:45:00      Sat
## 2540    2             0 12:45:00      Sat
## 3880    3            13 12:45:00      Sat
## 5220    4             0 12:45:00      Sat
## 6560    5             3 12:45:00      Sat
## 7900    6             7 12:45:00      Sat
## 1201    1             3 13:00:00      Sat
## 2541    2             2 13:00:00      Sat
## 3881    3            10 13:00:00      Sat
## 5221    4             0 13:00:00      Sat
## 6561    5             3 13:00:00      Sat
## 7901    6             7 13:00:00      Sat
## 1202    1             4 13:15:00      Sat
## 2542    2             6 13:15:00      Sat
## 3882    3             6 13:15:00      Sat
## 5222    4             1 13:15:00      Sat
## 6562    5             3 13:15:00      Sat
## 7902    6             4 13:15:00      Sat
## 1203    1             6 13:30:00      Sat
## 2543    2             2 13:30:00      Sat
## 3883    3             7 13:30:00      Sat
## 5223    4             3 13:30:00      Sat
## 6563    5             0 13:30:00      Sat
## 7903    6             4 13:30:00      Sat
## 1204    1             2 13:45:00      Sat
## 2544    2             0 13:45:00      Sat
## 3884    3            11 13:45:00      Sat
## 5224    4             3 13:45:00      Sat
## 6564    5             0 13:45:00      Sat
## 7904    6             3 13:45:00      Sat
## 1205    1             1 14:00:00      Sat
## 2545    2             0 14:00:00      Sat
## 3885    3             7 14:00:00      Sat
## 5225    4             0 14:00:00      Sat
## 6565    5             0 14:00:00      Sat
## 7905    6             3 14:00:00      Sat
## 1206    1             2 14:15:00      Sat
## 2546    2             0 14:15:00      Sat
```

```
## 3886    3              0 14:15:00      Sat
## 5226    4              1 14:15:00      Sat
## 6566    5              2 14:15:00      Sat
## 7906    6              3 14:15:00      Sat
## 1207    1              4 14:30:00      Sat
## 2547    2              2 14:30:00      Sat
## 3887    3              3 14:30:00      Sat
## 5227    4              0 14:30:00      Sat
## 6567    5              1 14:30:00      Sat
## 7907    6              3 14:30:00      Sat
## 1208    1              2 14:45:00      Sat
## 2548    2              2 14:45:00      Sat
## 3888    3              2 14:45:00      Sat
## 5228    4              0 14:45:00      Sat
## 6568    5              0 14:45:00      Sat
## 7908    6              2 14:45:00      Sat
## 1209    1              5 15:00:00      Sat
## 2549    2              3 15:00:00      Sat
## 3889    3              0 15:00:00      Sat
## 5229    4              1 15:00:00      Sat
## 6569    5              0 15:00:00      Sat
## 7909    6              2 15:00:00      Sat
## 1210    1              6 15:15:00      Sat
## 2550    2              0 15:15:00      Sat
## 3890    3              1 15:15:00      Sat
## 5230    4              1 15:15:00      Sat
## 6570    5              1 15:15:00      Sat
## 7910    6              2 15:15:00      Sat
## 1211    1              4 15:30:00      Sat
## 2551    2              0 15:30:00      Sat
## 3891    3              1 15:30:00      Sat
## 5231    4              1 15:30:00      Sat
## 6571    5              1 15:30:00      Sat
## 7911    6              2 15:30:00      Sat
## 1212    1              5 15:45:00      Sat
## 2552    2              1 15:45:00      Sat
## 3892    3              3 15:45:00      Sat
## 5232    4              0 15:45:00      Sat
## 6572    5              2 15:45:00      Sat
## 7912    6              1 15:45:00      Sat
## 1213    1              3 16:00:00      Sat
## 2553    2              3 16:00:00      Sat
## 3893    3              4 16:00:00      Sat
## 5233    4              0 16:00:00      Sat
## 6573    5              0 16:00:00      Sat
## 7913    6              1 16:00:00      Sat
## 1214    1              0 16:15:00      Sat
## 2554    2              1 16:15:00      Sat
## 3894    3              9 16:15:00      Sat
## 5234    4              0 16:15:00      Sat
## 6574    5              0 16:15:00      Sat
## 7914    6              1 16:15:00      Sat
## 1215    1              5 16:30:00      Sat
## 2555    2              0 16:30:00      Sat
```

```
## 3895    3          11 16:30:00    Sat
## 5235    4           1 16:30:00    Sat
## 6575    5           3 16:30:00    Sat
## 7915    6           3 16:30:00    Sat
## 1216    1           2 16:45:00    Sat
## 2556    2           2 16:45:00    Sat
## 3896    3          17 16:45:00    Sat
## 5236    4           3 16:45:00    Sat
## 6576    5           3 16:45:00    Sat
## 7916    6           0 16:45:00    Sat
## 1217    1           6 17:00:00    Sat
## 2557    2           2 17:00:00    Sat
## 3897    3          14 17:00:00    Sat
## 5237    4           3 17:00:00    Sat
## 6577    5           4 17:00:00    Sat
## 7917    6           0 17:00:00    Sat
## 1218    1           3 17:15:00    Sat
## 2558    2           0 17:15:00    Sat
## 3898    3          16 17:15:00    Sat
## 5238    4           4 17:15:00    Sat
## 6578    5           6 17:15:00    Sat
## 7918    6           0 17:15:00    Sat
## 1219    1           0 17:30:00    Sat
## 2559    2           0 17:30:00    Sat
## 3899    3          18 17:30:00    Sat
## 5239    4           6 17:30:00    Sat
## 6579    5           1 17:30:00    Sat
## 7919    6           0 17:30:00    Sat
## 1220    1           4 17:45:00    Sat
## 2560    2           2 17:45:00    Sat
## 3900    3          13 17:45:00    Sat
## 5240    4           4 17:45:00    Sat
## 6580    5           0 17:45:00    Sat
## 7920    6           0 17:45:00    Sat
## 1221    1           1 18:00:00    Sat
## 2561    2           0 18:00:00    Sat
## 3901    3          10 18:00:00    Sat
## 5241    4           4 18:00:00    Sat
## 6581    5           2 18:00:00    Sat
## 7921    6           1 18:00:00    Sat
## 1222    1           2 18:15:00    Sat
## 2562    2           0 18:15:00    Sat
## 3902    3           7 18:15:00    Sat
## 5242    4           6 18:15:00    Sat
## 6582    5           1 18:15:00    Sat
## 7922    6           3 18:15:00    Sat
## 1223    1           4 18:30:00    Sat
## 2563    2           0 18:30:00    Sat
## 3903    3           8 18:30:00    Sat
## 5243    4           7 18:30:00    Sat
## 6583    5           2 18:30:00    Sat
## 7923    6           3 18:30:00    Sat
## 1224    1           4 18:45:00    Sat
## 2564    2           1 18:45:00    Sat
```

```
## 3904      3              1 18:45:00      Sat
## 5244      4              7 18:45:00      Sat
## 6584      5              2 18:45:00      Sat
## 7924      6              1 18:45:00      Sat
## 1225      1              0 19:00:00      Sat
## 2565      2              1 19:00:00      Sat
## 3905      3              1 19:00:00      Sat
## 5245      4              7 19:00:00      Sat
## 6585      5              0 19:00:00      Sat
## 7925      6              0 19:00:00      Sat
## 1226      1              1 19:15:00      Sat
## 2566      2              0 19:15:00      Sat
## 3906      3              3 19:15:00      Sat
## 5246      4              2 19:15:00      Sat
## 6586      5              0 19:15:00      Sat
## 7926      6              5 19:15:00      Sat
## 1227      1              1 19:30:00      Sat
## 2567      2              0 19:30:00      Sat
## 3907      3              9 19:30:00      Sat
## 5247      4              5 19:30:00      Sat
## 6587      5              0 19:30:00      Sat
## 7927      6              5 19:30:00      Sat
## 1228      1              4 19:45:00      Sat
## 2568      2              2 19:45:00      Sat
## 3908      3             14 19:45:00      Sat
## 5248      4              1 19:45:00      Sat
## 6588      5              1 19:45:00      Sat
## 7928      6              4 19:45:00      Sat
## 1229      1              3 20:00:00      Sat
## 2569      2              2 20:00:00      Sat
## 3909      3              9 20:00:00      Sat
## 5249      4              4 20:00:00      Sat
## 6589      5              0 20:00:00      Sat
## 7929      6              2 20:00:00      Sat
## 1230      1              0 20:15:00      Sat
## 2570      2              0 20:15:00      Sat
## 3910      3              7 20:15:00      Sat
## 5250      4              2 20:15:00      Sat
## 6590      5              0 20:15:00      Sat
## 7930      6              2 20:15:00      Sat
## 1231      1              2 20:30:00      Sat
## 2571      2              2 20:30:00      Sat
## 3911      3              6 20:30:00      Sat
## 5251      4              1 20:30:00      Sat
## 6591      5              0 20:30:00      Sat
## 7931      6              2 20:30:00      Sat
## 1232      1              0 20:45:00      Sat
## 2572      2              1 20:45:00      Sat
## 3912      3              0 20:45:00      Sat
## 5252      4              1 20:45:00      Sat
## 6592      5              0 20:45:00      Sat
## 7932      6              0 20:45:00      Sat
## 1233      1              0 21:00:00      Sat
## 2573      2              3 21:00:00      Sat
```

```
## 3913    3       9 21:00:00    Sat
## 5253    4       6 21:00:00    Sat
## 6593    5       0 21:00:00    Sat
## 7933    6       0 21:00:00    Sat
## 1234    1       2 21:15:00    Sat
## 2574    2       5 21:15:00    Sat
## 3914    3       6 21:15:00    Sat
## 5254    4      10 21:15:00    Sat
## 6594    5       0 21:15:00    Sat
## 7934    6       3 21:15:00    Sat
## 1235    1       2 21:30:00    Sat
## 2575    2       2 21:30:00    Sat
## 3915    3      10 21:30:00    Sat
## 5255    4       3 21:30:00    Sat
## 6595    5       0 21:30:00    Sat
## 7935    6       5 21:30:00    Sat
## 1236    1       4 21:45:00    Sat
## 2576    2       3 21:45:00    Sat
## 3916    3      10 21:45:00    Sat
## 5256    4       7 21:45:00    Sat
## 6596    5       2 21:45:00    Sat
## 7936    6       5 21:45:00    Sat
## 1237    1       5 22:00:00    Sat
## 2577    2       0 22:00:00    Sat
## 3917    3       9 22:00:00    Sat
## 5257    4       5 22:00:00    Sat
## 6597    5       2 22:00:00    Sat
## 7937    6       3 22:00:00    Sat
## 1238    1       9 22:15:00    Sat
## 2578    2       2 22:15:00    Sat
## 3918    3      17 22:15:00    Sat
## 5258    4       7 22:15:00    Sat
## 6598    5       4 22:15:00    Sat
## 7938    6       2 22:15:00    Sat
## 1239    1       9 22:30:00    Sat
## 2579    2       2 22:30:00    Sat
## 3919    3      18 22:30:00    Sat
## 5259    4       6 22:30:00    Sat
## 6599    5       4 22:30:00    Sat
## 7939    6       2 22:30:00    Sat
## 1240    1       8 22:45:00    Sat
## 2580    2       0 22:45:00    Sat
## 3920    3      17 22:45:00    Sat
## 5260    4       6 22:45:00    Sat
## 6600    5       5 22:45:00    Sat
## 7940    6       0 22:45:00    Sat
## 1241    1       6 23:00:00    Sat
## 2581    2       0 23:00:00    Sat
## 3921    3      11 23:00:00    Sat
## 5261    4       9 23:00:00    Sat
## 6601    5       7 23:00:00    Sat
## 7941    6       0 23:00:00    Sat
## 1242    1      10 23:15:00    Sat
## 2582    2       2 23:15:00    Sat
```

```
## 3922   3        14 23:15:00    Sat
## 5262   4         6 23:15:00    Sat
## 6602   5         7 23:15:00    Sat
## 7942   6         0 23:15:00    Sat
## 1243   1        13 23:30:00    Sat
## 2583   2         4 23:30:00    Sat
## 3923   3        14 23:30:00    Sat
## 5263   4         9 23:30:00    Sat
## 6603   5         8 23:30:00    Sat
## 7943   6         0 23:30:00    Sat
## 1244   1        16 23:45:00    Sat
## 2584   2         5 23:45:00    Sat
## 3924   3        20 23:45:00    Sat
## 5264   4         9 23:45:00    Sat
## 6604   5         6 23:45:00    Sat
## 7944   6         1 23:45:00    Sat
## 1245   1        18 00:00:00    Sun
## 2585   2         4 00:00:00    Sun
## 3925   3        19 00:00:00    Sun
## 5265   4         8 00:00:00    Sun
## 6605   5         6 00:00:00    Sun
## 7945   6         1 00:00:00    Sun
## 1246   1        15 00:15:00    Sun
## 2586   2         2 00:15:00    Sun
## 3926   3        25 00:15:00    Sun
## 5266   4        10 00:15:00    Sun
## 6606   5         8 00:15:00    Sun
## 7946   6         1 00:15:00    Sun
## 1247   1        20 00:30:00    Sun
## 2587   2         6 00:30:00    Sun
## 3927   3        24 00:30:00    Sun
## 5267   4        11 00:30:00    Sun
## 6607   5        10 00:30:00    Sun
## 7947   6         1 00:30:00    Sun
## 1248   1        15 00:45:00    Sun
## 2588   2        10 00:45:00    Sun
## 3928   3        32 00:45:00    Sun
## 5268   4        14 00:45:00    Sun
## 6608   5        12 00:45:00    Sun
## 7948   6         2 00:45:00    Sun
## 1249   1        13 01:00:00    Sun
## 2589   2        10 01:00:00    Sun
## 3929   3        33 01:00:00    Sun
## 5269   4        14 01:00:00    Sun
## 6609   5         6 01:00:00    Sun
## 7949   6         2 01:00:00    Sun
## 1250   1        13 01:15:00    Sun
## 2590   2         8 01:15:00    Sun
## 3930   3        37 01:15:00    Sun
## 5270   4        16 01:15:00    Sun
## 6610   5         8 01:15:00    Sun
## 7950   6         2 01:15:00    Sun
## 1251   1        17 01:30:00    Sun
## 2591   2        11 01:30:00    Sun
```

```
## 3931   3           38 01:30:00     Sun
## 5271   4           15 01:30:00     Sun
## 6611   5           10 01:30:00     Sun
## 7951   6            2 01:30:00     Sun
## 1252   1           17 01:45:00     Sun
## 2592   2           12 01:45:00     Sun
## 3932   3           31 01:45:00     Sun
## 5272   4           15 01:45:00     Sun
## 6612   5           10 01:45:00     Sun
## 7952   6            2 01:45:00     Sun
## 1253   1           15 02:00:00     Sun
## 2593   2           13 02:00:00     Sun
## 3933   3           36 02:00:00     Sun
## 5273   4           16 02:00:00     Sun
## 6613   5           12 02:00:00     Sun
## 7953   6            1 02:00:00     Sun
## 1254   1           15 02:15:00     Sun
## 2594   2           13 02:15:00     Sun
## 3934   3           35 02:15:00     Sun
## 5274   4           20 02:15:00     Sun
## 6614   5           13 02:15:00     Sun
## 7954   6            1 02:15:00     Sun
## 1255   1           13 02:30:00     Sun
## 2595   2           12 02:30:00     Sun
## 3935   3           32 02:30:00     Sun
## 5275   4           22 02:30:00     Sun
## 6615   5           11 02:30:00     Sun
## 7955   6            1 02:30:00     Sun
## 1256   1           11 02:45:00     Sun
## 2596   2           12 02:45:00     Sun
## 3936   3           38 02:45:00     Sun
## 5276   4           23 02:45:00     Sun
## 6616   5            9 02:45:00     Sun
## 7956   6            2 02:45:00     Sun
## 1257   1           12 03:00:00     Sun
## 2597   2           12 03:00:00     Sun
## 3937   3           38 03:00:00     Sun
## 5277   4           23 03:00:00     Sun
## 6617   5            9 03:00:00     Sun
## 7957   6            2 03:00:00     Sun
## 1258   1           16 03:15:00     Sun
## 2598   2           12 03:15:00     Sun
## 3938   3           41 03:15:00     Sun
## 5278   4           23 03:15:00     Sun
## 6618   5            9 03:15:00     Sun
## 7958   6            3 03:15:00     Sun
## 1259   1           17 03:30:00     Sun
## 2599   2           12 03:30:00     Sun
## 3939   3           41 03:30:00     Sun
## 5279   4           23 03:30:00     Sun
## 6619   5            7 03:30:00     Sun
## 7959   6            3 03:30:00     Sun
## 1260   1           17 03:45:00     Sun
## 2600   2           14 03:45:00     Sun
```

```
## 3940       3              43 03:45:00      Sun
## 5280       4              21 03:45:00      Sun
## 6620       5               7 03:45:00      Sun
## 7960       6               3 03:45:00      Sun
## 1261       1              17 04:00:00      Sun
## 2601       2              14 04:00:00      Sun
## 3941       3              43 04:00:00      Sun
## 5281       4              21 04:00:00      Sun
## 6621       5               7 04:00:00      Sun
## 7961       6               4 04:00:00      Sun
## 1262       1              17 04:15:00      Sun
## 2602       2              14 04:15:00      Sun
## 3942       3              45 04:15:00      Sun
## 5282       4              22 04:15:00      Sun
## 6622       5               8 04:15:00      Sun
## 7962       6               3 04:15:00      Sun
## 1263       1              18 04:30:00      Sun
## 2603       2              14 04:30:00      Sun
## 3943       3              45 04:30:00      Sun
## 5283       4              22 04:30:00      Sun
## 6623       5               8 04:30:00      Sun
## 7963       6               2 04:30:00      Sun
## 1264       1              18 04:45:00      Sun
## 2604       2              15 04:45:00      Sun
## 3944       3              45 04:45:00      Sun
## 5284       4              20 04:45:00      Sun
## 6624       5               8 04:45:00      Sun
## 7964       6               2 04:45:00      Sun
## 1265       1              18 05:00:00      Sun
## 2605       2              15 05:00:00      Sun
## 3945       3              45 05:00:00      Sun
## 5285       4              20 05:00:00      Sun
## 6625       5               8 05:00:00      Sun
## 7965       6               2 05:00:00      Sun
## 1266       1              16 05:15:00      Sun
## 2606       2              15 05:15:00      Sun
## 3946       3              45 05:15:00      Sun
## 5286       4              20 05:15:00      Sun
## 6626       5               8 05:15:00      Sun
## 7966       6               2 05:15:00      Sun
## 1267       1              16 05:30:00      Sun
## 2607       2              15 05:30:00      Sun
## 3947       3              46 05:30:00      Sun
## 5287       4              18 05:30:00      Sun
## 6627       5               8 05:30:00      Sun
## 7967       6               1 05:30:00      Sun
## 1268       1              16 05:45:00      Sun
## 2608       2              15 05:45:00      Sun
## 3948       3              46 05:45:00      Sun
## 5288       4              18 05:45:00      Sun
## 6628       5               8 05:45:00      Sun
## 7968       6               1 05:45:00      Sun
## 1269       1              16 06:00:00      Sun
## 2609       2              15 06:00:00      Sun
```

```
## 3949    3              48 06:00:00       Sun
## 5289    4              18 06:00:00       Sun
## 6629    5               8 06:00:00       Sun
## 7969    6               1 06:00:00       Sun
## 1270    1              15 06:15:00       Sun
## 2610    2              15 06:15:00       Sun
## 3950    3              52 06:15:00       Sun
## 5290    4              18 06:15:00       Sun
## 6630    5               8 06:15:00       Sun
## 7970    6               1 06:15:00       Sun
## 1271    1              15 06:30:00       Sun
## 2611    2              15 06:30:00       Sun
## 3951    3              52 06:30:00       Sun
## 5291    4              18 06:30:00       Sun
## 6631    5               8 06:30:00       Sun
## 7971    6               1 06:30:00       Sun
## 1272    1              14 06:45:00       Sun
## 2612    2              15 06:45:00       Sun
## 3952    3              50 06:45:00       Sun
## 5292    4              18 06:45:00       Sun
## 6632    5               8 06:45:00       Sun
## 7972    6               1 06:45:00       Sun
## 1273    1              14 07:00:00       Sun
## 2613    2              15 07:00:00       Sun
## 3953    3              50 07:00:00       Sun
## 5293    4              19 07:00:00       Sun
## 6633    5               8 07:00:00       Sun
## 7973    6               1 07:00:00       Sun
## 1274    1              14 07:15:00       Sun
## 2614    2              15 07:15:00       Sun
## 3954    3              50 07:15:00       Sun
## 5294    4              19 07:15:00       Sun
## 6634    5               8 07:15:00       Sun
## 7974    6               3 07:15:00       Sun
## 1275    1              14 07:30:00       Sun
## 2615    2              15 07:30:00       Sun
## 3955    3              53 07:30:00       Sun
## 5295    4              19 07:30:00       Sun
## 6635    5               6 07:30:00       Sun
## 7975    6               3 07:30:00       Sun
## 1276    1              13 07:45:00       Sun
## 2616    2              19 07:45:00       Sun
## 3956    3              53 07:45:00       Sun
## 5296    4              19 07:45:00       Sun
## 6636    5               8 07:45:00       Sun
## 7976    6               3 07:45:00       Sun
## 1277    1               8 08:00:00       Sun
## 2617    2              21 08:00:00       Sun
## 3957    3              51 08:00:00       Sun
## 5297    4              19 08:00:00       Sun
## 6637    5               9 08:00:00       Sun
## 7977    6               3 08:00:00       Sun
## 1278    1               8 08:15:00       Sun
## 2618    2              21 08:15:00       Sun
```

