## Bellabeat Case Study

### Vaishnavi Devadig

```
library(tidyverse)
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr 1.1.2
                     v readr
                               2.1.4
## v forcats 1.0.0
                    v stringr 1.5.0
## v ggplot2 3.4.2
                  v tibble
                               3.2.1
## v lubridate 1.9.2
                     v tidyr
                               1.3.0
## v purrr
            1.0.1
## -- Conflicts ------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                 masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become error
dailyActivity_merged = read_csv("/Users/vaishnavishankardevadig/Downloads/Fitabase Data 4.12.16-5.12.16
## Rows: 940 Columns: 15
## -- Column specification -------
## Delimiter: ","
## chr (1): ActivityDate
## dbl (14): Id, TotalSteps, TotalDistance, TrackerDistance, LoggedActivitiesDi...
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
dailyCalories_merged = read_csv("/Users/vaishnavishankardevadig/Downloads/Fitabase Data 4.12.16-5.12.16
## Rows: 940 Columns: 3
## -- Column specification -------
## Delimiter: ","
## chr (1): ActivityDay
## dbl (2): Id, Calories
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
dailyIntensities_merged = read_csv("/Users/vaishnavishankardevadig/Downloads/Fitabase Data 4.12.16-5.12
## Rows: 940 Columns: 10
## Delimiter: ","
## chr (1): ActivityDay
## dbl (9): Id, SedentaryMinutes, LightlyActiveMinutes, FairlyActiveMinutes, Ve...
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

```
dailySteps_merged = read_csv("/Users/vaishnavishankardevadig/Downloads/Fitabase Data 4.12.16-5.12.16/da
## Rows: 940 Columns: 3
## -- Column specification -------
## Delimiter: ","
## chr (1): ActivityDay
## dbl (2): Id, StepTotal
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
heartrate_seconds_merged = read_csv("/Users/vaishnavishankardevadig/Downloads/Fitabase Data 4.12.16-5.1
## Rows: 2483658 Columns: 3
## -- Column specification ------
## Delimiter: ","
## chr (1): Time
## dbl (2): Id, Value
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
hourlyCalories_merged = read_csv("/Users/vaishnavishankardevadig/Downloads/Fitabase Data 4.12.16-5.12.1
## Rows: 22099 Columns: 3
## -- Column specification ------
## Delimiter: ","
## chr (1): ActivityHour
## dbl (2): Id, Calories
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
hourlyIntensities_merged = read_csv("/Users/vaishnavishankardevadig/Downloads/Fitabase Data 4.12.16-5.1
## Rows: 22099 Columns: 4
## -- Column specification -------
## Delimiter: ","
## chr (1): ActivityHour
## dbl (3): Id, TotalIntensity, AverageIntensity
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
hourlySteps_merged = read_csv("/Users/vaishnavishankardevadig/Downloads/Fitabase Data 4.12.16-5.12.16/h
## Rows: 22099 Columns: 3
## -- Column specification -------
## Delimiter: ","
## chr (1): ActivityHour
## dbl (2): Id, StepTotal
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
minuteCaloriesNarrow_merged = read_csv("/Users/vaishnavishankardevadig/Downloads/Fitabase Data 4.12.16-
```

```
## Rows: 1325580 Columns: 3
## -- Column specification ------
## Delimiter: ","
## chr (1): ActivityMinute
## dbl (2): Id, Calories
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
minuteCaloriesWide_merged = read_csv("/Users/vaishnavishankardevadig/Downloads/Fitabase Data 4.12.16-5.
## Rows: 21645 Columns: 62
## -- Column specification -------
## Delimiter: ","
## chr (1): ActivityHour
## dbl (61): Id, Calories00, Calories01, Calories02, Calories03, Calories04, Ca...
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
minuteIntensitiesNarrow_merged = read_csv("/Users/vaishnavishankardevadig/Downloads/Fitabase Data 4.12.
## Rows: 1325580 Columns: 3
## -- Column specification -----
## Delimiter: ","
## chr (1): ActivityMinute
## dbl (2): Id, Intensity
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
minuteIntensitiesWide_merged = read_csv("/Users/vaishnavishankardevadig/Downloads/Fitabase Data 4.12.16
## Rows: 21645 Columns: 62
## -- Column specification ------
## Delimiter: ","
## chr (1): ActivityHour
## dbl (61): Id, Intensity00, Intensity01, Intensity02, Intensity03, Intensity0...
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
minuteMETsNarrow_merged = read_csv("/Users/vaishnavishankardevadig/Downloads/Fitabase Data 4.12.16-5.12
## Rows: 1325580 Columns: 3
## Delimiter: ","
## chr (1): ActivityMinute
## dbl (2): Id, METs
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
minuteSleep_merged = read_csv("/Users/vaishnavishankardevadig/Downloads/Fitabase Data 4.12.16-5.12.16/m
## Rows: 188521 Columns: 4
## -- Column specification -------
## Delimiter: ","
```

```
## chr (1): date
## dbl (3): Id, value, logId
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
minuteStepsNarrow_merged = read_csv("/Users/vaishnavishankardevadig/Downloads/Fitabase Data 4.12.16-5.1
## Rows: 1325580 Columns: 3
## -- Column specification -------
## Delimiter: ","
## chr (1): ActivityMinute
## dbl (2): Id, Steps
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
minuteStepsWide_merged = read_csv("/Users/vaishnavishankardevadig/Downloads/Fitabase Data 4.12.16-5.12.
## Rows: 21645 Columns: 62
## Delimiter: ","
## chr (1): ActivityHour
## dbl (61): Id, Steps00, Steps01, Steps02, Steps03, Steps04, Steps05, Steps06,...
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
sleepDay_merged = read_csv("/Users/vaishnavishankardevadig/Downloads/Fitabase Data 4.12.16-5.12.16/slee
## Rows: 413 Columns: 5
## -- Column specification -------
## Delimiter: ","
## chr (1): SleepDay
## dbl (4): Id, TotalSleepRecords, TotalMinutesAsleep, TotalTimeInBed
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
weightLogInfo_merged = read_csv("/Users/vaishnavishankardevadig/Downloads/Fitabase Data 4.12.16-5.12.16
## Rows: 67 Columns: 8
## -- Column specification -------
## Delimiter: ","
## chr (1): Date
## dbl (6): Id, WeightKg, WeightPounds, Fat, BMI, LogId
## lgl (1): IsManualReport
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

# Checking for the dataset dailyActivity\_merged, converting the ActivityDate column from Character to Date type.

```
head(dailyActivity_merged)
```

```
## # A tibble: 6 x 15
##
             Id ActivityDate TotalSteps TotalDistance TrackerDistance
                                   <dbl>
##
          <dbl> <chr>
                                                 <dbl>
## 1 1503960366 4/12/2016
                                   13162
                                                  8.5
                                                                   8.5
## 2 1503960366 4/13/2016
                                   10735
                                                  6.97
                                                                   6.97
## 3 1503960366 4/14/2016
                                   10460
                                                  6.74
                                                                   6.74
## 4 1503960366 4/15/2016
                                    9762
                                                  6.28
                                                                   6.28
## 5 1503960366 4/16/2016
                                                  8.16
                                                                   8.16
                                   12669
## 6 1503960366 4/17/2016
                                    9705
                                                  6.48
                                                                   6.48
## # i 10 more variables: LoggedActivitiesDistance <dbl>,
       VeryActiveDistance <dbl>, ModeratelyActiveDistance <dbl>,
       LightActiveDistance <dbl>, SedentaryActiveDistance <dbl>,
## #
       VeryActiveMinutes <dbl>, FairlyActiveMinutes <dbl>,
       LightlyActiveMinutes <dbl>, SedentaryMinutes <dbl>, Calories <dbl>
## #
library(lubridate)
dailyActivity_merged$ActivityDate = as.Date(dailyActivity_merged$ActivityDate, format='%m/%d/%Y')
head(dailyActivity_merged)
## # A tibble: 6 x 15
             Id ActivityDate TotalSteps TotalDistance TrackerDistance
##
          <dbl> <date>
                                   <dbl>
                                                 <dbl>
                                                                  <dbl>
## 1 1503960366 2016-04-12
                                   13162
                                                  8.5
                                                                   8.5
## 2 1503960366 2016-04-13
                                   10735
                                                  6.97
                                                                   6.97
## 3 1503960366 2016-04-14
                                   10460
                                                  6.74
                                                                   6.74
## 4 1503960366 2016-04-15
                                    9762
                                                  6.28
                                                                   6.28
## 5 1503960366 2016-04-16
                                   12669
                                                  8.16
                                                                   8.16
## 6 1503960366 2016-04-17
                                    9705
                                                  6.48
                                                                   6.48
## # i 10 more variables: LoggedActivitiesDistance <dbl>,
       VeryActiveDistance <dbl>, ModeratelyActiveDistance <dbl>,
## #
       LightActiveDistance <dbl>, SedentaryActiveDistance <dbl>,
## #
       VeryActiveMinutes <dbl>, FairlyActiveMinutes <dbl>,
## #
       LightlyActiveMinutes <dbl>, SedentaryMinutes <dbl>, Calories <dbl>
```

### Checking for null values

```
nulldam = colSums(is.na(dailyActivity_merged))
nulldam
##
                          Ιd
                                          ActivityDate
                                                                      TotalSteps
##
                           0
##
              TotalDistance
                                       TrackerDistance LoggedActivitiesDistance
##
##
         VeryActiveDistance ModeratelyActiveDistance
                                                             LightActiveDistance
##
##
    SedentaryActiveDistance
                                     VeryActiveMinutes
                                                             FairlyActiveMinutes
##
##
       LightlyActiveMinutes
                                     SedentaryMinutes
                                                                        Calories
##
                                                                                0
```

## Changing the format for date in the datasets for daily calories, intensities and steps

```
dailyCalories_merged$ActivityDay = as.Date(dailyCalories_merged$ActivityDay, format='%m/%d/%Y')
dailyIntensities_merged$ActivityDay = as.Date(dailyIntensities_merged$ActivityDay, format='%m/%d/%Y')
dailySteps_merged$ActivityDay = as.Date(dailySteps_merged$ActivityDay, format='%m/%d/%Y')
head(dailyCalories_merged)
## # A tibble: 6 x 3
##
             Id ActivityDay Calories
##
          <dbl> <date>
                               <dbl>
## 1 1503960366 2016-04-12
                                1985
## 2 1503960366 2016-04-13
                                1797
## 3 1503960366 2016-04-14
                                1776
## 4 1503960366 2016-04-15
                                1745
## 5 1503960366 2016-04-16
                                1863
## 6 1503960366 2016-04-17
                                1728
head(dailyIntensities merged)
## # A tibble: 6 x 10
##
           Id ActivityDay SedentaryMinutes LightlyActiveMinutes FairlyActiveMinutes
##
       <dbl> <date>
                                     <dbl>
                                                           <dbl>
                                                                                <dbl>
## 1
     1.50e9 2016-04-12
                                       728
                                                             328
                                                                                   13
## 2
      1.50e9 2016-04-13
                                       776
                                                             217
                                                                                   19
## 3
      1.50e9 2016-04-14
                                       1218
                                                             181
                                                                                   11
      1.50e9 2016-04-15
                                       726
                                                             209
                                                                                   34
## 5
       1.50e9 2016-04-16
                                       773
                                                             221
                                                                                   10
       1.50e9 2016-04-17
                                       539
                                                             164
                                                                                   20
## # i 5 more variables: VeryActiveMinutes <dbl>, SedentaryActiveDistance <dbl>,
       LightActiveDistance <dbl>, ModeratelyActiveDistance <dbl>,
## #
       VeryActiveDistance <dbl>
head(dailySteps_merged)
## # A tibble: 6 x 3
##
            Id ActivityDay StepTotal
##
          <dbl> <date>
                                <dbl>
## 1 1503960366 2016-04-12
                                13162
## 2 1503960366 2016-04-13
                                10735
## 3 1503960366 2016-04-14
                                10460
## 4 1503960366 2016-04-15
                                 9762
## 5 1503960366 2016-04-16
                                12669
```

## Checking for null values

## 6 1503960366 2016-04-17

```
ndcm = colSums(is.na(dailyCalories_merged))
ndim = colSums(is.na(dailyIntensities_merged))
ndsm = colSums(is.na(dailySteps_merged))
print("dailyCalories_merged")
```

9705

```
## [1] "dailyCalories_merged"
```

```
ndcm
##
            Id ActivityDay
                               Calories
##
                          0
cat("\n")
print("dailyIntensities_merged")
## [1] "dailyIntensities_merged"
ndim
##
                          Id
                                           ActivityDay
                                                                 SedentaryMinutes
                           0
##
##
       LightlyActiveMinutes
                                   FairlyActiveMinutes
                                                               VeryActiveMinutes
##
##
    SedentaryActiveDistance
                                   LightActiveDistance ModeratelyActiveDistance
##
##
         VeryActiveDistance
##
cat("\n")
print("dailySteps_merged")
## [1] "dailySteps_merged"
ndsm
##
            Id ActivityDay
                               StepTotal
##
                          0
cat("\n")
```

# Converting the respective date and time columns to POSIX objects for the remaining datasets.

```
minuteCaloriesNarrow_merged$ActivityMinute <- as.POSIXct(minuteCaloriesNarrow_merged$ActivityMinute, format = "minuteIntensitiesNarrow_merged$ActivityMinute <- as.POSIXct(minuteIntensitiesNarrow_merged$ActivityMinute <- as.POSIXct(minuteIntensitiesNarrow_merged$ActivityMinute minuteIntensitiesWide_merged$ActivityMinute, format = "minuteMETsNarrow_merged$ActivityMinute <- as.POSIXct(minuteMETsNarrow_merged$ActivityMinute, format = "hourlyCalories_merged$ActivityMinute, format = "hourlyCalories_merged$ActivityHour <- as.POSIXct(hourlyCalories_merged$ActivityHour, format = "%m/%d/%y hourlyIntensities_merged$ActivityHour <- as.POSIXct(hourlyIntensities_merged$ActivityHour, format = "%m/%d/%y hourlyIntensities_merged$Time = as.POSIXct(heartrate_seconds_merged$Time, format='\%m/\%d/\%y \%H:\%M:\%S') minuteSleep_merged$date = as.POSIXct(minuteSleep_merged$date, format='\%m/\%d/\%y \%H:\%M:\%S') sleepDay_merged$SleepDay = as.POSIXct(sleepDay_merged$SleepDay, format='\%m/\%d/\%y \%H:\%M:\%S') weightLogInfo_merged$Date = as.POSIXct(weightLogInfo_merged$Date, format='\%m/\%d/\%y \%H:\%M:\%S') hourlySteps_merged$ActivityHour <- as.POSIXct(hourlySteps_merged$ActivityHour, format = "\%m/\%d/\%y \%I:\%M head(minuteCaloriesNarrow_merged)
```

```
## 3 1503960366 2016-04-12 00:02:00 0.786

## 4 1503960366 2016-04-12 00:03:00 0.786

## 5 1503960366 2016-04-12 00:04:00 0.786

## 6 1503960366 2016-04-12 00:05:00 0.944
```

#### head(minuteCaloriesWide\_merged)

```
## # A tibble: 6 x 62
                                    Calories00 Calories01 Calories02 Calories03
##
             Id ActivityHour
##
          <dbl> <dttm>
                                         <dbl>
                                                     <dbl>
                                                                <dbl>
                                                                           <dbl>
## 1 1503960366 2016-04-13 00:00:00
                                         1.89
                                                     2.20
                                                                0.944
                                                                           0.944
## 2 1503960366 2016-04-13 01:00:00
                                         0.786
                                                     0.786
                                                                0.786
                                                                           0.786
## 3 1503960366 2016-04-13 02:00:00
                                         0.786
                                                     0.786
                                                                0.786
                                                                           0.786
## 4 1503960366 2016-04-13 03:00:00
                                         0.786
                                                     0.786
                                                                0.786
                                                                           0.786
## 5 1503960366 2016-04-13 04:00:00
                                         0.786
                                                     0.786
                                                                0.786
                                                                           0.786
## 6 1503960366 2016-04-13 05:00:00
                                         0.786
                                                     0.786
                                                                0.786
                                                                           0.786
## # i 56 more variables: Calories04 <dbl>, Calories05 <dbl>, Calories06 <dbl>,
       Calories07 <dbl>, Calories08 <dbl>, Calories09 <dbl>, Calories10 <dbl>,
       Calories11 <dbl>, Calories12 <dbl>, Calories13 <dbl>, Calories14 <dbl>,
       Calories15 <dbl>, Calories16 <dbl>, Calories17 <dbl>, Calories18 <dbl>,
       Calories19 <dbl>, Calories20 <dbl>, Calories21 <dbl>, Calories22 <dbl>,
       Calories23 <dbl>, Calories24 <dbl>, Calories25 <dbl>, Calories26 <dbl>,
## #
       Calories27 <dbl>, Calories28 <dbl>, Calories29 <dbl>, Calories30 <dbl>, ...
```

#### head(minuteIntensitiesNarrow\_merged)

```
## # A tibble: 6 x 3
##
             Id ActivityMinute
                                     Intensity
          <dbl> <dttm>
                                         <dbl>
## 1 1503960366 2016-04-12 00:00:00
                                             0
## 2 1503960366 2016-04-12 00:01:00
## 3 1503960366 2016-04-12 00:02:00
                                             0
## 4 1503960366 2016-04-12 00:03:00
## 5 1503960366 2016-04-12 00:04:00
                                             0
## 6 1503960366 2016-04-12 00:05:00
                                             0
```

#### head(minuteIntensitiesWide\_merged)

```
## # A tibble: 6 x 62
                                    Intensity00 Intensity01 Intensity02 Intensity03
##
             Id ActivityHour
          <dbl> <dttm>
                                           <dbl>
                                                       <dbl>
                                                                   <dbl>
                                                                                <dbl>
## 1 1503960366 2016-04-13 00:00:00
                                               1
                                                           1
                                                                        0
                                                                                    0
## 2 1503960366 2016-04-13 01:00:00
                                               0
                                                           0
                                                                        0
                                                                                    0
                                                                        0
                                                                                    0
## 3 1503960366 2016-04-13 02:00:00
                                               0
                                                           0
                                                           0
                                                                        0
## 4 1503960366 2016-04-13 03:00:00
                                               0
                                                                                    0
## 5 1503960366 2016-04-13 04:00:00
                                               0
                                                           0
                                                                        0
                                                                                    0
## 6 1503960366 2016-04-13 05:00:00
                                               0
                                                           0
                                                                        0
## # i 56 more variables: Intensity04 <dbl>, Intensity05 <dbl>, Intensity06 <dbl>,
       Intensity07 <dbl>, Intensity08 <dbl>, Intensity09 <dbl>, Intensity10 <dbl>,
       Intensity11 <dbl>, Intensity12 <dbl>, Intensity13 <dbl>, Intensity14 <dbl>,
## #
## #
       Intensity15 <dbl>, Intensity16 <dbl>, Intensity17 <dbl>, Intensity18 <dbl>,
       Intensity19 <dbl>, Intensity20 <dbl>, Intensity21 <dbl>, Intensity22 <dbl>,
## #
## #
       Intensity23 <dbl>, Intensity24 <dbl>, Intensity25 <dbl>, Intensity26 <dbl>,
## #
       Intensity27 <dbl>, Intensity28 <dbl>, Intensity29 <dbl>, ...
```

```
head(minuteMETsNarrow_merged)
## # A tibble: 6 x 3
##
                                      METs
             Id ActivityMinute
##
          <dbl> <dttm>
                                     <dbl>
## 1 1503960366 2016-04-12 00:00:00
                                        10
## 2 1503960366 2016-04-12 00:01:00
## 3 1503960366 2016-04-12 00:02:00
                                        10
## 4 1503960366 2016-04-12 00:03:00
                                        10
## 5 1503960366 2016-04-12 00:04:00
                                        10
## 6 1503960366 2016-04-12 00:05:00
                                        12
head(hourlyCalories_merged)
## # A tibble: 6 x 3
##
             Id ActivityHour
                                     Calories
##
          <dbl> <dttm>
                                        <dbl>
## 1 1503960366 2016-04-12 00:00:00
                                           81
## 2 1503960366 2016-04-12 01:00:00
                                           61
## 3 1503960366 2016-04-12 02:00:00
                                           59
## 4 1503960366 2016-04-12 03:00:00
                                           47
## 5 1503960366 2016-04-12 04:00:00
                                           48
## 6 1503960366 2016-04-12 05:00:00
                                           48
head(hourlyIntensities_merged)
## # A tibble: 6 x 4
##
                                     TotalIntensity AverageIntensity
             Id ActivityHour
          <dbl> <dttm>
                                              <dbl>
                                                                <dbl>
## 1 1503960366 2016-04-12 00:00:00
                                                                0.333
                                                 20
## 2 1503960366 2016-04-12 01:00:00
                                                  8
                                                                0.133
## 3 1503960366 2016-04-12 02:00:00
                                                  7
                                                                0.117
## 4 1503960366 2016-04-12 03:00:00
                                                  0
                                                               0
## 5 1503960366 2016-04-12 04:00:00
                                                  0
                                                                0
## 6 1503960366 2016-04-12 05:00:00
                                                  0
                                                                0
head(hourlySteps_merged)
## # A tibble: 6 x 3
##
                                     StepTotal
             Id ActivityHour
##
          <dbl> <dttm>
                                        <dbl>
## 1 1503960366 2016-04-12 00:00:00
                                           373
## 2 1503960366 2016-04-12 01:00:00
                                           160
## 3 1503960366 2016-04-12 02:00:00
                                           151
## 4 1503960366 2016-04-12 03:00:00
                                             0
## 5 1503960366 2016-04-12 04:00:00
                                             0
## 6 1503960366 2016-04-12 05:00:00
                                             0
head(heartrate_seconds_merged)
## # A tibble: 6 x 3
##
                                     Value
             Id Time
##
          <dbl> <dttm>
                                     <dbl>
## 1 2022484408 2016-04-12 07:21:00
                                        97
## 2 2022484408 2016-04-12 07:21:05
                                       102
## 3 2022484408 2016-04-12 07:21:10
                                      105
```