```
## 3958    3          49 08:15:00      Sun
## 5298    4          19 08:15:00      Sun
## 6638    5           9 08:15:00      Sun
## 7978    6           3 08:15:00      Sun
## 1279    1           7 08:30:00      Sun
## 2619    2          23 08:30:00      Sun
## 3959    3          48 08:30:00      Sun
## 5299    4          17 08:30:00      Sun
## 6639    5           9 08:30:00      Sun
## 7979    6           3 08:30:00      Sun
## 1280    1           7 08:45:00      Sun
## 2620    2          21 08:45:00      Sun
## 3960    3          46 08:45:00      Sun
## 5300    4          15 08:45:00      Sun
## 6640    5           9 08:45:00      Sun
## 7980    6           5 08:45:00      Sun
## 1281    1          12 09:00:00      Sun
## 2621    2          17 09:00:00      Sun
## 3961    3          50 09:00:00      Sun
## 5301    4          13 09:00:00      Sun
## 6641    5           9 09:00:00      Sun
## 7981    6           5 09:00:00      Sun
## 1282    1          14 09:15:00      Sun
## 2622    2          17 09:15:00      Sun
## 3962    3          48 09:15:00      Sun
## 5302    4          13 09:15:00      Sun
## 6642    5           9 09:15:00      Sun
## 7982    6           5 09:15:00      Sun
## 1283    1          12 09:30:00      Sun
## 2623    2          13 09:30:00      Sun
## 3963    3          45 09:30:00      Sun
## 5303    4           8 09:30:00      Sun
## 6643    5           9 09:30:00      Sun
## 7983    6           6 09:30:00      Sun
## 1284    1          10 09:45:00      Sun
## 2624    2           8 09:45:00      Sun
## 3964    3          37 09:45:00      Sun
## 5304    4           8 09:45:00      Sun
## 6644    5           9 09:45:00      Sun
## 7984    6           6 09:45:00      Sun
## 1285    1           8 10:00:00      Sun
## 2625    2           8 10:00:00      Sun
## 3965    3          39 10:00:00      Sun
## 5305    4           7 10:00:00      Sun
## 6645    5           9 10:00:00      Sun
## 7985    6           6 10:00:00      Sun
## 1286    1           9 10:15:00      Sun
## 2626    2           8 10:15:00      Sun
## 3966    3          30 10:15:00      Sun
## 5306    4           5 10:15:00      Sun
## 6646    5          12 10:15:00      Sun
## 7986    6           6 10:15:00      Sun
## 1287    1           9 10:30:00      Sun
## 2627    2           4 10:30:00      Sun
```

```
## 3967    3         31 10:30:00    Sun
## 5307    4          5 10:30:00    Sun
## 6647    5         10 10:30:00    Sun
## 7987    6          6 10:30:00    Sun
## 1288    1         10 10:45:00    Sun
## 2628    2          7 10:45:00    Sun
## 3968    3         22 10:45:00    Sun
## 5308    4          7 10:45:00    Sun
## 6648    5         10 10:45:00    Sun
## 7988    6          5 10:45:00    Sun
## 1289    1         10 11:00:00    Sun
## 2629    2          2 11:00:00    Sun
## 3969    3         14 11:00:00    Sun
## 5309    4          6 11:00:00    Sun
## 6649    5         10 11:00:00    Sun
## 7989    6          6 11:00:00    Sun
## 1290    1          8 11:15:00    Sun
## 2630    2          1 11:15:00    Sun
## 3970    3         12 11:15:00    Sun
## 5310    4          7 11:15:00    Sun
## 6650    5          8 11:15:00    Sun
## 7990    6          8 11:15:00    Sun
## 1291    1          6 11:30:00    Sun
## 2631    2          0 11:30:00    Sun
## 3971    3          5 11:30:00    Sun
## 5311    4          4 11:30:00    Sun
## 6651    5          5 11:30:00    Sun
## 7991    6          6 11:30:00    Sun
## 1292    1          6 11:45:00    Sun
## 2632    2          1 11:45:00    Sun
## 3972    3          5 11:45:00    Sun
## 5312    4          5 11:45:00    Sun
## 6652    5          5 11:45:00    Sun
## 7992    6          9 11:45:00    Sun
## 1293    1          3 12:00:00    Sun
## 2633    2          4 12:00:00    Sun
## 3973    3          7 12:00:00    Sun
## 5313    4          1 12:00:00    Sun
## 6653    5          5 12:00:00    Sun
## 7993    6          9 12:00:00    Sun
## 1294    1          5 12:15:00    Sun
## 2634    2          4 12:15:00    Sun
## 3974    3         11 12:15:00    Sun
## 5314    4          1 12:15:00    Sun
## 6654    5          5 12:15:00    Sun
## 7994    6          6 12:15:00    Sun
## 1295    1          7 12:30:00    Sun
## 2635    2          0 12:30:00    Sun
## 3975    3         11 12:30:00    Sun
## 5315    4          1 12:30:00    Sun
## 6655    5          7 12:30:00    Sun
## 7995    6          8 12:30:00    Sun
## 1296    1          9 12:45:00    Sun
## 2636    2          4 12:45:00    Sun
```

```
## 3976    3             5 12:45:00    Sun
## 5316    4             0 12:45:00    Sun
## 6656    5             7 12:45:00    Sun
## 7996    6             8 12:45:00    Sun
## 1297    1             8 13:00:00    Sun
## 2637    2             0 13:00:00    Sun
## 3977    3             1 13:00:00    Sun
## 5317    4             0 13:00:00    Sun
## 6657    5             4 13:00:00    Sun
## 7997    6             8 13:00:00    Sun
## 1298    1             3 13:15:00    Sun
## 2638    2             1 13:15:00    Sun
## 3978    3             3 13:15:00    Sun
## 5318    4             1 13:15:00    Sun
## 6658    5             4 13:15:00    Sun
## 7998    6             8 13:15:00    Sun
## 1299    1             4 13:30:00    Sun
## 2639    2             1 13:30:00    Sun
## 3979    3             2 13:30:00    Sun
## 5319    4             0 13:30:00    Sun
## 6659    5             3 13:30:00    Sun
## 7999    6             8 13:30:00    Sun
## 1300    1             0 13:45:00    Sun
## 2640    2             1 13:45:00    Sun
## 3980    3             8 13:45:00    Sun
## 5320    4             2 13:45:00    Sun
## 6660    5             5 13:45:00    Sun
## 8000    6             3 13:45:00    Sun
## 1301    1             0 14:00:00    Sun
## 2641    2             2 14:00:00    Sun
## 3981    3             5 14:00:00    Sun
## 5321    4             4 14:00:00    Sun
## 6661    5             5 14:00:00    Sun
## 8001    6             3 14:00:00    Sun
## 1302    1            19 14:15:00    Sun
## 2642    2             2 14:15:00    Sun
## 3982    3             5 14:15:00    Sun
## 5322    4             3 14:15:00    Sun
## 6662    5             7 14:15:00    Sun
## 8002    6             2 14:15:00    Sun
## 1303    1            21 14:30:00    Sun
## 2643    2             2 14:30:00    Sun
## 3983    3             2 14:30:00    Sun
## 5323    4             2 14:30:00    Sun
## 6663    5             5 14:30:00    Sun
## 8003    6             2 14:30:00    Sun
## 1304    1            22 14:45:00    Sun
## 2644    2             2 14:45:00    Sun
## 3984    3             5 14:45:00    Sun
## 5324    4             3 14:45:00    Sun
## 6664    5             5 14:45:00    Sun
## 8004    6             2 14:45:00    Sun
## 1305    1            18 15:00:00    Sun
## 2645    2             0 15:00:00    Sun
```

```
## 3985     3            3 15:00:00     Sun
## 5325     4            5 15:00:00     Sun
## 6665     5            5 15:00:00     Sun
## 8005     6            2 15:00:00     Sun
## 1306     1           16 15:15:00     Sun
## 2646     2            0 15:15:00     Sun
## 3986     3            4 15:15:00     Sun
## 5326     4            1 15:15:00     Sun
## 6666     5            5 15:15:00     Sun
## 8006     6            4 15:15:00     Sun
## 1307     1           13 15:30:00     Sun
## 2647     2            0 15:30:00     Sun
## 3987     3           13 15:30:00     Sun
## 5327     4            1 15:30:00     Sun
## 6667     5            8 15:30:00     Sun
## 8007     6            4 15:30:00     Sun
## 1308     1            7 15:45:00     Sun
## 2648     2            1 15:45:00     Sun
## 3988     3            4 15:45:00     Sun
## 5328     4            5 15:45:00     Sun
## 6668     5            8 15:45:00     Sun
## 8008     6            5 15:45:00     Sun
## 1309     1            5 16:00:00     Sun
## 2649     2            2 16:00:00     Sun
## 3989     3            0 16:00:00     Sun
## 5329     4            9 16:00:00     Sun
## 6669     5            7 16:00:00     Sun
## 8009     6            6 16:00:00     Sun
## 1310     1            6 16:15:00     Sun
## 2650     2            0 16:15:00     Sun
## 3990     3            0 16:15:00     Sun
## 5330     4           10 16:15:00     Sun
## 6670     5            9 16:15:00     Sun
## 8010     6            6 16:15:00     Sun
## 1311     1            5 16:30:00     Sun
## 2651     2            0 16:30:00     Sun
## 3991     3            4 16:30:00     Sun
## 5331     4            5 16:30:00     Sun
## 6671     5            7 16:30:00     Sun
## 8011     6            7 16:30:00     Sun
## 1312     1            5 16:45:00     Sun
## 2652     2            0 16:45:00     Sun
## 3992     3            3 16:45:00     Sun
## 5332     4            1 16:45:00     Sun
## 6672     5            5 16:45:00     Sun
## 8012     6            7 16:45:00     Sun
## 1313     1            6 17:00:00     Sun
## 2653     2            0 17:00:00     Sun
## 3993     3            5 17:00:00     Sun
## 5333     4            0 17:00:00     Sun
## 6673     5            5 17:00:00     Sun
## 8013     6            6 17:00:00     Sun
## 1314     1           11 17:15:00     Sun
## 2654     2            0 17:15:00     Sun
```

```
## 3994      3            2 17:15:00      Sun
## 5334      4            1 17:15:00      Sun
## 6674      5            5 17:15:00      Sun
## 8014      6            7 17:15:00      Sun
## 1315      1            4 17:30:00      Sun
## 2655      2            3 17:30:00      Sun
## 3995      3            3 17:30:00      Sun
## 5335      4            1 17:30:00      Sun
## 6675      5            4 17:30:00      Sun
## 8015      6            6 17:30:00      Sun
## 1316      1            5 17:45:00      Sun
## 2656      2            0 17:45:00      Sun
## 3996      3            4 17:45:00      Sun
## 5336      4            2 17:45:00      Sun
## 6676      5            4 17:45:00      Sun
## 8016      6            6 17:45:00      Sun
## 1317      1            2 18:00:00      Sun
## 2657      2            2 18:00:00      Sun
## 3997      3            6 18:00:00      Sun
## 5337      4            0 18:00:00      Sun
## 6677      5            6 18:00:00      Sun
## 8017      6            8 18:00:00      Sun
## 1318      1            1 18:15:00      Sun
## 2658      2            4 18:15:00      Sun
## 3998      3            2 18:15:00      Sun
## 5338      4            3 18:15:00      Sun
## 6678      5            8 18:15:00      Sun
## 8018      6            6 18:15:00      Sun
## 1319      1            1 18:30:00      Sun
## 2659      2            6 18:30:00      Sun
## 3999      3            4 18:30:00      Sun
## 5339      4            3 18:30:00      Sun
## 6679      5            6 18:30:00      Sun
## 8019      6            6 18:30:00      Sun
## 1320      1            4 18:45:00      Sun
## 2660      2            6 18:45:00      Sun
## 4000      3            4 18:45:00      Sun
## 5340      4            5 18:45:00      Sun
## 6680      5            6 18:45:00      Sun
## 8020      6            6 18:45:00      Sun
## 1321      1            0 19:00:00      Sun
## 2661      2            6 19:00:00      Sun
## 4001      3            9 19:00:00      Sun
## 5341      4            7 19:00:00      Sun
## 6681      5            4 19:00:00      Sun
## 8021      6            6 19:00:00      Sun
## 1322      1            4 19:15:00      Sun
## 2662      2            6 19:15:00      Sun
## 4002      3            5 19:15:00      Sun
## 5342      4            1 19:15:00      Sun
## 6682      5            3 19:15:00      Sun
## 8022      6            8 19:15:00      Sun
## 1323      1            1 19:30:00      Sun
## 2663      2            6 19:30:00      Sun
```

```
## 4003    3         13 19:30:00    Sun
## 5343    4          9 19:30:00    Sun
## 6683    5          2 19:30:00    Sun
## 8023    6          7 19:30:00    Sun
## 1324    1          0 19:45:00    Sun
## 2664    2          6 19:45:00    Sun
## 4004    3          5 19:45:00    Sun
## 5344    4          6 19:45:00    Sun
## 6684    5          3 19:45:00    Sun
## 8024    6          8 19:45:00    Sun
## 1325    1          0 20:00:00    Sun
## 2665    2          6 20:00:00    Sun
## 4005    3          2 20:00:00    Sun
## 5345    4          7 20:00:00    Sun
## 6685    5          3 20:00:00    Sun
## 8025    6          6 20:00:00    Sun
## 1326    1          0 20:15:00    Sun
## 2666    2          2 20:15:00    Sun
## 4006    3          6 20:15:00    Sun
## 5346    4          4 20:15:00    Sun
## 6686    5          3 20:15:00    Sun
## 8026    6          5 20:15:00    Sun
## 1327    1          0 20:30:00    Sun
## 2667    2          2 20:30:00    Sun
## 4007    3          5 20:30:00    Sun
## 5347    4          4 20:30:00    Sun
## 6687    5          3 20:30:00    Sun
## 8027    6          3 20:30:00    Sun
## 1328    1          0 20:45:00    Sun
## 2668    2          2 20:45:00    Sun
## 4008    3          7 20:45:00    Sun
## 5348    4          8 20:45:00    Sun
## 6688    5          3 20:45:00    Sun
## 8028    6          3 20:45:00    Sun
## 1329    1          5 21:00:00    Sun
## 2669    2          1 21:00:00    Sun
## 4009    3         13 21:00:00    Sun
## 5349    4          8 21:00:00    Sun
## 6689    5          3 21:00:00    Sun
## 8029    6          1 21:00:00    Sun
## 1330    1          1 21:15:00    Sun
## 2670    2          1 21:15:00    Sun
## 4010    3         13 21:15:00    Sun
## 5350    4          9 21:15:00    Sun
## 6690    5          3 21:15:00    Sun
## 8030    6          1 21:15:00    Sun
## 1331    1          3 21:30:00    Sun
## 2671    2          1 21:30:00    Sun
## 4011    3         10 21:30:00    Sun
## 5351    4         17 21:30:00    Sun
## 6691    5          3 21:30:00    Sun
## 8031    6          1 21:30:00    Sun
## 1332    1          3 21:45:00    Sun
## 2672    2          1 21:45:00    Sun
```

```
## 4012    3            8 21:45:00    Sun
## 5352    4           21 21:45:00    Sun
## 6692    5            3 21:45:00    Sun
## 8032    6            1 21:45:00    Sun
## 1333    1            3 22:00:00    Sun
## 2673    2            1 22:00:00    Sun
## 4013    3            4 22:00:00    Sun
## 5353    4           20 22:00:00    Sun
## 6693    5            3 22:00:00    Sun
## 8033    6            1 22:00:00    Sun
## 1334    1            3 22:15:00    Sun
## 2674    2            4 22:15:00    Sun
## 4014    3            7 22:15:00    Sun
## 5354    4           24 22:15:00    Sun
## 6694    5            3 22:15:00    Sun
## 8034    6            1 22:15:00    Sun
## 1335    1            3 22:30:00    Sun
## 2675    2            4 22:30:00    Sun
## 4015    3           10 22:30:00    Sun
## 5355    4           24 22:30:00    Sun
## 6695    5            3 22:30:00    Sun
## 8035    6            1 22:30:00    Sun
## 1336    1            4 22:45:00    Sun
## 2676    2            4 22:45:00    Sun
## 4016    3           11 22:45:00    Sun
## 5356    4           24 22:45:00    Sun
## 6696    5            3 22:45:00    Sun
## 8036    6            1 22:45:00    Sun
## 1337    1            3 23:00:00    Sun
## 2677    2            2 23:00:00    Sun
## 4017    3           11 23:00:00    Sun
## 5357    4           26 23:00:00    Sun
## 6697    5            3 23:00:00    Sun
## 8037    6            1 23:00:00    Sun
## 1338    1            2 23:15:00    Sun
## 2678    2            6 23:15:00    Sun
## 4018    3           13 23:15:00    Sun
## 5358    4           26 23:15:00    Sun
## 6698    5            5 23:15:00    Sun
## 8038    6            1 23:15:00    Sun
## 1339    1            1 23:30:00    Sun
## 2679    2            9 23:30:00    Sun
## 4019    3           14 23:30:00    Sun
## 5359    4           23 23:30:00    Sun
## 6699    5            5 23:30:00    Sun
## 8039    6            2 23:30:00    Sun
## 1340    1            1 23:45:00    Sun
## 2680    2            9 23:45:00    Sun
## 4020    3           16 23:45:00    Sun
## 5360    4           21 23:45:00    Sun
## 6700    5            5 23:45:00    Sun
## 8040    6            2 23:45:00    Sun
```

```
# Start with data partition here.
set.seed(8675309)
index <- sample(2, nrow(stations_bike_avail_by_time_no_timestamp), replace = TRUE, p=c(0.8, 0.2))
train <- stations_bike_avail_by_time_no_timestamp[index==1,]
test <- stations_bike_avail_by_time_no_timestamp[index==2,]
```

```
mod1 <- glm(bikes.avail.count ~ cluster + time + weekday, data = train, family ="poisson")
summary(mod1)
```

```
##
## Call:
## glm(formula = bikes.avail.count ~ cluster + time + weekday, family = "poisson",
##      data = train)
##
## Deviance Residuals:
##      Min       1Q    Median       3Q       Max
## -7.4597  -1.7847  -0.3791   1.1239   8.4367
##
## Coefficients:
##                Estimate Std. Error z value Pr(>|z|)
## (Intercept)    3.027394   0.026155 115.750  < 2e-16 ***
## cluster2      -0.212459   0.012601 -16.861  < 2e-16 ***
## cluster3       0.952189   0.009949  95.707  < 2e-16 ***
## cluster4      -0.031446   0.011920  -2.638 0.008339 **
## cluster5      -0.354699   0.013160 -26.952  < 2e-16 ***
## cluster6      -1.356997   0.018381 -73.826  < 2e-16 ***
## time00:15:00  -0.034474   0.036464  -0.945 0.344434
## time00:30:00   0.065799   0.035442   1.857 0.063379 .
## time00:45:00   0.068291   0.035104   1.945 0.051726 .
## time01:00:00   0.088188   0.034829   2.532 0.011341 *
## time01:15:00   0.119915   0.035966   3.334 0.000856 ***
## time01:30:00   0.182831   0.035938   5.087 3.63e-07 ***
## time01:45:00   0.192717   0.033802   5.701 1.19e-08 ***
## time02:00:00   0.190189   0.033742   5.637 1.73e-08 ***
## time02:15:00   0.161024   0.034308   4.693 2.69e-06 ***
## time02:30:00   0.178540   0.034639   5.154 2.55e-07 ***
## time02:45:00   0.194827   0.033833   5.758 8.49e-09 ***
## time03:00:00   0.205296   0.033743   6.084 1.17e-09 ***
## time03:15:00   0.221456   0.035544   6.230 4.65e-10 ***
## time03:30:00   0.189802   0.034041   5.576 2.47e-08 ***
## time03:45:00   0.234113   0.034075   6.871 6.40e-12 ***
## time04:00:00   0.176451   0.033905   5.204 1.95e-07 ***
## time04:15:00   0.211681   0.033561   6.307 2.84e-10 ***
## time04:30:00   0.250103   0.032937   7.593 3.11e-14 ***
## time04:45:00   0.235313   0.035199   6.685 2.31e-11 ***
## time05:00:00   0.214041   0.033406   6.407 1.48e-10 ***
## time05:15:00   0.188136   0.034336   5.479 4.27e-08 ***
## time05:30:00   0.231422   0.033839   6.839 7.98e-12 ***
## time05:45:00   0.169399   0.036119   4.690 2.73e-06 ***
## time06:00:00   0.194328   0.033094   5.872 4.31e-09 ***
## time06:15:00   0.147418   0.035109   4.199 2.68e-05 ***
## time06:30:00   0.144038   0.034176   4.215 2.50e-05 ***
## time06:45:00   0.090176   0.035653   2.529 0.011431 *
```