103

## 4 2022484408 2016-04-12 07:21:20

```
## 5 2022484408 2016-04-12 07:21:25
                                       101
## 6 2022484408 2016-04-12 07:22:05
                                        95
head(minuteSleep_merged)
## # A tibble: 6 x 4
##
             Id date
                                     value
                                                  logId
##
          <dbl> <dttm>
                                     <dbl>
                                                  <dbl>
## 1 1503960366 2016-04-12 02:47:30
                                         3 11380564589
## 2 1503960366 2016-04-12 02:48:30
                                         2 11380564589
## 3 1503960366 2016-04-12 02:49:30
                                         1 11380564589
## 4 1503960366 2016-04-12 02:50:30
                                         1 11380564589
## 5 1503960366 2016-04-12 02:51:30
                                         1 11380564589
## 6 1503960366 2016-04-12 02:52:30
                                         1 11380564589
head(sleepDay_merged)
## # A tibble: 6 x 5
##
         Id SleepDay
                                 TotalSleepRecords TotalMinutesAsleep TotalTimeInBed
##
      <dbl> <dttm>
                                             <dbl>
                                                                 <dbl>
                                                                                 <dbl>
## 1 1.50e9 2016-04-12 12:00:00
                                                  1
                                                                   327
                                                                                   346
## 2 1.50e9 2016-04-13 12:00:00
                                                  2
                                                                   384
                                                                                   407
## 3 1.50e9 2016-04-15 12:00:00
                                                  1
                                                                   412
                                                                                   442
## 4 1.50e9 2016-04-16 12:00:00
                                                  2
                                                                                   367
                                                                   340
## 5 1.50e9 2016-04-17 12:00:00
                                                  1
                                                                   700
                                                                                   712
## 6 1.50e9 2016-04-19 12:00:00
                                                  1
                                                                   304
                                                                                   320
head(weightLogInfo_merged)
## # A tibble: 6 x 8
##
            Id Date
                                    WeightKg WeightPounds
                                                             Fat
                                                                   BMI IsManualReport
##
         <dbl> <dttm>
                                       <dbl>
                                                     <dbl> <dbl> <dbl> <lgl>
                                        52.6
## 1
        1.50e9 2016-05-02 11:59:59
                                                      116.
                                                              22
                                                                  22.6 TRUE
        1.50e9 2016-05-03 11:59:59
                                        52.6
                                                      116.
                                                              NA
                                                                  22.6 TRUE
## 3
        1.93e9 2016-04-13 01:08:52
                                       134.
                                                      294.
                                                              NA
                                                                  47.5 FALSE
        2.87e9 2016-04-21 11:59:59
## 4
                                                      125.
                                                              NA
                                        56.7
                                                                  21.5 TRUE
## 5
        2.87e9 2016-05-12 11:59:59
                                        57.3
                                                      126.
                                                              NA
                                                                  21.7 TRUE
## 6
        4.32e9 2016-04-17 11:59:59
                                        72.4
                                                      160.
                                                              25
                                                                  27.5 TRUE
## # i 1 more variable: LogId <dbl>
#Checking for null values
colSums(is.na(hourlyCalories merged))
##
             Id ActivityHour
                                  Calories
##
              0
                            0
colSums(is.na(hourlyIntensities_merged))
##
                 Id
                         ActivityHour
                                        TotalIntensity AverageIntensity
##
                                                      0
colSums(is.na(hourlySteps_merged))
##
             Id ActivityHour
                                 StepTotal
##
              0
                                         0
colSums(is.na(minuteCaloriesNarrow_merged))
```

Calories

Id ActivityMinute

##

```
##
                                                 0
colSums(is.na(minuteCaloriesWide_merged))
                                               Calories01
                                                             Calories02
                                                                           Calories03
##
             Id ActivityHour
                                 Calories00
##
##
     Calories04
                   Calories05
                                 Calories06
                                               Calories07
                                                             Calories08
                                                                           Calories09
##
                             0
                                           0
     Calories10
                   Calories11
                                 Calories12
                                               Calories13
                                                             Calories14
                                                                           Calories15
##
##
                                               Calories19
                                                             Calories20
                                                                           Calories21
##
     Calories16
                   Calories17
                                 Calories18
##
##
     Calories22
                   Calories23
                                 Calories24
                                               Calories25
                                                             Calories26
                                                                           Calories27
##
               0
                             0
##
     Calories28
                   Calories29
                                 Calories30
                                               Calories31
                                                             Calories32
                                                                           Calories33
##
               0
                             0
                                           0
                                                                                     C
##
     Calories34
                   Calories35
                                 Calories36
                                               Calories37
                                                             Calories38
                                                                           Calories39
##
               0
     Calories40
                   Calories41
                                 Calories42
                                               Calories43
                                                             Calories44
                                                                           Calories45
##
##
     Calories46
                                                             Calories50
##
                   Calories47
                                 Calories48
                                               Calories49
                                                                           Calories51
##
                                           0
##
     Calories52
                   Calories53
                                 Calories54
                                               Calories55
                                                             Calories56
                                                                           Calories57
##
                                           0
                             0
     Calories58
                   Calories59
##
##
colSums(is.na(minuteIntensitiesNarrow_merged))
##
                Id ActivityMinute
                                         Intensity
colSums(is.na(minuteIntensitiesWide merged))
              Id ActivityHour
                               Intensity00
                                              Intensity01
                                                           Intensity02
                                                                          Intensity03
##
##
##
    Intensity04
                  Intensity05
                                Intensity06
                                              Intensity07
                                                            Intensity08
                                                                          Intensity09
##
    Intensity10
                  Intensity11
                                Intensity12
                                              Intensity13
                                                            Intensity14
##
##
##
    Intensity16
                  Intensity17
                                Intensity18
                                              Intensity19
                                                            Intensity20
                                                                          Intensity21
##
##
    Intensity22
                  Intensity23
                                Intensity24
                                              Intensity25
                                                            Intensity26
                                                                          Intensity27
##
                                Intensity30
    Intensity28
                  Intensity29
##
                                              Intensity31
                                                            Intensity32
                                                                          Intensity33
##
                  Intensity35
##
    Intensity34
                                Intensity36
                                              Intensity37
                                                            Intensity38
                                                                          Intensity39
##
##
    Intensity40
                  Intensity41
                                Intensity42
                                              Intensity43
                                                            Intensity44
                                                                          Intensity45
##
                                                                          Intensity51
##
                  Intensity47
                                Intensity48
                                              Intensity49
                                                            Intensity50
    Intensity46
##
    Intensity52
##
                  Intensity53
                                Intensity54
                                              Intensity55
                                                            Intensity56
                                                                          Intensitv57
##
    Intensity58
##
                 Intensity59
##
```

```
colSums(is.na(minuteMETsNarrow_merged))
##
                                             METs
               Id ActivityMinute
##
                0
                                                0
colSums(is.na(heartrate_seconds_merged))
##
      Ιd
          Time Value
##
colSums(is.na(minuteSleep_merged))
##
          date value logId
##
       0
             0
                    0
colSums(is.na(sleepDay_merged))
##
                    Ιd
                                 SleepDay
                                            TotalSleepRecords TotalMinutesAsleep
##
                                                             0
##
       TotalTimeInBed
##
colSums(is.na(weightLogInfo_merged))
##
                                                                              Fat
               Ιd
                             Date
                                         WeightKg
                                                    WeightPounds
##
                0
                                0
                                                                               65
##
              BMI IsManualReport
                                            LogId
#Summary of a few datasets in order to identify general trends
summary(dailyActivity merged)
##
          Id
                          ActivityDate
                                                 TotalSteps
                                                                TotalDistance
##
    Min.
           :1.504e+09
                         Min.
                                :2016-04-12
                                               Min.
                                                      :
                                                           0
                                                                Min.
                                                                       : 0.000
   1st Qu.:2.320e+09
                         1st Qu.:2016-04-19
                                                                1st Qu.: 2.620
                                               1st Qu.: 3790
  Median :4.445e+09
                         Median :2016-04-26
                                               Median : 7406
                                                                Median : 5.245
  Mean
           :4.855e+09
                                :2016-04-26
                                               Mean
                                                      : 7638
                                                                Mean
                                                                       : 5.490
##
                         Mean
                                               3rd Qu.:10727
##
    3rd Qu.:6.962e+09
                         3rd Qu.:2016-05-04
                                                                3rd Qu.: 7.713
                                :2016-05-12
##
  Max.
           :8.878e+09
                         Max.
                                               Max.
                                                      :36019
                                                                Max.
                                                                       :28.030
##
    {\tt TrackerDistance} \quad {\tt LoggedActivitiesDistance} \quad {\tt VeryActiveDistance}
##
    Min.
           : 0.000
                      Min.
                             :0.0000
                                                Min.
                                                       : 0.000
    1st Qu.: 2.620
                      1st Qu.:0.0000
                                                1st Qu.: 0.000
##
    Median : 5.245
                      Median : 0.0000
                                                Median : 0.210
##
   Mean
          : 5.475
                      Mean
                             :0.1082
                                                Mean
                                                       : 1.503
##
    3rd Qu.: 7.710
                      3rd Qu.:0.0000
                                                3rd Qu.: 2.053
##
    Max.
           :28.030
                      Max.
                             :4.9421
                                                Max.
                                                        :21.920
    ModeratelyActiveDistance LightActiveDistance SedentaryActiveDistance
   Min.
           :0.0000
                                     : 0.000
                                                           :0.000000
##
                              Min.
                                                   Min.
##
    1st Qu.:0.0000
                              1st Qu.: 1.945
                                                   1st Qu.:0.000000
##
   Median :0.2400
                              Median : 3.365
                                                   Median :0.000000
   Mean
           :0.5675
                              Mean
                                    : 3.341
                                                   Mean
                                                           :0.001606
                              3rd Qu.: 4.782
##
    3rd Qu.:0.8000
                                                   3rd Qu.:0.000000
##
   Max.
           :6.4800
                              Max.
                                     :10.710
                                                   Max.
                                                           :0.110000
   VeryActiveMinutes FairlyActiveMinutes LightlyActiveMinutes SedentaryMinutes
  Min.
           : 0.00
                      Min.
                             : 0.00
                                            Min.
                                                   : 0.0
                                                                  Min.
                                                                         :
   1st Qu.:
                       1st Qu.:
                                            1st Qu.:127.0
##
              0.00
                                 0.00
                                                                  1st Qu.: 729.8
                      Median: 6.00
    Median: 4.00
                                            Median :199.0
                                                                  Median :1057.5
```

```
: 21.16
                               : 13.56
                                                     :192.8
                                                                            : 991.2
##
    Mean
                       Mean
                                             Mean
                                                                    Mean
    3rd Qu.: 32.00
                                             3rd Qu.:264.0
                                                                    3rd Qu.:1229.5
##
                       3rd Qu.: 19.00
           :210.00
                                                     :518.0
##
    Max.
                       Max.
                              :143.00
                                             Max.
                                                                    Max.
                                                                            :1440.0
##
       Calories
##
    Min.
           :
##
    1st Qu.:1828
   Median:2134
##
   Mean
            :2304
##
    3rd Qu.:2793
  {\tt Max.}
            :4900
```

As per studies, on an average, an adult woman should burn about 2000 calories a day, while an adult man should be burning about 2500 calories a day.

The 'Calories' column shows the mean value to be 2304, which is above average for adult women but below average for adult male.

Sedentary Minutes shows the mean value to be 991.2, which is about 16.5 hours. This value is extremely high and has scope to be reduced.

```
summary(sleepDay_merged)
```

```
##
          Id
                           SleepDay
                                                          TotalSleepRecords
##
    Min.
           :1.504e+09
                        Min.
                                :2016-04-12 12:00:00.00
                                                          Min.
                                                                  :1.000
##
    1st Qu.:3.977e+09
                        1st Qu.:2016-04-19 12:00:00.00
                                                          1st Qu.:1.000
  Median :4.703e+09
                        Median :2016-04-27 12:00:00.00
                                                          Median :1.000
  Mean
           :5.001e+09
                        Mean
                                :2016-04-27 00:40:05.80
                                                          Mean
                                                                  :1.119
##
    3rd Qu.:6.962e+09
                        3rd Qu.:2016-05-04 12:00:00.00
                                                          3rd Qu.:1.000
           :8.792e+09
                                :2016-05-12 12:00:00.00
##
  Max.
                        Max.
                                                          Max.
                                                                  :3.000
  TotalMinutesAsleep TotalTimeInBed
           : 58.0
##
  Min.
                       Min.
                               : 61.0
##
    1st Qu.:361.0
                       1st Qu.:403.0
## Median:433.0
                       Median :463.0
                               :458.6
  Mean
           :419.5
                       Mean
##
    3rd Qu.:490.0
                       3rd Qu.:526.0
    Max.
           :796.0
                       Max.
                               :961.0
```

The mean total minutes asleep is  $6.99 \sim 7$  hours, which is also slightly below the accepted average of 8 hours. However, this is an acceptable number.

#### summary(heartrate seconds merged)

```
##
          Τd
                             Time
                                                              Value
##
  Min.
           :2.022e+09
                        Min.
                                :2016-04-12 01:00:00.00
                                                          Min.
                                                                 : 36.00
                                                          1st Qu.: 63.00
                        1st Qu.:2016-04-19 03:04:40.00
##
   1st Qu.:4.388e+09
  Median :5.554e+09
                        Median :2016-04-26 11:31:10.00
                                                          Median: 73.00
                                :2016-04-26 13:54:16.31
                                                                 : 77.33
## Mean
           :5.514e+09
                        Mean
                                                          Mean
##
   3rd Qu.:6.962e+09
                        3rd Qu.:2016-05-04 04:34:20.00
                                                          3rd Qu.: 88.00
                                :2016-05-12 12:59:55.00
                                                                 :203.00
## Max.
           :8.878e+09
                        Max.
                                                          Max.
```

Changing the various column names for time and date as ActivityDate to facilitate merging

```
colnames(sleepDay_merged)[colnames(sleepDay_merged) == "SleepDay"] <- "ActivityDate"
colnames(heartrate_seconds_merged)[colnames(heartrate_seconds_merged) == "Time"] <- "ActivityDate"</pre>
```

```
colnames(weightLogInfo_merged)[colnames(weightLogInfo_merged) == "Date"] <- "ActivityDate"
head(dailyActivity_merged)</pre>
```

```
## # A tibble: 6 x 15
             Id ActivityDate TotalSteps TotalDistance TrackerDistance
##
##
          <dbl> <date>
                                  <dbl>
                                                <dbl>
                                                                 <dbl>
## 1 1503960366 2016-04-12
                                  13162
                                                 8.5
                                                                  8.5
## 2 1503960366 2016-04-13
                                  10735
                                                 6.97
                                                                  6.97
## 3 1503960366 2016-04-14
                                  10460
                                                 6.74
                                                                  6.74
## 4 1503960366 2016-04-15
                                   9762
                                                 6.28
                                                                  6.28
## 5 1503960366 2016-04-16
                                  12669
                                                 8.16
                                                                 8.16
## 6 1503960366 2016-04-17
                                   9705
                                                 6.48
                                                                  6.48
## # i 10 more variables: LoggedActivitiesDistance <dbl>,
       VeryActiveDistance <dbl>, ModeratelyActiveDistance <dbl>,
## #
       LightActiveDistance <dbl>, SedentaryActiveDistance <dbl>,
## #
       VeryActiveMinutes <dbl>, FairlyActiveMinutes <dbl>,
## #
       LightlyActiveMinutes <dbl>, SedentaryMinutes <dbl>, Calories <dbl>
```

#### head(sleepDay\_merged)

## 7	# A tibbl	le: 6 x 5			
##	Id	ActivityDate	TotalSleepRecords	${\tt TotalMinutesAsleep}$	${\tt TotalTimeInBed}$
##	<dbl></dbl>	<dttm></dttm>	<dbl></dbl>	<dbl></dbl>	<dbl></dbl>
## :	1 1.50e9	2016-04-12 12:00:00	1	327	346
## 2	2 1.50e9	2016-04-13 12:00:00	2	384	407
## 3	3 1.50e9	2016-04-15 12:00:00	1	412	442
## 4	4 1.50e9	2016-04-16 12:00:00	2	340	367
## !	5 1.50e9	2016-04-17 12:00:00	1	700	712
## (	6 1.50e9	2016-04-19 12:00:00	1	304	320

#### head(weightLogInfo\_merged)

## # A	tibble:	6 x 8					
##	Id	ActivityDate	WeightKg	${\tt WeightPounds}$	Fat	BMI	${\tt IsManualReport}$
##	<dbl></dbl>	<dttm></dttm>	<dbl></dbl>	<dbl></dbl>	<dbl></dbl>	<dbl></dbl>	<lg1></lg1>
## 1	1.50e9	2016-05-02 11:59:59	52.6	116.	22	22.6	TRUE
## 2	1.50e9	2016-05-03 11:59:59	52.6	116.	NA	22.6	TRUE
## 3	1.93e9	2016-04-13 01:08:52	134.	294.	NA	47.5	FALSE
## 4	2.87e9	2016-04-21 11:59:59	56.7	125.	NA	21.5	TRUE
## 5	2.87e9	2016-05-12 11:59:59	57.3	126.	NA	21.7	TRUE
## 6	4.32e9	2016-04-17 11:59:59	72.4	160.	25	27.5	TRUE
## # i	1 more	variable: LogId <dbl< td=""><td>&gt;</td><td></td><td></td><td></td><td></td></dbl<>	>				

### head(heartrate\_seconds\_merged)

```
## # A tibble: 6 x 3
##
             Id ActivityDate
                                    Value
##
          <dbl> <dttm>
                                    <dbl>
## 1 2022484408 2016-04-12 07:21:00
                                       97
## 2 2022484408 2016-04-12 07:21:05
                                      102
## 3 2022484408 2016-04-12 07:21:10
                                     105
## 4 2022484408 2016-04-12 07:21:20
                                      103
## 5 2022484408 2016-04-12 07:21:25
                                      101
## 6 2022484408 2016-04-12 07:22:05
                                       95
```

#### Separating date and time columns

```
library(tidyverse)
sleepnew_df = separate(sleepDay_merged, ActivityDate, into = c("ActivityDate", "Time"), sep = " ")
weightnew_df = separate(weightLogInfo_merged, ActivityDate, into = c("ActivityDate", "Time"), sep = " "
heartnew_df = separate(heartrate_seconds_merged, ActivityDate, into = c("ActivityDate", "Time"), sep =
stepsnew_df = separate(hourlySteps_merged, ActivityHour, into = c("ActivityDate", "Time"), sep = " ")
head(sleepnew_df)
## # A tibble: 6 x 6
          Id ActivityDate Time TotalSleepRecords TotalMinutesAsleep TotalTimeInBed
##
##
       <dbl> <chr>
                         <chr>
                                            <dbl>
                                                               <dbl>
                                                                              <dbl>
## 1 1.50e9 2016-04-12
                         12:0~
                                                1
                                                                 327
                                                                                346
## 2 1.50e9 2016-04-13
                        12:0~
                                                2
                                                                 384
                                                                                407
## 3 1.50e9 2016-04-15
                        12:0~
                                                1
                                                                 412
                                                                                442
                                                                                367
## 4 1.50e9 2016-04-16 12:0~
                                                2
                                                                 340
## 5 1.50e9 2016-04-17
                         12:0~
                                                1
                                                                 700
                                                                                712
## 6 1.50e9 2016-04-19
                                                                 304
                                                                                320
                         12:0~
                                                1
head(weightnew_df)
## # A tibble: 6 x 9
            Id ActivityDate Time WeightKg WeightPounds
                                                                 BMI IsManualReport
##
                                                           Fat
##
          <dbl> <chr>
                            <chr>
                                      <dbl>
                                                   <dbl> <dbl> <dbl> <lgl>
## 1 1503960366 2016-05-02
                            11:5~
                                      52.6
                                                   116.
                                                            22
                                                               22.6 TRUE
## 2 1503960366 2016-05-03 11:5~
                                      52.6
                                                   116.
                                                            NA 22.6 TRUE
## 3 1927972279 2016-04-13
                            01:0~
                                     134.
                                                   294.
                                                            NA 47.5 FALSE
## 4 2873212765 2016-04-21
                                      56.7
                                                   125.
                                                           NA 21.5 TRUE
                           11:5~
## 5 2873212765 2016-05-12
                           11:5~
                                      57.3
                                                   126.
                                                            NA 21.7 TRUE
## 6 4319703577 2016-04-17 11:5~
                                      72.4
                                                   160.
                                                            25 27.5 TRUE
## # i 1 more variable: LogId <dbl>
head(heartnew_df)
## # A tibble: 6 x 4
##
            Id ActivityDate Time
                                      Value
                                      <dbl>
##
          <dbl> <chr>
                             <chr>>
## 1 2022484408 2016-04-12
                            07:21:00
                                        97
## 2 2022484408 2016-04-12
                            07:21:05
                                        102
## 3 2022484408 2016-04-12
                            07:21:10
                                       105
## 4 2022484408 2016-04-12
                            07:21:20
                                        103
## 5 2022484408 2016-04-12
                            07:21:25
                                        101
## 6 2022484408 2016-04-12
                            07:22:05
                                        95
head(stepsnew_df)
## # A tibble: 6 x 4
                                      StepTotal
            Id ActivityDate Time
##
          <dbl> <chr>
                                          <dbl>
                             <chr>
## 1 1503960366 2016-04-12
                                            373
                            00:00:00
## 2 1503960366 2016-04-12
                            01:00:00
                                            160
## 3 1503960366 2016-04-12
                            02:00:00
                                            151
## 4 1503960366 2016-04-12
                                             0
                            03:00:00
## 5 1503960366 2016-04-12
                            04:00:00
                                             0
## 6 1503960366 2016-04-12
                            05:00:00
                                             0
```

## Merging the Activity and Sleep datasets

```
final = merge(dailyActivity_merged, sleepnew_df, by = c('Id', 'ActivityDate'))
final
```

##		Τd	ActivityDate	TotalStens	TotalDistance	TrackerDistance
##	1	1503960366	2016-04-12	13162	8.50	8.50
##		1503960366	2016-04-13	10735	6.97	6.97
	3	1503960366	2016-04-15	9762	6.28	6.28
	4	1503960366	2016-04-16	12669	8.16	8.16
	5	1503960366	2016-04-17	9705	6.48	6.48
	6	1503960366	2016-04-19	15506	9.88	9.88
	7	1503960366	2016-04-20	10544	6.68	6.68
	8	1503960366	2016-04-21	9819	6.34	6.34
	9	1503960366	2016-04-21	14371	9.04	9.04
	10	1503960366	2016-04-24	10039	6.41	6.41
	11	1503960366	2016-04-24	15355	9.80	9.80
	12	1503960366	2016-04-26	13755	8.79	8.79
	13	1503960366	2016-04-28	13154	8.53	8.53
	14	1503960366	2016-04-28	11181	7.15	7.15
	15	1503960366	2016-04-30 2016-05-01	14673	9.25	9.25
	16	1503960366		10602	6.81	6.81
	17	1503960366	2016-05-02	14727	9.71	9.71
	18	1503960366	2016-05-03	15103	9.66	9.66
##	19	1503960366	2016-05-05	14070	8.90	8.90
##	20	1503960366	2016-05-06	12159	8.03	8.03
##	21	1503960366	2016-05-07	11992	7.71	7.71
##	22	1503960366	2016-05-08	10060	6.58	6.58
	23	1503960366	2016-05-09	12022	7.72	7.72
##	24	1503960366	2016-05-10	12207	7.77	7.77
##	25	1503960366	2016-05-11	12770	8.13	8.13
##	26	1644430081	2016-04-29	3176	2.31	2.31
	27	1644430081	2016-04-30	18213	13.24	13.24
	28	1644430081	2016-05-02	3758	2.73	2.73
	29	1644430081	2016-05-08	6724	4.89	4.89
	30	1844505072	2016-04-15	3844	2.54	2.54
	31	1844505072	2016-04-30	4014	2.67	2.67
	32	1844505072	2016-05-01	2573	1.70	1.70
	33	1927972279	2016-04-12	678	0.47	0.47
	34	1927972279	2016-04-13	356	0.25	0.25
	35	1927972279	2016-04-15	980	0.68	0.68
	36	1927972279	2016-04-26	3761	2.60	2.60
	37	1927972279	2016-04-28	1675	1.16	1.16
	38	2026352035	2016-04-12	4414	2.74	2.74
	39	2026352035	2016-04-13	4993	3.10	3.10
	40	2026352035	2016-04-14	3335	2.07	2.07
	41	2026352035	2016-04-15	3821	2.37	2.37
	42	2026352035	2016-04-16	2547	1.58	1.58
	43	2026352035	2016-04-17	838	0.52	0.52
	44	2026352035	2016-04-19	2424	1.50	1.50
	45	2026352035	2016-04-20	7222	4.48	4.48
##	46	2026352035	2016-04-21	2467	1.53	1.53
##	47	2026352035	2016-04-22	2915	1.81	1.81
##	48	2026352035	2016-04-23	12357	7.71	7.71