```
## time07:00:00  0.036372   0.035495   1.025 0.305506
## time07:15:00  0.037213   0.035741   1.041 0.297792
## time07:30:00 -0.043794   0.036531  -1.199 0.230606
## time07:45:00 -0.086541   0.038090  -2.272 0.023086 *
## time08:00:00 -0.259651   0.039482  -6.577 4.82e-11 ***
## time08:15:00 -0.405077   0.039600 -10.229  < 2e-16 ***
## time08:30:00 -0.469173   0.041166 -11.397  < 2e-16 ***
## time08:45:00 -0.537492   0.041635 -12.910  < 2e-16 ***
## time09:00:00 -0.662938   0.041871 -15.833  < 2e-16 ***
## time09:15:00 -0.763519   0.044325 -17.225  < 2e-16 ***
## time09:30:00 -0.830695   0.045540 -18.241  < 2e-16 ***
## time09:45:00 -1.025892   0.052359 -19.594  < 2e-16 ***
## time10:00:00 -1.184834   0.053911 -21.978  < 2e-16 ***
## time10:15:00 -1.119755   0.052105 -21.490  < 2e-16 ***
## time10:30:00 -1.248594   0.059132 -21.115  < 2e-16 ***
## time10:45:00 -1.242307   0.054098 -22.964  < 2e-16 ***
## time11:00:00 -1.322015   0.058593 -22.563  < 2e-16 ***
## time11:15:00 -1.321669   0.056925 -23.218  < 2e-16 ***
## time11:30:00 -1.469130   0.060216 -24.398  < 2e-16 ***
## time11:45:00 -1.458215   0.060140 -24.247  < 2e-16 ***
## time12:00:00 -1.467967   0.062899 -23.338  < 2e-16 ***
## time12:15:00 -1.534490   0.060824 -25.228  < 2e-16 ***
## time12:30:00 -1.590254   0.060821 -26.146  < 2e-16 ***
## time12:45:00 -1.640441   0.063160 -25.973  < 2e-16 ***
## time13:00:00 -1.722559   0.065984 -26.106  < 2e-16 ***
## time13:15:00 -1.757796   0.071332 -24.642  < 2e-16 ***
## time13:30:00 -1.635196   0.064666 -25.287  < 2e-16 ***
## time13:45:00 -1.716339   0.065465 -26.218  < 2e-16 ***
## time14:00:00 -1.642404   0.063804 -25.741  < 2e-16 ***
## time14:15:00 -1.443973   0.058919 -24.508  < 2e-16 ***
## time14:30:00 -1.788588   0.067296 -26.578  < 2e-16 ***
## time14:45:00 -1.626425   0.064762 -25.114  < 2e-16 ***
## time15:00:00 -1.693216   0.062633 -27.034  < 2e-16 ***
## time15:15:00 -1.581433   0.065367 -24.193  < 2e-16 ***
## time15:30:00 -1.461387   0.060441 -24.179  < 2e-16 ***
## time15:45:00 -1.410174   0.058046 -24.294  < 2e-16 ***
## time16:00:00 -1.561763   0.062378 -25.037  < 2e-16 ***
## time16:15:00 -1.630680   0.063709 -25.596  < 2e-16 ***
## time16:30:00 -1.537787   0.063256 -24.311  < 2e-16 ***
## time16:45:00 -1.461326   0.058182 -25.117  < 2e-16 ***
## time17:00:00 -1.327290   0.057539 -23.068  < 2e-16 ***
## time17:15:00 -1.263322   0.057055 -22.142  < 2e-16 ***
## time17:30:00 -1.400349   0.056803 -24.653  < 2e-16 ***
## time17:45:00 -1.283768   0.054550 -23.534  < 2e-16 ***
## time18:00:00 -1.306517   0.055608 -23.495  < 2e-16 ***
## time18:15:00 -1.215287   0.052658 -23.079  < 2e-16 ***
## time18:30:00 -1.232980   0.053105 -23.218  < 2e-16 ***
## time18:45:00 -1.258770   0.052527 -23.964  < 2e-16 ***
## time19:00:00 -1.206720   0.056453 -21.376  < 2e-16 ***
## time19:15:00 -1.197097   0.052758 -22.690  < 2e-16 ***
## time19:30:00 -1.137081   0.053530 -21.242  < 2e-16 ***
## time19:45:00 -1.081515   0.052410 -20.636  < 2e-16 ***
## time20:00:00 -1.026292   0.050684 -20.249  < 2e-16 ***
## time20:15:00 -0.927748   0.048668 -19.063  < 2e-16 ***
```

```
## time20:30:00 -0.936490    0.051311 -18.251  < 2e-16 ***
## time20:45:00 -0.895753    0.048087 -18.628  < 2e-16 ***
## time21:00:00 -0.727182    0.045236 -16.075  < 2e-16 ***
## time21:15:00 -0.660247    0.042545 -15.519  < 2e-16 ***
## time21:30:00 -0.590980    0.042269 -13.981  < 2e-16 ***
## time21:45:00 -0.526844    0.044933 -11.725  < 2e-16 ***
## time22:00:00 -0.484159    0.040326 -12.006  < 2e-16 ***
## time22:15:00 -0.424325    0.040513 -10.474  < 2e-16 ***
## time22:30:00 -0.470320    0.042021 -11.192  < 2e-16 ***
## time22:45:00 -0.325715    0.041014  -7.942 2.00e-15 ***
## time23:00:00 -0.275513    0.037938  -7.262 3.81e-13 ***
## time23:15:00 -0.236609    0.039665  -5.965 2.44e-09 ***
## time23:30:00 -0.132927    0.037359  -3.558 0.000374 ***
## time23:45:00 -0.138450    0.037206  -3.721 0.000198 ***
## weekday.L    -0.111860    0.009594 -11.659  < 2e-16 ***
## weekday.Q    -0.358574    0.009429 -38.029  < 2e-16 ***
## weekday.C     0.098315    0.009126  10.773  < 2e-16 ***
## weekday^4    -0.105129    0.008656 -12.145  < 2e-16 ***
## weekday^5     0.096484    0.008650  11.154  < 2e-16 ***
## weekday^6    -0.113754    0.008367 -13.595  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for poisson family taken to be 1)
##
##     Null deviance: 108886  on 6463  degrees of freedom
## Residual deviance:  30206  on 6357  degrees of freedom
## AIC: 54262
##
## Number of Fisher Scoring iterations: 5
```

```
pred <- predict.glm(mod1, newdata=test[test$bikes.avail.count != 0,],type = "response")
plot(test$bikes.avail.count[test$bikes.avail.count!=0],type = "b",col="red")
lines(round(pred),col="blue")
```
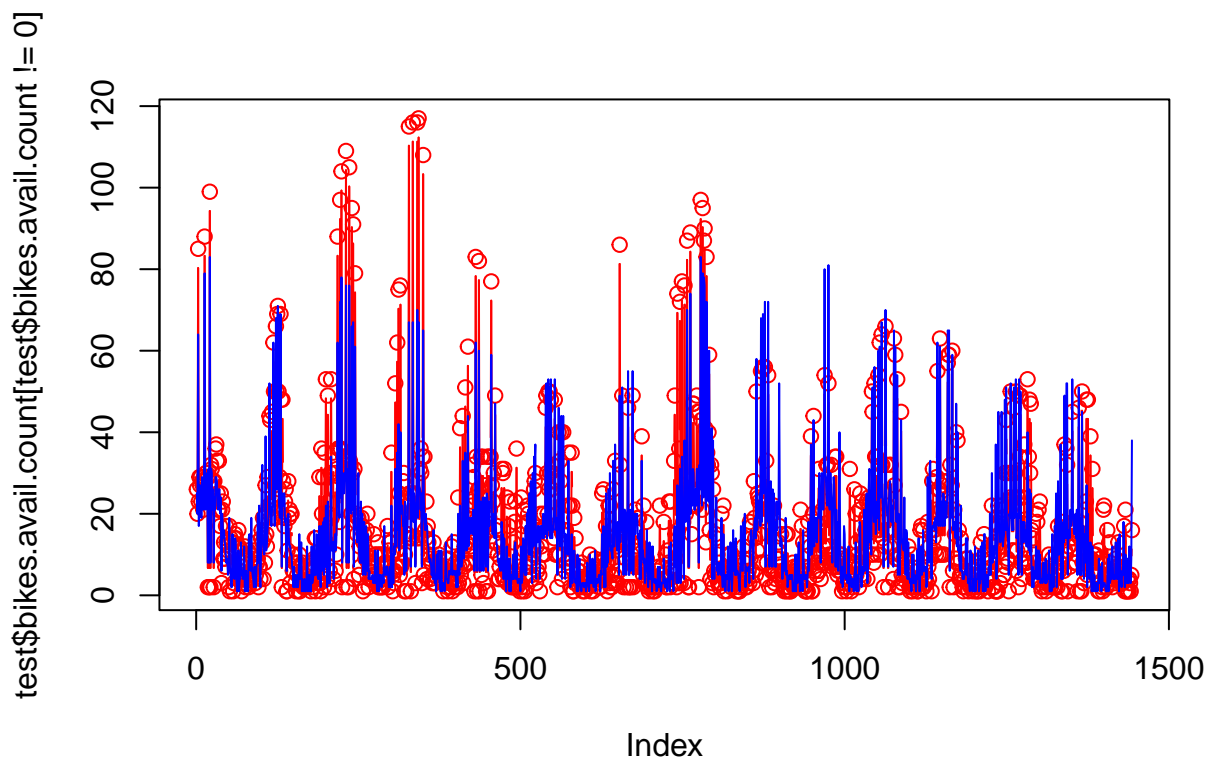
```
library(Metrics)
```

```
##
## Attaching package: 'Metrics'
```

```
## The following object is masked from 'package:fabletools':
##
##     accuracy
```

```
pred <- predict.glm(mod1, newdata = test, type = "response")
rmsemodelp <- ModelMetrics::rmse(test$bikes.avail.count,round(pred))
maemodelp <- mae(test$bikes.avail.count,round(pred))
```

```
rmsemodelp
```

```
## [1] 8.675188
```

```
maemodelp
```

```
## [1] 5.961929
```

```r
mod2 <- glm(bikes.avail.count ~ cluster + time + weekday, data = train, family ="quasipoisson")
summary(mod2)
```

```
##
## Call:
## glm(formula = bikes.avail.count ~ cluster + time + weekday, family = "quasipoisson",
##     data = train)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -7.4597  -1.7847  -0.3791   1.1239   8.4367
##
## Coefficients:
##               Estimate Std. Error t value Pr(>|t|)
## (Intercept)    3.02739    0.05991  50.532  < 2e-16 ***
## cluster2      -0.21246    0.02886  -7.361 2.06e-13 ***
## cluster3       0.95219    0.02279  41.781  < 2e-16 ***
## cluster4      -0.03145    0.02731  -1.152 0.249506
## cluster5      -0.35470    0.03015 -11.766  < 2e-16 ***
## cluster6      -1.35700    0.04210 -32.229  < 2e-16 ***
## time00:15:00  -0.03447    0.08353  -0.413 0.679813
## time00:30:00   0.06580    0.08119   0.810 0.417696
## time00:45:00   0.06829    0.08041   0.849 0.395757
## time01:00:00   0.08819    0.07978   1.105 0.269042
## time01:15:00   0.11991    0.08239   1.456 0.145569
## time01:30:00   0.18283    0.08232   2.221 0.026392 *
## time01:45:00   0.19272    0.07743   2.489 0.012837 *
## time02:00:00   0.19019    0.07729   2.461 0.013893 *
## time02:15:00   0.16102    0.07859   2.049 0.040507 *
## time02:30:00   0.17854    0.07935   2.250 0.024474 *
## time02:45:00   0.19483    0.07750   2.514 0.011965 *
## time03:00:00   0.20530    0.07729   2.656 0.007925 **
## time03:15:00   0.22146    0.08142   2.720 0.006547 **
## time03:30:00   0.18980    0.07798   2.434 0.014956 *
## time03:45:00   0.23411    0.07805   2.999 0.002716 **
## time04:00:00   0.17645    0.07767   2.272 0.023123 *
## time04:15:00   0.21168    0.07688   2.753 0.005913 **
## time04:30:00   0.25010    0.07545   3.315 0.000922 ***
## time04:45:00   0.23531    0.08063   2.918 0.003530 **
## time05:00:00   0.21404    0.07652   2.797 0.005171 **
## time05:15:00   0.18814    0.07865   2.392 0.016786 *
## time05:30:00   0.23142    0.07751   2.986 0.002841 **
## time05:45:00   0.16940    0.08274   2.047 0.040654 *
## time06:00:00   0.19433    0.07581   2.563 0.010388 *
## time06:15:00   0.14742    0.08042   1.833 0.066845 .
## time06:30:00   0.14404    0.07828   1.840 0.065825 .
## time06:45:00   0.09018    0.08167   1.104 0.269566
## time07:00:00   0.03637    0.08131   0.447 0.654646
## time07:15:00   0.03721    0.08187   0.455 0.649460
## time07:30:00  -0.04379    0.08368  -0.523 0.600753
## time07:45:00  -0.08654    0.08725  -0.992 0.321305
## time08:00:00  -0.25965    0.09044  -2.871 0.004105 **
## time08:15:00  -0.40508    0.09071  -4.466 8.12e-06 ***
```

```
## time08:30:00 -0.46917   0.09430  -4.976 6.68e-07 ***
## time08:45:00 -0.53749   0.09537  -5.636 1.82e-08 ***
## time09:00:00 -0.66294   0.09591  -6.912 5.25e-12 ***
## time09:15:00 -0.76352   0.10153  -7.520 6.24e-14 ***
## time09:30:00 -0.83070   0.10432  -7.963 1.97e-15 ***
## time09:45:00 -1.02589   0.11994  -8.554  < 2e-16 ***
## time10:00:00 -1.18483   0.12349  -9.594  < 2e-16 ***
## time10:15:00 -1.11976   0.11935  -9.382  < 2e-16 ***
## time10:30:00 -1.24859   0.13545  -9.218  < 2e-16 ***
## time10:45:00 -1.24231   0.12392 -10.025  < 2e-16 ***
## time11:00:00 -1.32201   0.13422  -9.850  < 2e-16 ***
## time11:15:00 -1.32167   0.13039 -10.136  < 2e-16 ***
## time11:30:00 -1.46913   0.13793 -10.651  < 2e-16 ***
## time11:45:00 -1.45821   0.13776 -10.585  < 2e-16 ***
## time12:00:00 -1.46797   0.14408 -10.188  < 2e-16 ***
## time12:15:00 -1.53449   0.13933 -11.014  < 2e-16 ***
## time12:30:00 -1.59025   0.13932 -11.414  < 2e-16 ***
## time12:45:00 -1.64044   0.14468 -11.338  < 2e-16 ***
## time13:00:00 -1.72256   0.15115 -11.397  < 2e-16 ***
## time13:15:00 -1.75780   0.16340 -10.758  < 2e-16 ***
## time13:30:00 -1.63520   0.14813 -11.039  < 2e-16 ***
## time13:45:00 -1.71634   0.14996 -11.445  < 2e-16 ***
## time14:00:00 -1.64240   0.14615 -11.237  < 2e-16 ***
## time14:15:00 -1.44397   0.13496 -10.699  < 2e-16 ***
## time14:30:00 -1.78859   0.15415 -11.603  < 2e-16 ***
## time14:45:00 -1.62643   0.14835 -10.964  < 2e-16 ***
## time15:00:00 -1.69322   0.14347 -11.802  < 2e-16 ***
## time15:15:00 -1.58143   0.14973 -10.562  < 2e-16 ***
## time15:30:00 -1.46139   0.13845 -10.555  < 2e-16 ***
## time15:45:00 -1.41017   0.13296 -10.606  < 2e-16 ***
## time16:00:00 -1.56176   0.14289 -10.930  < 2e-16 ***
## time16:15:00 -1.63068   0.14594 -11.174  < 2e-16 ***
## time16:30:00 -1.53779   0.14490 -10.613  < 2e-16 ***
## time16:45:00 -1.46133   0.13327 -10.965  < 2e-16 ***
## time17:00:00 -1.32729   0.13180 -10.070  < 2e-16 ***
## time17:15:00 -1.26332   0.13069  -9.666  < 2e-16 ***
## time17:30:00 -1.40035   0.13012 -10.762  < 2e-16 ***
## time17:45:00 -1.28377   0.12495 -10.274  < 2e-16 ***
## time18:00:00 -1.30652   0.12738 -10.257  < 2e-16 ***
## time18:15:00 -1.21529   0.12062 -10.075  < 2e-16 ***
## time18:30:00 -1.23298   0.12164 -10.136  < 2e-16 ***
## time18:45:00 -1.25877   0.12032 -10.462  < 2e-16 ***
## time19:00:00 -1.20672   0.12931  -9.332  < 2e-16 ***
## time19:15:00 -1.19710   0.12085  -9.906  < 2e-16 ***
## time19:30:00 -1.13708   0.12262  -9.273  < 2e-16 ***
## time19:45:00 -1.08152   0.12005  -9.009  < 2e-16 ***
## time20:00:00 -1.02629   0.11610  -8.840  < 2e-16 ***
## time20:15:00 -0.92775   0.11148  -8.322  < 2e-16 ***
## time20:30:00 -0.93649   0.11754  -7.968 1.90e-15 ***
## time20:45:00 -0.89575   0.11015  -8.132 5.03e-16 ***
## time21:00:00 -0.72718   0.10362  -7.018 2.49e-12 ***
## time21:15:00 -0.66025   0.09746  -6.775 1.36e-11 ***
## time21:30:00 -0.59098   0.09682  -6.104 1.10e-09 ***
## time21:45:00 -0.52684   0.10293  -5.119 3.17e-07 ***
```

```
## time22:00:00 -0.48416     0.09237  -5.241 1.65e-07 ***
## time22:15:00 -0.42433     0.09280  -4.572 4.91e-06 ***
## time22:30:00 -0.47032     0.09626  -4.886 1.05e-06 ***
## time22:45:00 -0.32571     0.09395  -3.467 0.000530 ***
## time23:00:00 -0.27551     0.08690  -3.170 0.001530 **
## time23:15:00 -0.23661     0.09086  -2.604 0.009233 **
## time23:30:00 -0.13293     0.08558  -1.553 0.120399
## time23:45:00 -0.13845     0.08523  -1.624 0.104319
## weekday.L    -0.11186     0.02198  -5.090 3.68e-07 ***
## weekday.Q    -0.35857     0.02160 -16.602  < 2e-16 ***
## weekday.C     0.09832     0.02090   4.703 2.62e-06 ***
## weekday^4    -0.10513     0.01983  -5.302 1.18e-07 ***
## weekday^5     0.09648     0.01981   4.870 1.15e-06 ***
## weekday^6    -0.11375     0.01917  -5.935 3.09e-09 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for quasipoisson family taken to be 5.247101)
##
##      Null deviance: 108886  on 6463  degrees of freedom
## Residual deviance:  30206  on 6357  degrees of freedom
## AIC: NA
##
## Number of Fisher Scoring iterations: 5
```

```
predq <- predict.glm(mod2, newdata=test[test$bikes.avail.count != 0,],type = "response")
plot(test$bikes.avail.count[test$bikes.avail.count!=0],type = "b",col="red")
lines(round(predq),col="blue")
```
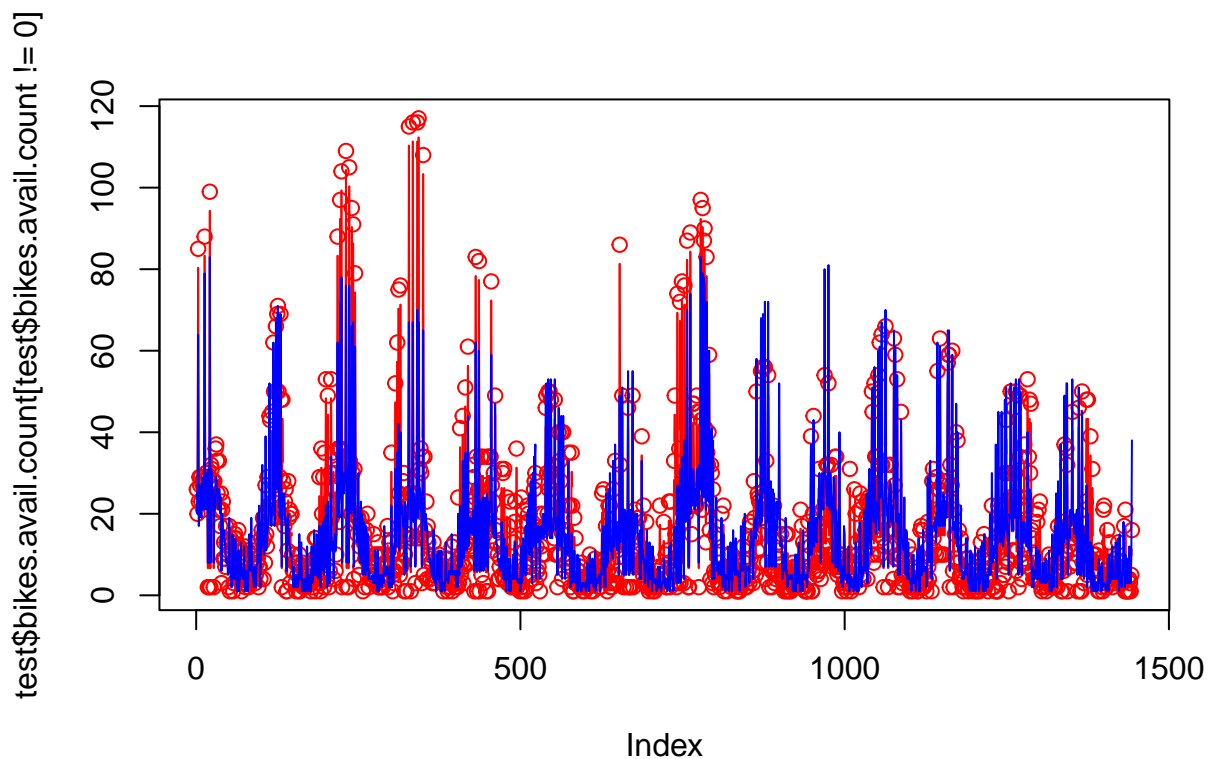
```
predq <- predict.glm(mod2,newdata=test, type = "response")
rmsemodelqp <- ModelMetrics::rmse(test$bikes.avail.count,round(predq))
maemodelqp <- mae(test$bikes.avail.count,round(predq))
rmsemodelqp
```

```
## [1] 8.675188
```

```
maemodelqp
```

```
## [1] 5.961929
```

```
mod3 <- glm.nb(bikes.avail.count ~ cluster + time + weekday, data=train)
summary(mod3)
```

```
##
## Call:
## glm.nb(formula = bikes.avail.count ~ cluster + time + weekday,
##     data = train, init.theta = 2.367937065, link = log)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -3.3310  -0.9605  -0.1628   0.4787   3.6554
##
## Coefficients:
```