##	49	2026352035	2016-04-24	3490	2.16	2.16
##	50	2026352035	2016-04-25	6017	3.73	3.73
##	51	2026352035	2016-04-27	6088	3.77	3.77
##	52	2026352035	2016-04-28	6375	3.95	3.95
##	53	2026352035	2016-04-29	7604	4.71	4.71
##	54	2026352035	2016-04-30	4729	2.93	2.93
##	55	2026352035	2016-05-01	3609	2.28	2.28
##	56	2026352035	2016-05-02	7018	4.35	4.35
##	57	2026352035	2016-05-04	6564	4.07	4.07
##	58	2026352035	2016-05-05	12167	7.54	7.54
##	59	2026352035	2016-05-06	8198	5.08	5.08
##	60	2026352035	2016-05-07	4193	2.60	2.60
##	61	2026352035	2016-05-08	5528	3.45	3.45
##	62	2026352035	2016-05-09	10685	6.62	6.62
##	63	2026352035	2016-05-10	254	0.16	0.16
##	64	2026352035	2016-05-11	8580	5.32	5.32
##	65	2026352035	2016-05-12	8891	5.51	5.51
##	66	2320127002	2016-04-23	5079	3.42	3.42
##	67	2347167796	2016-04-13	10352	7.01	7.01
##	68	2347167796	2016-04-14	10129	6.70	6.70
##	69	2347167796	2016-04-15	10465	6.92	6.92
##	70	2347167796	2016-04-17	5472	3.62	3.62
##	71	2347167796	2016-04-18	8247	5.45	5.45
##	72	2347167796	2016-04-19	6711	4.44	4.44
##	73	2347167796	2016-04-21	10080	6.75	6.75
##	74	2347167796	2016-04-22	7804	5.16	5.16
##	75	2347167796	2016-04-23	16901	11.37	11.37
##	76	2347167796	2016-04-24	9471	6.26	6.26
##	77	2347167796	2016-04-25	9482	6.38	6.38
##	78	2347167796	2016-04-26	5980	3.95	3.95
##	79	2347167796	2016-04-27	11423	7.58	7.58
	80	2347167796	2016-04-28	5439	3.60	3.60
	81	2347167796	2016-04-29	42	0.03	0.03
##	82	3977333714	2016-04-12	8856	5.98	5.98
	83	3977333714	2016-04-13	10035	6.71	6.71
	84	3977333714	2016-04-14	7641	5.11	5.11
	85	3977333714	2016-04-15	9010	6.06	6.06
##	86	3977333714	2016-04-16	13459	9.00	9.00
	87	3977333714	2016-04-17	10415	6.97	6.97
	88	3977333714	2016-04-18	11663	7.80	7.80
	89	3977333714	2016-04-19	12414	8.78	8.78
##	90	3977333714	2016-04-20	11658	7.83	7.83
	91	3977333714	2016-04-21	6093	4.08	4.08
	92	3977333714	2016-04-22	8911	5.96	5.96
	93	3977333714	2016-04-23	12058	8.07	8.07
	94	3977333714	2016-04-24	14112	10.00	10.00
	95	3977333714	2016-04-25	11177	8.48	8.48
	96	3977333714	2016-04-26	11388	7.62	7.62
	97	3977333714	2016-04-27	7193	5.04	5.04
	98	3977333714	2016-04-28	7114	4.88	4.88
	99	3977333714	2016-04-29	10645	7.75	7.75
		3977333714	2016-04-30	13238	9.20	9.20
		3977333714	2016-05-01	10414	7.07	7.07
		3977333714	2016-05-02	16520	11.05	11.05
			00 02	<b></b> -	•	

##	102	3977333714	2016-05-03	14335	9.59	9.59
##		3977333714	2016-05-04	13559	9.44	9.44
##		3977333714	2016-05-05	12312	8.58	8.58
##		3977333714	2016-05-06	11677	8.28	8.28
##		3977333714	2016-05-07	11550	7.73	7.73
##		3977333714	2016-05-08	13585	9.09	9.09
##		3977333714	2016-05-10	13072	8.78	8.78
##		4020332650	2016-04-12	8539	6.12	6.12
##		4020332650	2016-04-16	1982	1.42	1.42
##	112	4020332650	2016-05-03	4496	3.22	3.22
##	113	4020332650	2016-05-04	10252	7.35	7.35
##		4020332650	2016-05-05	11728	8.43	8.43
##	115	4020332650	2016-05-06	4369	3.13	3.13
##	116	4020332650	2016-05-08	5862	4.20	4.20
##	117	4020332650	2016-05-10	5546	3.98	3.98
##	118	4319703577	2016-04-14	10210	6.88	6.88
##	119	4319703577	2016-04-15	5664	3.80	3.80
##	120	4319703577	2016-04-16	4744	3.18	3.18
##	121	4319703577	2016-04-18	2276	1.55	1.55
##	122	4319703577	2016-04-19	8925	5.99	5.99
##	123	4319703577	2016-04-20	8954	6.01	6.01
##	124	4319703577	2016-04-21	3702	2.48	2.48
##	125	4319703577	2016-04-22	4500	3.02	3.02
##	126	4319703577	2016-04-23	4935	3.31	3.31
##	127	4319703577	2016-04-24	4081	2.74	2.74
##		4319703577	2016-04-25	9259	6.21	6.21
##		4319703577	2016-04-26	9899	6.64	6.64
##		4319703577	2016-04-27	10780	7.23	7.23
##		4319703577	2016-04-28	10817	7.28	7.28
##		4319703577	2016-04-29	7990	5.36	5.36
##		4319703577	2016-04-30	8221	5.52	5.52
##		4319703577	2016-05-01	1251	0.84	0.84
##		4319703577	2016-05-02	9261	6.24	6.24
##		4319703577	2016-05-03	9648	6.47	6.47
##		4319703577	2016-05-06	9524	6.42	6.42
##		4319703577	2016-05-06	7937	5.33	5.33
		4319703577	2016-05-08	3672	2.46	2.46
##		4319703577	2016-05-09	10378	6.96	6.96
		4319703577	2016-05-10	9487	6.37	6.37
		4319703577	2016-05-11	9129	6.13	6.13
		4319703577	2016-05-12	17	0.01	0.01
##		4388161847	2016-04-15	8758	6.73	6.73
##		4388161847	2016-04-16	6580	5.06	5.06
##		4388161847	2016-04-17	4660	3.58	3.58
##		4388161847	2016-04-18	11009	9.10	9.10
##		4388161847	2016-04-19	10181	7.83	7.83
##		4388161847	2016-04-20	10553	8.12	8.12
##		4388161847	2016-04-21	10055	7.73	7.73
##		4388161847	2016-04-22	12139	9.34	9.34
##		4388161847	2016-04-23	13236	10.18	10.18
		4388161847	2016-04-24	10243	7.88	7.88
		4388161847	2016-04-26	9461	7.28	7.28
		4388161847	2016-04-27	11193	8.61	8.61
##	156	4388161847	2016-04-28	10074	7.75	7.75

		4388161847	2016-04-30	12533	9.64	9.64
##		4388161847	2016-05-01	10255	7.89	7.89
##	159	4388161847	2016-05-02	10096	8.40	8.40
##		4388161847	2016-05-04	12375	9.52	9.52
##		4388161847	2016-05-05	9603	7.38	7.38
##	162	4388161847	2016-05-05	9603	7.38	7.38
##		4388161847	2016-05-07	22770	17.54	17.54
##		4388161847	2016-05-08	17298	14.38	14.38
##		4388161847	2016-05-09	10218	7.86	7.86
##		4388161847	2016-05-10	10299	7.92	7.92
##		4388161847	2016-05-11	10201	7.84	7.84
##		4445114986	2016-04-12	3276	2.20	2.20
##		4445114986	2016-04-13	2961	1.99	1.99
##		4445114986	2016-04-14	3974	2.67	2.67
##		4445114986	2016-04-15	7198	4.83	4.83
##		4445114986	2016-04-16	3945	2.65	2.65
##		4445114986	2016-04-17	2268	1.52	1.52
##		4445114986	2016-04-19	2064	1.39	1.39
##		4445114986	2016-04-20	2072	1.39	1.39
##		4445114986	2016-04-21	3809	2.56	2.56
##		4445114986	2016-04-22	6831	4.58	4.58
##		4445114986	2016-04-25	3385	2.27	2.27
##		4445114986	2016-04-26	6326	4.41	4.41
##		4445114986	2016-04-27	7243	5.03	5.03
##		4445114986	2016-04-28	4493	3.01	3.01
##		4445114986	2016-04-29	4676	3.14	3.14
##		4445114986	2016-04-30	6222	4.18	4.18
##		4445114986	2016-05-01	5232	3.51	3.51
##		4445114986	2016-05-02	6910	4.75	4.75
##		4445114986	2016-05-03	7502	5.18	5.18
##		4445114986	2016-05-04	2923	1.96	1.96
##		4445114986	2016-05-05	3800	2.55	2.55
##		4445114986	2016-05-06	4514	3.03	3.03
##		4445114986	2016-05-07	5183	3.59	3.59
##		4445114986	2016-05-08	7303	4.90	4.90
##		4445114986	2016-05-09	5275	3.54	3.54
		4445114986	2016-05-10	3915	2.63	2.63
		4445114986	2016-05-11	9105	6.11	6.11
		4445114986	2016-05-12	768	0.52	0.52
		4558609924	2016-04-21 2016-04-26	13743	9.08	9.08
		4558609924		9148	6.05	6.05
		4558609924 4558609924	2016-04-29 2016-05-01	7833	5.18	5.18
		4558609924	2016-05-01	3428 6543	2.27 4.33	2.27 4.33
		4702921684	2016-03-08	7213	5.88	5.88
		4702921684	2016-04-13	6877	5.58	5.58
		4702921684	2016-04-14	7860	6.37	6.37
		4702921684	2016-04-15	6506	5.28	5.28
		4702921684	2016-04-16	11140	9.03	9.03
		4702921684	2016-04-16	12692	10.29	10.29
		4702921684	2016-04-17	9105	7.38	7.38
		4702921684	2016-04-19	6708	5.44	5.44
		4702921684	2016-04-20	8793	7.13	7.13
		4702921684	2016-04-21	6530	5.30	5.30
π#	210	710232100 <del>1</del>	2010 04 21	0000	0.50	3.30

##	211	4702921684	2016-04-23	15126	12.27	12.27
		4702921684	2016-04-24	15050	12.22	12.22
		4702921684	2016-04-25	9167	7.43	7.43
		4702921684	2016-04-26	6108	4.95	4.95
		4702921684	2016-04-27	7047	5.72	5.72
		4702921684	2016-04-28	9023	7.32	7.32
		4702921684	2016-04-29	9930	8.05	8.05
		4702921684	2016-04-30	10144	8.23	8.23
		4702921684	2016-05-03	9454	7.67	7.67
		4702921684	2016-05-04	8161	6.62	6.62
##	221	4702921684	2016-05-05	8614	6.99	6.99
##	222	4702921684	2016-05-06	6943	5.63	5.63
##	223	4702921684	2016-05-07	14370	11.65	11.65
##	224	4702921684	2016-05-07	14370	11.65	11.65
##	225	4702921684	2016-05-09	8232	6.68	6.68
##	226	4702921684	2016-05-10	10613	8.61	8.61
##	227	4702921684	2016-05-11	9810	7.96	7.96
##	228	4702921684	2016-05-12	2752	2.23	2.23
##	229	5553957443	2016-04-12	11596	7.57	7.57
##	230	5553957443	2016-04-13	4832	3.16	3.16
##	231	5553957443	2016-04-14	17022	11.12	11.12
##	232	5553957443	2016-04-15	16556	10.86	10.86
##	233	5553957443	2016-04-16	5771	3.77	3.77
##	234	5553957443	2016-04-17	655	0.43	0.43
##	235	5553957443	2016-04-18	3727	2.43	2.43
##		5553957443	2016-04-19	15482	10.11	10.11
##		5553957443	2016-04-20	2713	1.77	1.77
##		5553957443	2016-04-21	12346	8.06	8.06
##		5553957443	2016-04-22	11682	7.63	7.63
##		5553957443	2016-04-23	4112	2.69	2.69
##		5553957443	2016-04-24	1807	1.18	1.18
##		5553957443	2016-04-25	10946	7.19	7.19
		5553957443	2016-04-26	11886	7.76	7.76
		5553957443	2016-04-27	10538	6.88	6.88
		5553957443	2016-04-28	11393	7.63	7.63
##		5553957443	2016-04-29	12764	8.33	8.33
		5553957443	2016-04-30	1202 5164	0.78	0.78
		5553957443 5553957443	2016-05-01 2016-05-02	9769	3.37 6.38	3.37 6.38
		5553957443	2016-05-03	12848	8.39	8.39
		5553957443	2016-05-04	4249	2.77	2.77
		5553957443	2016-05-05	14331	9.51	9.51
		5553957443	2016-05-06	9632	6.29	6.29
		5553957443	2016-05-07	1868	1.22	1.22
		5553957443	2016-05-08	6083	4.00	4.00
		5553957443	2016-05-09	11611	7.58	7.58
		5553957443	2016-05-10	16358	10.71	10.71
##	258	5553957443	2016-05-11	4926	3.22	3.22
##	259	5553957443	2016-05-12	3121	2.04	2.04
##	260	5577150313	2016-04-12	8135	6.08	6.08
##	261	5577150313	2016-04-13	5077	3.79	3.79
##	262	5577150313	2016-04-14	8596	6.42	6.42
		5577150313	2016-04-15	12087	9.08	9.08
##	264	5577150313	2016-04-16	14269	10.66	10.66

##	265	5577150313	2016-04-17	12231	9.14	9.14
		5577150313	2016-04-18	9893	7.39	7.39
		5577150313	2016-04-19	12574	9.42	9.42
##		5577150313	2016-04-20	8330	6.22	6.22
##		5577150313	2016-04-21	10830	8.09	8.09
##		5577150313	2016-04-22	9172	6.85	6.85
##		5577150313	2016-04-23	7638	5.71	5.71
##		5577150313	2016-04-24	15764	11.78	11.78
##		5577150313	2016-04-25	6393	4.78	4.78
##		5577150313	2016-04-26	5325	3.98	3.98
##	275	5577150313	2016-04-27	6805	5.14	5.14
##	276	5577150313	2016-04-28	9841	7.43	7.43
##	277	5577150313	2016-04-29	7924	5.92	5.92
##	278	5577150313	2016-04-30	12363	9.24	9.24
##	279	5577150313	2016-05-01	13368	9.99	9.99
##	280	5577150313	2016-05-02	7439	5.56	5.56
##	281	5577150313	2016-05-03	11045	8.25	8.25
##	282	5577150313	2016-05-04	5206	3.89	3.89
##	283	5577150313	2016-05-05	7550	5.64	5.64
##	284	5577150313	2016-05-10	8869	6.65	6.65
##	285	5577150313	2016-05-11	4038	3.04	3.04
##	286	6117666160	2016-04-16	14450	10.91	10.91
##	287	6117666160	2016-04-17	7150	5.40	5.40
##		6117666160	2016-04-18	5153	3.91	3.91
##		6117666160	2016-04-19	11135	8.41	8.41
##		6117666160	2016-04-20	10449	8.02	8.02
##		6117666160	2016-04-21	19542	15.01	15.01
##	292	6117666160	2016-04-22	8206	6.20	6.20
##		6117666160	2016-04-23	11495	8.68	8.68
##		6117666160	2016-04-24	7623	5.76	5.76
##		6117666160	2016-04-27	9411	7.11	7.11
##		6117666160	2016-04-28	3403	2.60	2.60
##		6117666160	2016-04-29	9592	7.24	7.24
##		6117666160	2016-05-01	8915	6.73	6.73
		6117666160	2016-05-05	9799	7.40	7.40
		6117666160	2016-05-06	3365	2.68	2.68
		6117666160	2016-05-07	7336	5.54	5.54
			2016-05-08			
		6117666160 6117666160	2016-05-09	7328 4477	5.53	5.53 3.38
		6775888955	2016-03-09		3.38	
		6775888955	2016-04-13	4053	2.91	2.91
				5162	3.70	3.70
		6775888955	2016-04-15	1282	0.92	0.92
		6962181067	2016-04-12	10199	6.74	6.74
##		6962181067	2016-04-13	5652	3.74	3.74
##		6962181067	2016-04-14	1551	1.03	1.03
##		6962181067	2016-04-15	5563	3.68	3.68
##		6962181067	2016-04-16	13217	8.74	8.74
##		6962181067	2016-04-17	10145	6.71	6.71
##		6962181067	2016-04-18	11404	7.54	7.54
##		6962181067	2016-04-19	10742	7.10	7.10
##		6962181067	2016-04-20	13928	9.55	9.55
		6962181067	2016-04-21	11835	9.71	7.88
		6962181067	2016-04-22	10725	7.09	7.09
##	318	6962181067	2016-04-23	20031	13.24	13.24

##	310	6962181067	2016-04-24	5029	3.32	3.32
		6962181067	2016-04-25	13239	9.27	9.08
##		6962181067	2016-04-26	10433	6.90	6.90
##		6962181067	2016-04-27	10320	6.82	6.82
##		6962181067	2016-04-28	12627	8.35	8.35
##		6962181067	2016-04-29	10762	7.11	7.11
##		6962181067	2016-04-30	10081	6.66	6.66
##		6962181067	2016-05-01	5454	3.61	3.61
##		6962181067	2016-05-02	12912	8.54	8.54
##		6962181067	2016-05-03	12109	8.12	8.12
##		6962181067	2016-05-04	10147	6.71	6.71
##	330	6962181067	2016-05-05	10524	6.96	6.96
##	331	6962181067	2016-05-06	5908	3.91	3.91
##	332	6962181067	2016-05-07	6815	4.50	4.50
##	333	6962181067	2016-05-08	4188	2.77	2.77
##	334	6962181067	2016-05-09	12342	8.72	8.68
##	335	6962181067	2016-05-10	15448	10.21	10.21
##	336	6962181067	2016-05-11	6722	4.44	4.44
##	337	6962181067	2016-05-12	3587	2.37	2.37
##	338	7007744171	2016-04-16	4631	3.10	3.10
##	339	7007744171	2016-05-01	5600	3.75	3.75
##	340	7086361926	2016-04-12	11317	8.41	8.41
##	341	7086361926	2016-04-13	5813	3.62	3.62
##	342	7086361926	2016-04-14	9123	6.12	6.12
##	343	7086361926	2016-04-15	8585	5.67	5.67
##	344	7086361926	2016-04-19	10688	7.29	7.29
##	345	7086361926	2016-04-20	14365	10.64	10.64
##		7086361926	2016-04-21	9469	6.18	6.18
##		7086361926	2016-04-22	9753	6.53	6.53
##		7086361926	2016-04-24	3520	2.16	2.16
##		7086361926	2016-04-25	10091	6.82	6.82
##		7086361926	2016-04-26	10387	7.07	7.07
##		7086361926	2016-04-27	11107	8.34	8.34
##		7086361926	2016-04-28	11584	7.80	7.80
##		7086361926	2016-04-30	14560	9.41	9.41
##		7086361926	2016-05-01	12390	8.07	8.07
		7086361926	2016-05-02	10052	6.81	6.81
			2016-05-03	10288	6.76	6.76
		7086361926 7086361926	2016-05-04	10988	8.31	8.31
		7086361926	2016-05-06	12461	8.38	8.38
		7086361926				
		7086361926	2016-05-07 2016-05-08	12827	8.48	8.48
		7086361926		10677	7.10	7.10
			2016-05-09	13566	9.11	9.11
		7086361926	2016-05-11	9572	6.52	6.52
		7086361926	2016-05-12	3789	2.56	2.56
		8053475328	2016-04-20	15108	12.19	12.19
		8053475328	2016-04-23	22359	17.19	17.19
		8053475328	2016-05-07	19769	15.67	15.67
		8378563200	2016-04-12	7626	6.05	6.05
		8378563200	2016-04-13	12386	9.82	9.82
		8378563200	2016-04-14	13318	10.56	10.56
		8378563200	2016-04-15	14461	11.47	11.47
		8378563200	2016-04-16	11207	8.89	8.89
##	372	8378563200	2016-04-17	2132	1.69	1.69

		8378563200	2016-04-18	13630	10.81	10.81
##		8378563200	2016-04-19	13070	10.36	10.36
##		8378563200	2016-04-20	9388	7.44	7.44
##	376	8378563200	2016-04-21	15148	12.01	12.01
##	377	8378563200	2016-04-22	12200	9.67	9.67
##	378	8378563200	2016-04-23	5709	4.53	4.53
##	379	8378563200	2016-04-24	3703	2.94	2.94
##	380	8378563200	2016-04-25	12405	9.84	9.84
##	381	8378563200	2016-04-25	12405	9.84	9.84
##	382	8378563200	2016-04-26	16208	12.85	12.85
##	383	8378563200	2016-04-27	7359	5.84	5.84
##	384	8378563200	2016-04-28	5417	4.30	4.30
##	385	8378563200	2016-04-29	6175	4.90	4.90
##	386	8378563200	2016-04-30	2946	2.34	2.34
##	387	8378563200	2016-05-01	11419	9.06	9.06
##	388	8378563200	2016-05-02	6064	4.81	4.81
##	389	8378563200	2016-05-03	8712	6.91	6.91
##	390	8378563200	2016-05-04	7875	6.24	6.24
##	391	8378563200	2016-05-05	8567	6.79	6.79
##	392	8378563200	2016-05-06	7045	5.59	5.59
##	393	8378563200	2016-05-07	4468	3.54	3.54
##	394	8378563200	2016-05-08	2943	2.33	2.33
##	395	8378563200	2016-05-09	8382	6.65	6.65
##	396	8378563200	2016-05-10	6582	5.22	5.22
##	397	8378563200	2016-05-11	9143	7.25	7.25
##	398	8378563200	2016-05-12	4561	3.62	3.62
##	399	8792009665	2016-04-12	2564	1.64	1.64
##	400	8792009665	2016-04-13	1320	0.84	0.84
##	401	8792009665	2016-04-14	1219	0.78	0.78
##	402	8792009665	2016-04-15	2483	1.59	1.59
##	403	8792009665	2016-04-20	3147	2.01	2.01
##	404	8792009665	2016-04-22	4068	2.60	2.60
##	405	8792009665	2016-04-23	5245	3.36	3.36
##	406	8792009665	2016-04-27	1758	1.13	1.13
##	407	8792009665	2016-04-28	6157	3.94	3.94
##	408	8792009665	2016-04-29	8360	5.35	5.35
##	409	8792009665	2016-04-30	7174	4.59	4.59
##	410	8792009665	2016-05-01	1619	1.04	1.04
##	411	8792009665	2016-05-02	1831	1.17	1.17
##	412	8792009665	2016-05-03	2421	1.55	1.55
##	413	8792009665	2016-05-04	2283	1.46	1.46
##		LoggedActivi	tiesDistance	VeryActiveDist	ance Moderate	elyActiveDistance
##	1		0.000000	•	1.88	0.55
##	2		0.000000		1.57	0.69
##	3		0.000000		2.14	1.26
##	4		0.000000		2.71	0.41
##	5		0.000000		3.19	0.78
##	6		0.000000		3.53	1.32
##	7		0.000000		1.96	0.48
##			0.000000		1.34	0.35
##			0.000000		2.81	0.87
##			0.000000		2.92	0.21
##			0.000000		5.29	0.57
##			0.000000		2.33	0.92

##	13	0.000000	3.54	1.16
##	14	0.000000	1.06	0.50
##	15	0.00000	3.56	1.42
##	16	0.00000	2.29	1.60
##	17	0.00000	3.21	0.57
##	18	0.00000	3.73	1.05
##	19	0.00000	2.92	1.08
##	20	0.00000	1.97	0.25
##	21	0.000000	2.46	2.12
##	22	0.000000	3.53	0.32
##	23	0.000000	3.45	0.53
##	24	0.000000	3.35	1.16
##	25	0.000000	2.56	1.01
##	26	0.000000	0.00	0.00
##	27	0.000000	0.63	3.14
##	28	0.000000	0.07	0.31
##	29	0.000000	0.00	0.00
##	30	0.000000	0.00	0.00
##	31	0.000000	0.00	0.00
##	32	0.000000	0.00	0.26
##	33	0.000000	0.00	0.00
##	34	0.000000	0.00	0.00
##	35	0.000000	0.00	0.00
##	36	0.000000	0.00	0.00
##	37	0.000000	0.00	0.00
##	38	0.000000	0.19	0.35
##	39	0.000000	0.00	0.00
##	40	0.000000	0.00	0.00
##	41	0.000000	0.00	0.00
##	42	0.000000	0.00	0.00
##	43	0.000000	0.00	0.00
##	44	0.000000	0.00	0.00
##	45	0.000000	0.00	0.00
##	46	0.000000	0.00	0.00
##	47	0.000000	0.00	0.00
##	48	0.000000	0.00	0.00
##		0.000000	0.00	0.00
##		0.000000	0.00	0.00
##		0.000000	0.00	0.00
##		0.000000	0.00	0.00
##		0.000000	0.00	0.00
##		0.000000	0.00	0.00
##		0.000000	0.00	0.00
##		0.000000	0.00	0.00
##		0.000000	0.00	0.00
##		0.000000	0.00	0.00
##		0.000000	0.00	0.00
##		0.000000	0.00	0.00
##		0.000000	0.00	0.00
##		0.000000	0.00	0.00
##		0.000000	0.00	0.00
##		0.000000	0.00	0.00
##		0.000000	0.00	0.00
##		0.000000	0.00	0.00
ππ				0.00

##	67	0.00000	1.66	1.94
##	68	0.00000	0.02	2.74
##	69	0.00000	0.07	1.42
##	70	0.00000	0.08	0.28
##	71	0.000000	0.79	0.86
##	72	0.000000	0.00	0.00
##	73	0.000000	1.85	1.53
##	74	0.000000	0.56	1.68
##	75	0.000000		1.45
##	76		2.78	0.00
		0.000000	0.00	
##	77		1.27	0.52
##	78	0.000000	0.00	0.00
##	79	0.000000	1.86	0.40
##	80	0.000000	0.00	0.00
##	81	0.00000	0.00	0.00
##	82	0.000000	3.06	0.91
##	83	0.00000	2.03	2.13
##	84	0.00000	0.32	0.97
##	85	0.000000	1.05	1.75
##	86	0.00000	2.03	4.00
##	87	0.00000	0.70	2.35
##	88	0.00000	0.25	3.73
##	89	0.00000	2.24	2.45
##	90	0.00000	0.20	4.35
##	91	0.00000	0.00	0.00
##	92	0.00000	2.33	0.58
##	93	0.00000	0.00	4.22
##	94	0.00000	3.27	4.56
##	95	0.00000	5.62	0.43
##	96	0.00000	0.45	4.22
##	97	0.00000	0.00	0.42
##	98	0.00000	1.37	0.29
##	99	0.00000	3.74	1.30
##	100	0.00000	3.69	2.10
##	101	0.00000	2.67	1.98
##	102	0.00000	1.54	6.48
##	103	0.00000	3.32	1.74
	104	0.00000	1.81	4.58
	105	0.00000	1.76	4.11
	106	0.00000	3.11	2.51
	107	0.00000	0.00	4.13
	108	0.000000	0.68	5.24
	109	0.000000	0.07	5.40
	110	0.000000	0.15	0.24
	111	0.000000	0.45	0.37
	112	0.000000	0.00	0.00
	113	0.000000	0.67	1.04
	114	0.000000	2.62	1.68
	114	0.000000		0.00
			0.00	
	116	0.000000	0.00	0.00
	117	0.000000	0.00	0.00
	118	0.000000	0.11	0.33
	119	0.000000	0.00	0.00
##	120	0.000000	0.00	0.00

##	121	0.00000	0.07	0.33
##	122	0.00000	0.00	0.00
##	123	0.00000	0.00	0.68
##	124	0.00000	0.00	0.00
##	125	0.00000	0.06	0.81
##	126	0.00000	0.00	0.00
	127	0.00000	0.06	0.20
	128	0.000000	0.00	0.28
	129	0.000000	0.57	0.92
##	130	0.000000	0.41	1.92
##	131	0.000000	1.01	0.33
##	132	0.000000	0.45	0.79
##	133	0.000000	0.40	1.61
##	134	0.000000	0.00	0.00
##	135	0.000000	0.00	0.44
##	136			1.07
		0.000000	0.58	
##	137		0.41	0.47
##	138	0.000000	0.19	1.05
##	139	0.000000	0.00	0.00
##	140	0.000000	0.14	0.56
##	141	0.000000	0.21	0.46
##	142	0.000000	0.20	0.74
##	143	0.000000	0.00	0.00
##	144	0.000000	0.00	0.00
##	145	0.000000	0.21	0.40
##	146	0.000000	0.00	0.00
##	147	0.000000	3.56	0.40
##	148	0.000000	1.37	0.69
##	149	0.000000	1.10	1.72
##	150	0.000000	0.37	0.39
##	151	0.000000	3.30	1.11
##	152	0.000000	4.50	0.32
	153	0.00000	1.08	0.51
	154	0.000000	0.94	1.06
	155	0.000000	0.70	2.51
##	156	0.00000	1.29	0.43
	157	0.000000	0.70	2.00
	158	0.000000	1.01	0.68
	159	0.000000	3.77	0.08
	160	0.00000	2.79	0.93
	161	0.00000	0.63	1.67
	162	0.00000	0.63	1.67
	163	0.00000	9.45	2.77
	164	0.00000	9.89	1.26
	165	0.00000	0.34	0.73
	166	0.000000	0.81	0.65
	167	0.000000	0.53	0.79
	168	0.000000	0.00	0.00
	169	0.000000	0.00	0.00
	170	0.000000	0.00	0.00
	171	0.000000	0.00	0.00
	172	0.000000	0.00	0.00
	173	0.000000	0.00	0.00
##	174	0.00000	0.00	0.00

##	175	0.00000	0.00	0.00
##	176	0.000000	0.00	0.00
##	177	0.000000	0.00	0.00
##	178	0.000000	0.00	0.00
##	179	0.000000	2.41	0.04
##	180	0.000000	2.62	0.03
##	181	0.000000	0.00	0.00
##	182	0.000000	0.00	0.00
##	183	0.00000	0.00	0.00
##	184	0.00000	0.00	0.00
##	185	0.00000	2.21	0.19
##	186	0.00000	2.48	0.11
##	187	0.00000	0.00	0.00
##	188	0.00000	0.12	0.24
##	189	0.00000	0.00	0.00
##	190	0.00000	2.13	0.19
##	191	0.00000	0.00	0.25
##	192	0.00000	0.00	0.00
##	193	0.000000	0.00	0.00
##	194	0.00000	2.25	1.00
##	195	0.00000	0.00	0.00
##	196	0.00000	0.42	0.97
##	197	0.000000	0.43	2.03
##	198	0.000000	1.02	1.85
##	199	0.000000	0.00	0.00
##	200	0.000000	1.80	0.50
##	201	0.000000	0.00	0.00
##	202	0.000000	0.00	0.00
##	203	0.000000	0.00	0.00
##	204	0.000000	0.07	0.42
##	205	0.000000	0.24	1.25
##	206	0.000000	0.96	3.46
##	207	0.000000	1.82	1.49
##	208	0.000000	0.88	0.37
##	209	0.00000	0.16	1.23
##	210	0.00000	0.31	2.05
	211	0.000000	0.76	3.24
	212	0.000000	1.20	5.12
	213	0.000000	0.49	0.82
	214	0.000000	0.07	0.35
	215	0.000000	0.09	0.80
	216	0.000000	1.13	0.42
	217	0.000000	1.06	0.92
	218	0.000000	0.32	2.03
	219	0.000000	0.00	0.00
	220	0.000000	0.34	0.73
	221	0.000000	0.67	0.22
	222	0.000000	0.08	0.66
	223	0.000000	0.37	2.31
	224	0.000000	0.37	2.31
	225	0.000000	0.00	0.57
	226	0.000000	0.08	1.88
	227	0.000000	0.78	2.16
##	228	0.000000	0.00	0.00

##	229	0.000000	1.37	0.79
##	230	0.000000	0.00	0.00
##	231	0.000000	4.00	2.45
##	232	0.00000	4.16	1.98
	233	0.000000	0.00	0.00
	234	0.000000	0.00	0.00
	235	0.000000	0.00	0.00
	236	0.000000	4.28	1.66
	237	0.000000	0.00	0.00
	238	0.000000	2.95	2.16
	239	0.000000	1.38	0.63
	240	0.000000		0.00
			0.00	
	241	0.000000	0.00	0.00
	242	0.000000	2.93	0.57
	243	0.000000	2.37	0.93
	244	0.000000	1.14	1.00
	245	0.000000	3.71	0.75
	246	0.000000	2.79	0.64
	247	0.00000	0.00	0.00
	248	0.000000	0.00	0.00
	249	0.000000	1.06	0.41
	250	0.000000	1.50	1.20
	251	0.000000	0.00	0.00
	252	0.000000	3.43	1.66
	253	0.000000	1.52	0.54
##	254	0.000000	0.00	0.00
##	255	0.000000	0.22	0.47
##	256	0.000000	2.13	0.89
##	257	0.000000	3.87	1.61
##	258	0.000000	0.00	0.00
##	259	0.000000	0.58	0.40
##	260	0.000000	3.60	0.38
##	261	0.000000	0.32	0.22
##	262	0.000000	3.33	0.31
##	263	0.00000	3.92	1.60
##	264	0.00000	6.64	1.28
##	265	0.00000	5.98	0.83
##	266	0.00000	4.86	0.72
##	267	0.000000	7.02	0.64
##	268	0.000000	4.12	0.34
##	269	0.000000	3.65	1.66
##	270	0.000000	2.42	0.79
##	271	0.000000	1.21	0.36
##	272	0.000000	7.65	2.15
##	273	0.000000	1.35	0.67
##	274	0.000000	0.85	0.65
	275	0.00000	1.81	0.40
	276	0.00000	3.25	1.17
	277	0.00000	2.84	0.61
	278	0.000000	5.83	0.79
	279	0.000000	5.31	1.44
	280	0.000000	1.12	0.35
	281	0.000000	4.52	0.15
	282	0.000000	1.56	0.25
				-

##	283	0.000000	2.50	0.47
##	284	0.000000	2.56	0.75
##	285	0.000000	1.83	0.30
##	286	0.00000	0.58	0.85
	287	0.000000	0.00	0.00
	288	0.000000	0.00	0.00
	289	0.000000	0.00	0.00
	290	0.000000	2.03	0.48
	291	0.000000	0.98	0.40
	292	0.000000	0.00	0.00
	293	0.000000	0.00	0.00
	294	0.000000	0.00	0.00
	295	0.000000	0.00	0.00
	296			0.00
		0.000000	0.00	
	297	0.000000	0.00	0.00
	298	0.000000	0.00	0.00
	299	0.000000	0.00	0.00
	300	0.000000	0.00	0.00
	301	0.000000	0.00	0.00
	302	0.000000	0.00	0.00
	303	0.000000	0.00	0.00
	304	0.000000	1.11	0.58
	305	0.000000	0.87	0.86
	306	0.000000	0.00	0.00
	307	0.00000	3.40	0.83
	308	0.000000	0.57	1.21
##	309	0.000000	0.00	0.00
##	310	0.000000	0.00	0.00
##	311	0.000000	3.66	0.19
##	312	0.00000	0.33	0.68
	313	0.00000	0.83	2.39
##	314	0.00000	2.10	2.13
##	315	0.00000	4.28	0.19
##	316	4.081692	3.99	2.10
	317	0.000000	1.77	1.55
	318	0.000000	4.20	2.00
	319	0.000000	0.00	0.00
	320	2.785175	3.02	1.68
	321	0.000000	2.58	0.42
	322	0.000000	0.55	2.02
	323	0.000000	2.51	0.24
	324	0.000000	0.82	0.48
	325	0.000000	2.24	0.76
	326	0.000000	0.00	0.00
	327	0.000000	1.20	2.00
	328	0.000000	1.74	2.04
	329	0.000000	0.47	1.68
	330	0.000000	0.99	1.16
	331	0.000000	0.00	0.00
	332	0.000000	0.00	0.00
	333	0.000000	0.00	0.52
	334	3.167822	3.90	1.18
	335	0.000000	3.47	1.75
##	336	0.000000	1.49	0.31

##	337	0.00000	0.00	0.25
##	338	0.00000	0.00	0.00
##	339	0.00000	0.00	0.00
##	340	0.00000	5.27	0.15
##	341	0.00000	0.56	0.21
##	342	0.00000	2.03	0.33
##	343	0.00000	2.04	1.11
##	344	0.00000	3.53	1.23
##	345	0.00000	7.64	0.45
##	346	0.00000	1.36	0.30
##	347	0.00000	2.87	0.97
##	348	0.00000	0.00	0.00
##	349	0.00000	3.75	0.70
##	350	0.00000	4.16	0.77
##	351	0.00000	5.63	0.18
##	352	0.00000	2.79	1.64
##	353	0.00000	3.12	1.04
##	354	0.00000	2.30	0.90
##	355	0.00000	3.48	0.66
##	356	0.00000	2.74	0.85
##	357	0.00000	5.28	0.12
##	358	0.00000	3.82	1.43
##	359	0.00000	1.46	2.33
##	360	0.00000	2.31	1.53
##	361	0.00000	4.26	1.71
##	362	0.00000	2.89	1.39
##	363	0.00000	0.38	0.27
##	364	0.00000	9.58	0.23
##	365	0.00000	12.54	0.63
##	366	0.00000	12.44	0.88
##	367	2.253081	0.83	0.71
##	368	2.092147	4.96	0.65
##	369	2.253081	5.62	1.03
##	370	0.00000	4.91	1.15
##	371	0.00000	5.37	1.07
##	372	0.00000	0.00	0.00
##	373	2.092147	5.05	0.56
##	374	2.253081	5.30	0.88
##	375	2.092147	2.23	0.44
##	376	2.253081	6.90	0.82
##	377	2.092147	4.91	0.59
##	378	0.00000	1.52	0.52
##	379	0.00000	0.00	0.00
##	380	2.092147	5.05	0.87
##	381	2.092147	5.05	0.87
##	382	0.000000	7.51	0.92
	383	0.000000	0.33	0.18
##	384	0.000000	0.90	0.49
##	385	0.000000	0.25	0.36
##	386	0.000000	0.00	0.00
##	387	0.000000	6.03	0.56
##	388	2.092147	0.63	0.17
	389	2.253081	1.34	1.06
##	390	0.000000	1.56	0.49

## 39	1 2.253081	0.89	0.16
			0.16
## 39			0.00
## 39			0.00
## 39			0.66
## 39			0.64
## 39			0.59
## 39			0.27
## 39			0.00
## 40	0.000000		0.00
## 40	1 0.000000	0.00	0.00
## 40	2 0.000000	0.00	0.00
## 40	3 0.000000	0.00	0.28
## 40	4 0.000000	0.05	0.28
## 40	5 0.000000	0.16	0.44
## 40	6 0.000000	0.00	0.00
## 40	7 0.000000	0.00	0.00
## 40	8 0.000000	0.14	0.28
## 40	9 0.000000	0.33	0.36
## 41	0.000000	0.00	0.00
## 41	1 0.000000	0.00	0.00
## 41	2 0.000000	0.00	0.00
## 41	3 0.000000	0.00	0.00
##	LightActiveDistance Sede	ntaryActiveDistance Very	ActiveMinutes
## 1	6.06	0.00	25
## 2	4.71	0.00	21
## 3			
## O	2.83	0.00	29
## 4	2.83 5.04	0.00 0.00	29 36
## 4	5.04	0.00	36
## 4 ## 5	5.04 2.51	0.00 0.00	36 38
## 4 ## 5 ## 6	5.04 2.51 5.03 4.24	0.00 0.00 0.00 0.00	36 38 50 28
## 4 ## 5 ## 6 ## 7	5.04 2.51 5.03 4.24 4.65	0.00 0.00 0.00 0.00 0.00	36 38 50 28 19
## 4 ## 5 ## 6 ## 7 ## 8	5.04 2.51 5.03 4.24 4.65 5.36	0.00 0.00 0.00 0.00 0.00	36 38 50 28 19 41
## 4 ## 5 ## 6 ## 7 ## 8 ## 9	5.04 2.51 5.03 4.24 4.65 5.36 3.28	0.00 0.00 0.00 0.00 0.00 0.00	36 38 50 28 19 41
## 4 ## 5 ## 6 ## 7 ## 8 ## 9 ## 10	5.04 2.51 5.03 4.24 4.65 5.36 3.28 3.94	0.00 0.00 0.00 0.00 0.00 0.00 0.00	36 38 50 28 19 41 39
## 4 ## 5 ## 6 ## 7 ## 8 ## 9 ## 10 ## 11	5.04 2.51 5.03 4.24 4.65 5.36 3.28 3.94 5.54	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	36 38 50 28 19 41 39 73
## 4 ## 5 ## 6 ## 7 ## 8 ## 9 ## 10 ## 11 ## 12	5.04 2.51 5.03 4.24 4.65 5.36 3.28 3.94 5.54 3.79	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	36 38 50 28 19 41 39 73 31
## 4 ## 5 ## 6 ## 7 ## 8 ## 10 ## 11 ## 12 ## 13	5.04 2.51 5.03 4.24 4.65 5.36 3.28 3.94 5.54 3.79 5.58	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	36 38 50 28 19 41 39 73 31 48
## 4 ## 5 ## 6 ## 7 ## 8 ## 10 ## 11 ## 12 ## 13 ## 14	5.04 2.51 5.03 4.24 4.65 5.36 3.28 3.94 5.54 3.79 5.58 4.27	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	36 38 50 28 19 41 39 73 31 48 16 52
## 4 ## 5 ## 6 ## 7 ## 8 ## 10 ## 11 ## 12 ## 13 ## 14	5.04 2.51 5.03 4.24 4.65 5.36 3.28 3.94 5.54 3.79 5.58 4.27 2.92	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	36 38 50 28 19 41 39 73 31 48 16 52 33
## 4 ## 5 ## 6 ## 7 ## 10 ## 11 ## 12 ## 13 ## 14 ## 15 ## 16	5.04 2.51 5.03 4.24 4.65 5.36 3.28 3.94 5.54 3.79 5.58 4.27 2.92 5.92	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	36 38 50 28 19 41 39 73 31 48 16 52 33 41
## 4 ## 5 ## 6 ## 7 ## 10 ## 11 ## 12 ## 13 ## 14 ## 15 ## 16	5.04 2.51 5.03 4.24 4.65 5.36 3.28 3.94 5.54 3.79 5.58 4.27 2.92 5.92 4.88	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	36 38 50 28 19 41 39 73 31 48 16 52 33 41
## 4 ## 5 ## 6 ## 7 ## 8 ## 10 ## 11 ## 12 ## 13 ## 14 ## 15 ## 18 ## 18	5.04 2.51 5.03 4.24 4.65 5.36 3.28 3.94 5.54 3.79 5.58 4.27 2.92 5.92 4.88 4.88	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	36 38 50 28 19 41 39 73 31 48 16 52 33 41 50 45
## 4 ## 5 ## 6 ## 7 ## 10 ## 11 ## 12 ## 13 ## 16 ## 16 ## 18 ## 18	5.04 2.51 5.03 4.24 4.65 5.36 3.28 3.94 5.54 3.79 5.58 4.27 2.92 5.92 4.88 4.88 5.81	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	36 38 50 28 19 41 39 73 31 48 16 52 33 41 50 45 24
## 4 ## 5 ## 6 ## 7 ## 10 ## 11 ## 12 ## 15 ## 16 ## 17 ## 18 ## 19 ## 20 ## 21	5.04 2.51 5.03 4.24 4.65 5.36 3.28 3.94 5.54 3.79 5.58 4.27 2.92 5.92 4.88 4.88 5.81 3.13	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	36 38 50 28 19 41 39 73 31 48 16 52 33 41 50 45 24
## 4 ## 5 ## 6 ## 7 ## 8 ## 10 ## 11 ## 12 ## 15 ## 16 ## 17 ## 18 ## 20 ## 21 ## 22	5.04 2.51 5.03 4.24 4.65 5.36 3.28 3.94 5.54 3.79 5.58 4.27 2.92 5.92 4.88 4.88 5.81 3.13 2.73	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	36 38 50 28 19 41 39 73 31 48 16 52 33 41 50 45 24 37
## 4 ## 5 ## 6 ## 7 ## 10 ## 11 ## 13 ## 14 ## 15 ## 16 ## 17 ## 18 ## 20 ## 21 ## 22 ## 23	5.04 2.51 5.03 4.24 4.65 5.36 3.28 3.94 5.54 3.79 5.58 4.27 2.92 5.92 4.88 4.88 5.81 3.13 2.73 3.74	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	36 38 50 28 19 41 39 73 31 48 16 52 33 41 50 45 24 37 44
## 4 ## 5 ## 6 ## 7 ## 10 ## 11 ## 12 ## 15 ## 16 ## 16 ## 15 ## 20 ## 21 ## 22 ## 23	5.04 2.51 5.03 4.24 4.65 5.36 3.28 3.94 5.54 3.79 5.58 4.27 2.92 5.92 4.88 4.88 5.81 3.13 2.73 3.74 3.26	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	36 38 50 28 19 41 39 73 31 48 16 52 33 41 50 45 24 37 44 46 46
## 4 ## 5 ## 6 ## 7 ## 10 ## 11 ## 12 ## 15 ## 16 ## 15 ## 16 ## 20 ## 21 ## 22 ## 22 ## 24 ## 25	5.04 2.51 5.03 4.24 4.65 5.36 3.28 3.94 5.54 3.79 5.58 4.27 2.92 5.92 4.88 4.88 5.81 3.13 2.73 3.74 3.26 4.55	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	36 38 50 28 19 41 39 73 31 48 16 52 33 41 50 45 24 37 44 46 46 46 36
## 4 ## 5 ## 6 ## 7 ## 10 ## 12 ## 16 ## 16 ## 17 ## 18 ## 20 ## 21 ## 22 ## 25 ## 25 ## 26	5.04 2.51 5.03 4.24 4.65 5.36 3.28 3.94 5.54 3.79 5.58 4.27 2.92 5.92 4.88 4.88 5.81 3.13 2.73 3.74 3.26 4.55 2.31	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	36 38 50 28 19 41 39 73 31 48 16 52 33 41 50 45 24 37 44 46 46 46 36 0
## 4 ## 5 6 ## 7 ## 10 ## 10 ## 10 ## 10 ## 10 ## 10 ## 10 ## 10 ## 10 ## 10 ## 20 #	5.04 2.51 5.03 4.24 4.65 5.36 3.28 3.94 5.54 3.79 5.58 4.27 2.92 5.92 4.88 4.88 5.81 3.13 2.73 3.74 3.26 4.55 2.31 9.46	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	36 38 50 28 19 41 39 73 31 48 16 52 33 41 50 45 24 37 44 46 46 46 36 0
## 4 ## 5 6 ## 7 ## 10 ## 10 ## 10 ## 10 ## 10 ## 10 ## 10 ## 10 ## 10 ## 10 ## 20 #	5.04 2.51 5.03 4.24 4.65 5.36 3.28 3.94 5.54 3.79 5.58 4.27 2.92 5.92 4.88 4.88 5.81 3.13 2.73 3.74 3.26 4.55 2.31 9.46 2.35	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	36 38 50 28 19 41 39 73 31 48 16 52 33 41 50 45 24 37 44 46 46 46 46 36 0 9 1
## 4 ## 5 6 ## 7 ## 10 ## 10 ## 10 ## 10 ## 10 ## 10 ## 10 ## 10 ## 10 ## 10 ## 20 #	5.04 2.51 5.03 4.24 4.65 5.36 3.28 3.94 5.54 3.79 5.58 4.27 2.92 5.92 4.88 4.88 5.81 3.13 2.73 3.74 3.26 4.55 2.31 9.46 2.35 4.88	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	36 38 50 28 19 41 39 73 31 48 16 52 33 41 50 45 24 37 44 46 46 46 36 0