```
##                Estimate Std. Error z value Pr(>|z|)
## (Intercept)     3.00671    0.08701  34.555  < 2e-16 ***
## cluster2       -0.40320    0.03198 -12.608  < 2e-16 ***
## cluster3        0.83753    0.03060  27.374  < 2e-16 ***
## cluster4       -0.11517    0.03118  -3.694 0.000221 ***
## cluster5       -0.40381    0.03204 -12.605  < 2e-16 ***
## cluster6       -1.06582    0.03356 -31.761  < 2e-16 ***
## time00:15:00   -0.05266    0.12060  -0.437 0.662357
## time00:30:00    0.04711    0.12064   0.390 0.696192
## time00:45:00    0.08619    0.11959   0.721 0.471090
## time01:00:00    0.10920    0.11966   0.913 0.361460
## time01:15:00    0.11596    0.12155   0.954 0.340105
## time01:30:00    0.19890    0.12267   1.621 0.104925
## time01:45:00    0.20445    0.11788   1.734 0.082843 .
## time02:00:00    0.20732    0.11707   1.771 0.076565 .
## time02:15:00    0.18657    0.11867   1.572 0.115903
## time02:30:00    0.19985    0.11920   1.677 0.093614 .
## time02:45:00    0.19481    0.11902   1.637 0.101684
## time03:00:00    0.21920    0.11822   1.854 0.063708 .
## time03:15:00    0.23955    0.12399   1.932 0.053364 .
## time03:30:00    0.19317    0.11916   1.621 0.104987
## time03:45:00    0.24085    0.11946   2.016 0.043789 *
## time04:00:00    0.20733    0.11706   1.771 0.076539 .
## time04:15:00    0.21196    0.11782   1.799 0.072016 .
## time04:30:00    0.29853    0.11740   2.543 0.010997 *
## time04:45:00    0.25519    0.12094   2.110 0.034856 *
## time05:00:00    0.24225    0.11696   2.071 0.038332 *
## time05:15:00    0.19190    0.11886   1.615 0.106409
## time05:30:00    0.28422    0.11963   2.376 0.017512 *
## time05:45:00    0.22302    0.12696   1.757 0.078975 .
## time06:00:00    0.22720    0.11552   1.967 0.049219 *
## time06:15:00    0.17535    0.11934   1.469 0.141742
## time06:30:00    0.17246    0.11842   1.456 0.145314
## time06:45:00    0.08556    0.12183   0.702 0.482484
## time07:00:00    0.05704    0.11999   0.475 0.634514
## time07:15:00    0.11245    0.12081   0.931 0.351926
## time07:30:00    0.02966    0.12018   0.247 0.805089
## time07:45:00   -0.03846    0.12356  -0.311 0.755609
## time08:00:00   -0.21363    0.12287  -1.739 0.082085 .
## time08:15:00   -0.36263    0.12110  -2.994 0.002750 **
## time08:30:00   -0.37158    0.12047  -3.084 0.002040 **
## time08:45:00   -0.36401    0.12144  -2.997 0.002723 **
## time09:00:00   -0.48045    0.11910  -4.034 5.48e-05 ***
## time09:15:00   -0.57140    0.12097  -4.723 2.32e-06 ***
## time09:30:00   -0.65967    0.12166  -5.422 5.89e-08 ***
## time09:45:00   -0.80280    0.12797  -6.273 3.53e-10 ***
## time10:00:00   -0.96944    0.12752  -7.602 2.91e-14 ***
## time10:15:00   -0.93637    0.12746  -7.346 2.04e-13 ***
## time10:30:00   -1.00513    0.13366  -7.520 5.47e-14 ***
## time10:45:00   -1.01504    0.12589  -8.063 7.44e-16 ***
## time11:00:00   -1.08513    0.12845  -8.448  < 2e-16 ***
## time11:15:00   -1.06086    0.12763  -8.312  < 2e-16 ***
## time11:30:00   -1.24808    0.13045  -9.568  < 2e-16 ***
## time11:45:00   -1.19435    0.12886  -9.269  < 2e-16 ***
```

```
## time12:00:00 -1.16179   0.13371  -8.689  < 2e-16 ***
## time12:15:00 -1.27791   0.12801  -9.983  < 2e-16 ***
## time12:30:00 -1.32139   0.12818 -10.309  < 2e-16 ***
## time12:45:00 -1.39311   0.13118 -10.620  < 2e-16 ***
## time13:00:00 -1.49525   0.13166 -11.357  < 2e-16 ***
## time13:15:00 -1.47781   0.13384 -11.041  < 2e-16 ***
## time13:30:00 -1.43330   0.13253 -10.815  < 2e-16 ***
## time13:45:00 -1.55011   0.13199 -11.744  < 2e-16 ***
## time14:00:00 -1.45382   0.13063 -11.130  < 2e-16 ***
## time14:15:00 -1.27172   0.12998  -9.784  < 2e-16 ***
## time14:30:00 -1.64291   0.13343 -12.313  < 2e-16 ***
## time14:45:00 -1.46736   0.13371 -10.974  < 2e-16 ***
## time15:00:00 -1.53759   0.13001 -11.827  < 2e-16 ***
## time15:15:00 -1.39425   0.13388 -10.414  < 2e-16 ***
## time15:30:00 -1.30332   0.12980 -10.041  < 2e-16 ***
## time15:45:00 -1.22043   0.12956  -9.420  < 2e-16 ***
## time16:00:00 -1.37301   0.13165 -10.429  < 2e-16 ***
## time16:15:00 -1.41305   0.13198 -10.706  < 2e-16 ***
## time16:30:00 -1.33272   0.13293 -10.026  < 2e-16 ***
## time16:45:00 -1.26807   0.12677 -10.003  < 2e-16 ***
## time17:00:00 -1.19362   0.13014  -9.172  < 2e-16 ***
## time17:15:00 -1.14022   0.12942  -8.810  < 2e-16 ***
## time17:30:00 -1.30569   0.12888 -10.131  < 2e-16 ***
## time17:45:00 -1.13593   0.12615  -9.004  < 2e-16 ***
## time18:00:00 -1.17342   0.12644  -9.281  < 2e-16 ***
## time18:15:00 -1.11068   0.12573  -8.834  < 2e-16 ***
## time18:30:00 -1.10393   0.12774  -8.642  < 2e-16 ***
## time18:45:00 -1.12872   0.12517  -9.017  < 2e-16 ***
## time19:00:00 -1.12150   0.13347  -8.402  < 2e-16 ***
## time19:15:00 -1.10427   0.12639  -8.737  < 2e-16 ***
## time19:30:00 -1.06503   0.12954  -8.222  < 2e-16 ***
## time19:45:00 -0.98464   0.12713  -7.745 9.56e-15 ***
## time20:00:00 -0.95054   0.12729  -7.468 8.15e-14 ***
## time20:15:00 -0.89290   0.12514  -7.135 9.65e-13 ***
## time20:30:00 -0.87177   0.12867  -6.775 1.24e-11 ***
## time20:45:00 -0.87962   0.12424  -7.080 1.44e-12 ***
## time21:00:00 -0.72149   0.12311  -5.861 4.61e-09 ***
## time21:15:00 -0.65074   0.12111  -5.373 7.74e-08 ***
## time21:30:00 -0.56897   0.12135  -4.689 2.75e-06 ***
## time21:45:00 -0.54053   0.12615  -4.285 1.83e-05 ***
## time22:00:00 -0.46334   0.12111  -3.826 0.000130 ***
## time22:15:00 -0.38230   0.12077  -3.165 0.001548 **
## time22:30:00 -0.41799   0.12336  -3.388 0.000703 ***
## time22:45:00 -0.30783   0.12546  -2.454 0.014143 *
## time23:00:00 -0.25611   0.11957  -2.142 0.032207 *
## time23:15:00 -0.20372   0.12248  -1.663 0.096244 .
## time23:30:00 -0.12613   0.12089  -1.043 0.296802
## time23:45:00 -0.13453   0.11852  -1.135 0.256355
## weekday.L    -0.20230   0.02490  -8.125 4.48e-16 ***
## weekday.Q    -0.29302   0.02468 -11.873  < 2e-16 ***
## weekday.C     0.13893   0.02470   5.625 1.85e-08 ***
## weekday^4     0.02965   0.02436   1.217 0.223565
## weekday^5     0.07167   0.02452   2.924 0.003461 **
## weekday^6    -0.18619   0.02409  -7.730 1.07e-14 ***
```

```
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for Negative Binomial(2.3679) family taken to be 1)
##
##      Null deviance: 17955.0  on 6463  degrees of freedom
## Residual deviance:  7662.2  on 6357  degrees of freedom
## AIC: 41664
##
## Number of Fisher Scoring iterations: 1
##
##
##                Theta:  2.3679
##           Std. Err.:  0.0590
##
##  2 x log-likelihood:  -41447.5450
```

```
prednb <- predict.glm(mod3,newdata=test[test$bikes.avail.count!=0,],type = "response")
plot(test$bikes.avail.count[test$bikes.avail.count!=0],type = "b",col="red")
lines(round(prednb),col="blue")
```
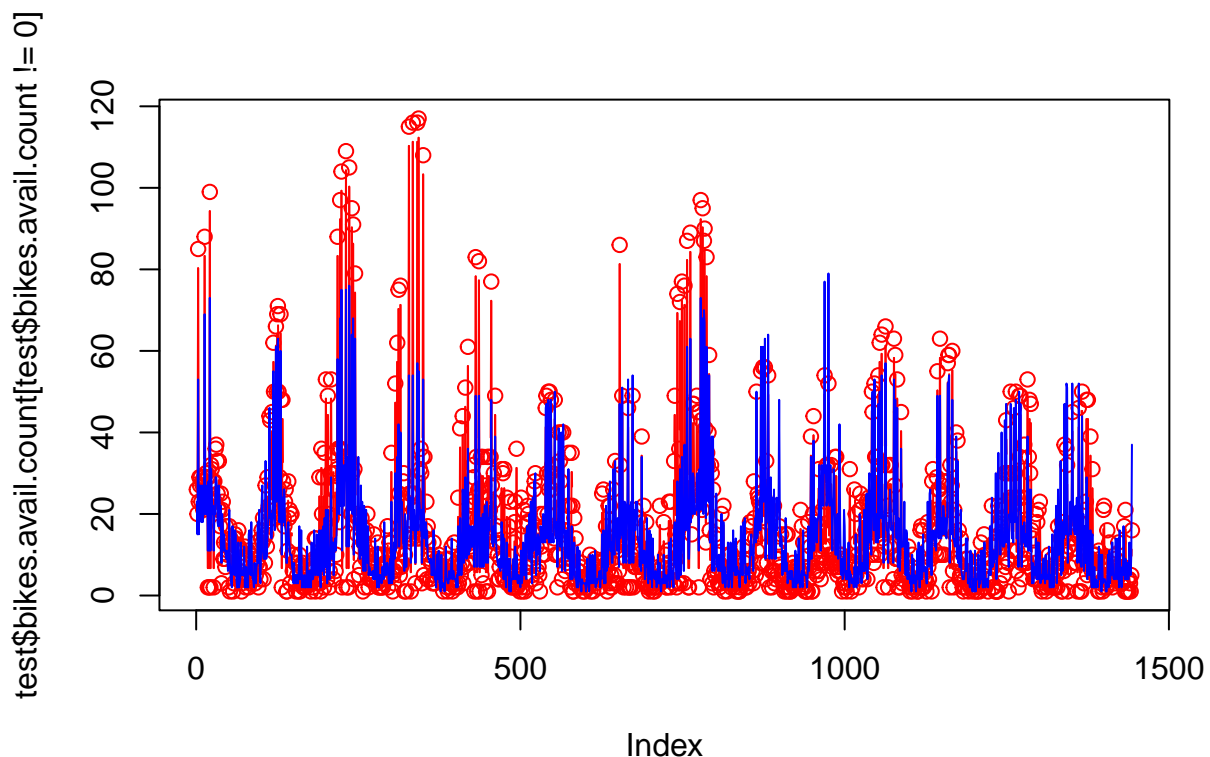


```
prednb <- predict.glm(mod3,newdata=test,type = "response")
rmsemodelnb <- ModelMetrics::rmse(test$bikes.avail.count,round(prednb))
maemodelnb <- mae(test$bikes.avail.count,round(prednb))
rmsemodelnb
```

```
## [1] 9.360348
```

```
maemodelnb
```

```
## [1] 6.381345
```

```
library(pscl)
```

```
## Classes and Methods for R developed in the
## Political Science Computational Laboratory
## Department of Political Science
## Stanford University
## Simon Jackman
## hurdle and zeroinfl functions by Achim Zeileis
```

```
modelhp <- hurdle(bikes.avail.count ~ cluster + time + weekday, data=train, dist = "poisson")
summary(modelhp)
```

```
##
## Call:
## hurdle(formula = bikes.avail.count ~ cluster + time + weekday, data = train,
##     dist = "poisson")
##
## Pearson residuals:
##     Min      1Q  Median      3Q     Max
## -5.3085 -1.2915 -0.2897  1.0314 12.0648
##
## Count model coefficients (truncated poisson with log link):
##               Estimate Std. Error z value Pr(>|z|)
## (Intercept)   3.032319   0.026165 115.890  < 2e-16 ***
## cluster2     -0.165194   0.012647 -13.062  < 2e-16 ***
## cluster3      0.940973   0.009966  94.421  < 2e-16 ***
## cluster4     -0.038326   0.011954  -3.206 0.001345 **
## cluster5     -0.338756   0.013234 -25.597  < 2e-16 ***
## cluster6     -1.275058   0.019381 -65.789  < 2e-16 ***
## time00:15:00 -0.031297   0.036479  -0.858 0.390916
## time00:30:00  0.064292   0.035453   1.813 0.069765 .
## time00:45:00  0.064900   0.035115   1.848 0.064574 .
## time01:00:00  0.092765   0.034837   2.663 0.007750 **
## time01:15:00  0.125699   0.035976   3.494 0.000476 ***
## time01:30:00  0.172007   0.035947   4.785 1.71e-06 ***
## time01:45:00  0.194685   0.033809   5.758 8.50e-09 ***
## time02:00:00  0.188835   0.033750   5.595 2.21e-08 ***
## time02:15:00  0.159075   0.034317   4.635 3.56e-06 ***
## time02:30:00  0.181518   0.034647   5.239 1.61e-07 ***
## time02:45:00  0.200381   0.033840   5.921 3.19e-09 ***
## time03:00:00  0.202073   0.033751   5.987 2.14e-09 ***
## time03:15:00  0.214092   0.035552   6.022 1.72e-09 ***
## time03:30:00  0.191785   0.034051   5.632 1.78e-08 ***
## time03:45:00  0.232657   0.034083   6.826 8.72e-12 ***
## time04:00:00  0.176805   0.033912   5.214 1.85e-07 ***
## time04:15:00  0.210765   0.033569   6.279 3.42e-10 ***
```

```
## time04:30:00  0.251413   0.032944    7.632 2.32e-14 ***
## time04:45:00  0.229342   0.035205    6.514 7.30e-11 ***
## time05:00:00  0.206510   0.033414    6.180 6.40e-10 ***
## time05:15:00  0.180036   0.034346    5.242 1.59e-07 ***
## time05:30:00  0.223832   0.033846    6.613 3.76e-11 ***
## time05:45:00  0.160781   0.036127    4.450 8.57e-06 ***
## time06:00:00  0.188369   0.033103    5.690 1.27e-08 ***
## time06:15:00  0.134611   0.035120    3.833 0.000127 ***
## time06:30:00  0.134365   0.034186    3.930 8.48e-05 ***
## time06:45:00  0.083030   0.035665    2.328 0.019910 *
## time07:00:00  0.028459   0.035507    0.801 0.422852
## time07:15:00  0.028000   0.035754    0.783 0.433542
## time07:30:00 -0.051208   0.036544   -1.401 0.161132
## time07:45:00 -0.088061   0.038111   -2.311 0.020851 *
## time08:00:00 -0.265787   0.039519   -6.726 1.75e-11 ***
## time08:15:00 -0.407456   0.039650  -10.276  < 2e-16 ***
## time08:30:00 -0.459534   0.041237  -11.144  < 2e-16 ***
## time08:45:00 -0.527014   0.041704  -12.637  < 2e-16 ***
## time09:00:00 -0.655310   0.041982  -15.609  < 2e-16 ***
## time09:15:00 -0.751981   0.044487  -16.904  < 2e-16 ***
## time09:30:00 -0.782964   0.045744  -17.116  < 2e-16 ***
## time09:45:00 -1.014074   0.052848  -19.188  < 2e-16 ***
## time10:00:00 -1.126011   0.054601  -20.623  < 2e-16 ***
## time10:15:00 -1.063669   0.052533  -20.248  < 2e-16 ***
## time10:30:00 -1.136106   0.059931  -18.957  < 2e-16 ***
## time10:45:00 -1.098020   0.054716  -20.068  < 2e-16 ***
## time11:00:00 -1.221261   0.059661  -20.470  < 2e-16 ***
## time11:15:00 -1.203649   0.057867  -20.800  < 2e-16 ***
## time11:30:00 -1.365044   0.061459  -22.211  < 2e-16 ***
## time11:45:00 -1.406999   0.061567  -22.853  < 2e-16 ***
## time12:00:00 -1.358345   0.064343  -21.111  < 2e-16 ***
## time12:15:00 -1.450244   0.062524  -23.195  < 2e-16 ***
## time12:30:00 -1.523665   0.062702  -24.300  < 2e-16 ***
## time12:45:00 -1.581124   0.065238  -24.236  < 2e-16 ***
## time13:00:00 -1.682250   0.068771  -24.462  < 2e-16 ***
## time13:15:00 -1.728023   0.076029  -22.729  < 2e-16 ***
## time13:30:00 -1.589497   0.067065  -23.701  < 2e-16 ***
## time13:45:00 -1.669551   0.068207  -24.478  < 2e-16 ***
## time14:00:00 -1.578777   0.066050  -23.903  < 2e-16 ***
## time14:15:00 -1.367368   0.060173  -22.724  < 2e-16 ***
## time14:30:00 -1.648727   0.069970  -23.563  < 2e-16 ***
## time14:45:00 -1.529494   0.066780  -22.904  < 2e-16 ***
## time15:00:00 -1.611311   0.064723  -24.895  < 2e-16 ***
## time15:15:00 -1.540865   0.067750  -22.743  < 2e-16 ***
## time15:30:00 -1.404501   0.062133  -22.605  < 2e-16 ***
## time15:45:00 -1.399690   0.059361  -23.579  < 2e-16 ***
## time16:00:00 -1.466512   0.064176  -22.852  < 2e-16 ***
## time16:15:00 -1.473808   0.065508  -22.498  < 2e-16 ***
## time16:30:00 -1.482028   0.065061  -22.779  < 2e-16 ***
## time16:45:00 -1.385525   0.059528  -23.275  < 2e-16 ***
## time17:00:00 -1.292935   0.058441  -22.124  < 2e-16 ***
## time17:15:00 -1.151353   0.057822  -19.912  < 2e-16 ***
## time17:30:00 -1.324823   0.057633  -22.987  < 2e-16 ***
## time17:45:00 -1.228444   0.055275  -22.224  < 2e-16 ***
```

```
## time18:00:00 -1.251576   0.056518 -22.145  < 2e-16 ***
## time18:15:00 -1.189355   0.053238 -22.340  < 2e-16 ***
## time18:30:00 -1.214026   0.053666 -22.622  < 2e-16 ***
## time18:45:00 -1.230546   0.053112 -23.169  < 2e-16 ***
## time19:00:00 -1.133799   0.056902 -19.925  < 2e-16 ***
## time19:15:00 -1.147835   0.053299 -21.536  < 2e-16 ***
## time19:30:00 -1.098887   0.053977 -20.358  < 2e-16 ***
## time19:45:00 -1.033546   0.052754 -19.592  < 2e-16 ***
## time20:00:00 -0.995699   0.051006 -19.521  < 2e-16 ***
## time20:15:00 -0.876679   0.048935 -17.915  < 2e-16 ***
## time20:30:00 -0.906589   0.051645 -17.554  < 2e-16 ***
## time20:45:00 -0.798821   0.048308 -16.536  < 2e-16 ***
## time21:00:00 -0.661282   0.045330 -14.588  < 2e-16 ***
## time21:15:00 -0.630407   0.042636 -14.786  < 2e-16 ***
## time21:30:00 -0.564331   0.042334 -13.330  < 2e-16 ***
## time21:45:00 -0.487529   0.045010 -10.832  < 2e-16 ***
## time22:00:00 -0.471303   0.040377 -11.673  < 2e-16 ***
## time22:15:00 -0.411399   0.040556 -10.144  < 2e-16 ***
## time22:30:00 -0.469112   0.042068 -11.151  < 2e-16 ***
## time22:45:00 -0.317011   0.041046  -7.723 1.13e-14 ***
## time23:00:00 -0.256608   0.037959  -6.760 1.38e-11 ***
## time23:15:00 -0.241820   0.039701  -6.091 1.12e-09 ***
## time23:30:00 -0.134143   0.037378  -3.589 0.000332 ***
## time23:45:00 -0.142454   0.037227  -3.827 0.000130 ***
## weekday.L    -0.099087   0.009661 -10.256  < 2e-16 ***
## weekday.Q    -0.348296   0.009493 -36.690  < 2e-16 ***
## weekday.C     0.112187   0.009181  12.219  < 2e-16 ***
## weekday^4    -0.098859   0.008700 -11.363  < 2e-16 ***
## weekday^5     0.088399   0.008688  10.175  < 2e-16 ***
## weekday^6    -0.112348   0.008399 -13.376  < 2e-16 ***
## Zero hurdle model coefficients (binomial with logit link):
##               Estimate Std. Error z value Pr(>|z|)
## (Intercept)  4.103e+00  7.399e-01   5.545 2.94e-08 ***
## cluster2    -1.457e+00  1.765e-01  -8.254  < 2e-16 ***
## cluster3     1.196e+00  3.101e-01   3.857 0.000115 ***
## cluster4     3.590e-01  2.324e-01   1.545 0.122334
## cluster5    -6.270e-01  1.926e-01  -3.256 0.001130 **
## cluster6    -1.262e+00  1.790e-01  -7.053 1.76e-12 ***
## time00:15:00 -3.650e-01  9.416e-01  -0.388 0.698267
## time00:30:00  8.000e-02  1.026e+00   0.078 0.937874
## time00:45:00  1.609e-01  1.026e+00   0.157 0.875381
## time01:00:00 -4.779e-01  9.419e-01  -0.507 0.611865
## time01:15:00 -6.635e-01  8.968e-01  -0.740 0.459388
## time01:30:00  7.979e-01  1.247e+00   0.640 0.522157
## time01:45:00 -2.810e-01  9.413e-01  -0.299 0.765301
## time02:00:00  1.465e-01  1.025e+00   0.143 0.886332
## time02:15:00  1.549e-02  1.025e+00   0.015 0.987944
## time02:30:00 -5.894e-01  8.962e-01  -0.658 0.510722
## time02:45:00 -6.490e-01  8.966e-01  -0.724 0.469111
## time03:00:00  1.439e-01  1.026e+00   0.140 0.888481
## time03:15:00  6.390e-01  1.247e+00   0.512 0.608324
## time03:30:00 -3.828e-01  9.412e-01  -0.407 0.684182
## time03:45:00  2.637e-02  1.026e+00   0.026 0.979496
## time04:00:00 -3.286e-01  9.403e-01  -0.349 0.726763
```