## 31	2.65	0.00	0
## 32	1.45	0.00	0
## 33	0.47	0.00	0
## 34	0.25	0.00	0
## 35	0.68	0.00	
			0
## 36	2.60	0.00	0
## 37	1.16	0.00	0
## 38	2.20	0.00	3
## 39	3.10	0.00	0
## 40	2.05	0.00	0
## 41	2.37	0.00	0
## 42	1.58	0.00	0
## 43	0.52	0.00	0
## 44	1.50	0.00	0
## 45	4.48	0.00	0
## 46	1.53	0.00	0
## 47	1.81	0.00	0
## 48	7.71	0.00	0
## 49			
	2.16	0.00	0
## 50	3.73	0.00	0
## 51	3.77	0.00	0
## 52	3.95	0.00	0
## 53	4.71	0.00	0
## 54	2.93	0.00	0
## 55	2.28	0.00	0
## 56	4.35	0.00	0
## 57	4.07	0.00	0
## 58	7.54	0.00	0
## 59	5.08	0.00	0
## 60	2.60	0.00	0
## 61	3.45	0.00	0
## 62	6.60	0.00	0
## 63	0.16	0.00	0
## 64	5.32	0.00	0
## 65	5.51	0.00	0
## 66	3.42	0.00	0
## 67	3.41	0.00	19
## 68	3.94	0.00	1
## 69	5.43	0.00	1
## 70	3.26	0.00	1
## 71	3.79	0.00	11
## 72	4.44	0.00	0
## 73	3.38	0.00	23
## 74	2.92	0.00	9
## 75	7.15	0.00	32
## 76	6.26	0.00	0
## 77	4.60	0.00	15
## 78	3.95	0.00	0
## 79	5.32	0.00	26
## 80	3.60	0.00	0
## 81	0.03	0.00	0
## 82	2.01	0.00	44
## 83	2.55	0.00	31
## 84	3.82	0.00	5
ππ O±	J.02	0.00	5

##	85	3.26	0.00	15
##	86	2.97	0.00	31
##	87	3.92	0.00	11
##	88	3.82	0.00	4
##	89	3.96	0.00	19
##	90	3.28	0.00	2
##	91	4.06	0.00	0
##	92	3.06	0.00	33
##	93	3.85	0.00	0
##	94	2.17	0.00	30
##	95	2.41	0.00	50
##	96	2.95	0.00	7
	97	4.62	0.00	0
	98	3.22	0.00	15
##		2.71	0.00	36
	100	3.41	0.00	43
	101	2.41	0.00	41
	102	3.02	0.00	24
	103	4.53	0.00	47
	104	2.89	0.00	14
	105	2.71	0.00	14
	106	2.67	0.00	29
	107	3.59	0.00	0
	108	3.17	0.00	9
	109	3.31	0.00	1
	110	5.68	0.00	4
##	111	0.59	0.00	65
	112	3.15	0.05	0
	113	5.58	0.00	13
	114	4.04	0.07	38
	115	3.10	0.01	0
	116	4.15	0.00	0
	117	3.87	0.04	0
	118	6.44	0.00	1
	119	3.80	0.00	0
	120	3.18	0.00	0
	121		0.00	1
		1.12		
	122 123	5.99	0.00	0
	124	5.31 0.35	0.00	0
	125	2.15	0.00	1
	126	3.31	0.00	0
	127	2.47	0.00	1
	128	5.93	0.00	0
	129	5.15	0.00	8
	130	4.91	0.00	6
	131	5.94	0.00	13
	132	4.12	0.00	6
	133	3.51	0.00	6
	134	0.84	0.00	0
	135	5.71	0.00	0
	136	4.83	0.00	8
	137	5.46	0.00	6
##	138	4.08	0.00	3

##	141	5.70	0.00	3
	142	5.18	0.00	3
##	143	0.01	0.00	0
	144	6.73	0.00	0
	145	4.45	0.00	6
	146	3.58	0.00	0
	147	5.14	0.00	27
	148	5.77	0.00	20
	149	5.29	0.00	19
	150	6.98	0.00	7
	151	4.92	0.00	77
	152	5.35	0.00	58
	153	6.30	0.00	14
	154	5.27	0.00	14
	155	5.39	0.00	11
	156 157	6.03 6.94	0.00	19 14
	158	6.20	0.00	12
	159	4.55	0.00	33
	160	5.80	0.00	35
	161	5.09	0.00	12
	162	5.09	0.00	12
	163	5.33		120
	164	3.23		107
	165	6.79	0.00	6
	166	6.46	0.00	13
	167	6.53	0.00	8
##	168	2.20	0.00	0
##	169	1.99	0.00	0
##	170	2.67	0.00	0
##	171	4.83	0.00	0
	172	2.65	0.00	0
	173	1.52	0.00	0
	174	1.39	0.00	0
	175	1.39	0.00	0
	176	2.54	0.00	0
	177	4.58	0.00	0
	178	2.27	0.00	0
	179	1.96	0.00	29
	180	2.38	0.00	32
	181	3.01	0.00	0
	182	3.13	0.00	0
	183 184	4.18 3.51	0.00	0
	185	2.35	0.00	0 27
	186	2.58	0.00	30
	187	1.96	0.00	0
	188	2.18	0.00	2
	189	3.03	0.00	0
	190	1.25	0.00	26
	191	4.65	0.00	0
	192	3.54	0.00	0
	- =	- <del></del>	· ••	J

##	193	2.63	0.00	0
##	194	2.86	0.00	34
##	195	0.52	0.00	0
##	196	7.70	0.00	6
##	197	3.59	0.00	12
##	198	2.31	0.00	15
##	199	2.27	0.00	0
	200	2.02	0.00	66
	201	5.85	0.00	0
##	202	5.58	0.00	0
	203	6.37	0.00	0
	204	4.79	0.00	1
	205	7.54	0.00	3
	206	5.88	0.00	12
	207	4.07	0.00	22
	208	4.19	0.00	10
	209	5.73	0.00	2
	210	2.94	0.00	4
	211	8.27	0.00	9
	212	5.88	0.00	15
	213	6.11	0.00	6
	214	4.54	0.00	1
	215	4.78	0.00	1
	216	5.77	0.00	14
	217	6.07	0.00	12
	218	5.88	0.00	4
	219	7.67	0.00	0
	220	5.54	0.00	4
	221	6.09	0.00	8
	222	4.87	0.00	1
	223	8.97	0.00	5
	224	8.97	0.00	5
	225	6.10	0.00	0
	226	6.65	0.00	1
	227	4.98	0.00	10
	228	2.23	0.00	0
	229	5.41	0.00	19
	230	3.16	0.00	0
	231	4.67	0.00	61
	232	4.71	0.00	58
	233	3.77	0.00	0
	234	0.43	0.00	0
	235	2.43	0.00	0
	236	4.18	0.00	69
	237	1.77	0.00	0
	238	2.96	0.00	47
	239	5.60	0.00	25
	240	2.68	0.00	0
	241	1.18	0.00	0
	242	3.69	0.00	51
	243	4.46	0.00	40
	244	4.74	0.00	16
	245	3.17	0.00	49
	246	4.91	0.00	46
ππ	210	1.01		-10

шш	0.47	0.70	0.00	0
	247 248	0.78 3.37	0.00	0
	249	4.90	0.00	23
	250	5.68	0.00	26
	251	2.77	0.00	0
	252	4.43	0.00	44
	253	4.23	0.00	21
	254	1.22	0.00	0
	255	3.30	0.00	3
	256	4.56	0.00	59
##	257	5.20	0.00	61
##	258	3.22	0.00	0
##	259	1.06	0.00	8
##	260	2.10	0.00	86
	261	3.25	0.00	15
	262	2.78	0.00	118
	263	3.56	0.00	115
	264	2.73	0.00	184
	265	2.32	0.00	200
	266	1.82	0.00	114
	267	1.76	0.00	108
	268	1.76	0.00	87
	269	2.78	0.00	110
	270	3.30	0.00	62
	271	4.14	0.00	24
	272	1.98	0.00	210
	273	2.76	0.00	61
	274	2.47	0.00	38
##	275	2.93	0.00	63
## ##	<ul><li>276</li><li>277</li></ul>	3.01 2.47	0.00	99 97
##	278	2.61	0.00	207
	279	3.24	0.00	194
	280	4.07	0.00	37
	281	3.57	0.00	97
	282	2.08	0.00	25
	283	2.67	0.00	45
	284	3.35	0.00	104
	285	0.89	0.00	45
	286	9.48	0.00	7
##	287	5.40	0.00	0
##	288	3.89	0.00	0
##	289	8.41	0.00	0
##	290	5.52	0.00	26
##	291	5.62	0.00	11
##	292	6.20	0.00	0
	293	8.68	0.00	0
	294	5.76	0.00	0
	295	7.11	0.00	0
	296	2.60	0.00	0
	297	7.24	0.00	0
	298	6.73	0.00	0
	299	7.40	0.00	0
##	300	2.68	0.00	0

##	301	5.54	0.00	0
##	302	5.53	0.00	0
##	303	3.38	0.00	0
##	304	1.22	0.00	17
##	305	1.97	0.00	14
##	306	0.92	0.00	0
##	307	2.51	0.00	50
##	308	1.96	0.00	8
##	309	1.03	0.00	0
##	310	3.68	0.00	0
##	311	4.88	0.00	50
##	312	5.69	0.00	5
##	313	4.32	0.00	13
##	314	2.87	0.00	35
##	315	5.09	0.00	48
##	316	3.51	0.11	53
##	317	3.77	0.00	30
##	318	7.04	0.00	58
##	319	3.32	0.00	0
##	320	4.46	0.10	35
##	321	3.90	0.00	36
##	322	4.25	0.00	7
##	323	5.59	0.00	38
##	324	5.81	0.00	12
##	325	3.67	0.00	32
##	326	3.61	0.00	0
##	327	5.34	0.00	18
##	328	4.33	0.00	21
##	329	4.55	0.00	15
##	330	4.81	0.00	14
##	331	3.91	0.00	0
##	332	4.50	0.00	0
##	333	2.25	0.00	0
##	334	3.65	0.00	43
##	335	4.99	0.00	62
##	336	2.65	0.00	24
##	337	2.11	0.00	0
##	338	3.10	0.00	0
##	339	3.75	0.00	0
##	340	2.97	0.00	59
##	341	2.84	0.00	31
##	342	3.66	0.00	35
##	343	2.53	0.00	30
##	344	2.51	0.00	67
##	345	2.54	0.00	87
##	346	4.51	0.00	19
##	347	2.67	0.00	58
##	348	2.15	0.00	0
##	349	2.37	0.00	69
##	350	2.12	0.00	70
##	351	2.53	0.00	55
##	352	3.36	0.00	54
##	353	5.24	0.00	42
##	354	4.85	0.00	30

	355	2.66	0.00	66
##	356	3.16	0.00	57
##	357	2.90	0.00	45
	358	3.12	0.00	84
	359	4.68	0.00	20
	360	3.25	0.00	32
	361	3.12	0.00	67
	362	2.23	0.00	57
	363	1.89	0.00	5
	364	2.38	0.00	89
##	365	4.02	0.00	125
##	366	2.35	0.00	121
##	367	4.50	0.00	65
##	368	4.21	0.00	116
##	369	3.91	0.00	123
##	370	5.41	0.00	60
##	371	2.44	0.00	64
##	372	1.69	0.00	0
	373	5.20	0.00	117
	374	4.18	0.00	120
	375	4.78	0.00	82
	376	4.29	0.00	137
	377	4.18	0.00	113
	378	2.48	0.00	19
	379	2.94	0.00	0
	380	3.92	0.00	117
	381	3.92	0.00	117
	382	4.42	0.00	90
	383	5.33	0.00	4
	384	2.91	0.00	11
	385	4.27	0.00	3
	386	2.34	0.00	0
	387	2.47	0.00	71
	388	4.01	0.00	63
	389	4.50	0.00	71
	390	4.20	0.00	19
	391	5.74	0.00	66
	392	3.78	0.00	74
	393	3.54	0.00	0
	394	2.33	0.00	0
	395	4.72	0.00	71
	396	3.92	0.00	63
	397	5.27	0.00	72
	398	2.69	0.00	8
	399	1.64	0.00	0
	400	0.84	0.00	0
	401	0.78	0.00	0
	402	1.59	0.00	0
	403	1.74	0.00	0
	404	2.27	0.00	1
	405	2.75	0.00	8
	406	1.13	0.00	0
	407	3.94	0.00	0
##	408	4.93	0.00	6

	400	0.04	^	00	4.0	
	409	3.91		.00	10	
	410	1.04		.00	0	
	<ul><li>411</li><li>412</li></ul>	1.17		.00	0	
	413	1.55		. 00 . 00	0	
##	413	1.46	LightlyActiveMinutes			Time
##	1	13	328	728		12:00:00
##	2	19	217	776		12:00:00
##		34	209	726		12:00:00
##		10	221	773		12:00:00
	5	20	164	539		12:00:00
	6	31	264	775		12:00:00
	7	12	205	818		12:00:00
	8	8	211	838		12:00:00
	9	21	262	732		12:00:00
	10	5	238	709		12:00:00
##	11	14	216	814		12:00:00
##	12	23	279	833		12:00:00
	13	28	189	782		12:00:00
##	14	12	243	815		12:00:00
##	15	34	217	712		12:00:00
##	16	35	246	730		12:00:00
##	17	15	277	798		12:00:00
##	18	24	254	816		12:00:00
##	19	24	250	857	1959	12:00:00
##	20	6	289	754	1896	12:00:00
##	21	46	175	833	1821	12:00:00
##	22	8	203	574	1740	12:00:00
##	23	11	206	835	1819	12:00:00
##	24	31	214	746	1859	12:00:00
	25	23	251	669		12:00:00
	26	0	120	1193		12:00:00
	27	71	402	816		12:00:00
	28	7	148	682		12:00:00
	29	0	295	991		12:00:00
	30	0	176	527		12:00:00
##		0	184	218		12:00:00
##		7	75	585		12:00:00
	33	0	55	734		12:00:00
##		0	32	986		12:00:00 12:00:00
## ##		0	51 192	941 1058		12:00:00
##		0	95	1167		12:00:00
##		8	181	706		12:00:00
##		0	238	663		12:00:00
##		0	197	653		12:00:00
##		0	188	687		12:00:00
##		0	150	728		12:00:00
##		0	60	1053		12:00:00
##		0	141	785		12:00:00
##		0	327	623		12:00:00
##		0	153	749		12:00:00
##		0	162	712		12:00:00
##		0	432	458		12:00:00

##	49	0	164	704	1401 12:00:00
##	50	0	260	821	1576 12:00:00
##	51	0	286	586	1593 12:00:00
##	52	0	331	626	1649 12:00:00
##	53	0	352	492	1692 12:00:00
##	54	0	233	594	1506 12:00:00
##		0	191	716	1447 12:00:00
##		0	355	716	1690 12:00:00
##		0	345	530	1658 12:00:00
##		0	475	479	1926 12:00:00
##		0	383	511	1736 12:00:00
##		0	229	665	1491 12:00:00
##	61	0	258	610	1555 12:00:00
##		0	401	543	1869 12:00:00
##		0	17	1002	1141 12:00:00
##		0	330	569	1698 12:00:00
##		0	343	330	1364 12:00:00
##		0	242	1129	1804 12:00:00
	67	32	195	676	2038 12:00:00
##		48	206	705	2010 12:00:00
##		24	284	720	2133 12:00:00
##		7	249	508	1882 12:00:00
##		16	206	678	1944 12:00:00
##		7	382	648	2346 12:00:00
##		26	208	761	2048 12:00:00
##		27	206	781	1946 12:00:00
##		35	360	591	2629 12:00:00
##		0	360	584	2187 12:00:00
##		11	277	653	2095 12:00:00
##		0	227	732	1861 12:00:00
##		9	295	623	2194 12:00:00
##		0	229	764	1854 12:00:00
##		0	4	2	403 12:00:00
##		19	131	777	1450 12:00:00
##		46	153	754	1495 12:00:00
	84	23	214	801	1433 12:00:00
##		42	183	644	1468 12:00:00
##		83	153	663	1625 12:00:00
	87	58	205	600	1529 12:00:00
	88	95	214	605	1584 12:00:00
##		67	221	738	1638 12:00:00
##		98	164	845	1554 12:00:00
##		0	242	712	1397 12:00:00
	92	12	188	731	1481 12:00:00
##		92	252	724	1638 12:00:00
	94	95	129	660	1655 12:00:00
##		9	133	781	1570 12:00:00
	96	95	170	797	1551 12:00:00
##		10	176	714	1377 12:00:00
##		8	190	804	1407 12:00:00
	99	32	150	744	1545 12:00:00
	100	52	194	687	1650 12:00:00
	101	40	124	691	1501 12:00:00
	102	143	176	713	1760 12:00:00
		110	1.0	. 10	1.00 12.00.00

	103	41	258	594	1710 12:00:00
##	104	96	142	852	1628 12:00:00
##	105	88	178	680	1618 12:00:00
##	106	55	168	676	1590 12:00:00
##	107	86	208	703	1574 12:00:00
##	108	116	171	688	1633 12:00:00
##	109	115	196	676	1630 12:00:00
##	110	15	331	712	3654 12:00:00
##	111	21	55	1222	3051 12:00:00
##	112	0	174	950	2828 12:00:00
##	113	46	346	531	3879 12:00:00
##	114	42	196	916	3429 12:00:00
##	115	0	177	855	2704 12:00:00
##	116	0	263	775	3089 12:00:00
##	117	0	206	774	2926 12:00:00
##	118	9	339	589	2302 12:00:00
##	119	0	228	752	1985 12:00:00
##	120	0	194	724	1884 12:00:00
##	121	9	58	824	1632 12:00:00
	122	0	311	604	2200 12:00:00
	123	18	306	671	2220 12:00:00
	124	0	34	1265	1792 12:00:00
	125	19	176	709	1886 12:00:00
	126	0	233	546	1945 12:00:00
	127	5	191	692	1880 12:00:00
	128	8	390	544	2314 12:00:00
	129	21	288	649	2236 12:00:00
	130	47	300	680	2324 12:00:00
	131	8	359	552	2367 12:00:00
	132	18	289	624	2175 12:00:00
	133	38	196	695	2092 12:00:00
	134	0	67	836	1593 12:00:00
	135	11	344	585	2270 12:00:00
	136	26	287	669	2235 12:00:00
	137	11	314	692	2266 12:00:00
	138	28	279	586	2158 12:00:00
	139	0	153	603	1792 12:00:00
	140	14	374	490	2345 12:00:00
	141	12	329	555	2260 12:00:00
	142	18	311	574	2232 12:00:00
	143	0	2	0	257 12:00:00
	144	0	299	837	3066 12:00:00
	145	9	253	609	3073 12:00:00
	146	0	201	721	2572 12:00:00
	147	8	239	1017	3274 12:00:00
	148	16	249	704	3015 12:00:00
	149	42	228	696	3083 12:00:00
	150	12	272	853	3069 12:00:00
	150	25	220	945	3544 12:00:00
		25 5	215		3306 12:00:00
	152	8	239	749 594	2885 12:00:00
	153 154	23	239	584 673	
	154 155	23 48	224 241	673	2929 12:00:00
	155 156			684	3074 12:00:00
##	156	9	234	878	2969 12:00:00