```
## time04:15:00 -2.803e-01  9.405e-01  -0.298 0.765709
## time04:30:00 -3.585e-01  9.414e-01  -0.381 0.703342
## time04:45:00  1.010e-01  1.027e+00   0.098 0.921657
## time05:00:00  8.845e-01  1.245e+00   0.710 0.477513
## time05:15:00  8.609e-01  1.245e+00   0.691 0.489391
## time05:30:00  1.506e+01  1.250e+03   0.012 0.990392
## time05:45:00  1.504e+01  1.402e+03   0.011 0.991443
## time06:00:00  9.248e-01  1.245e+00   0.743 0.457547
## time06:15:00  1.512e+01  1.242e+03   0.012 0.990288
## time06:30:00  1.508e+01  1.215e+03   0.012 0.990092
## time06:45:00  1.495e+01  1.288e+03   0.012 0.990740
## time07:00:00  1.500e+01  1.248e+03   0.012 0.990415
## time07:15:00  1.509e+01  1.261e+03   0.012 0.990450
## time07:30:00  8.383e-01  1.246e+00   0.673 0.501074
## time07:45:00 -3.327e-03  1.027e+00  -0.003 0.997416
## time08:00:00  7.147e-01  1.247e+00   0.573 0.566448
## time08:15:00  2.326e-02  1.026e+00   0.023 0.981910
## time08:30:00  1.451e-01  1.026e+00   0.141 0.887508
## time08:45:00  8.121e-02  1.026e+00   0.079 0.936933
## time09:00:00  1.682e-01  1.025e+00   0.164 0.869636
## time09:15:00  1.282e-01  1.025e+00   0.125 0.900502
## time09:30:00 -8.222e-01  8.671e-01  -0.948 0.343050
## time09:45:00 -4.518e-02  1.027e+00  -0.044 0.964909
## time10:00:00 -1.237e+00  8.352e-01  -1.481 0.138622
## time10:15:00 -1.208e+00  8.501e-01  -1.421 0.155252
## time10:30:00 -1.390e+00  8.528e-01  -1.630 0.103096
## time10:45:00 -1.421e+00  8.238e-01  -1.725 0.084601 .
## time11:00:00 -1.689e+00  8.090e-01  -2.088 0.036800 *
## time11:15:00 -1.644e+00  8.161e-01  -2.015 0.043915 *
## time11:30:00 -1.857e+00  8.100e-01  -2.292 0.021901 *
## time11:45:00 -1.301e+00  8.352e-01  -1.557 0.119390
## time12:00:00 -1.608e+00  8.377e-01  -1.920 0.054880 .
## time12:15:00 -1.685e+00  8.086e-01  -2.084 0.037129 *
## time12:30:00 -1.418e+00  8.237e-01  -1.722 0.085138 .
## time12:45:00 -1.612e+00  8.168e-01  -1.974 0.048424 *
## time13:00:00 -1.536e+00  8.245e-01  -1.863 0.062496 .
## time13:15:00 -1.204e+00  8.342e-01  -1.443 0.149006
## time13:30:00 -1.301e+00  8.360e-01  -1.556 0.119690
## time13:45:00 -1.522e+00  8.241e-01  -1.847 0.064789 .
## time14:00:00 -1.714e+00  8.087e-01  -2.120 0.034016 *
## time14:15:00 -1.439e+00  8.351e-01  -1.723 0.084889 .
## time14:30:00 -2.072e+00  7.957e-01  -2.604 0.009228 **
## time14:45:00 -1.860e+00  8.053e-01  -2.309 0.020921 *
## time15:00:00 -1.685e+00  8.088e-01  -2.083 0.037224 *
## time15:15:00 -1.310e+00  8.351e-01  -1.569 0.116762
## time15:30:00 -1.211e+00  8.341e-01  -1.452 0.146580
## time15:45:00 -3.901e-01  9.427e-01  -0.414 0.679046
## time16:00:00 -1.629e+00  8.165e-01  -1.995 0.046009 *
## time16:15:00 -2.037e+00  8.007e-01  -2.544 0.010947 *
## time16:30:00 -1.355e+00  8.367e-01  -1.619 0.105401
## time16:45:00 -1.526e+00  8.146e-01  -1.874 0.060936 .
## time17:00:00 -1.301e+00  8.359e-01  -1.557 0.119553
## time17:15:00 -1.798e+00  8.093e-01  -2.222 0.026298 *
## time17:30:00 -1.837e+00  8.037e-01  -2.285 0.022284 *
```

```
## time17:45:00 -1.472e+00  8.233e-01  -1.788 0.073795 .
## time18:00:00 -1.406e+00  8.227e-01  -1.709 0.087470 .
## time18:15:00 -1.103e+00  8.482e-01  -1.301 0.193368
## time18:30:00 -7.505e-01  8.977e-01  -0.836 0.403175
## time18:45:00 -1.065e+00  8.480e-01  -1.255 0.209320
## time19:00:00 -1.992e+00  8.126e-01  -2.452 0.014223 *
## time19:15:00 -1.464e+00  8.237e-01  -1.777 0.075511 .
## time19:30:00 -1.215e+00  8.508e-01  -1.428 0.153252
## time19:45:00 -1.311e+00  8.352e-01  -1.569 0.116538
## time20:00:00 -9.519e-01  8.684e-01  -1.096 0.272972
## time20:15:00 -1.266e+00  8.346e-01  -1.517 0.129308
## time20:30:00 -7.831e-01  8.966e-01  -0.873 0.382481
## time20:45:00 -1.608e+00  8.078e-01  -1.990 0.046572 *
## time21:00:00 -1.554e+00  8.150e-01  -1.907 0.056484 .
## time21:15:00 -1.000e+00  8.474e-01  -1.181 0.237748
## time21:30:00 -8.520e-01  8.675e-01  -0.982 0.326033
## time21:45:00 -9.380e-01  8.688e-01  -1.080 0.280300
## time22:00:00 -6.949e-01  8.962e-01  -0.775 0.438159
## time22:15:00 -6.162e-01  8.955e-01  -0.688 0.491362
## time22:30:00 -3.511e-01  9.419e-01  -0.373 0.709351
## time22:45:00 -8.198e-01  8.981e-01  -0.913 0.361334
## time23:00:00 -1.131e+00  8.480e-01  -1.334 0.182219
## time23:15:00  1.255e-01  1.026e+00   0.122 0.902669
## time23:30:00  7.004e-02  1.026e+00   0.068 0.945568
## time23:45:00  2.134e-01  1.025e+00   0.208 0.834999
## weekday.L    -3.597e-01  1.309e-01  -2.748 0.006005 **
## weekday.Q    -3.566e-01  1.331e-01  -2.679 0.007391 **
## weekday.C    -3.785e-01  1.340e-01  -2.825 0.004730 **
## weekday^4    -3.751e-02  1.389e-01  -0.270 0.787090
## weekday^5     4.413e-01  1.368e-01   3.225 0.001258 **
## weekday^6    -2.440e-01  1.411e-01  -1.729 0.083847 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Number of iterations in BFGS optimization: 89
## Log-likelihood: -2.598e+04 on 214 Df
```

```r
predhp <- predict(modelhp, newdata=test[test$bikes.avail.count!=0,],type = "response")
plot(test$bikes.avail.count[test$bikes.avail.count!=0],type = "b",col="red")
lines(round(predhp),col="blue")
```
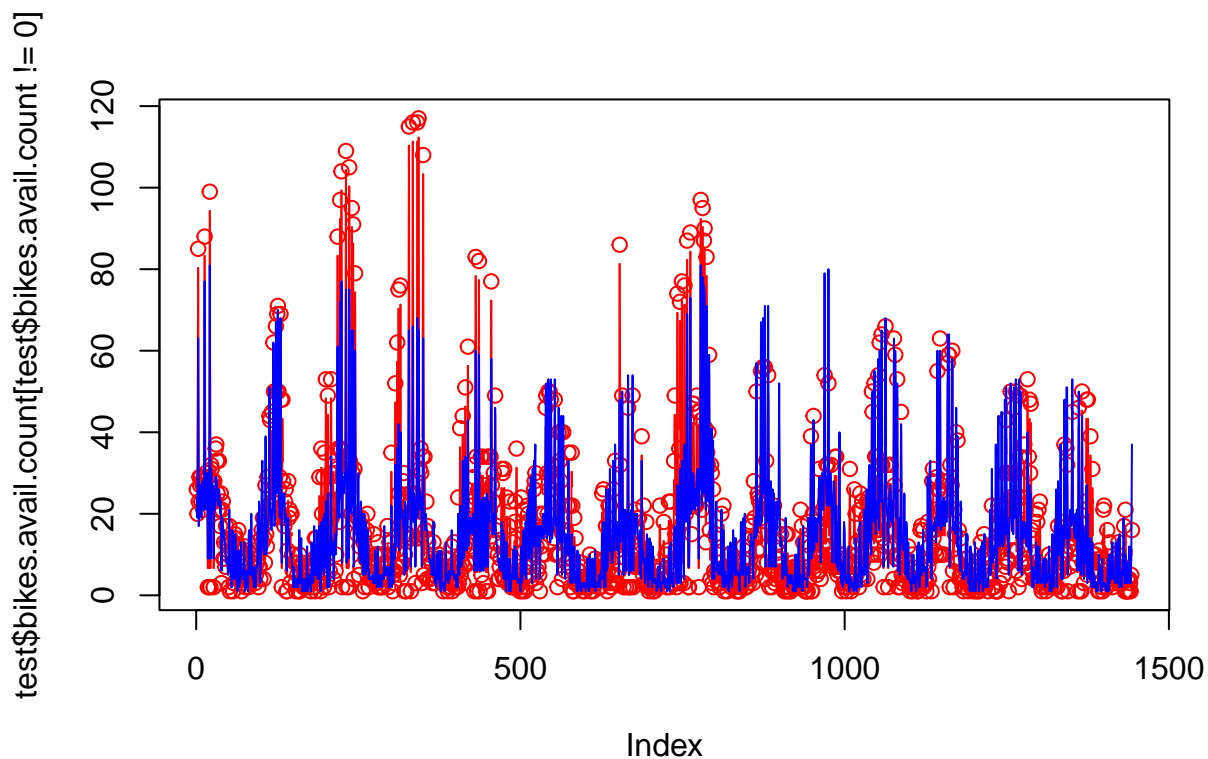
```
predhp <- predict(modelhp, newdata=test, type = "response")
rmsemodelhp<-ModelMetrics::rmse(test$bikes.avail.count,round(predhp))
maemodelhp<-mae(test$bikes.avail.count,round(predhp))
rmsemodelhp
```

```
## [1] 8.733759
```

```
maemodelhp
```

```
## [1] 5.965102
```

```
modelhnb <- hurdle(bikes.avail.count ~ cluster + time + weekday, data=train, dist = "negbin")
summary(modelhnb)
```

```
##
## Call:
## hurdle(formula = bikes.avail.count ~ cluster + time + weekday, data = train,
##     dist = "negbin")
##
## Pearson residuals:
##     Min      1Q  Median      3Q     Max
## -1.5700 -0.7792 -0.1689  0.5510  7.2111
##
## Count model coefficients (truncated negbin with log link):
```

```
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)   3.0174993  0.0804254  37.519  < 2e-16 ***
## cluster2     -0.3047108  0.0311197  -9.792  < 2e-16 ***
## cluster3      0.8330154  0.0286641  29.061  < 2e-16 ***
## cluster4     -0.1276793  0.0295442  -4.322 1.55e-05 ***
## cluster5     -0.3879340  0.0308451 -12.577  < 2e-16 ***
## cluster6     -1.0720501  0.0353344 -30.340  < 2e-16 ***
## time00:15:00 -0.0428373  0.1116628  -0.384 0.701252
## time00:30:00  0.0454833  0.1112047   0.409 0.682536
## time00:45:00  0.0758959  0.1103040   0.688 0.491414
## time01:00:00  0.1221074  0.1107341   1.103 0.270154
## time01:15:00  0.1378947  0.1129609   1.221 0.222189
## time01:30:00  0.1735002  0.1129833   1.536 0.124630
## time01:45:00  0.2132685  0.1089771   1.957 0.050347 .
## time02:00:00  0.1997754  0.1079231   1.851 0.064157 .
## time02:15:00  0.1799692  0.1094890   1.644 0.100234
## time02:30:00  0.2152050  0.1106563   1.945 0.051798 .
## time02:45:00  0.2142472  0.1103979   1.941 0.052297 .
## time03:00:00  0.2110402  0.1089695   1.937 0.052783 .
## time03:15:00  0.2195392  0.1140629   1.925 0.054264 .
## time03:30:00  0.2026845  0.1101899   1.839 0.065855 .
## time03:45:00  0.2379523  0.1101206   2.161 0.030708 *
## time04:00:00  0.2147585  0.1082176   1.985 0.047199 *
## time04:15:00  0.2133109  0.1088792   1.959 0.050095 .
## time04:30:00  0.3050520  0.1085299   2.811 0.004942 **
## time04:45:00  0.2456450  0.1116079   2.201 0.027739 *
## time05:00:00  0.2181216  0.1075462   2.028 0.042543 *
## time05:15:00  0.1703844  0.1092604   1.559 0.118894
## time05:30:00  0.2516759  0.1096724   2.295 0.021745 *
## time05:45:00  0.1881834  0.1163259   1.618 0.105722
## time06:00:00  0.2051248  0.1062425   1.931 0.053517 .
## time06:15:00  0.1369908  0.1095460   1.251 0.211105
## time06:30:00  0.1347056  0.1086527   1.240 0.215056
## time06:45:00  0.0595408  0.1117258   0.533 0.594090
## time07:00:00  0.0271617  0.1100732   0.247 0.805094
## time07:15:00  0.0735691  0.1109933   0.663 0.507443
## time07:30:00 -0.0002171  0.1108561  -0.002 0.998437
## time07:45:00 -0.0485497  0.1145374  -0.424 0.671656
## time08:00:00 -0.2346776  0.1136346  -2.065 0.038905 *
## time08:15:00 -0.3750561  0.1124459  -3.335 0.000852 ***
## time08:30:00 -0.3857672  0.1123635  -3.433 0.000596 ***
## time08:45:00 -0.3793241  0.1135464  -3.341 0.000836 ***
## time09:00:00 -0.5029641  0.1116288  -4.506 6.62e-06 ***
## time09:15:00 -0.5975968  0.1138268  -5.250 1.52e-07 ***
## time09:30:00 -0.6405830  0.1157429  -5.535 3.12e-08 ***
## time09:45:00 -0.8388757  0.1224236  -6.852 7.27e-12 ***
## time10:00:00 -0.9411324  0.1246457  -7.550 4.34e-14 ***
## time10:15:00 -0.9095876  0.1233676  -7.373 1.67e-13 ***
## time10:30:00 -0.9613116  0.1312287  -7.325 2.38e-13 ***
## time10:45:00 -0.9604354  0.1230958  -7.802 6.08e-15 ***
## time11:00:00 -1.0066723  0.1282735  -7.848 4.23e-15 ***
## time11:15:00 -0.9897119  0.1269114  -7.798 6.27e-15 ***
## time11:30:00 -1.1738404  0.1307269  -8.979  < 2e-16 ***
## time11:45:00 -1.1874938  0.1282351  -9.260  < 2e-16 ***
```

```
## time12:00:00 -1.1122780  0.1344146  -8.275  < 2e-16 ***
## time12:15:00 -1.2294673  0.1288001  -9.546  < 2e-16 ***
## time12:30:00 -1.3162001  0.1287483 -10.223  < 2e-16 ***
## time12:45:00 -1.3774347  0.1323188 -10.410  < 2e-16 ***
## time13:00:00 -1.5145283  0.1328709 -11.398  < 2e-16 ***
## time13:15:00 -1.5343161  0.1375909 -11.151  < 2e-16 ***
## time13:30:00 -1.4587412  0.1330556 -10.963  < 2e-16 ***
## time13:45:00 -1.5742266  0.1326898 -11.864  < 2e-16 ***
## time14:00:00 -1.4337943  0.1315777 -10.897  < 2e-16 ***
## time14:15:00 -1.2495249  0.1277123  -9.784  < 2e-16 ***
## time14:30:00 -1.5787654  0.1353557 -11.664  < 2e-16 ***
## time14:45:00 -1.4088620  0.1348369 -10.449  < 2e-16 ***
## time15:00:00 -1.5210957  0.1292724 -11.767  < 2e-16 ***
## time15:15:00 -1.4157825  0.1338129 -10.580  < 2e-16 ***
## time15:30:00 -1.3088825  0.1282410 -10.206  < 2e-16 ***
## time15:45:00 -1.2760903  0.1258795 -10.137  < 2e-16 ***
## time16:00:00 -1.3378451  0.1313315 -10.187  < 2e-16 ***
## time16:15:00 -1.3137854  0.1333173  -9.855  < 2e-16 ***
## time16:30:00 -1.3321103  0.1325342 -10.051  < 2e-16 ***
## time16:45:00 -1.2403237  0.1250482  -9.919  < 2e-16 ***
## time17:00:00 -1.1855238  0.1268361  -9.347  < 2e-16 ***
## time17:15:00 -1.0625443  0.1274009  -8.340  < 2e-16 ***
## time17:30:00 -1.2409322  0.1265136  -9.809  < 2e-16 ***
## time17:45:00 -1.1051757  0.1224997  -9.022  < 2e-16 ***
## time18:00:00 -1.1507484  0.1232642  -9.336  < 2e-16 ***
## time18:15:00 -1.1125833  0.1208212  -9.209  < 2e-16 ***
## time18:30:00 -1.1248238  0.1220078  -9.219  < 2e-16 ***
## time18:45:00 -1.1353104  0.1201082  -9.452  < 2e-16 ***
## time19:00:00 -1.0275972  0.1303932  -7.881 3.25e-15 ***
## time19:15:00 -1.0714930  0.1220223  -8.781  < 2e-16 ***
## time19:30:00 -1.0467711  0.1239690  -8.444  < 2e-16 ***
## time19:45:00 -0.9516510  0.1219818  -7.802 6.11e-15 ***
## time20:00:00 -0.9427072  0.1209951  -7.791 6.63e-15 ***
## time20:15:00 -0.8495783  0.1192497  -7.124 1.05e-12 ***
## time20:30:00 -0.8663095  0.1219976  -7.101 1.24e-12 ***
## time20:45:00 -0.7909688  0.1190788  -6.642 3.09e-11 ***
## time21:00:00 -0.6428509  0.1169700  -5.496 3.89e-08 ***
## time21:15:00 -0.6211723  0.1138570  -5.456 4.88e-08 ***
## time21:30:00 -0.5449063  0.1137494  -4.790 1.66e-06 ***
## time21:45:00 -0.5031392  0.1187262  -4.238 2.26e-05 ***
## time22:00:00 -0.4420675  0.1130360  -3.911 9.20e-05 ***
## time22:15:00 -0.3652784  0.1127051  -3.241 0.001191 **
## time22:30:00 -0.4179336  0.1148726  -3.638 0.000275 ***
## time22:45:00 -0.2808685  0.1171273  -2.398 0.016486 *
## time23:00:00 -0.2110636  0.1118694  -1.887 0.059201 .
## time23:15:00 -0.2163419  0.1134501  -1.907 0.056529 .
## time23:30:00 -0.1313750  0.1117413  -1.176 0.239712
## time23:45:00 -0.1444534  0.1095277  -1.319 0.187211
## weekday.L    -0.1798574  0.0243823  -7.377 1.62e-13 ***
## weekday.Q    -0.2827574  0.0241809 -11.693  < 2e-16 ***
## weekday.C     0.1728147  0.0239214   7.224 5.04e-13 ***
## weekday^4     0.0316614  0.0235286   1.346 0.178413
## weekday^5     0.0500145  0.0235400   2.125 0.033615 *
## weekday^6    -0.1776784  0.0231876  -7.663 1.82e-14 ***
```

```
## Log(theta)      1.0660469  0.0286289   37.237   < 2e-16 ***
## Zero hurdle model coefficients (binomial with logit link):
##                 Estimate Std. Error z value Pr(>|z|)
## (Intercept)    4.103e+00  7.399e-01    5.545 2.94e-08 ***
## cluster2      -1.457e+00  1.765e-01   -8.254  < 2e-16 ***
## cluster3       1.196e+00  3.101e-01    3.857 0.000115 ***
## cluster4       3.590e-01  2.324e-01    1.545 0.122334
## cluster5      -6.270e-01  1.926e-01   -3.256 0.001130 **
## cluster6      -1.262e+00  1.790e-01   -7.053 1.76e-12 ***
## time00:15:00 -3.650e-01  9.416e-01   -0.388 0.698267
## time00:30:00  8.000e-02  1.026e+00    0.078 0.937874
## time00:45:00  1.609e-01  1.026e+00    0.157 0.875381
## time01:00:00 -4.779e-01  9.419e-01   -0.507 0.611865
## time01:15:00 -6.635e-01  8.968e-01   -0.740 0.459388
## time01:30:00  7.979e-01  1.247e+00    0.640 0.522157
## time01:45:00 -2.810e-01  9.413e-01   -0.299 0.765301
## time02:00:00  1.465e-01  1.025e+00    0.143 0.886332
## time02:15:00  1.549e-02  1.025e+00    0.015 0.987944
## time02:30:00 -5.894e-01  8.962e-01   -0.658 0.510722
## time02:45:00 -6.490e-01  8.966e-01   -0.724 0.469111
## time03:00:00  1.439e-01  1.026e+00    0.140 0.888481
## time03:15:00  6.390e-01  1.247e+00    0.512 0.608324
## time03:30:00 -3.828e-01  9.412e-01   -0.407 0.684182
## time03:45:00  2.637e-02  1.026e+00    0.026 0.979496
## time04:00:00 -3.286e-01  9.403e-01   -0.349 0.726763
## time04:15:00 -2.803e-01  9.405e-01   -0.298 0.765709
## time04:30:00 -3.585e-01  9.414e-01   -0.381 0.703342
## time04:45:00  1.010e-01  1.027e+00    0.098 0.921657
## time05:00:00  8.845e-01  1.245e+00    0.710 0.477513
## time05:15:00  8.609e-01  1.245e+00    0.691 0.489391
## time05:30:00  1.506e+01  1.250e+03    0.012 0.990392
## time05:45:00  1.504e+01  1.402e+03    0.011 0.991443
## time06:00:00  9.248e-01  1.245e+00    0.743 0.457547
## time06:15:00  1.512e+01  1.242e+03    0.012 0.990288
## time06:30:00  1.508e+01  1.215e+03    0.012 0.990092
## time06:45:00  1.495e+01  1.288e+03    0.012 0.990740
## time07:00:00  1.500e+01  1.248e+03    0.012 0.990415
## time07:15:00  1.509e+01  1.261e+03    0.012 0.990450
## time07:30:00  8.383e-01  1.246e+00    0.673 0.501074
## time07:45:00 -3.327e-03  1.027e+00   -0.003 0.997416
## time08:00:00  7.147e-01  1.247e+00    0.573 0.566448
## time08:15:00  2.326e-02  1.026e+00    0.023 0.981910
## time08:30:00  1.451e-01  1.026e+00    0.141 0.887508
## time08:45:00  8.121e-02  1.026e+00    0.079 0.936933
## time09:00:00  1.682e-01  1.025e+00    0.164 0.869636
## time09:15:00  1.282e-01  1.025e+00    0.125 0.900502
## time09:30:00 -8.222e-01  8.671e-01   -0.948 0.343050
## time09:45:00 -4.518e-02  1.027e+00   -0.044 0.964909
## time10:00:00 -1.237e+00  8.352e-01   -1.481 0.138622
## time10:15:00 -1.208e+00  8.501e-01   -1.421 0.155252
## time10:30:00 -1.390e+00  8.528e-01   -1.630 0.103096
## time10:45:00 -1.421e+00  8.238e-01   -1.725 0.084601 .
## time11:00:00 -1.689e+00  8.090e-01   -2.088 0.036800 *
## time11:15:00 -1.644e+00  8.161e-01   -2.015 0.043915 *
```

```
## time11:30:00 -1.857e+00  8.100e-01  -2.292 0.021901 *
## time11:45:00 -1.301e+00  8.352e-01  -1.557 0.119390
## time12:00:00 -1.608e+00  8.377e-01  -1.920 0.054880 .
## time12:15:00 -1.685e+00  8.086e-01  -2.084 0.037129 *
## time12:30:00 -1.418e+00  8.237e-01  -1.722 0.085138 .
## time12:45:00 -1.612e+00  8.168e-01  -1.974 0.048424 *
## time13:00:00 -1.536e+00  8.245e-01  -1.863 0.062496 .
## time13:15:00 -1.204e+00  8.342e-01  -1.443 0.149006
## time13:30:00 -1.301e+00  8.360e-01  -1.556 0.119690
## time13:45:00 -1.522e+00  8.241e-01  -1.847 0.064789 .
## time14:00:00 -1.714e+00  8.087e-01  -2.120 0.034016 *
## time14:15:00 -1.439e+00  8.351e-01  -1.723 0.084889 .
## time14:30:00 -2.072e+00  7.957e-01  -2.604 0.009228 **
## time14:45:00 -1.860e+00  8.053e-01  -2.309 0.020921 *
## time15:00:00 -1.685e+00  8.088e-01  -2.083 0.037224 *
## time15:15:00 -1.310e+00  8.351e-01  -1.569 0.116762
## time15:30:00 -1.211e+00  8.341e-01  -1.452 0.146580
## time15:45:00 -3.901e-01  9.427e-01  -0.414 0.679046
## time16:00:00 -1.629e+00  8.165e-01  -1.995 0.046009 *
## time16:15:00 -2.037e+00  8.007e-01  -2.544 0.010947 *
## time16:30:00 -1.355e+00  8.367e-01  -1.619 0.105401
## time16:45:00 -1.526e+00  8.146e-01  -1.874 0.060936 .
## time17:00:00 -1.301e+00  8.359e-01  -1.557 0.119553
## time17:15:00 -1.798e+00  8.093e-01  -2.222 0.026298 *
## time17:30:00 -1.837e+00  8.037e-01  -2.285 0.022284 *
## time17:45:00 -1.472e+00  8.233e-01  -1.788 0.073795 .
## time18:00:00 -1.406e+00  8.227e-01  -1.709 0.087470 .
## time18:15:00 -1.103e+00  8.482e-01  -1.301 0.193368
## time18:30:00 -7.505e-01  8.977e-01  -0.836 0.403175
## time18:45:00 -1.065e+00  8.480e-01  -1.255 0.209320
## time19:00:00 -1.992e+00  8.126e-01  -2.452 0.014223 *
## time19:15:00 -1.464e+00  8.237e-01  -1.777 0.075511 .
## time19:30:00 -1.215e+00  8.508e-01  -1.428 0.153252
## time19:45:00 -1.311e+00  8.352e-01  -1.569 0.116538
## time20:00:00 -9.519e-01  8.684e-01  -1.096 0.272972
## time20:15:00 -1.266e+00  8.346e-01  -1.517 0.129308
## time20:30:00 -7.831e-01  8.966e-01  -0.873 0.382481
## time20:45:00 -1.608e+00  8.078e-01  -1.990 0.046572 *
## time21:00:00 -1.554e+00  8.150e-01  -1.907 0.056484 .
## time21:15:00 -1.000e+00  8.474e-01  -1.181 0.237748
## time21:30:00 -8.520e-01  8.675e-01  -0.982 0.326033
## time21:45:00 -9.380e-01  8.688e-01  -1.080 0.280300
## time22:00:00 -6.949e-01  8.962e-01  -0.775 0.438159
## time22:15:00 -6.162e-01  8.955e-01  -0.688 0.491362
## time22:30:00 -3.511e-01  9.419e-01  -0.373 0.709351
## time22:45:00 -8.198e-01  8.981e-01  -0.913 0.361334
## time23:00:00 -1.131e+00  8.480e-01  -1.334 0.182219
## time23:15:00  1.255e-01  1.026e+00   0.122 0.902669
## time23:30:00  7.004e-02  1.026e+00   0.068 0.945568
## time23:45:00  2.134e-01  1.025e+00   0.208 0.834999
## weekday.L    -3.597e-01  1.309e-01  -2.748 0.006005 **
## weekday.Q    -3.566e-01  1.331e-01  -2.679 0.007391 **
## weekday.C    -3.785e-01  1.340e-01  -2.825 0.004730 **
## weekday^4    -3.751e-02  1.389e-01  -0.270 0.787090
```

```
## weekday^5       4.413e-01  1.368e-01   3.225 0.001258 **
## weekday^6      -2.440e-01  1.411e-01  -1.729 0.083847 .
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Theta: count = 2.9039
## Number of iterations in BFGS optimization: 57
## Log-likelihood: -2.054e+04 on 215 Df
```

```
predhnb <- predict(modelhnb, newdata=test[test$bikes.avail.count!=0,],type = "response")
plot(test$bikes.avail.count[test$bikes.avail.count!=0],type = "b",col="red")
lines(round(predhnb),col="blue")
```
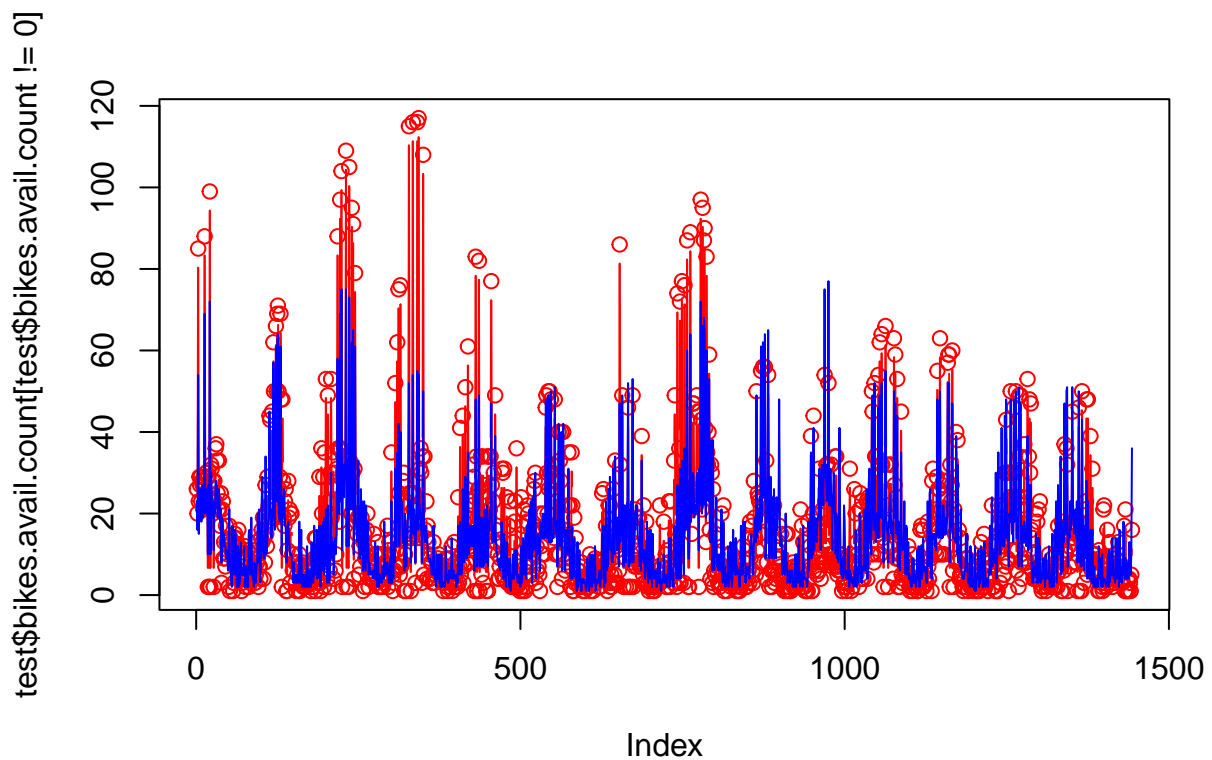


```
predhnb<- predict(modelhnb, newdata=test,type = "response")
rmsemodelhnb<-ModelMetrics::rmse(test$bikes.avail.count,round(predhnb))
maemodelhnb<-mae(test$bikes.avail.count,round(predhnb))
rmsemodelhnb
```

```
## [1] 9.389823
```

```
maemodelhnb
```

```
## [1] 6.35533
```

```
modelzp <- zeroinfl(bikes.avail.count ~ cluster + time + weekday, data=train, dist = "poisson")
summary(modelzp)
```

```
##
## Call:
## zeroinfl(formula = bikes.avail.count ~ cluster + time + weekday, data = train,
##     dist = "poisson")
##
## Pearson residuals:
##     Min      1Q  Median      3Q     Max
## -5.3904 -1.3039 -0.2913  1.0276 11.9897
##
## Count model coefficients (poisson with log link):
##               Estimate Std. Error z value Pr(>|z|)
## (Intercept)   3.030981   0.026172 115.811  < 2e-16 ***
## cluster2     -0.165605   0.012666 -13.075  < 2e-16 ***
## cluster3      0.941204   0.009968  94.424  < 2e-16 ***
## cluster4     -0.039038   0.011960  -3.264 0.001098 **
## cluster5     -0.338526   0.013237 -25.573  < 2e-16 ***
## cluster6     -1.234850   0.018834 -65.563  < 2e-16 ***
## time00:15:00 -0.031515   0.036488  -0.864 0.387755
## time00:30:00  0.064112   0.035464   1.808 0.070639 .
## time00:45:00  0.064663   0.035127   1.841 0.065649 .
## time01:00:00  0.093244   0.034847   2.676 0.007454 **
## time01:15:00  0.125499   0.035986   3.487 0.000488 ***
## time01:30:00  0.171229   0.035964   4.761 1.93e-06 ***
## time01:45:00  0.194546   0.033817   5.753 8.77e-09 ***
## time02:00:00  0.189097   0.033755   5.602 2.12e-08 ***
## time02:15:00  0.159081   0.034326   4.634 3.58e-06 ***
## time02:30:00  0.181466   0.034657   5.236 1.64e-07 ***
## time02:45:00  0.200658   0.033850   5.928 3.07e-09 ***
## time03:00:00  0.201878   0.033764   5.979 2.24e-09 ***
## time03:15:00  0.213730   0.035565   6.010 1.86e-09 ***
## time03:30:00  0.191675   0.034061   5.627 1.83e-08 ***
## time03:45:00  0.232465   0.034092   6.819 9.18e-12 ***
## time04:00:00  0.176710   0.033923   5.209 1.90e-07 ***
## time04:15:00  0.210521   0.033579   6.269 3.62e-10 ***
## time04:30:00  0.251926   0.032952   7.645 2.09e-14 ***
## time04:45:00  0.228824   0.035219   6.497 8.19e-11 ***
## time05:00:00  0.206114   0.033426   6.166 6.99e-10 ***
## time05:15:00  0.179182   0.034359   5.215 1.84e-07 ***
## time05:30:00  0.224068   0.033849   6.620 3.60e-11 ***
## time05:45:00  0.160767   0.036129   4.450 8.59e-06 ***
## time06:00:00  0.188122   0.033108   5.682 1.33e-08 ***
## time06:15:00  0.134083   0.035120   3.818 0.000135 ***
## time06:30:00  0.133946   0.034187   3.918 8.93e-05 ***
## time06:45:00  0.082781   0.035664   2.321 0.020280 *
## time07:00:00  0.028471   0.035505   0.802 0.422613
## time07:15:00  0.027873   0.035751   0.780 0.435614
## time07:30:00 -0.051738   0.036577  -1.414 0.157218
## time07:45:00 -0.088533   0.038134  -2.322 0.020255 *
## time08:00:00 -0.267679   0.039579  -6.763 1.35e-11 ***
## time08:15:00 -0.409793   0.039734 -10.313  < 2e-16 ***
```

```
## time08:30:00 -0.458618   0.041180 -11.137  < 2e-16 ***
## time08:45:00 -0.525836   0.041651 -12.625  < 2e-16 ***
## time09:00:00 -0.653579   0.041901 -15.598  < 2e-16 ***
## time09:15:00 -0.749146   0.044345 -16.894  < 2e-16 ***
## time09:30:00 -0.779694   0.045559 -17.114  < 2e-16 ***
## time09:45:00 -1.006604   0.052402 -19.209  < 2e-16 ***
## time10:00:00 -1.118203   0.054243 -20.615  < 2e-16 ***
## time10:15:00 -1.060115   0.052459 -20.208  < 2e-16 ***
## time10:30:00 -1.129386   0.059615 -18.945  < 2e-16 ***
## time10:45:00 -1.089984   0.054256 -20.090  < 2e-16 ***
## time11:00:00 -1.212909   0.059426 -20.410  < 2e-16 ***
## time11:15:00 -1.193810   0.057419 -20.791  < 2e-16 ***
## time11:30:00 -1.354553   0.061065 -22.182  < 2e-16 ***
## time11:45:00 -1.396584   0.061077 -22.866  < 2e-16 ***
## time12:00:00 -1.341885   0.063414 -21.161  < 2e-16 ***
## time12:15:00 -1.439092   0.062135 -23.161  < 2e-16 ***
## time12:30:00 -1.503946   0.061760 -24.351  < 2e-16 ***
## time12:45:00 -1.569804   0.064547 -24.320  < 2e-16 ***
## time13:00:00 -1.684786   0.068322 -24.660  < 2e-16 ***
## time13:15:00 -1.697083   0.074357 -22.824  < 2e-16 ***
## time13:30:00 -1.573795   0.066193 -23.776  < 2e-16 ***
## time13:45:00 -1.654409   0.067428 -24.536  < 2e-16 ***
## time14:00:00 -1.563915   0.065276 -23.959  < 2e-16 ***
## time14:15:00 -1.353860   0.059491 -22.757  < 2e-16 ***
## time14:30:00 -1.634390   0.068928 -23.712  < 2e-16 ***
## time14:45:00 -1.517206   0.066175 -22.927  < 2e-16 ***
## time15:00:00 -1.601686   0.064244 -24.931  < 2e-16 ***
## time15:15:00 -1.519233   0.066274 -22.924  < 2e-16 ***
## time15:30:00 -1.385615   0.061146 -22.661  < 2e-16 ***
## time15:45:00 -1.386093   0.058626 -23.643  < 2e-16 ***
## time16:00:00 -1.455450   0.063690 -22.852  < 2e-16 ***
## time16:15:00 -1.458628   0.064860 -22.489  < 2e-16 ***
## time16:30:00 -1.462776   0.064018 -22.850  < 2e-16 ***
## time16:45:00 -1.374412   0.058985 -23.301  < 2e-16 ***
## time17:00:00 -1.289932   0.058166 -22.177  < 2e-16 ***
## time17:15:00 -1.148682   0.057665 -19.920  < 2e-16 ***
## time17:30:00 -1.323597   0.057529 -23.008  < 2e-16 ***
## time17:45:00 -1.225014   0.055142 -22.216  < 2e-16 ***
## time18:00:00 -1.247331   0.056259 -22.171  < 2e-16 ***
## time18:15:00 -1.189270   0.053190 -22.359  < 2e-16 ***
## time18:30:00 -1.209393   0.053413 -22.642  < 2e-16 ***
## time18:45:00 -1.230011   0.052995 -23.210  < 2e-16 ***
## time19:00:00 -1.137468   0.057038 -19.942  < 2e-16 ***
## time19:15:00 -1.147165   0.053178 -21.572  < 2e-16 ***
## time19:30:00 -1.099466   0.054065 -20.336  < 2e-16 ***
## time19:45:00 -1.035786   0.052892 -19.583  < 2e-16 ***
## time20:00:00 -0.996463   0.051035 -19.525  < 2e-16 ***
## time20:15:00 -0.874095   0.048848 -17.894  < 2e-16 ***
## time20:30:00 -0.902852   0.051520 -17.524  < 2e-16 ***
## time20:45:00 -0.798762   0.048278 -16.545  < 2e-16 ***
## time21:00:00 -0.662005   0.045354 -14.596  < 2e-16 ***
## time21:15:00 -0.631592   0.042665 -14.803  < 2e-16 ***
## time21:30:00 -0.565099   0.042352 -13.343  < 2e-16 ***
## time21:45:00 -0.488812   0.045034 -10.854  < 2e-16 ***
```

```
## time22:00:00 -0.471830   0.040421 -11.673  < 2e-16 ***
## time22:15:00 -0.411815   0.040606 -10.142  < 2e-16 ***
## time22:30:00 -0.471152   0.042225 -11.158  < 2e-16 ***
## time22:45:00 -0.317964   0.041124  -7.732 1.06e-14 ***
## time23:00:00 -0.256759   0.037994  -6.758 1.40e-11 ***
## time23:15:00 -0.243136   0.039752  -6.116 9.57e-10 ***
## time23:30:00 -0.134498   0.037396  -3.597 0.000322 ***
## time23:45:00 -0.142859   0.037247  -3.835 0.000125 ***
## weekday.L    -0.097944   0.009648 -10.152  < 2e-16 ***
## weekday.Q    -0.346955   0.009480 -36.600  < 2e-16 ***
## weekday.C     0.112747   0.009173  12.291  < 2e-16 ***
## weekday^4    -0.097797   0.008693 -11.250  < 2e-16 ***
## weekday^5     0.088627   0.008681  10.209  < 2e-16 ***
## weekday^6    -0.112452   0.008390 -13.403  < 2e-16 ***
##
## Zero-inflation model coefficients (binomial with logit link):
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)   -4.06258    0.75698  -5.367 8.01e-08 ***
## cluster2       1.48225    0.18998   7.802 6.08e-15 ***
## cluster3      -1.10381    0.31683  -3.484 0.000494 ***
## cluster4      -0.55373    0.27857  -1.988 0.046835 *
## cluster5       0.54694    0.21438   2.551 0.010735 *
## cluster6       1.07800    0.20136   5.354 8.62e-08 ***
## time00:15:00   0.37976    0.96009   0.396 0.692437
## time00:30:00  -0.07805    1.05218  -0.074 0.940866
## time00:45:00  -0.17692    1.05327  -0.168 0.866603
## time01:00:00   0.49189    0.95783   0.514 0.607569
## time01:15:00   0.68701    0.91277   0.753 0.451649
## time01:30:00  -0.87384    1.32734  -0.658 0.510318
## time01:45:00   0.29914    0.95708   0.313 0.754618
## time02:00:00  -0.12765    1.03855  -0.123 0.902176
## time02:15:00  -0.01438    1.04719  -0.014 0.989046
## time02:30:00   0.59114    0.91211   0.648 0.516922
## time02:45:00   0.65167    0.91192   0.715 0.474848
## time03:00:00  -0.16248    1.05507  -0.154 0.877612
## time03:15:00  -0.66629    1.30103  -0.512 0.608563
## time03:30:00   0.39425    0.95894   0.411 0.680975
## time03:45:00  -0.01928    1.04461  -0.018 0.985274
## time04:00:00   0.34275    0.95887   0.357 0.720754
## time04:15:00   0.28446    0.95825   0.297 0.766577
## time04:30:00   0.36206    0.95753   0.378 0.705339
## time04:45:00  -0.11388    1.05242  -0.108 0.913833
## time05:00:00  -0.94422    1.31670  -0.717 0.473305
## time05:15:00  -0.92253    1.32587  -0.696 0.486556
## time05:30:00 -15.05676 1258.02513  -0.012 0.990451
## time05:45:00 -15.03819 1411.60642  -0.011 0.991500
## time06:00:00  -0.92224    1.26598  -0.728 0.466319
## time06:15:00 -15.12172 1254.79059  -0.012 0.990385
## time06:30:00 -15.08434 1225.22348  -0.012 0.990177
## time06:45:00 -14.95198 1314.66024  -0.011 0.990926
## time07:00:00 -14.99653 1267.75436  -0.012 0.990562
## time07:15:00 -15.08823 1272.41253  -0.012 0.990539
## time07:30:00  -1.02571    1.43509  -0.715 0.474774
## time07:45:00  -0.03301    1.07296  -0.031 0.975457
```