	4.57	4.0	200	F07	0000 40 00 00
	157	43	300	537	3283 12:00:00
	158	15	241	579	2926 12:00:00
	159	4	204	935	3147 12:00:00
	160	21	251	632	3162 12:00:00
	161	39	199	896	2899 12:00:00
	162	39	199	896	2899 12:00:00
	163	56	260	508	4022 12:00:00
	164	38	178	576	3934 12:00:00
##	165	19	258	1020	3013 12:00:00
##	166	14	267	648	3061 12:00:00
##	167	18	256	858	2954 12:00:00
##	168	0	196	787	2113 12:00:00
##	169	0	194	840	2095 12:00:00
##	170	0	231	717	2194 12:00:00
##	171	0	350	711	2496 12:00:00
##	172	0	225	716	2180 12:00:00
##	173	0	114	1219	1933 12:00:00
##	174	0	121	895	1954 12:00:00
##	175	0	137	841	1974 12:00:00
##	176	0	215	756	2150 12:00:00
##	177	0	317	706	2432 12:00:00
##	178	0	179	916	2070 12:00:00
##	179	1	180	839	2291 12:00:00
##	180	1	194	839	2361 12:00:00
	181	0	236	762	2203 12:00:00
	182	0	226	1106	2196 12:00:00
	183	0	290	797	2363 12:00:00
##	184	0	240	741	2246 12:00:00
##	185	4	200	667	2336 12:00:00
	186	2	233	725	2421 12:00:00
	187	0	180	897	2070 12:00:00
	188	6	185	734	2120 12:00:00
	189	0	229	809	2211 12:00:00
	190	4	108	866	2123 12:00:00
	191	8	308	733	2423 12:00:00
	192	0	266	641	2281 12:00:00
	193	0	231	783	2181 12:00:00
	194	22	232	622	2499 12:00:00
	195	0	58	380	1212 12:00:00
	196	21	432	844	2486 12:00:00
	197	41	283	1062	2223 12:00:00
	198	29	197	1096	1918 12:00:00
	199	0	190	1121	1692 12:00:00
	200	35	238	1019	2666 12:00:00
	201	0	263	718	2947 12:00:00
	202	0	258	777	2898 12:00:00
	203	0	271	772	2984 12:00:00
	204	8	256	944	2896 12:00:00
	205	24	335	556	3328 12:00:00
	206	66	302	437	3394 12:00:00
	207	30	191	890	3013 12:00:00
	208	8	179	757	2812 12:00:00
	209	29	260	717	3061 12:00:00
	210	41	144	901	2729 12:00:00
ırπ	210	11	T 7.T	301	2,20 12.00.00

## 211	66	408	469	3691 12:00:00
## 211 ## 212	95	281	542	3538 12:00:00
## 213	15	270	730	3064 12:00:00
	8			
## 214		216	765	2784 12:00:00
## 215	16	238	733	2908 12:00:00
## 216	9	232	738	3033 12:00:00
## 217	19	267	692	3165 12:00:00
## 218	36	263	728	3115 12:00:00
## 219	0	313	729	3145 12:00:00
## 220	15	251	757	3004 12:00:00
## 221	5	241	745	3006 12:00:00
## 222	16	207	682	2859 12:00:00
## 223	46	439	577	3683 12:00:00
## 224	46	439	577	3683 12:00:00
## 225	12	253	746	2990 12:00:00
## 226	37	262	701	3172 12:00:00
## 227	41	235	784	3069 12:00:00
## 228	0	68	241	1240 12:00:00
## 229	13	277	767	2026 12:00:00
## 230	0	226	647	1718 12:00:00
## 231	41	256	693	2324 12:00:00
## 232	38	239	689	2254 12:00:00
## 233	0	288	521	1831 12:00:00
## 234	0	46	943	1397 12:00:00
## 235	0	206	622	1683 12:00:00
## 236	28	249	756	2284 12:00:00
## 237	0	148	598	1570 12:00:00
## 238	42	177	801	2066 12:00:00
## 239	16	270	781	2105 12:00:00
## 240	0	272	443	1776 12:00:00
## 241	0	104	582	1507 12:00:00
## 242	11	201	732	2033 12:00:00
## 243	18	238	750	2093 12:00:00
## 243 ## 244	16	206	745	1922 12:00:00
## 244 ## 245	13	165	743 727	1999 12:00:00
## 245 ## 246	15	270	709	2169 12:00:00
## 240 ## 247	0	84	506	1463 12:00:00
	_			1747 12:00:00
## 248 ## 240	0	237	436	1996 12:00:00
## 249	9	227	724	2116 12:00:00
## 250 ## 051	29	247	812	
## 251	0	224	651	1698 12:00:00
## 252	29	241	692	2156 12:00:00
## 253	9	229	761	1916 12:00:00
## 254	0	96	902	1494 12:00:00
## 255	8	210	505	1762 12:00:00
## 256	22	251	667	2272 12:00:00
## 257	40	265	707	2335 12:00:00
## 258	0	195	628	1693 12:00:00
## 259	6	48	222	741 12:00:00
## 260	16	140	728	3405 12:00:00
## 261	11	144	776	2551 12:00:00
## 262	30	176	662	4022 12:00:00
## 263	54	199	695	4005 12:00:00
## 264	56	158	472	4274 12:00:00

##	265	37	159	525	4552	12:00:00
##	266	32	130	623	3625	12:00:00
##	267	23	111	733	3501	12:00:00
##	268	16	113	773	3192	12:00:00
##	269	74	175	670	4018	12:00:00
##	270	30	200	823	3329	12:00:00
##	271	24	223	627	3152	12:00:00
##	272	65	141	425	4392	12:00:00
##	273	38	214	743	3374	12:00:00
##	274	32	181	759	3088	12:00:00
##	275	16	190	773	3294	12:00:00
##	276	51	141	692	3580	12:00:00
##	277	36	165	739	3544	12:00:00
##	278	45	163	621	4501	12:00:00
##	279	72	178	499	4546	12:00:00
	280	20	235	732	3014	12:00:00
	281	8	212	580	3795	12:00:00
	282	9	141	631	2755	12:00:00
	283	21		1153		12:00:00
##	284	37	194	639		12:00:00
	285	15	63	257		12:00:00
	286	15	518	502		12:00:00
	287	0	312	702		12:00:00
	288	0	241	759		12:00:00
	289	0	480	425		12:00:00
	290	10	349	587		12:00:00
	291	19	294	579		12:00:00
	292	0	402	413		12:00:00
	293	0	512	468	2651	12:00:00
	294	0	362	711	2305	12:00:00
	295	0	458	417		12:00:00
	296	0	141	758		12:00:00
	297	0	461	479	2560	12:00:00
	298	0	397	525	2361	12:00:00
	299	0	487	479		12:00:00
	300	0	133	673	1838	12:00:00
	301	0	412	456	2469	12:00:00
##	302	0	318	517		12:00:00
	303	0	197	125		12:00:00
	304	18		1053		12:00:00
##	305	24	105	863		12:00:00
##	306	0	58	976		12:00:00
	307	14	189	796		12:00:00
	308	24	142	548		12:00:00
	309	0	86	862		12:00:00
	310	0	217	837		12:00:00
	311	3	280	741		12:00:00
	312	13	295	634		12:00:00
	313	42	238	689		12:00:00
	314	41	195	659		12:00:00
	315	4	297	639		12:00:00
	316	27	214	708		12:00:00
	317	33	240	659		12:00:00
	318	41	347	484		12:00:00
π			<b>-</b> 11	101	20,1	

шш	210	0	100	700	1705 10:00:00
	319	0	199	720	1705 12:00:00
	320	31	282	637	2194 12:00:00
	321	7	254	680	2012 12:00:00
	322	38	279	697	2034 12:00:00
	323	8	288	621	2182 12:00:00
	324	15	369	645	2254 12:00:00
	325	16	237	731	2002 12:00:00
	326	0	215	722	1740 12:00:00
	327	39	313	655	2162 12:00:00
	328	36	267	654	2072 12:00:00
	329	36	284	683	2086 12:00:00
	330	22	305	591	2066 12:00:00
	331	0	299	717	1850 12:00:00
	332	0	328	745	1947 12:00:00
	333	14	151	709	1659 12:00:00
	334	21	231	607	2105 12:00:00
	335	34	275	626	2361 12:00:00
	336	7	199	709	1855 12:00:00
	337	8	105	127	928 12:00:00
	338	0	203	1155	2076 12:00:00
##	339	0	237	1142	2225 12:00:00
##	340	6	153	745	2772 12:00:00
##	341	26	155	744	2516 12:00:00
##	342	32	189	787	2734 12:00:00
##	343	21	139	864	2395 12:00:00
##	344	69	124	671	2944 12:00:00
##	345	13	145	797	2997 12:00:00
	346	6	206	758	2463 12:00:00
##	347	59	153	762	2846 12:00:00
##	348	0	125	566	2049 12:00:00
	349	39	129	706	2752 12:00:00
##	350	33	132	726	2781 12:00:00
##	351	6	145	829	2693 12:00:00
##	352	48	161	810	2862 12:00:00
##	353	17	308	584	2995 12:00:00
##	354	15	258	685	2730 12:00:00
##	355	26	139	737	2754 12:00:00
##	356	36	152	761	2754 12:00:00
##	357	12	135	843	2655 12:00:00
##	358	35	154	834	2924 12:00:00
##	359	42	209	621	2739 12:00:00
##	360	27	147	695	2534 12:00:00
##	361	50	171	743	2960 12:00:00
##	362	40	128	757	2735 12:00:00
##	363	4	58	343	1199 12:00:00
##	364	5	158	695	3043 12:00:00
	365	14	223	741	3554 12:00:00
	366	20	148	1076	3331 12:00:00
	367	15	156	723	3635 12:00:00
	368	14	169	680	4079 12:00:00
	369	21	174	699	4163 12:00:00
	370	23	190	729	3666 12:00:00
	371	21	142	563	3363 12:00:00
	372	0	93	599	2572 12:00:00
		•		000	_3.2 22.00.00

##	373	10		174		720	4157	12:00:00
	374	19		154		737		12:00:00
##	375	8		169		763	3787	12:00:00
##	376	16		145		677	4236	12:00:00
##	377	12		159		769	4044	12:00:00
##	378	10		136		740	2908	12:00:00
##	379	0		135		734	2741	12:00:00
##	380	16		141		692	4005	12:00:00
##	381	16		141		692	4005	12:00:00
##	382	18		161		593	3763	12:00:00
	383	4		192		676		12:00:00
	384	10		139		711		12:00:00
	385	7		172		767		12:00:00
	386	0		121		780		12:00:00
	387	10		127		669		12:00:00
	388	4		142		802		12:00:00
	389	20		195		822		12:00:00
	390	10		167		680		12:00:00
	391	3		214		764		12:00:00
	392	5		166		831		12:00:00
	393	0		158		851		12:00:00
	394	0		139		621		12:00:00
	395	13		171		772		12:00:00
	396	13		152		840		12:00:00
	397	10		184		763		12:00:00
	398	6		102		433		12:00:00
	399	0		116		831		12:00:00
	400	0		82		806		12:00:00
	401	0		84		853		12:00:00
	402	0		126		937		12:00:00
	403	10		139		744		12:00:00
	404	20		195		817		12:00:00
	405	45		232		795		12:00:00
	406 407	0		112		900		12:00:00 12:00:00
	407	0 14		310 380		714 634		12:00:00
	409	20		301		749		12:00:00
	410	_				834		12:00:00
	411	0		79 101		916		12:00:00
	412	0		156		739		12:00:00
	413	0		129		848		12:00:00
##	410	TotalSleepRecords TotalMinutesA	glaan		nBed	040	2001	12.00.00
##	1	1	327	TOTALLIMET	346			
##		2	384		407			
##		1	412		442			
##		2	340		367			
##		1	700		712			
##		1	304		320			
##		- 1	360		377			
##		1	325		364			
##		1	361		384			
##		1	430		449			
##		1	277		323			
##		1	245		274			
		<del>-</del>	_ 10					

## 13	1	366	393
## 14	1	341	354
## 15	1	404	425
## 16	1	369	396
## 17	1	277	309
## 18	1	273	296
## 19	1	247	264
## 20	1	334	367
## 21	1	331	349
## 22	1	594	611
## 23	1	338	342
## 24	1	383	403
## 25	1	285	306
## 26	1	119	127
## 27	1	124	142
## 28	1	796	961
## 29	1	137	154
## 2 <i>9</i> ## 30	1	644	961
## 30 ## 31	1	722	961
## 32	1	590	961
## 32 ## 33	3	750	775
## 34	1	398	422
## 3 <del>4</del> ## 35	2	475	499
## 36	1	296	315
## 36 ## 37	1	166	
			178
## 38 ## 39	1 1	503 531	546 565
## 40	1	545	
	1		568
	1	523	573 567
	1	524	567
## 43	1	437	498
## 44	1	498	540
## 45		461	510
## 46	1	477	514
## 47	1	520	545
## 48	1	522	554
## 49	1	555	591
## 50	1	506	531
## 51 ## 50	1	508	545
## 52	1	513	545
## 53	1	490	510
## 54	1	573	607
## 55	1	527	546
## 56	1	511	543
## 57	1	538	560
## 58	1	468	485
## 59	1	524	548
## 60	1	511	521
## 61	1	541	568
## 62	1	531	556
## 63	1	357	380
## 64	1	523	553
## 65	1	456	485
## 66	1	61	69

##	67	1	467	531
##	68	1	445	489
##	69	1	452	504
##	70	1	556	602
##	71	1	500	557
##	72	1	465	514
##	73	1	460	484
##	74	1	405	461
##	75	1	374	386
##	76	1	442	459
##	77	1	433	471
##	78	1	436	490
##	79	1	448	499
##	80	1	408	450
##	81	1	411	473
##	82	1	274	469
##	83	2	295	456
##	84	1	291	397
##	85	1	424	556
##	86	1	283	510
##	87	1	381	566
##	88	2	412	522
##	89	1	219	395
##	90	2	152	305
##	91	1	332	512
##	92	1	355	476
##	93	1	235	372
##	94	1	310	526
##	95	1	262	467
	96	1	250	371
##	97	1	349	540
##	98	1	261	423
##	99	1	333	478
##	100	1	237	382
##	101	1	383	626
##	102	1	230	384
##	103	1	292	500
##	104	1	213	336
##	105	1	318	480
##	106	1	323	512
##	107	1	237	443
##	108	2	259	456
##	109	1	312	452
##	110	1	501	541
##	111	1	77	77
##	112	1	322	332
##	113	1	478	536
##	114	1	226	248
##	115	1	385	408
##	116	1	364	402
##	117	1	442	494
##	118	1	535	557
##	119	1	465	491
##	120	1	506	522

##	121	1	515	551
##	122	2	461	498
##	123	1	523	543
##	124	1	59	65
##	125	1	533	550
##	126	1	692	722
##	127	1	467	501
##	128	1	488	506
##	129	1	505	516
##	130	1	286	307
##	131	1	497	522
##	132	1	523	546
##	133	1	490	516
##	134	1	484	500
##	135	1	478	506
##	136	1	474	512
##	137	1	450	491
##	138	1	507	530
##	139	1	602	638
##	140	1	535	565
##	141	1	487	517
##	142	1	529	
				558
##	143	1	302	321
##	144	1	499	526
##	145	2	426	448
##	146	2	619	641
##	147	1	99	104
##	148	1	329	338
##	149	1	421	451
##	150	1	442	458
##	151	1	82	85
##	152	1	478	501
##	153	3	552	595
##	154	1	319	346
##	155	1	439	500
##	156	1	428	458
##	157	2	409	430
##	158	1	547	597
##	159	2	368	376
		1		
##	160		390	414
##	161	1	471	495
##	162	1	471	495
##	163	1	472	496
##	164	2	529	541
##	165	1	62	65
##	166	1	354	375
##	167	1	469	494
##	168	2	429	457
##	169	2	370	406
##	170	1	441	492
##	171	2	337	379
##	172	1	462	499
##	173	1	98	107
##	174	2	388	424
	•		<del>-</del>	

	175	1	439	462
##	176	1	436	469
##	177	1	388	417
##	178	1	328	345
##	179	2	353	391
##	180	1	332	374
##	181	1	419	442
##	182	1	106	108
##	183	1	322	353
##	184	2	439	459
##	185	1	502	542
##	186	2	417	450
##	187	2	337	363
##	188	2	462	513
##	189	2	374	402
##	190	2	401	436
##	191	1	361	391
##	192	1	457	533
##	193	1	405	426
##	194	1	499	530
##	195	1	483	501
##	196	1	126	137
##	197	1	103	121
##	198	1	171	179
##	199	1	115	129
##	200	1	123	134
##	201	1	425	439
##	202	2	400	430
##	203	1	384	415
##	204	1	253	257
##	205	2	382	406
##	206	1	591	612
##	207	1	293	312
##	208	1	457	487
	209	1	454	468
	210	1	425	434
##	211	1	465	475
	212	1	480	506
	213	1	370	380
	214	1	421	429
	215	1	432	449
	216	1	442	461
	217	1	433	447
	218	1	479	501
	219	1	327	373
	220	1	412	434
##	221	1	414	428
	222	1	404	449
	223	1	520	543
	224	1	520	543
	225	1	435	458
	226	1	416	431
	227	1	354	366
##	228	1	404	442

##	229	1	441	464
##	230	2	455	488
##	231	1	357	418
##	232	1	377	409
##	233	2	651	686
##	234	1	350	402
	235	2	520	541
##	236	1	357	410
##	237	1	658	678
##	238	1	399	431
##	239	1	322	353
##	240	2	631	725
##	241	2	553	640
##	242	1	433	468
##	243	1	412	453
##	244	1	347	391
##	245	1	421	457
##	246	1	450	495
	247	2	775	843
##	248	2	622	686
##	249	1	409	471
##	250	1	380	429
##	251	1	447	470
##	252	1	419	464
##	253	1	400	434
##	254	1	442	470
##	255	1	568	608
##	256	1	453	494
##	257	1	418	443
##	258	1	463	486
##	259	1	438	475
##	260	1	419	438
##	261	1	432	458
##	262	1	477	497
##	263	1	392	413
##	264	1	406	445
##	265	1	549	583
##	266	1	527	553
##	267	1	449	465
##	268	1	447	480
##	269	1	414	437
##	270	1	338	366
##	271	1	384	402
##	272	1	543	615
##	273	1	421	461
##	274	1	354	377
##	275	1	424	452
##	276	1	361	372
##	277	1	459	485
##	278	1	412	433
##	279	1	379	398
##	280	2	525	553
##	281	1	508	543
##	282	1	603	634

##	283	1	74	78
##	284	1	504	562
##	285	1	431	476
##	286	1	380	398
##	287	2	336	350
##	288	2	493	510
##	289	1	465	492
##	290	1	474	502
##	291	1	508	550
##	292	1	480	546
##	293	1	492	539
##	294	1	353	367
##	295	1	542	557
##	296	1	393	416
##	297	1	600	636
##	298	1	507	575
##	299	1	392	415
##	300	2	658	698
	301	2	498	507
##	302	1	555	603
##	303	1	492	522
##	304	1	235	260
##	305	1	423	441
##	306	1	391	406
##	307	1	366	387
##	308	3	630	679
##	309	2	508	535
##	310	1	370	386
##	311	1	357	366
##	312	1	427	446
##	313	1	442	458
##	314	1	476	535
##	315	1	418	424
##	316	1	451	457
##	317	1	425	435
##	318	1	528	546
##	319	1	511	514
	320	1	400	415
	321	1	441	446
	322	1	455	467
	323	1	440	453
	324	1	433	447
	325	1	422	424
	326	1	411	426
	327 328	1 1	466	482
	329	1	394	418
	330	1	442 467	455 491
	331	1	443	491
		1		
	332 333	1	298	334 569
	334	1	541 489	497
	335	1	469	497
	336	1	452	480
##	JJU	1	±02	400

##	337	1	516	535
	338	1	79	82
	339	1	58	61
	340	1	514	525
	341	1	451	465
	342	1	472	476
	343	1	377	386
	344	1	472	483
	345	1	492	502
	346	1	390	411
##	347	1	428	448
##	348	1	681	704
##	349	1	446	447
##	350	1	485	500
##	351	1	469	479
##	352	1	354	367
##	353	1	485	489
##	354	1	388	407
##	355	1	440	459
##	356	1	456	461
##	357	1	420	436
##	358	1	322	333
##	359	1	530	548
##	360	1	481	510
##	361	1	427	438
##	362	1	451	463
##	363	1	444	457
##	364	1	486	493
##	365	1	331	337
##	366	1	74	75
##	367	1	338	356
##	368	2	447	487
##	369	1	424	455
##	370	1	513	533
	371	2	611	689
	372	2	525	591
	373	1	398	451
	374	1	387	421
	375	1	381	409
	376	1	396	417
	377	1	441	469
	378	1	565	591
	379	1	458	492
	380	1	388	402
##	381	1	388	402
##	382	1	550	584
##	383	1	531	600
##	384	1	506	556
##	385	1	527	562
##	386	1	468	555
	387	1	475	539
	388	1	351	385
	389	1	405	429
##	390	1	441	477

```
## 391
                                             381
                                                             417
## 392
                         1
                                             323
                                                             355
## 393
                         2
                                            459
                                                             513
## 394
                         1
                                            545
                                                             606
## 395
                         1
                                            359
                                                             399
## 396
                         1
                                            342
                                                             391
## 397
                         1
                                            368
                                                             387
## 398
                                                             546
                         1
                                            496
## 399
                         1
                                            458
                                                             493
## 400
                         1
                                                             552
                                            531
## 401
                         1
                                            486
                                                             503
                                                             377
## 402
                         1
                                            363
## 403
                                            528
                         1
                                                             547
## 404
                                                             407
                         1
                                            391
## 405
                         1
                                            339
                                                             360
## 406
                         1
                                            423
                                                             428
## 407
                         1
                                            402
                                                             416
## 408
                         1
                                            398
                                                             406
## 409
                                            343
                                                             360
                         1
## 410
                         1
                                            503
                                                             527
## 411
                         1
                                            415
                                                             423
## 412
                                            516
                                                             545
## 413
                                            439
                                                             463
                         1
```

### Creating a new dataframe for mean heart beat rate

```
mean_heart_rate = heartnew_df %>%
  group_by(Id, ActivityDate) %>%
  summarise(Mean Heartrate = mean(Value))
## `summarise()` has grouped output by 'Id'. You can override using the `.groups`
## argument.
mean_heart_rate
## # A tibble: 334 x 3
## # Groups:
             Id [14]
##
              Id ActivityDate Mean_Heartrate
##
           <dbl> <chr>
                                       <dbl>
## 1 2022484408 2016-04-12
                                        75.8
## 2 2022484408 2016-04-13
                                        80.3
## 3 2022484408 2016-04-14
                                        72.6
## 4 2022484408 2016-04-15
                                        80.4
## 5 2022484408 2016-04-16
                                        76.0
## 6 2022484408 2016-04-17
                                        83.9
## 7 2022484408 2016-04-18
                                        82.7
## 8 2022484408 2016-04-19
                                        82.0
## 9 2022484408 2016-04-20
                                        83.4
## 10 2022484408 2016-04-21
                                        86.4
## # i 324 more rows
```

## Merging the new data frame with final

```
final = merge(final, mean_heart_rate, by = c('Id', 'ActivityDate'))
final
```