```
## time08:00:00    -1.49456    2.39820    -0.623 0.533152
## time08:15:00    -0.57267    1.47501    -0.388 0.697834
## time08:30:00    -0.12463    1.03805    -0.120 0.904437
## time08:45:00    -0.06809    1.03961    -0.065 0.947776
## time09:00:00    -0.16281    1.04237    -0.156 0.875881
## time09:15:00    -0.11174    1.03803    -0.108 0.914275
## time09:30:00     0.84447    0.88064     0.959 0.337596
## time09:45:00     0.06340    1.04224     0.061 0.951490
## time10:00:00     1.19930    0.85933     1.396 0.162829
## time10:15:00     1.15041    0.87651     1.312 0.189354
## time10:30:00     1.34762    0.87858     1.534 0.125064
## time10:45:00     1.41748    0.83939     1.689 0.091277 .
## time11:00:00     1.64163    0.83345     1.970 0.048875 *
## time11:15:00     1.63217    0.83677     1.951 0.051109 .
## time11:30:00     1.79004    0.83477     2.144 0.032005 *
## time11:45:00     1.13573    0.88134     1.289 0.197522
## time12:00:00     1.60276    0.85693     1.870 0.061436 .
## time12:15:00     1.55029    0.84497     1.835 0.066547 .
## time12:30:00     1.32435    0.85805     1.543 0.122724
## time12:45:00     1.37159    0.86883     1.579 0.114415
## time13:00:00     0.77216    1.00432     0.769 0.441989
## time13:15:00     0.88058    0.92420     0.953 0.340691
## time13:30:00     1.05625    0.89937     1.174 0.240221
## time13:45:00     1.20308    0.90405     1.331 0.183267
## time14:00:00     1.52291    0.85460     1.782 0.074747 .
## time14:15:00     1.38929    0.86348     1.609 0.107629
## time14:30:00     1.84705    0.83504     2.212 0.026971 *
## time14:45:00     1.68032    0.84484     1.989 0.046709 *
## time15:00:00     1.40241    0.86612     1.619 0.105405
## time15:15:00     1.12457    0.88510     1.271 0.203889
## time15:30:00     1.15778    0.86176     1.344 0.179107
## time15:45:00     0.18614    1.03916     0.179 0.857839
## time16:00:00     1.47443    0.85698     1.720 0.085342 .
## time16:15:00     1.96993    0.82552     2.386 0.017019 *
## time16:30:00     1.28037    0.86782     1.475 0.140108
## time16:45:00     1.36515    0.85352     1.599 0.109725
## time17:00:00     0.96213    0.91779     1.048 0.294498
## time17:15:00     1.68825    0.84331     2.002 0.045291 *
## time17:30:00     1.61510    0.84639     1.908 0.056364 .
## time17:45:00     1.30768    0.86744     1.508 0.131676
## time18:00:00     1.20209    0.87311     1.377 0.168579
## time18:15:00     0.74256    0.94173     0.789 0.430400
## time18:30:00     0.49358    0.98041     0.503 0.614650
## time18:45:00     0.65045    0.94080     0.691 0.489326
## time19:00:00     1.73510    0.86334     2.010 0.044456 *
## time19:15:00     1.22573    0.87890     1.395 0.163132
## time19:30:00     0.96523    0.92047     1.049 0.294352
## time19:45:00     1.06138    0.89523     1.186 0.235782
## time20:00:00     0.66591    0.95272     0.699 0.484578
## time20:15:00     1.23631    0.85824     1.441 0.149719
## time20:30:00     0.76291    0.92172     0.828 0.407836
## time20:45:00     1.53995    0.83286     1.849 0.064459 .
## time21:00:00     1.48876    0.84061     1.771 0.076553 .
## time21:15:00     0.85801    0.89174     0.962 0.335960
```

```
## time21:30:00     0.71988     0.91167     0.790 0.429745
## time21:45:00     0.84371     0.90619     0.931 0.351822
## time22:00:00     0.62639     0.93939     0.667 0.504895
## time22:15:00     0.54345     0.93349     0.582 0.560448
## time22:30:00     0.06060     1.08477     0.056 0.955452
## time22:45:00     0.73525     0.94309     0.780 0.435613
## time23:00:00     1.11145     0.87030     1.277 0.201569
## time23:15:00    -0.30349     1.14644    -0.265 0.791225
## time23:30:00    -0.09512     1.06210    -0.090 0.928636
## time23:45:00    -0.25730     1.06690    -0.241 0.809424
## weekday.L        0.44539     0.15481     2.877 0.004015 **
## weekday.Q        0.23054     0.15467     1.491 0.136085
## weekday.C        0.50639     0.15506     3.266 0.001091 **
## weekday^4        0.04312     0.15402     0.280 0.779527
## weekday^5       -0.41501     0.15434    -2.689 0.007168 **
## weekday^6        0.15376     0.15389     0.999 0.317719
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Number of iterations in BFGS optimization: 151
## Log-likelihood: -2.606e+04 on 214 Df
```

```
predzp<- predict(modelzp,newdata=test,type = "response")
rmsemodelzp<-ModelMetrics::rmse(test$bikes.avail.count,round(predzp))
maemodelzp<-mae(test$bikes.avail.count,round(predzp))
rmsemodelzp
```

```
## [1] 8.747335
```

```
maemodelzp
```

```
## [1] 5.996827
```

```
modelznb <- zeroinfl(bikes.avail.count ~ cluster + time + weekday, data=train,dist = "negbin")
summary(modelznb)
```

```
##
## Call:
## zeroinfl(formula = bikes.avail.count ~ cluster + time + weekday, data = train,
##     dist = "negbin")
##
## Pearson residuals:
##     Min      1Q  Median      3Q     Max
## -1.5517 -0.7862 -0.1675  0.5623  6.8249
##
## Count model coefficients (negbin with log link):
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)  3.017687   0.081814  36.885  < 2e-16 ***
## cluster2    -0.344190   0.035797  -9.615  < 2e-16 ***
## cluster3     0.837422   0.029115  28.763  < 2e-16 ***
## cluster4    -0.124187   0.029750  -4.174 2.99e-05 ***
## cluster5    -0.399459   0.031115 -12.838  < 2e-16 ***
```

```
## cluster6      -0.977135   0.037143 -26.308  < 2e-16 ***
## time00:15:00 -0.039295   0.113574  -0.346 0.729351
## time00:30:00  0.041632   0.113196   0.368 0.713033
## time00:45:00  0.075517   0.112359   0.672 0.501517
## time01:00:00  0.122905   0.112835   1.089 0.276047
## time01:15:00  0.140470   0.115094   1.220 0.222284
## time01:30:00  0.178559   0.115059   1.552 0.120687
## time01:45:00  0.217067   0.110981   1.956 0.050479 .
## time02:00:00  0.206752   0.109918   1.881 0.059976 .
## time02:15:00  0.186019   0.111514   1.668 0.095291 .
## time02:30:00  0.220379   0.112741   1.955 0.050615 .
## time02:45:00  0.219154   0.112482   1.948 0.051373 .
## time03:00:00  0.215547   0.110983   1.942 0.052117 .
## time03:15:00  0.223108   0.116131   1.921 0.054710 .
## time03:30:00  0.208227   0.112204   1.856 0.063484 .
## time03:45:00  0.241938   0.112122   2.158 0.030942 *
## time04:00:00  0.218267   0.110184   1.981 0.047600 *
## time04:15:00  0.217642   0.110891   1.963 0.049686 *
## time04:30:00  0.310714   0.110572   2.810 0.004953 **
## time04:45:00  0.250740   0.113681   2.206 0.027409 *
## time05:00:00  0.223506   0.109534   2.041 0.041299 *
## time05:15:00  0.173146   0.111220   1.557 0.119520
## time05:30:00  0.257980   0.111613   2.311 0.020813 *
## time05:45:00  0.196339   0.118356   1.659 0.097140 .
## time06:00:00  0.208992   0.108172   1.932 0.053354 .
## time06:15:00  0.144215   0.111389   1.295 0.195427
## time06:30:00  0.142367   0.110514   1.288 0.197665
## time06:45:00  0.063019   0.113554   0.555 0.578918
## time07:00:00  0.032374   0.111877   0.289 0.772296
## time07:15:00  0.080350   0.112826   0.712 0.476364
## time07:30:00 -0.002099   0.112333  -0.019 0.985093
## time07:45:00 -0.051854   0.116543  -0.445 0.656369
## time08:00:00 -0.234077   0.115378  -2.029 0.042479 *
## time08:15:00 -0.382854   0.113973  -3.359 0.000782 ***
## time08:30:00 -0.403148   0.113048  -3.566 0.000362 ***
## time08:45:00 -0.398085   0.114234  -3.485 0.000492 ***
## time09:00:00 -0.520583   0.112234  -4.638 3.51e-06 ***
## time09:15:00 -0.612236   0.114203  -5.361 8.28e-08 ***
## time09:30:00 -0.645466   0.118137  -5.464 4.66e-08 ***
## time09:45:00 -0.822387   0.123108  -6.680 2.39e-11 ***
## time10:00:00 -0.975188   0.127083  -7.674 1.67e-14 ***
## time10:15:00 -0.956952   0.122721  -7.798 6.30e-15 ***
## time10:30:00 -1.009146   0.131015  -7.703 1.33e-14 ***
## time10:45:00 -0.996133   0.124701  -7.988 1.37e-15 ***
## time11:00:00 -1.068581   0.132933  -8.039 9.09e-16 ***
## time11:15:00 -1.096774   0.128471  -8.537  < 2e-16 ***
## time11:30:00 -1.253882   0.135834  -9.231  < 2e-16 ***
## time11:45:00 -1.230754   0.128729  -9.561  < 2e-16 ***
## time12:00:00 -1.165391   0.137331  -8.486  < 2e-16 ***
## time12:15:00 -1.272709   0.128858  -9.877  < 2e-16 ***
## time12:30:00 -1.371954   0.123865 -11.076  < 2e-16 ***
## time12:45:00 -1.382131   0.130607 -10.582  < 2e-16 ***
## time13:00:00 -1.514410   0.129222 -11.719  < 2e-16 ***
## time13:15:00 -1.496351   0.133521 -11.207  < 2e-16 ***
```

```
## time13:30:00 -1.427254   0.130640 -10.925  < 2e-16 ***
## time13:45:00 -1.587740   0.126422 -12.559  < 2e-16 ***
## time14:00:00 -1.435361   0.130228 -11.022  < 2e-16 ***
## time14:15:00 -1.241185   0.127409  -9.742  < 2e-16 ***
## time14:30:00 -1.581488   0.134589 -11.750  < 2e-16 ***
## time14:45:00 -1.436706   0.134865 -10.653  < 2e-16 ***
## time15:00:00 -1.534386   0.129376 -11.860  < 2e-16 ***
## time15:15:00 -1.387185   0.133613 -10.382  < 2e-16 ***
## time15:30:00 -1.311005   0.128530 -10.200  < 2e-16 ***
## time15:45:00 -1.250911   0.126307  -9.904  < 2e-16 ***
## time16:00:00 -1.376340   0.130317 -10.562  < 2e-16 ***
## time16:15:00 -1.392083   0.146193  -9.522  < 2e-16 ***
## time16:30:00 -1.328059   0.133690  -9.934  < 2e-16 ***
## time16:45:00 -1.270026   0.125239 -10.141  < 2e-16 ***
## time17:00:00 -1.189112   0.126407  -9.407  < 2e-16 ***
## time17:15:00 -1.088463   0.127883  -8.511  < 2e-16 ***
## time17:30:00 -1.256479   0.127647  -9.843  < 2e-16 ***
## time17:45:00 -1.153098   0.122576  -9.407  < 2e-16 ***
## time18:00:00 -1.157831   0.122880  -9.422  < 2e-16 ***
## time18:15:00 -1.132532   0.120127  -9.428  < 2e-16 ***
## time18:30:00 -1.122475   0.121901  -9.208  < 2e-16 ***
## time18:45:00 -1.157185   0.118123  -9.796  < 2e-16 ***
## time19:00:00 -1.060928   0.133197  -7.965 1.65e-15 ***
## time19:15:00 -1.088087   0.121919  -8.925  < 2e-16 ***
## time19:30:00 -1.091623   0.121595  -8.978  < 2e-16 ***
## time19:45:00 -1.001826   0.121860  -8.221  < 2e-16 ***
## time20:00:00 -0.962181   0.122039  -7.884 3.17e-15 ***
## time20:15:00 -0.858788   0.120363  -7.135 9.68e-13 ***
## time20:30:00 -0.893764   0.120743  -7.402 1.34e-13 ***
## time20:45:00 -0.808731   0.121192  -6.673 2.50e-11 ***
## time21:00:00 -0.646076   0.118894  -5.434 5.51e-08 ***
## time21:15:00 -0.631496   0.115383  -5.473 4.42e-08 ***
## time21:30:00 -0.548314   0.115540  -4.746 2.08e-06 ***
## time21:45:00 -0.506781   0.120569  -4.203 2.63e-05 ***
## time22:00:00 -0.437623   0.114681  -3.816 0.000136 ***
## time22:15:00 -0.361881   0.114636  -3.157 0.001595 **
## time22:30:00 -0.421190   0.116434  -3.617 0.000298 ***
## time22:45:00 -0.287662   0.119131  -2.415 0.015749 *
## time23:00:00 -0.213023   0.113990  -1.869 0.061654 .
## time23:15:00 -0.212956   0.115329  -1.847 0.064818 .
## time23:30:00 -0.127907   0.113630  -1.126 0.260316
## time23:45:00 -0.139489   0.111394  -1.252 0.210492
## weekday.L    -0.175447   0.024509  -7.158 8.16e-13 ***
## weekday.Q    -0.280735   0.024390 -11.510  < 2e-16 ***
## weekday.C     0.194173   0.024718   7.856 3.98e-15 ***
## weekday^4     0.036587   0.024316   1.505 0.132420
## weekday^5     0.055954   0.024178   2.314 0.020654 *
## weekday^6    -0.178077   0.023356  -7.625 2.45e-14 ***
## Log(theta)    1.019888   0.033597  30.357  < 2e-16 ***
##
## Zero-inflation model coefficients (binomial with logit link):
##               Estimate Std. Error z value Pr(>|z|)
## (Intercept) -5.116e+00  1.233e+00  -4.151 3.31e-05 ***
## cluster2     1.962e+00  4.878e-01   4.022 5.78e-05 ***
```

```
## cluster3      -5.786e-01  6.196e-01  -0.934 0.350394
## cluster4      -1.513e+01  9.871e+02  -0.015 0.987775
## cluster5       1.942e-01  6.815e-01   0.285 0.775705
## cluster6       2.187e+00  6.615e-01   3.307 0.000944 ***
## time00:15:00   3.907e-01  1.105e+00   0.353 0.723738
## time00:30:00  -5.164e-01  1.425e+00  -0.362 0.717112
## time00:45:00  -5.830e-01  1.423e+00  -0.410 0.682138
## time01:00:00   5.920e-01  1.133e+00   0.523 0.601214
## time01:15:00   7.463e-01  1.065e+00   0.701 0.483312
## time01:30:00  -1.011e+00  1.595e+00  -0.634 0.526115
## time01:45:00   2.968e-01  1.093e+00   0.272 0.785925
## time02:00:00  -1.275e-02  1.190e+00  -0.011 0.991449
## time02:15:00   1.392e-01  1.194e+00   0.117 0.907162
## time02:30:00   5.893e-01  1.040e+00   0.567 0.570811
## time02:45:00   6.572e-01  1.041e+00   0.631 0.527948
## time03:00:00  -1.621e-01  1.199e+00  -0.135 0.892462
## time03:15:00  -5.541e-01  1.489e+00  -0.372 0.709757
## time03:30:00   4.427e-01  1.089e+00   0.407 0.684361
## time03:45:00   6.830e-02  1.180e+00   0.058 0.953824
## time04:00:00   4.289e-01  1.088e+00   0.394 0.693566
## time04:15:00   3.009e-01  1.088e+00   0.277 0.782071
## time04:30:00   5.164e-01  1.085e+00   0.476 0.634249
## time04:45:00  -1.406e-01  1.197e+00  -0.117 0.906505
## time05:00:00  -9.606e-01  1.557e+00  -0.617 0.537339
## time05:15:00  -1.132e+00  1.627e+00  -0.696 0.486368
## time05:30:00  -1.506e+01  1.304e+03  -0.012 0.990783
## time05:45:00  -1.504e+01  1.517e+03  -0.010 0.992088
## time06:00:00  -1.048e+00  1.509e+00  -0.694 0.487584
## time06:15:00  -1.512e+01  1.324e+03  -0.011 0.990884
## time06:30:00  -1.509e+01  1.245e+03  -0.012 0.990330
## time06:45:00  -1.495e+01  1.334e+03  -0.011 0.991055
## time07:00:00  -1.500e+01  1.328e+03  -0.011 0.990989
## time07:15:00  -1.509e+01  1.288e+03  -0.012 0.990653
## time07:30:00  -1.396e+01  9.795e+02  -0.014 0.988627
## time07:45:00  -4.389e-01  1.452e+00  -0.302 0.762447
## time08:00:00  -1.461e+00  2.296e+00  -0.636 0.524589
## time08:15:00  -1.189e+00  2.264e+00  -0.525 0.599439
## time08:30:00  -1.435e+01  1.341e+03  -0.011 0.991460
## time08:45:00  -1.476e+01  1.314e+03  -0.011 0.991039
## time09:00:00  -1.505e+01  1.290e+03  -0.012 0.990692
## time09:15:00  -1.591e+01  2.059e+03  -0.008 0.993834
## time09:30:00   6.836e-01  1.124e+00   0.608 0.543033
## time09:45:00  -1.690e-01  1.332e+00  -0.127 0.899030
## time10:00:00   3.632e-01  1.318e+00   0.276 0.782904
## time10:15:00  -2.750e-01  1.484e+00  -0.185 0.852999
## time10:30:00   3.622e-01  1.312e+00   0.276 0.782449
## time10:45:00   7.565e-01  1.172e+00   0.646 0.518592
## time11:00:00   9.038e-01  1.292e+00   0.700 0.484098
## time11:15:00  -5.759e-01  2.519e+00  -0.229 0.819142
## time11:30:00   4.818e-01  1.782e+00   0.270 0.786895
## time11:45:00  -8.425e-01  2.652e+00  -0.318 0.750756
## time12:00:00   6.467e-01  1.444e+00   0.448 0.654183
## time12:15:00   7.123e-01  1.252e+00   0.569 0.569426
## time12:30:00  -1.148e+01  1.160e+03  -0.010 0.992104
```

189

```
## time12:45:00  7.786e-01  1.183e+00   0.658 0.510473
## time13:00:00 -1.879e-01  1.649e+00  -0.114 0.909263
## time13:15:00 -1.325e-02  1.401e+00  -0.009 0.992454
## time13:30:00  5.167e-01  1.207e+00   0.428 0.668573
## time13:45:00 -1.345e+01  1.240e+03  -0.011 0.991349
## time14:00:00  9.691e-01  1.208e+00   0.802 0.422593
## time14:15:00  9.133e-01  1.150e+00   0.794 0.427122
## time14:30:00  1.307e+00  1.118e+00   1.169 0.242227
## time14:45:00  8.534e-01  1.235e+00   0.691 0.489700
## time15:00:00  9.107e-02  1.789e+00   0.051 0.959392
## time15:15:00  5.557e-01  1.342e+00   0.414 0.678784
## time15:30:00 -8.916e-02  1.687e+00  -0.053 0.957845
## time15:45:00 -2.059e+00  6.437e+00  -0.320 0.749078
## time16:00:00  2.612e-03  1.628e+00   0.002 0.998720
## time16:15:00  6.981e-01  1.929e+00   0.362 0.717359
## time16:30:00  4.459e-01  1.402e+00   0.318 0.750519
## time16:45:00  2.656e-01  1.440e+00   0.184 0.853699
## time17:00:00  4.415e-01  1.242e+00   0.355 0.722228
## time17:15:00  1.486e+00  1.071e+00   1.387 0.165496
## time17:30:00  1.428e+00  1.120e+00   1.275 0.202347
## time17:45:00 -3.915e-01  2.271e+00  -0.172 0.863094
## time18:00:00  6.944e-01  1.171e+00   0.593 0.553245
## time18:15:00 -1.267e+00  2.987e+00  -0.424 0.671551
## time18:30:00 -1.157e+00  2.865e+00  -0.404 0.686221
## time18:45:00 -1.521e+01  1.744e+03  -0.009 0.993045
## time19:00:00  1.595e+00  1.115e+00   1.431 0.152485
## time19:15:00  7.098e-01  1.200e+00   0.591 0.554259
## time19:30:00 -1.280e+01  1.082e+03  -0.012 0.990561
## time19:45:00 -8.025e-01  2.436e+00  -0.329 0.741883
## time20:00:00 -6.191e-01  2.271e+00  -0.273 0.785158
## time20:15:00  9.355e-01  1.109e+00   0.844 0.398851
## time20:30:00 -1.344e+01  1.215e+03  -0.011 0.991174
## time20:45:00  1.372e+00  1.039e+00   1.320 0.186722
## time21:00:00  1.668e+00  1.006e+00   1.658 0.097265 .
## time21:15:00  5.486e-01  1.132e+00   0.485 0.627915
## time21:30:00  5.914e-01  1.137e+00   0.520 0.603028
## time21:45:00  7.870e-01  1.112e+00   0.708 0.478954
## time22:00:00  7.471e-01  1.080e+00   0.692 0.489036
## time22:15:00  4.801e-01  1.103e+00   0.435 0.663317
## time22:30:00 -2.570e-01  1.407e+00  -0.183 0.855014
## time22:45:00  5.895e-01  1.170e+00   0.504 0.614517
## time23:00:00  1.161e+00  1.035e+00   1.121 0.262104
## time23:15:00 -4.176e-01  1.363e+00  -0.306 0.759352
## time23:30:00 -1.627e-01  1.262e+00  -0.129 0.897388
## time23:45:00 -3.399e-01  1.289e+00  -0.264 0.792084
## weekday.L     6.032e-01  8.016e-01   0.753 0.451743
## weekday.Q     1.304e-01  8.620e-01   0.151 0.879787
## weekday.C     2.732e+00  1.859e+00   1.470 0.141658
## weekday^4     1.180e-01  7.666e-01   0.154 0.877650
## weekday^5    -9.881e-01  1.577e+00  -0.627 0.530888
## weekday^6    -5.516e-01  1.407e+00  -0.392 0.695105
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
```

```
## Theta = 2.7729
## Number of iterations in BFGS optimization: 195
## Log-likelihood: -2.057e+04 on 215 Df
```

```
predznb<- predict(modelznb,newdata=test,type = "response")
rmsemodelznb<-ModelMetrics::rmse(test$bikes.avail.count,round(predznb))
maemodelznb<-mae(test$bikes.avail.count,round(predznb))
rmsemodelznb
```

```
## [1] 9.41988
```

```
maemodelznb
```

```
## [1] 6.421954
```

```
rmse<-c(rmsemodelp,rmsemodelqp,rmsemodelnb,rmsemodelhp,rmsemodelhnb,
          rmsemodelzp,rmsemodelznb)
mae<-c(maemodelp,maemodelqp,maemodelnb,maemodelhp,maemodelhnb,
          maemodelzp,maemodelznb)
models<-c("pois","q_pois","nb","h_pois","h_nb","zer_pois","zer_nb")
data.frame(models,rmse,mae)%>%
  arrange(rmse)
```

```
##      models     rmse      mae
## 1      pois 8.675188 5.961929
## 2    q_pois 8.675188 5.961929
## 3    h_pois 8.733759 5.965102
## 4 zer_pois 8.747335 5.996827
## 5        nb 9.360348 6.381345
## 6      h_nb 9.389823 6.355330
## 7    zer_nb 9.419880 6.421954
```

Closing Remarks

The exploratory analysis of the Citi Bike dataset for NYC-based trips in September 2022 shows a consistent pattern of use dependent on time of day and day of the week. The pattern persists week over week for the given month. The majority of users are member which indicates the availability of bikes will be dependent on work schedules during weekdays. The surplus and shortage count of bikes by docking station denotes the uneven direction of bikes in some sections of New York City. The shortage (and surplus) counts confirm the practice of rebalancing by Citi Bike to ensure availability of bikes. The duration of bike trips may not play as large a factor in bike availability compared to time of day, day of week, and directional flow of bikes throughout the city.

Appendix with Code

```r
# Required packages
library(tidyverse)
library(ggplot2)
library(skimr)
library(lubridate)
library(fpp3)
library(assertthat)
library(igraph)
library(ggraph)
library(ggmap)
library(leaflet)
library(rgdal)
library(RColorBrewer)
library(jpeg)
library(data.table)
library(MASS)


# Create additional columns of pertinence
# weekday, day of the month, trip duration in minutes, start hour
citibike <- fread("data/202209-citibike-tripdata.csv", data.table=FALSE, check.names=TRUE) %>%
#citibike <- read.csv("data/202209-citibike-tripdata.csv", check.names=TRUE) %>%
  mutate(day = factor(mday(ymd_hms(started_at))),
         start.hour=factor(hour(ymd_hms(started_at))),
         weekday = lubridate::wday(ymd_hms(started_at), label=TRUE, abbr=TRUE),
         trip.duration = as.numeric(difftime(ended_at,started_at,units="mins")),
         member_casual = factor(member_casual)) %>%
  rename(ride.id=ride_id, rideable.type=rideable_type, started.at=started_at,
         ended.at=ended_at, start.station.name=start_station_name, start.station.id=start_station_id,
         end.station.name=end_station_name, end.station.id=end_station_id, start.lat=start_lat,
         start.lng=start_lng, end.lat=end_lat, end.lng=end_lng, member.casual=member_casual)

# Figure out abandoned and label them
citibike$end.station.name[citibike$end.station.name == ''] <- "Abandoned"
citibike$end.station.id[citibike$end.station.id  == ''] <- "ABAN"

# Output DF if needed
head(citibike)

# Trip by weekday by segment by time of day
citibike %>%
  group_by(day, member.casual, start.hour) %>%
  summarize(n=n(),
            weekday=weekday[1]) %>%
  group_by(weekday, member.casual, start.hour) %>%
  summarize(n.m=mean(n)) %>%
  ggplot(aes(x=start.hour, y=n.m, fill=weekday)) +
  geom_bar(stat='identity') +
  labs(x='Time of Day',
       y='Number of Trips',
       title='Average Number of Bike Trips by Time, Day, and User') +
  facet_grid(weekday~member.casual) +
  theme(axis.text.x = element_text(size=8, angle=90),
        legend.position = 'none')
```

```r
citibike$started.at.ts <- as_datetime(as.character(citibike$started.at))

citibike_by_hour <- citibike %>%
  mutate(hour=lubridate::floor_date(started.at.ts, "1 hour")) %>%
  group_by(hour, member.casual) %>%
  summarize(cnt=n())
#citibike_by_hour

citibike_by_hour_ts <- citibike_by_hour %>%
  as_tsibble(index=hour, key=c(member.casual))
#citibike_by_hour_ts

autoplot(citibike_by_hour_ts, cnt) +
  labs(title = "Ride Trips by Hour - Sept. 2022",
       subtitle = "Citi Bike NYC",
       y = "Ride Trips Counts") +
  guides(fill=guide_legend(title="New Legend Title"))
citibike_by_hour_ts %>%
  gg_season(cnt, period = "week") +
  labs(y = "Ride Trips",
       title = "Seasonal plot: Weekly Trip Counts for Sept. 2022")
citibike %>%
  filter(member.casual %in% c('member', 'casual')) %>%
  group_by(weekday, start.hour, member.casual) %>%
  summarize(med.duration=median(trip.duration)) %>%
  ggplot(aes(x=start.hour, y=med.duration, group=member.casual,
             color=member.casual, linetype=member.casual, shape=member.casual)) +
  geom_point(size=2) +
  geom_line(size=0.5) +
  facet_wrap(~weekday, nrow=1) +
  labs(x='Time of Day',
       y='Median Trip Duration',
       title = "Median Trip Duration by User and Day for Sept. 2022",
       color='User Type') +
  scale_x_discrete(breaks=c(0,6,12,18))
# Create table of start to end station IDs
stations_cols <- citibike %>%
  dplyr::select(start.station.id, end.station.id)
stations_table <- as.data.frame((table(stations_cols)))

stations_table <- stations_table %>%
  filter(Freq > 0)

stations_table_order <- stations_table[order(-stations_table$Freq),]

stations_table_dif <- stations_table_order %>%
  filter(as.character(start.station.id) != as.character(end.station.id))

# Create table of start to end station IDs
stations_cols <- citibike %>%
  dplyr::select(start.station.id, end.station.id)
stations_table <- as.data.frame((table(stations_cols)))
```

```r
stations_table <- stations_table %>%
  filter(Freq > 0)

stations_table_order <- stations_table[order(-stations_table$Freq),]

stations_table_dif <- stations_table_order %>%
  filter(as.character(start.station.id) != as.character(end.station.id))

stations_table_dif1 <- stations_table_dif
stations_table_dif2 <- stations_table_dif

# Added all=TRUE to account for one-sided counts
stations_table_dif_merge <-
  merge(stations_table_dif1,
      stations_table_dif1,
      by.x=c('start.station.id','end.station.id'),
      by.y=c('end.station.id','start.station.id'), all = TRUE)

# Set the NA (one-sided trips) to count of 0
stations_table_dif_merge[is.na(stations_table_dif_merge)] <- 0

stations_table_dif_merge$surplus <- stations_table_dif_merge$Freq.y - stations_table_dif_merge$Freq.x
stations_table_dif_merge <- stations_table_dif_merge[order(-stations_table_dif_merge$surplus),]

# Remove rows with start station id equal to ABAN for abandoned, those are a result of the merge all=TR
stations_table_dif_merge <- stations_table_dif_merge %>% filter(start.station.id != 'ABAN')

# Want to identify the surplus (or not) by station for the month
station_surplus_count <- stations_table_dif_merge %>%
  group_by(start.station.id) %>%
  summarize(surplus.sum=sum(surplus))


station_surplus_count <- station_surplus_count[order(-station_surplus_count$surplus.sum),]
colnames(station_surplus_count)[1] <- "station.id"

# Extract just the end station Id, lat, log
# because this had the higher count from the initial dataset, going with end_station_id
end_station_info <- citibike %>%
  dplyr::select(end.station.id, end.lng, end.lat)

end_station_info <- end_station_info[!duplicated(end_station_info$end.station.id),]

# Now I want the coordinates of all those station_ids
station_surplus_count_coords <- merge(x = station_surplus_count, y = end_station_info, by.x = 'station.

colnames(station_surplus_count_coords)[3] <- "lng"
colnames(station_surplus_count_coords)[4] <- "lat"

station_surplus_count_coords <- station_surplus_count_coords %>%
  add_row(station.id = "ABAN", surplus.sum=1363, lng=-73.99, lat=40.67)

# Using basemaps for NYC
```

```r
m <- leaflet(data=station_surplus_count_coords) %>%
#  setView(zoom=12) %>%
  addTiles() %>%
  addCircleMarkers(
    ~lng, ~lat,
    popup=~as.character(station.id),
    label=~as.character(station.id),
    radius=.5,
    color = ~ifelse(surplus.sum >= 1, 'blue',
                    ifelse(surplus.sum == 0, 'green', 'red'))
  )


# Display map
#m
img <- readJPEG("stations_surplus_sum.jpg")
plot(1:10,ty="n", axes = 0, xlab='', ylab='', main='Overall Monthly Surplus/Shortage by Docking Station
rasterImage(img,-1,-1,12,12)
stations_with_elevation <- read.csv('stations_with_elevation.csv', row.names = 1, header= TRUE)

stations_with_boro_hood <- read.csv('stations_with_boro_and_hood.csv', row.names = 1, header= TRUE)

# Combine the elevation, borough, neighborhood, and September surplus
# First let's trim the DF for elevation
stations_with_elevation_trim <- stations_with_elevation %>%
  dplyr::select(short_name, station_id, elevation, elev_units)

stations_with_boro_hood_trim <- stations_with_boro_hood %>%
  dplyr::select(short_name, name, station_id, capacity, ntaname, boro_name, lon, lat)

stations_attrs_trim <-
  merge(stations_with_elevation_trim,
        stations_with_boro_hood_trim,
        by.x=c('short_name'),
        by.y=c('short_name'), all = TRUE)

stations_attrs_trim <- stations_attrs_trim %>%
  dplyr::select(-station_id.y)

colnames(stations_attrs_trim)[colnames(stations_attrs_trim) == 'station_id.x'] <- 'station_id'

stations_attrs_trim[c("boro_name")][is.na(stations_attrs_trim[c("boro_name")])] <- "New Jersey"

stations_attrs_trim <-
  stations_attrs_trim %>%
  mutate(ntaname = ifelse(startsWith(short_name, "JC"), "Jersey City", ntaname))

stations_attrs_trim <-
  stations_attrs_trim %>%
  mutate(ntaname = ifelse(startsWith(short_name, "HB"), "Hoboken", ntaname))


stations_attrs_trim_sur <-
  merge(stations_attrs_trim,
```

```
        station_surplus_count,
        by.x=c('short_name'),
        by.y=c('station.id'), all.x = TRUE)

stations_attrs_trim_sur <- stations_attrs_trim_sur %>%
  filter(!is.na(surplus.sum))

stations_attrs_trim_sur %>%
  filter(surplus.sum >= -100 & surplus.sum <= 100) %>%
  ggplot(aes(x=surplus.sum, color=boro_name), ) +
  theme(legend.position="bottom") +
  geom_histogram(bins=201) +
  facet_wrap(~boro_name) +
  labs(x = 'Surplus Count',
       y = 'Number of Stations',
       title = "Station Surplus by Borough Histogram for Sept. 2022",
       fill = "Borough")
# This removed the duplicate rows by transposing the start and end station ids
stations_table_dif_merge_temp <- stations_table_dif_merge %>% select(start.station.id, end.station.id)


stations_for_graph <- stations_table_dif_merge_temp[!duplicated(lapply(as.data.frame(t(stations_table_di

g_stations <- graph_from_data_frame(stations_for_graph, directed=FALSE, vertices=station_surplus_count_

edges_for_plot <- stations_for_graph %>%
  inner_join(station_surplus_count_coords %>% select(station.id, lng, lat), by=c('start.station.id' = '
  rename(x=lng, y=lat) %>%
  inner_join(station_surplus_count_coords %>% select(station.id, lng, lat), by=c('end.station.id' = 'st
  rename(xend=lng, yend=lat)

#assert_that(nrow(edges_for_plot) == nrow(stations_for_graph))

citibike_bike_avail <- fread("bike_avail_by_station_and_time.csv", data.table=FALSE, check.names=FALSE)
citibike_bike_avail <- citibike_bike_avail %>%
  dplyr::select(-V1)
citibike_bike_avail_long <- citibike_bike_avail %>%
  pivot_longer(!timestamp, names_to = "station.id", values_to = "bikes.avail")

#head(citibike_bike_avail_long)
citibike_bike_avail_long_trim <- citibike_bike_avail_long %>%
  filter(as.integer(station.id) == 3582)
p<-ggplot(citibike_bike_avail_long_trim, aes(x=timestamp, y=bikes.avail, group=station.id)) +
  geom_line(aes(color=station.id), show.legend = FALSE) +
  geom_point(aes(color=station.id), show.legend = FALSE) +
  labs(x = 'Date/Time (15-minute Increments)',
       y = 'Bikes Available',
       title = "Docking Station 3582 Bike Availability")
p
stations_attrs_trim_bk61 <- stations_attrs_trim %>%
  filter(ntaname == "Crown Heights North")

#(stations_attrs_trim_bk61)
```

```r
#11 stations in this file
# Let's try the clustering
# https://www.r-bloggers.com/2019/06/hierarchical-clustering-for-location-based-strategy-using-r-for-e-
library(geosphere)

# Distance matrix for docking stations
# Result is in meters
dist_mat <- distm(stations_attrs_trim_bk61[9:10], stations_attrs_trim_bk61[9:10], fun=distHaversine)
dist_mat <- as.data.frame(dist_mat)
dist_mat[is.na(dist_mat)] <- 0

dMat <- as.dist(dist_mat)
dMat[1:10]
# Now for the clustering
hier_clust <- hclust(dMat, method = "complete")
# 400 meters is about a quarter of a mile (0.248548 miles)
stations_attrs_trim_bk61$cluster <- cutree(hier_clust, h=400)
stations_attrs_trim_bk61
stations_with_bike_avail <- read.csv('bike_avail_by_station_and_time.csv', row.names = 1, header= TRUE,
stations_with_bike_avail_long <- stations_with_bike_avail %>%
  pivot_longer(!timestamp, names_to = "station.id", values_to = "bikes.avail.count")
station_to_cluster <- stations_attrs_trim_bk61 %>%
  dplyr::select(station_id, cluster)

(station_to_cluster)
# Merge long df with counts with station.id and cluster to label clusters properly
stations_bike_avail_by_time <-
  merge(stations_with_bike_avail_long,
        station_to_cluster,
        by.x=c('station.id'),
        by.y=c('station_id'), all.x = TRUE)
stations_bike_avail_by_time_no_na <- stations_bike_avail_by_time %>%
  filter(!is.na(cluster))
# group by cluster ID for each timestamp
stations_bike_avail_by_time_no_na_group <- aggregate(bikes.avail.count ~ timestamp + cluster, data = sta
stations_bike_avail_by_time_no_na_group <- stations_bike_avail_by_time_no_na_group[order(stations_bike_a
# mutate to conver timestamp into day of the week, etc.
stations_bike_avail_by_time_no_na_group <- stations_bike_avail_by_time_no_na_group %>%
  mutate(time=as.ITime(ymd_hms(timestamp)),
         weekday = lubridate::wday(ymd_hms(timestamp),label=TRUE,abbr=TRUE))
stations_bike_avail_by_time_no_na_group$cluster <- as.factor(stations_bike_avail_by_time_no_na_group$clu
stations_bike_avail_by_time_no_na_group$time <- as.factor(stations_bike_avail_by_time_no_na_group$time)
stations_bike_avail_by_time_no_na_group$weekday <- as.factor(stations_bike_avail_by_time_no_na_group$wee
tab <- table(stations_bike_avail_by_time_no_na_group$bikes.avail.count)
tab
# Below shows the range of values for `bikes.avail.count` with 35611 at zero and max of 438 with one oc
stations_bike_avail_by_time_no_timestamp <- subset(stations_bike_avail_by_time_no_na_group, select=-c(t
stations_bike_avail_by_time_no_timestamp
# Start with data partition here.
set.seed(8675309)
index <- sample(2, nrow(stations_bike_avail_by_time_no_timestamp), replace = TRUE, p=c(0.8, 0.2))
train <- stations_bike_avail_by_time_no_timestamp[index==1,]
test <- stations_bike_avail_by_time_no_timestamp[index==2,]
```

```
mod1 <- glm(bikes.avail.count ~ cluster + time + weekday, data = train, family ="poisson")
summary(mod1)
pred <- predict.glm(mod1, newdata=test[test$bikes.avail.count != 0,],type = "response")
plot(test$bikes.avail.count[test$bikes.avail.count!=0],type = "b",col="red")
lines(round(pred),col="blue")
library(Metrics)
pred <- predict.glm(mod1, newdata = test, type = "response")
rmsemodelp <- ModelMetrics::rmse(test$bikes.avail.count,round(pred))
maemodelp <- mae(test$bikes.avail.count,round(pred))
rmsemodelp
maemodelp
mod2 <- glm(bikes.avail.count ~ cluster + time + weekday, data = train, family ="quasipoisson")
summary(mod2)
predq <- predict.glm(mod2, newdata=test[test$bikes.avail.count != 0,],type = "response")
plot(test$bikes.avail.count[test$bikes.avail.count!=0],type = "b",col="red")
lines(round(predq),col="blue")
predq <- predict.glm(mod2,newdata=test, type = "response")
rmsemodelqp <- ModelMetrics::rmse(test$bikes.avail.count,round(predq))
maemodelqp <- mae(test$bikes.avail.count,round(predq))
rmsemodelqp
maemodelqp
mod3 <- glm.nb(bikes.avail.count ~ cluster + time + weekday, data=train)
summary(mod3)
prednb <- predict.glm(mod3,newdata=test[test$bikes.avail.count!=0,],type = "response")
plot(test$bikes.avail.count[test$bikes.avail.count!=0],type = "b",col="red")
lines(round(prednb),col="blue")
prednb <- predict.glm(mod3,newdata=test,type = "response")
rmsemodelnb <- ModelMetrics::rmse(test$bikes.avail.count,round(prednb))
maemodelnb <- mae(test$bikes.avail.count,round(prednb))
rmsemodelnb
maemodelnb
library(pscl)
modelhp <- hurdle(bikes.avail.count ~ cluster + time + weekday, data=train, dist = "poisson")
summary(modelhp)
predhp <- predict(modelhp, newdata=test[test$bikes.avail.count!=0,],type = "response")
plot(test$bikes.avail.count[test$bikes.avail.count!=0],type = "b",col="red")
lines(round(predhp),col="blue")
predhp <- predict(modelhp, newdata=test, type = "response")
rmsemodelhp<-ModelMetrics::rmse(test$bikes.avail.count,round(predhp))
maemodelhp<-mae(test$bikes.avail.count,round(predhp))
rmsemodelhp
maemodelhp
modelhnb <- hurdle(bikes.avail.count ~ cluster + time + weekday, data=train, dist = "negbin")
summary(modelhnb)
predhnb <- predict(modelhnb, newdata=test[test$bikes.avail.count!=0,],type = "response")
plot(test$bikes.avail.count[test$bikes.avail.count!=0],type = "b",col="red")
lines(round(predhnb),col="blue")
predhnb<- predict(modelhnb, newdata=test,type = "response")
rmsemodelhnb<-ModelMetrics::rmse(test$bikes.avail.count,round(predhnb))
maemodelhnb<-mae(test$bikes.avail.count,round(predhnb))
rmsemodelhnb
maemodelhnb
modelzp <- zeroinfl(bikes.avail.count ~ cluster + time + weekday, data=train, dist = "poisson")
```

```r
summary(modelzp)
predzp<- predict(modelzp,newdata=test,type = "response")
rmsemodelzp<-ModelMetrics::rmse(test$bikes.avail.count,round(predzp))
maemodelzp<-mae(test$bikes.avail.count,round(predzp))
rmsemodelzp
maemodelzp
modelznb <- zeroinfl(bikes.avail.count ~ cluster + time + weekday, data=train,dist = "negbin")
summary(modelznb)
predznb<- predict(modelznb,newdata=test,type = "response")
rmsemodelznb<-ModelMetrics::rmse(test$bikes.avail.count,round(predznb))
maemodelznb<-mae(test$bikes.avail.count,round(predznb))
rmsemodelznb
maemodelznb
rmse<-c(rmsemodelp,rmsemodelqp,rmsemodelnb,rmsemodelhp,rmsemodelhnb,
          rmsemodelzp,rmsemodelznb)
mae<-c(maemodelp,maemodelqp,maemodelnb,maemodelhp,maemodelhnb,
          maemodelzp,maemodelznb)
models<-c("pois","q_pois","nb","h_pois","h_nb","zer_pois","zer_nb")
data.frame(models,rmse,mae)%>%
  arrange(rmse)
# https://yihui.org/en/2018/09/code-appendix/
```

LaTex help https://tex.stackexchange.com/questions/10684/vertical-space-in-lists