##		Id	ActivityDate	TotalSteps	TotalDistance	TrackerDistance
##	1	2026352035	2016-04-17	838	0.52	0.52
##	2	2026352035	2016-04-25	6017	3.73	3.73
##	3	2026352035	2016-05-02	7018	4.35	4.35
##	4	2026352035	2016-05-09	10685	6.62	6.62
##	5	2347167796	2016-04-13	10352	7.01	7.01
##	6	2347167796	2016-04-14	10129	6.70	6.70
##	7	2347167796	2016-04-15	10465	6.92	6.92
##	8	2347167796	2016-04-17	5472	3.62	3.62
##	9	2347167796	2016-04-18	8247	5.45	5.45
##	10	2347167796	2016-04-19	6711	4.44	4.44
##	11	2347167796	2016-04-21	10080	6.75	6.75
##	12	2347167796	2016-04-22	7804	5.16	5.16
##	13	2347167796	2016-04-23	16901	11.37	11.37
##	14	2347167796	2016-04-24	9471	6.26	6.26
##	15	2347167796	2016-04-25	9482	6.38	6.38
##	16	2347167796	2016-04-26	5980	3.95	3.95
##	17	2347167796	2016-04-27	11423	7.58	7.58
##	18	2347167796	2016-04-28	5439	3.60	3.60
	19	2347167796	2016-04-29	42	0.03	0.03
##	20	4020332650	2016-04-12	8539	6.12	6.12
##	21	4020332650	2016-04-16	1982	1.42	1.42
##	22	4020332650	2016-05-03	4496	3.22	3.22
	23	4020332650	2016-05-04	10252	7.35	7.35
	24	4020332650	2016-05-05	11728	8.43	8.43
	25	4020332650	2016-05-06	4369	3.13	3.13
##	26	4020332650	2016-05-08	5862	4.20	4.20
##	27	4020332650	2016-05-10	5546	3.98	3.98
##	28	4388161847	2016-04-15	8758	6.73	6.73
## ##	29 30	4388161847	2016-04-16 2016-04-17	6580 4660	5.06	5.06
##	31	4388161847			3.58	3.58
##	32	4388161847 4388161847	2016-04-18 2016-04-19	11009 10181	9.10 7.83	9.10 7.83
	33	4388161847	2016-04-19	10553	8.12	8.12
##	34	4388161847	2016-04-20	10055	7.73	7.73
##	35	4388161847	2016-04-21	12139	9.34	9.34
##		4388161847	2016-04-23	13236	10.18	10.18
	37	4388161847	2016-04-24	10243	7.88	7.88
##		4388161847	2016-04-26	9461	7.28	7.28
##		4388161847	2016-04-27	11193	8.61	8.61
##		4388161847	2016-04-28	10074	7.75	7.75
	41	4388161847	2016-04-30	12533	9.64	9.64
	42	4388161847	2016-05-01	10255	7.89	7.89
	43	4388161847	2016-05-02	10096	8.40	8.40
##	44	4388161847	2016-05-04	12375	9.52	9.52
##	45	4388161847	2016-05-05	9603	7.38	7.38
##	46	4388161847	2016-05-05	9603	7.38	7.38
##	47	4388161847	2016-05-07	22770	17.54	17.54
##	48	4388161847	2016-05-08	17298	14.38	14.38
##	49	4388161847	2016-05-09	10218	7.86	7.86
##	50	4388161847	2016-05-10	10299	7.92	7.92
##	51	4388161847	2016-05-11	10201	7.84	7.84
##	52	4558609924	2016-04-21	13743	9.08	9.08
##	53	4558609924	2016-04-26	9148	6.05	6.05

##	54	4558609924	2016-04-29	7833	5.18	5.18
##		4558609924	2016-05-01	3428	2.27	2.27
	56	4558609924	2016-05-08	6543	4.33	4.33
	57	5553957443	2016-04-12	11596	7.57	7.57
	58	5553957443	2016-04-13	4832	3.16	3.16
	59	5553957443	2016-04-14	17022	11.12	11.12
##	60	5553957443	2016-04-15	16556	10.86	10.86
##	61	5553957443	2016-04-16	5771	3.77	3.77
##	62	5553957443	2016-04-17	655	0.43	0.43
##	63	5553957443	2016-04-18	3727	2.43	2.43
##	64	5553957443	2016-04-19	15482	10.11	10.11
##	65	5553957443	2016-04-20	2713	1.77	1.77
##	66	5553957443	2016-04-21	12346	8.06	8.06
##	67	5553957443	2016-04-22	11682	7.63	7.63
##	68	5553957443	2016-04-23	4112	2.69	2.69
##	69	5553957443	2016-04-24	1807	1.18	1.18
##	70	5553957443	2016-04-25	10946	7.19	7.19
##	71	5553957443	2016-04-26	11886	7.76	7.76
##	72	5553957443	2016-04-27	10538	6.88	6.88
##	73	5553957443	2016-04-28	11393	7.63	7.63
##	74	5553957443	2016-04-29	12764	8.33	8.33
##	75	5553957443	2016-04-30	1202	0.78	0.78
##	76	5553957443	2016-05-01	5164	3.37	3.37
##	77	5553957443	2016-05-01	9769	6.38	6.38
##	78	5553957443	2016-05-03	12848	8.39	8.39
##	79	5553957443	2016-05-04	4249	2.77	2.77
##	80	5553957443	2016-05-05	14331	9.51	9.51
##	81	5553957443	2016-05-06	9632	6.29	6.29
##	82	5553957443	2016-05-07	1868	1.22	1.22
##	83	5553957443	2016-05-08	6083	4.00	4.00
##	84	5553957443	2016-05-09	11611	7.58	7.58
##	85	5553957443	2016-05-10	16358	10.71	10.71
##	86	5553957443	2016-05-11	4926	3.22	3.22
##	87	5553957443	2016-05-12	3121	2.04	2.04
##	88	5577150313	2016-04-12	8135	6.08	6.08
##	89	5577150313	2016-04-13	5077	3.79	3.79
##		5577150313	2016-04-14	8596	6.42	6.42
	91		2016-04-15			
	92	5577150313 5577150313	2016-04-16	12087 14269	9.08 10.66	9.08 10.66
##		5577150313	2016-04-17	12231	9.14	9.14
##		5577150313	2016-04-18	9893	7.39	7.39
	95	5577150313	2016-04-19	12574	9.42	9.42
##	96	5577150313	2016-04-20	8330	6.22	6.22
##	97	5577150313	2016-04-21	10830	8.09	8.09
##	98	5577150313	2016-04-22	9172	6.85	6.85
##	99	5577150313	2016-04-23	7638	5.71	5.71
##		5577150313	2016-04-24	15764	11.78	11.78
##		5577150313	2016-04-25	6393	4.78	4.78
##		5577150313	2016-04-26	5325	3.98	3.98
##		5577150313	2016-04-27	6805	5.14	5.14
##		5577150313	2016-04-27	9841	7.43	7.43
##		5577150313	2016-04-28	7924	7.43 5.92	5.92
##		5577150313	2016-04-29	12363	9.24	9.24
		5577150313	2016-04-30	13368	9.24	9.24
##	101	0011100010	Z010-09 <b>-</b> 01	19900	5.55	9.99

##	108	5577150313	2016-05-02	7439	5.56	5.56
##		5577150313	2016-05-03	11045	8.25	8.25
##		5577150313	2016-05-04	5206	3.89	3.89
##		5577150313	2016-05-05	7550	5.64	5.64
##		5577150313	2016-05-10	8869	6.65	6.65
##		5577150313	2016-05-11	4038	3.04	3.04
##		6117666160	2016-04-16	14450	10.91	10.91
##		6117666160	2016-04-17	7150	5.40	5.40
##		6117666160	2016-04-18	5153	3.91	3.40
##		6117666160	2016-04-19	11135	8.41	8.41
##		6117666160	2016-04-20	10449	8.02	8.02
##		6117666160	2016-04-21	19542		
##		6117666160	2016-04-21	8206	15.01 6.20	15.01 6.20
##		6117666160				
			2016-04-23	11495	8.68	8.68
##		6117666160	2016-04-24	7623	5.76	5.76
##		6117666160	2016-04-27	9411	7.11	7.11
##		6117666160	2016-04-28	3403	2.60	2.60
##		6117666160	2016-04-29	9592	7.24	7.24
##		6117666160	2016-05-01	8915	6.73	6.73
##		6117666160	2016-05-05	9799	7.40	7.40
##		6117666160	2016-05-06	3365	2.68	2.68
##		6117666160	2016-05-07	7336	5.54	5.54
##		6117666160	2016-05-08	7328	5.53	5.53
##		6117666160	2016-05-09	4477	3.38	3.38
##		6775888955	2016-04-13	4053	2.91	2.91
##		6775888955	2016-04-14	5162	3.70	3.70
##		6775888955	2016-04-15	1282	0.92	0.92
##		6962181067	2016-04-12	10199	6.74	6.74
##		6962181067	2016-04-13	5652	3.74	3.74
##		6962181067	2016-04-14	1551	1.03	1.03
##		6962181067	2016-04-15	5563	3.68	3.68
##		6962181067	2016-04-16	13217	8.74	8.74
##		6962181067	2016-04-17	10145	6.71	6.71
##		6962181067	2016-04-18	11404	7.54	7.54
##		6962181067	2016-04-19	10742	7.10	7.10
##		6962181067	2016-04-20	13928	9.55	9.55
##	144	6962181067	2016-04-21	11835	9.71	7.88
##		6962181067	2016-04-22	10725	7.09	7.09
##		6962181067	2016-04-23	20031	13.24	13.24
##		6962181067	2016-04-24	5029	3.32	3.32
##		6962181067	2016-04-25	13239	9.27	9.08
##		6962181067	2016-04-26	10433	6.90	6.90
##		6962181067	2016-04-27	10320	6.82	6.82
##	151	6962181067	2016-04-28	12627	8.35	8.35
##		6962181067	2016-04-29	10762	7.11	7.11
##	153	6962181067	2016-04-30	10081	6.66	6.66
##	154	6962181067	2016-05-01	5454	3.61	3.61
##	155	6962181067	2016-05-02	12912	8.54	8.54
##	156	6962181067	2016-05-03	12109	8.12	8.12
##	157	6962181067	2016-05-04	10147	6.71	6.71
##	158	6962181067	2016-05-05	10524	6.96	6.96
##	159	6962181067	2016-05-06	5908	3.91	3.91
##	160	6962181067	2016-05-07	6815	4.50	4.50
##	161	6962181067	2016-05-08	4188	2.77	2.77

##	162	6962181067	2016-05-09	12342	8.72	8.68
		6962181067	2016-05-10	15448	10.21	10.21
		6962181067	2016-05-11	6722	4.44	4.44
		6962181067	2016-05-12	3587	2.37	2.37
		7007744171	2016-04-16	4631	3.10	3.10
		7007744171	2016-05-01	5600	3.75	3.75
		8792009665	2016-04-12	2564	1.64	1.64
		8792009665	2016-04-13	1320	0.84	0.84
		8792009665	2016-04-14	1219	0.78	0.78
		8792009665	2016-04-14	2483	1.59	1.59
		8792009665	2016-04-15	3147	2.01	2.01
		8792009665		4068	2.60	2.60
		8792009665	2016-04-22			
			2016-04-23	5245	3.36	3.36
		8792009665	2016-04-27	1758	1.13	1.13
		8792009665	2016-04-28	6157	3.94	3.94
		8792009665	2016-04-29	8360	5.35	5.35
		8792009665	2016-04-30	7174	4.59	4.59
		8792009665	2016-05-01	1619	1.04	1.04
		8792009665	2016-05-02	1831	1.17	1.17
		8792009665	2016-05-03	2421	1.55	1.55
	182	8792009665	2016-05-04	2283	1.46	1.46
##		LoggedActiv		VeryActiveDist		atelyActiveDistance
##			0.000000		0.00	0.00
##			0.000000		0.00	0.00
##			0.000000		0.00	0.00
##			0.000000		0.00	0.00
##			0.000000		1.66	1.94
##			0.000000		0.02	2.74
##			0.000000		0.07	1.42
##			0.000000		0.08	0.28
##			0.000000		0.79	0.86
##			0.000000		0.00	0.00
##			0.000000		1.85	1.53
##			0.000000		0.56	1.68
##			0.000000		2.78	1.45
	14		0.000000		0.00	0.00
##			0.000000		1.27	0.52
##	16		0.000000		0.00	0.00
##	17		0.000000		1.86	0.40
##	18		0.000000		0.00	0.00
	19		0.000000		0.00	0.00
	20		0.000000		0.15	0.24
	21		0.000000		0.45	0.37
	22		0.000000		0.00	0.00
	23		0.000000		0.67	1.04
	24		0.000000		2.62	1.68
	25		0.000000		0.00	0.00
	26		0.000000		0.00	0.00
	27		0.000000		0.00	0.00
	28		0.000000		0.00	0.00
	29		0.000000		0.21	0.40
##	30		0.000000		0.00	0.00
##			0.000000		3.56	0.40
##	32		0.000000		1.37	0.69

##	33	0.00000	1.10	1.72
##	34	0.00000	0.37	0.39
	35	0.00000	3.30	1.11
##	36	0.000000	4.50	0.32
##	37	0.000000	1.08	0.51
##	38	0.000000	0.94	1.06
##	39	0.000000	0.70	2.51
	40	0.000000	1.29	0.43
##	41	0.000000	0.70	2.00
##	42	0.000000	1.01	0.68
	43	0.000000	3.77	0.08
##	44	0.000000	2.79	0.93
##	45	0.000000	0.63	1.67
##	46	0.00000	0.63	1.67
##	47	0.00000	9.45	2.77
##	48	0.00000	9.89	1.26
##	49	0.00000	0.34	0.73
##	50	0.00000	0.81	0.65
##	51	0.00000	0.53	0.79
##	52	0.000000	0.42	0.97
##	53	0.000000	0.43	2.03
##	54	0.000000	1.02	1.85
##	55	0.000000	0.00	0.00
##	56	0.000000	1.80	0.50
##	57	0.000000	1.37	0.79
##	58	0.000000	0.00	0.00
##	59	0.000000	4.00	2.45
##	60	0.000000	4.16	1.98
##	61	0.000000	0.00	0.00
##	62	0.000000	0.00	0.00
##	63	0.000000	0.00	0.00
##	64	0.00000	4.28	1.66
##	65	0.00000	0.00	0.00
##	66	0.000000	2.95	2.16
##	67	0.00000	1.38	0.63
##	68	0.00000	0.00	0.00
##	69	0.00000	0.00	0.00
##	70	0.00000	2.93	0.57
	71	0.000000	2.37	0.93
	72	0.000000	1.14	1.00
	73	0.000000	3.71	0.75
	74	0.000000	2.79	0.64
	75 76	0.000000	0.00	0.00
	76	0.000000	0.00	0.00
	77	0.000000	1.06	0.41
	78	0.000000	1.50	1.20
##		0.000000	0.00	0.00
##		0.00000	3.43	1.66
##	81	0.00000	1.52	0.54
##	82	0.000000	0.00	0.00
##	83	0.00000	0.22	0.47
##	84	0.00000	2.13	0.89
##	85	0.00000	3.87	1.61
##		0.00000	0.00	0.00

##	87	0.00000	0.58	0.40
##	88	0.000000	3.60	0.38
##	89	0.00000	0.32	0.22
##	90	0.00000	3.33	0.31
	91	0.00000	3.92	1.60
	92	0.000000	6.64	1.28
	93	0.000000	5.98	0.83
	94	0.000000	4.86	0.72
			7.02	0.72
	95	0.000000		
##	96	0.000000	4.12	0.34
	97	0.000000	3.65	1.66
	98	0.000000	2.42	0.79
	99	0.000000	1.21	0.36
##	100	0.000000	7.65	2.15
##	101	0.000000	1.35	0.67
##	102	0.000000	0.85	0.65
##	103	0.000000	1.81	0.40
##	104	0.00000	3.25	1.17
##	105	0.00000	2.84	0.61
##	106	0.000000	5.83	0.79
##	107	0.00000	5.31	1.44
##	108	0.00000	1.12	0.35
##	109	0.00000	4.52	0.15
##	110	0.00000	1.56	0.25
##	111	0.000000	2.50	0.47
##	112	0.000000	2.56	0.75
##	113	0.000000	1.83	0.30
##	114	0.000000	0.58	0.85
##	115	0.000000	0.00	0.00
##				
	116	0.000000	0.00	0.00
##	117	0.000000	0.00	0.00
##	118	0.000000	2.03	0.48
##	119	0.00000	0.98	0.40
##	120	0.000000	0.00	0.00
##	121	0.00000	0.00	0.00
##	122	0.000000	0.00	0.00
##	123	0.00000	0.00	0.00
	124	0.000000	0.00	0.00
##	125	0.000000	0.00	0.00
##	126	0.00000	0.00	0.00
##	127	0.00000	0.00	0.00
##	128	0.00000	0.00	0.00
##	129	0.00000	0.00	0.00
##	130	0.00000	0.00	0.00
	131	0.00000	0.00	0.00
	132	0.000000	1.11	0.58
	133	0.000000	0.87	0.86
	134	0.000000	0.00	0.00
	135	0.000000	3.40	0.83
	136	0.000000	0.57	1.21
	137	0.000000		0.00
			0.00	
	138	0.000000	0.00	0.00
	139	0.000000	3.66	0.19
##	140	0.000000	0.33	0.68

##	141	0.000000 0.83		2.39
##	142	0.000000 2.10		2.13
##	143	0.000000 4.28		0.19
##	144	4.081692 3.99		2.10
##	145	0.000000 1.77		1.55
##	146	0.000000 4.20		2.00
##	147	0.000000 0.00		0.00
##	148	2.785175 3.02		1.68
##	149	0.000000 2.58		0.42
##	150	0.000000 0.55		2.02
##	151	0.000000 2.51		0.24
##	152	0.000000 0.82		0.48
##	153	0.000000 2.24		0.76
##	154	0.000000 0.00		0.00
##	155	0.000000 1.20		2.00
##	156	0.000000 1.74		2.04
##	157	0.000000 0.47		1.68
##	158	0.000000 0.99		1.16
##	159	0.000000 0.00		0.00
##	160	0.000000 0.00		0.00
##	161	0.000000 0.00		0.52
##	162	3.167822 3.90		1.18
##	163	0.000000 3.47		1.75
##	164	0.000000 1.49		0.31
##	165	0.000000 0.00		0.25
##	166	0.000000 0.00		0.00
##	167	0.000000 0.00		0.00
##	168	0.000000 0.00		0.00
##	169	0.000000 0.00		0.00
##	170	0.000000 0.00		0.00
##	171	0.000000 0.00		0.00
##	172	0.000000 0.00		0.28
##	173	0.000000 0.05		0.28
##	174	0.000000 0.16		0.44
##	175	0.000000 0.00		0.00
##	176	0.000000 0.00		0.00
##	177	0.000000 0.14		0.28
	178	0.000000 0.33		0.36
	179	0.000000 0.00		0.00
	180	0.000000 0.00		0.00
	181	0.000000 0.00		0.00
	182	0.000000 0.00		0.00
##		LightActiveDistance SedentaryActiveDistance VeryActiveMinu		
##		0.52 0.00	0	
##		3.73 0.00	0	
##		4.35 0.00	0	
##		6.60 0.00	0	
##		3.41 0.00	19	
##		3.94 0.00	1	
##		5.43 0.00	1	
##		3.26 0.00	1	
##		3.79 0.00	11	
##		4.44 0.00	0	
##	11	3.38 0.00	23	

	12	2.92	0.00	9
##	13	7.15	0.00	32
##	14	6.26	0.00	0
##	15	4.60	0.00	15
##	16	3.95	0.00	0
##	17	5.32	0.00	26
##	18	3.60	0.00	0
##	19	0.03	0.00	0
##	20	5.68	0.00	4
##	21	0.59	0.00	65
##	22	3.15	0.05	0
##	23	5.58	0.00	13
##	24	4.04	0.07	38
##	25	3.10	0.01	0
##	26	4.15	0.00	0
##	27	3.87	0.04	0
##	28	6.73	0.00	0
	29	4.45	0.00	6
	30	3.58	0.00	0
	31	5.14	0.00	27
	32	5.77	0.00	20
	33	5.29	0.00	19
	34	6.98	0.00	7
	35	4.92	0.00	77
	36	5.35	0.00	58
	37	6.30	0.00	14
	38	5.27	0.00	14
	39	5.39	0.00	11
	40	6.03	0.00	19
##	41	6.94	0.00	14
##	42	6.20	0.00	12
	43	4.55	0.00	33
##	44	5.80	0.00	35
	45	5.09	0.00	12
	46	5.09	0.00	12
	47	5.33	0.00	120
##		3.23	0.00	107
##		6.79	0.00	6
##		6.46	0.00	13
##		6.53	0.00	8
##		7.70	0.00	6
##		3.59	0.00	12
##		2.31	0.00	15
##		2.27	0.00	0
##		2.02	0.00	66
##		5.41	0.00	19
##		3.16	0.00	0
##		4.67	0.00	61
##		4.71	0.00	58
##		3.77	0.00	0
##		0.43	0.00	0
##		2.43	0.00	0
##		4.18	0.00	69
##		1.77	0.00	0
	~~			V

## 66	2.96	0.00	47
## 67	5.60	0.00	25
## 68	2.68	0.00	0
## 69	1.18	0.00	0
## 70	3.69	0.00	51
## 71	4.46	0.00	40
## 72	4.74	0.00	16
## 73	3.17	0.00	49
## 74	4.91	0.00	46
## 75	0.78	0.00	0
## 76	3.37	0.00	0
## 77	4.90	0.00	23
## 78	5.68	0.00	26
## 79	2.77	0.00	0
## 80	4.43	0.00	44
## 81	4.23	0.00	21
## 82	1.22	0.00	0
## 83	3.30	0.00	3
## 84	4.56	0.00	59
## 85	5.20	0.00	61
## 86	3.22	0.00	0
## 87	1.06	0.00	8
## 88	2.10	0.00	86
## 89	3.25	0.00	15
## 90	2.78	0.00	118
## 91	3.56	0.00	115
## 92	2.73	0.00	184
## 93	2.32	0.00	200
## 94	1.82	0.00	114
## 95	1.76	0.00	108
## 96	1.76	0.00	87
## 97	2.78	0.00	110
## 98	3.30	0.00	62
## 99	4.14	0.00	24
## 100	1.98	0.00	210
## 101	2.76	0.00	61
## 102	2.47	0.00	38
## 103	2.93	0.00	63
## 104	3.01	0.00	99
## 105	2.47	0.00	97
## 106	2.61	0.00	207
## 107	3.24	0.00	194
## 108	4.07	0.00	37
## 109	3.57	0.00	97
## 110	2.08	0.00	25
## 111	2.67	0.00	45
## 112	3.35	0.00	104
## 113	0.89	0.00	45
## 114	9.48	0.00	7
## 115	5.40	0.00	0
## 116	3.89	0.00	0
## 117	8.41	0.00	0
## 118	5.52	0.00	26
## 119	5.62	0.00	11

##	120	6.20	0.00	0
	121	8.68	0.00	0
	122	5.76	0.00	0
	123	7.11	0.00	0
	124	2.60	0.00	0
	125	7.24	0.00	0
	126	6.73	0.00	0
	127	7.40	0.00	0
	128	2.68	0.00	0
	129	5.54	0.00	0
	130	5.53	0.00	0
	131	3.38	0.00	0
	132	1.22	0.00	17
	133	1.97	0.00	14
	134	0.92	0.00	0
	135	2.51	0.00	50
	136	1.96	0.00	8
	137	1.03	0.00	0
	138	3.68	0.00	0
	139	4.88	0.00	50
	140	5.69	0.00	5
##	141	4.32	0.00	13
##	142	2.87	0.00	35
##	143	5.09	0.00	48
##	144	3.51	0.11	53
##	145	3.77	0.00	30
##	146	7.04	0.00	58
##	147	3.32	0.00	0
##	148	4.46	0.10	35
##	149	3.90	0.00	36
##	150	4.25	0.00	7
##	151	5.59	0.00	38
##	152	5.81	0.00	12
	153	3.67	0.00	32
	154	3.61	0.00	0
	155	5.34	0.00	18
	156	4.33	0.00	21
	157	4.55	0.00	15
	158	4.81	0.00	14
	159	3.91	0.00	0
	160	4.50	0.00	0
	161	2.25	0.00	0
	162	3.65	0.00	43
	163	4.99	0.00	62
	164	2.65	0.00	24
	165	2.11	0.00	0
	166	3.10	0.00	0
	167	3.75	0.00	0
	168	1.64	0.00	0
	169	0.84	0.00	0
	170	0.78	0.00	0
	171	1.59	0.00	0
	172	1.74	0.00	0
##	173	2.27	0.00	1

##	174	2.75	0	.00	8	
##	175	1.13	0	.00	0	
##	176	3.94	0	.00	0	
##	177	4.93	0	.00	6	
##	178	3.91	0	.00	10	
##	179	1.04	0	.00	0	
##	180	1.17	0	.00	0	
##	181	1.55	0	.00	0	
##	182	1.46	0	.00	0	
##		${\tt FairlyActiveMinutes}$	${\tt LightlyActiveMinutes}$		${\tt Calories}$	Time
	1	0	60	1053		12:00:00
##	2	0	260	821		12:00:00
##	3	0	355	716		12:00:00
##	4	0	401	543		12:00:00
##		32	195	676		12:00:00
	6	48	206	705		12:00:00
	7	24	284	720		12:00:00
##		7	249	508		12:00:00
##		16	206	678		12:00:00
##		7	382	648		12:00:00
##		26	208	761		12:00:00
	12	27	206	781		12:00:00
##		35	360	591		12:00:00
	14	0	360	584		12:00:00
##		11	277	653		12:00:00
	16	0	227	732		12:00:00
	17	9	295	623		12:00:00
	18	0	229	764		12:00:00
## ##	19	0	4	2		12:00:00 12:00:00
##		15 21	331 55	712 1222		12:00:00
##		0	174	950		12:00:00
##		46	346	531		12:00:00
##		42	196	916		12:00:00
##		0	177	855		12:00:00
##		0	263	775		12:00:00
##		0	206	774		12:00:00
##		0	299	837		12:00:00
##		9	253	609		12:00:00
##	30	0	201	721	2572	12:00:00
##	31	8	239	1017	3274	12:00:00
##	32	16	249	704	3015	12:00:00
##	33	42	228	696	3083	12:00:00
##	34	12	272	853	3069	12:00:00
##	35	25	220	945		12:00:00
##	36	5	215	749		12:00:00
##	37	8	239	584		12:00:00
##		23	224	673		12:00:00
##	39	48	241	684		12:00:00
##		9	234	878		12:00:00
##		43	300	537		12:00:00
##		15	241	579		12:00:00
##		4	204	935		12:00:00
##	44	21	251	632	3162	12:00:00

##	<b>1</b> 5	39	199	896	2899 12:00:00
##		39	199	896	2899 12:00:00
##		56	260	508	4022 12:00:00
##		38	178	576	3934 12:00:00
##		19	258	1020	3013 12:00:00
##		14	267	648	3061 12:00:00
##		18	256	858	2954 12:00:00
##		21	432	844	2486 12:00:00
##		41	283	1062	2223 12:00:00
##		29	197	1002	1918 12:00:00
##		0	190	1121	1692 12:00:00
##		35	238	1019	2666 12:00:00
##		13	277	767	2026 12:00:00
##		0	226	647	1718 12:00:00
##		41	256	693	2324 12:00:00
	60	38	239	689	2254 12:00:00
	61	0	288	521	1831 12:00:00
	62	0	46	943	1397 12:00:00
##		0	206	622	1683 12:00:00
##		28	249	756	2284 12:00:00
##		0	148	598	1570 12:00:00
##		42	177	801	2066 12:00:00
##		16	270	781	2105 12:00:00
##		0	272	443	1776 12:00:00
##		0	104	582	1507 12:00:00
##		11	201	732	2033 12:00:00
##		18	238	752 750	2093 12:00:00
##		16	206	745	1922 12:00:00
##		13	165	743 727	1999 12:00:00
##		15	270	709	2169 12:00:00
##		0	84	506	1463 12:00:00
##		0	237	436	1747 12:00:00
##		9	227	724	1996 12:00:00
##		29	247	812	2116 12:00:00
##		0	224	651	1698 12:00:00
##		29	241	692	2156 12:00:00
##		9	229	761	1916 12:00:00
##		0	96	902	1494 12:00:00
##		8	210	505	1762 12:00:00
##		22	251	667	2272 12:00:00
##		40	265	707	2335 12:00:00
##		0	195	628	1693 12:00:00
##		6	48	222	741 12:00:00
##		16	140	728	3405 12:00:00
##		11	144	776	2551 12:00:00
##		30	176	662	4022 12:00:00
##		54	199	695	4005 12:00:00
##		56	158	472	4274 12:00:00
##		37	159	525	4552 12:00:00
##		32	130	623	3625 12:00:00
##		23	111	733	3501 12:00:00
##		16	113	733 773	3192 12:00:00
##		74	175	670	4018 12:00:00
##		30	200	823	3329 12:00:00
##	<i>3</i> 0	30	200	020	5525 12.00.00

##	99	24	223	627	3152 12:00:00
##	100	65	141	425	4392 12:00:00
##	101	38	214	743	3374 12:00:00
##	102	32	181	759	3088 12:00:00
##	103	16	190	773	3294 12:00:00
##	104	51	141	692	3580 12:00:00
##	105	36	165	739	3544 12:00:00
##	106	45	163	621	4501 12:00:00
##	107	72	178	499	4546 12:00:00
##	108	20	235	732	3014 12:00:00
##	109	8	212	580	3795 12:00:00
##	110	9	141	631	2755 12:00:00
##	111	21	143	1153	3004 12:00:00
##	112	37	194	639	3841 12:00:00
##	113	15	63	257	1665 12:00:00
##	114	15	518	502	2828 12:00:00
##	115	0	312	702	2225 12:00:00
##	116	0	241	759	2018 12:00:00
##	117	0	480	425	2606 12:00:00
##	118	10	349	587	2536 12:00:00
##	119	19	294	579	4900 12:00:00
##	120	0	402	413	2409 12:00:00
##	121	0	512	468	2651 12:00:00
##	122	0	362	711	2305 12:00:00
##	123	0	458	417	2576 12:00:00
##	124	0	141	758	1879 12:00:00
##	125	0	461	479	2560 12:00:00
##	126	0	397	525	2361 12:00:00
##	127	0	487	479	2636 12:00:00
##	128	0	133	673	1838 12:00:00
##	129	0	412	456	2469 12:00:00
##	130	0	318	517	2250 12:00:00
##	131	0	197	125	1248 12:00:00
##	132	18	85	1053	2400 12:00:00
##	133	24	105	863	2507 12:00:00
##	134	0	58	976	2127 12:00:00
##	135	14	189	796	1994 12:00:00
##	136	24	142	548	1718 12:00:00
##	137	0	86	862	1466 12:00:00
##	138	0	217	837	1756 12:00:00
##	139	3	280	741	2173 12:00:00
##	140	13	295	634	2027 12:00:00
##	141	42	238	689	2039 12:00:00
##	142	41	195	659	2046 12:00:00
##	143	4	297	639	2174 12:00:00
##	144	27	214	708	2179 12:00:00
##	145	33	240	659	2086 12:00:00
##	146	41	347	484	2571 12:00:00
##	147	0	199	720	1705 12:00:00
##	148	31	282	637	2194 12:00:00
##	149	7	254	680	2012 12:00:00
##	150	38	279	697	2034 12:00:00
##	151	8	288	621	2182 12:00:00
##	152	15	369	645	2254 12:00:00

##	153	16	237	731	2002	12:00:00
##	154	0	215	722	1740	12:00:00
##	155	39	313	655	2162	12:00:00
##	156	36	267	654	2072	12:00:00
##	157	36	284	683	2086	12:00:00
##	158	22	305	591	2066	12:00:00
##	159	0	299	717	1850	12:00:00
##	160	0	328	745	1947	12:00:00
##	161	14	151	709		12:00:00
##	162	21	231	607		12:00:00
##	163	34	275	626	2361	12:00:00
##	164	7	199	709		12:00:00
##	165	8	105	127		12:00:00
##	166	0	203	1155		12:00:00
##	167	0	237	1142		12:00:00
##	168	0	116	831		12:00:00
##	169	0	82	806		12:00:00
##	170	0	84	853		12:00:00
	171	0	126	937		12:00:00
	172	10	139	744		12:00:00
	173	20	195	817		12:00:00
	174	45	232	795		12:00:00
	175	0	112	900		12:00:00
	176	0	310	714		12:00:00
	177	14	380	634		12:00:00
	178	20	301	749		12:00:00
	179 180	0 0	79 101	834 916		12:00:00
##	IOU	()	101			
##						12:00:00
	181	0	156	739	2297	12:00:00
##		0 0	156 129	739 848	2297 2067	
## ##	181 182	$\begin{array}{c} 0 \\ 0 \\ \\ Total Sleep Records \\ Total Minutes As leep \end{array}$	156 129 TotalTimeInBed	739 848	2297 2067 Heartrate	12:00:00
## ## ##	181 182 1	0 0 TotalSleepRecords TotalMinutesAsleep 1 437	156 129 TotalTimeInBed 498	739 848	2297 2067 Heartrate 68.65625	12:00:00
## ## ## ##	181 182 1 2	0 0 TotalSleepRecords TotalMinutesAsleep 1 437 1 506	156 129 TotalTimeInBed 498 531	739 848	2297 2067 Heartrate 68.65625 99.50581	12:00:00
## ## ##	181 182 1 2 3	0 0 TotalSleepRecords TotalMinutesAsleep 1 437 1 506 1 511	156 129 TotalTimeInBed 498 531 543	739 848	2297 2067 Heartrate 68.65625 99.50581 84.13457	12:00:00
## ## ## ##	181 182 1 2 3 4	0 0 TotalSleepRecords TotalMinutesAsleep 1 437 1 506 1 511	156 129 TotalTimeInBed 498 531	739 848	2297 2067 Heartrate 68.65625 99.50581	12:00:00
## ## ## ## ##	181 182 1 2 3 4 5	0 0 TotalSleepRecords TotalMinutesAsleep 1 437 1 506 1 511 1 531	156 129 TotalTimeInBed 498 531 543 556	739 848	2297 2067 Heartrate 68.65625 99.50581 84.13457 98.23390	12:00:00
## ## ## ## ## ##	181 182 1 2 3 4 5 6	0 0 0 TotalSleepRecords TotalMinutesAsleep 1 437 1 506 1 511 1 531 1 467	156 129 TotalTimeInBed 498 531 543 556 531	739 848	2297 2067 Heartrate 68.65625 99.50581 84.13457 98.23390 73.81290	12:00:00
## ## ## ## ## ##	181 182 1 2 3 4 5 6 7	0 0 TotalSleepRecords TotalMinutesAsleep 1 437 1 506 1 511 1 531 1 467 1 445 1 452 1 556	156 129 TotalTimeInBed 498 531 543 556 531 489	739 848	2297 2067 Heartrate 68.65625 99.50581 84.13457 98.23390 73.81290 72.57948	12:00:00
## ## ## ## ## ## ##	181 182 1 2 3 4 5 6 7 8 9	0 0 TotalSleepRecords TotalMinutesAsleep 1 437 1 506 1 511 1 531 1 467 1 445 1 452 1 556 1 500	156 129 TotalTimeInBed 498 531 543 556 531 489 504 602 557	739 848	2297 2067 Heartrate 68.65625 99.50581 84.13457 98.23390 73.81290 72.57948 75.68526 75.36218 71.23214	12:00:00
## ## ## ## ## ## ##	181 182 1 2 3 4 5 6 7 8 9 10	0 0 TotalSleepRecords TotalMinutesAsleep 1 437 1 506 1 511 1 531 1 467 1 445 1 452 1 556 1 500 1 465	156 129 TotalTimeInBed 498 531 543 556 531 489 504 602 557	739 848	2297 2067 Heartrate 68.65625 99.50581 84.13457 98.23390 73.81290 72.57948 75.68526 75.36218 71.23214 81.30100	12:00:00
## ## ## ## ## ## ## ##	181 182 1 2 3 4 5 6 7 8 9 10 11	0 0 TotalSleepRecords TotalMinutesAsleep 1 437 1 506 1 511 1 531 1 467 1 445 1 452 1 556 1 500 1 465 1 465	156 129 TotalTimeInBed 498 531 543 556 531 489 504 602 557 514 484	739 848	2297 2067 Heartrate 68.65625 99.50581 84.13457 98.23390 73.81290 72.57948 75.68526 75.36218 71.23214 81.30100 73.41425	12:00:00
## ## ## ## ## ## ## ## ## ##	181 182 1 2 3 4 5 6 7 8 9 10 11 12	0 0 TotalSleepRecords TotalMinutesAsleep 1 437 1 506 1 511 1 531 1 467 1 445 1 452 1 556 1 500 1 465 1 460 1 405	156 129 TotalTimeInBed 498 531 543 556 531 489 504 602 557 514 484	739 848	2297 2067 Heartrate 68.65625 99.50581 84.13457 98.23390 73.81290 72.57948 75.68526 75.36218 71.23214 81.30100 73.41425 71.99640	12:00:00
## ## ## ## ## ## ## ## ## ## ## ## ##	181 182 1 2 3 4 5 6 7 8 9 10 11 12 13	0 0 TotalSleepRecords TotalMinutesAsleep 1 437 1 506 1 511 1 531 1 467 1 445 1 452 1 556 1 500 1 465 1 465 1 460 1 405 1 374	156 129 TotalTimeInBed 498 531 543 556 531 489 504 602 557 514 484 461 386	739 848	2297 2067 Heartrate 68.65625 99.50581 84.13457 98.23390 73.81290 72.57948 75.68526 75.36218 71.23214 81.30100 73.41425 71.99640 83.43309	12:00:00
######################################	181 182 1 2 3 4 5 6 7 8 9 10 11 12 13 14	0 0 TotalSleepRecords TotalMinutesAsleep 1 437 1 506 1 511 1 531 1 467 1 445 1 452 1 556 1 556 1 500 1 465 1 465 1 460 1 405 1 374	156 129 TotalTimeInBed 498 531 543 556 531 489 504 602 557 514 484 461 386 459	739 848	2297 2067 Heartrate 68.65625 99.50581 84.13457 98.23390 73.81290 72.57948 75.68526 75.36218 71.23214 81.30100 73.41425 71.99640 83.43309 77.57597	12:00:00
######################################	181 182 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	0 0 TotalSleepRecords TotalMinutesAsleep 1 437 1 506 1 511 1 531 1 467 1 445 1 445 1 556 1 556 1 500 1 465 1 465 1 465 1 405 1 405 1 405	156 129 TotalTimeInBed 498 531 543 556 531 489 504 602 557 514 484 461 386 459 471	739 848	2297 2067 Heartrate 68.65625 99.50581 84.13457 98.23390 73.81290 72.57948 75.68526 75.36218 71.23214 81.30100 73.41425 71.99640 83.43309 77.57597 73.86136	12:00:00
######################################	181 182 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	0 0 TotalSleepRecords TotalMinutesAsleep 1 437 1 506 1 511 1 531 1 467 1 445 1 452 1 556 1 556 1 500 1 465 1 465 1 465 1 465 1 405 1 405 1 433 1 433	156 129 TotalTimeInBed 498 531 543 556 531 489 504 602 557 514 484 461 386 459 471 490	739 848	2297 2067 Heartrate 68.65625 99.50581 84.13457 98.23390 73.81290 72.57948 75.68526 75.36218 71.23214 81.30100 73.41425 71.99640 83.43309 77.57597 73.86136 71.73180	12:00:00
######################################	181 182 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	0 0 TotalSleepRecords TotalMinutesAsleep 1 437 1 506 1 511 1 531 1 467 1 445 1 452 1 556 1 556 1 500 1 465 1 465 1 460 1 405 1 374 1 442 1 433 1 436 1 436	156 129 TotalTimeInBed 498 531 543 556 531 489 504 602 557 514 484 461 386 459 471 490 499	739 848	2297 2067 Heartrate 68.65625 99.50581 84.13457 98.23390 73.81290 72.57948 75.68526 75.36218 71.23214 81.30100 73.41425 71.99640 83.43309 77.57597 73.86136 71.73180 75.19362	12:00:00
######################################	181 182 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	TotalSleepRecords TotalMinutesAsleep 1 437 1 506 1 511 1 531 1 467 1 445 1 452 1 556 1 550 1 500 1 465 1 465 1 465 1 465 1 465 1 465 1 465 1 433 1 442 1 433 1 436 1 438	156 129 TotalTimeInBed 498 531 543 556 531 489 504 602 557 514 484 461 386 459 471 490 499 450	739 848	2297 2067 Heartrate 68.65625 99.50581 84.13457 98.23390 73.81290 72.57948 75.68526 75.36218 71.23214 81.30100 73.41425 71.99640 83.43309 77.57597 73.86136 71.73180 75.19362 73.40854	12:00:00
######################################	181 182 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	0 0 TotalSleepRecords TotalMinutesAsleep 1 437 1 506 1 511 1 531 1 467 1 445 1 452 1 556 1 556 1 500 1 465 1	156 129 TotalTimeInBed 498 531 543 556 531 489 504 602 557 514 484 461 386 459 471 490 499 450 473	739 848	2297 2067 Heartrate 68.65625 99.50581 84.13457 98.23390 73.81290 72.57948 75.68526 75.36218 71.23214 81.30100 73.41425 71.99640 83.43309 77.57597 73.86136 71.73180 75.19362 73.40854 62.86971	12:00:00
######################################	181 182 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	TotalSleepRecords TotalMinutesAsleep 1 437 1 506 1 511 1 531 1 467 1 445 1 445 1 452 1 556 1 556 1 500 1 465 1 460 1 405 1 405 1 433 1 433 1 436 1 438 1 438 1 448 1 408 1 408 1 408	156 129 TotalTimeInBed 498 531 543 556 531 489 504 602 557 514 484 461 386 459 471 490 499 450 473 541	739 848 Mean_H	2297 2067 Heartrate 68.65625 99.50581 84.13457 98.23390 73.81290 72.57948 75.68526 75.36218 71.23214 81.30100 73.41425 71.99640 83.43309 77.57597 73.86136 71.73180 75.19362 73.40854 62.86971 83.49901	12:00:00
############################	181 182 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	TotalSleepRecords TotalMinutesAsleep 1 437 1 506 1 511 1 531 1 467 1 445 1 445 1 452 1 556 1 556 1 500 1 465 1 465 1 465 1 465 1 465 1 405 1 405 1 433 1 433 1 436 1 438 1 438 1 438 1 438 1 438 1 408 1 408	156 129 TotalTimeInBed 498 531 543 556 531 489 504 602 557 514 484 461 386 459 471 490 499 450 473 541 77	739 848 Mean_H	2297 2067 Reartrate 68.65625 99.50581 84.13457 98.23390 73.81290 72.57948 75.68526 75.36218 71.23214 81.30100 73.41425 71.99640 83.43309 77.57597 73.86136 71.73180 75.19362 73.40854 62.86971 83.49901 100.90332	12:00:00
###########################	181 182 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	TotalSleepRecords TotalMinutesAsleep 1 437 1 506 1 511 1 531 1 467 1 445 1 445 1 452 1 556 1 556 1 500 1 465 1 460 1 405 1 405 1 433 1 433 1 436 1 438 1 438 1 448 1 408 1 408 1 408	156 129 TotalTimeInBed 498 531 543 556 531 489 504 602 557 514 484 461 386 459 471 490 499 450 473 541	739 848 Mean_H	2297 2067 Heartrate 68.65625 99.50581 84.13457 98.23390 73.81290 72.57948 75.68526 75.36218 71.23214 81.30100 73.41425 71.99640 83.43309 77.57597 73.86136 71.73180 75.19362 73.40854 62.86971 83.49901	12:00:00

##		1	226	248	85.57474
##		1	385	408	75.64283
##		1	364	402	78.04106
##		1	442	494	72.61970
##		1	499	526	67.47094
##		2	426	448	75.47659
##		2	619	641	66.39135
	31	1	99	104	81.49099
	32	1	329	338	65.53246
	33	1	421	451	65.40126
	34	1	442	458	63.09928
	35	1	82	85	73.27720
	36	1	478	501	67.08074
	37	3	552	595	62.10170
	38	1	319	346	62.51360
	39	1	439	500	62.12052
##		1	428	458	62.32648
##		2	409	430	64.22769
##		1	547	597	60.02218
##		2	368	376	66.39496
##		1	390	414	61.94767
##		1	471	495	61.04130
##		1	471	495	61.04130
##		1	472	496	66.62712
##		2	529	541	76.78011
##		1	62	65	64.05172
##		1	354	375	61.22122
##		1	469	494	59.97197
##		1	126	137	85.66239
##		1	103	121	91.33540
##		1	171	179	80.55509
##		1	115	129	70.84190
##		1	123		104.87147
##		1	441	464	64.36511
##		2	455	488	61.48342
##		1	357	418	72.56047
##	60	1	377	409	69.02003
##		2	651	686	66.02136
	62	1	350	402	59.37717
##		2	520	541	65.38440
	64	1	357	410	74.88753
##		1	658	678	60.04042
##		1	399	431	71.33225
	67	1	322	353	70.42848
##	68	2	631	725	67.07408
##	69	2	553	640	63.97276
	70	1	433	468	72.04626
	71	1	412	453	73.01322
	72	1	347	391	65.07076
##	73	1	421	457	71.07165
	74	1	450	495	73.07417
	75	2	775	843	65.78000
	76	2	622	686	66.54345
##	77	1	409	471	72.59143

=0		000	400	00 05010
## 78	1	380	429	69.95312
## 79	1	447	470	61.67218
## 80	1	419	464	69.40142
## 81	1	400	434	63.16520
## 82	1	442	470	63.02644
## 83	1	568	608	65.56944
## 84	1	453	494	76.65613
## 85	1	418	443	76.83269
## 86	1	463	486	65.40051
## 87	1	438	475	64.19532
## 88	1	419	438	65.65607
## 89	1	432	458	59.70358
## 90	1	477	497	76.83571
## 91	1	392	413	73.68220
## 92	1	406	445	69.84255
## 93	1	549	583	71.11754
## 94	1	527	553	68.64909
## 95	1	449	465	70.46025
## 96	1	447	480	69.17307
## 97	1	414	437	72.31130
## 98	1	338	366	64.64849
## 99	1	384	402	65.07900
## 99			615	72.26865
		543		
		421	461	67.54545
		354	377	65.35988
		424	452	66.42828
## 104		361	372	70.68771
## 105		459	485	66.26641
## 106		412	433	71.55549
## 107		379	398	73.70358
## 108		525	553	64.60947
## 109		508	543	70.00069
## 110		603	634	62.24588
## 11:		74	78	72.21058
## 112		504	562	75.29285
## 113		431	476	67.04068
## 114		380	398	87.02746
## 115		336	350	85.35302
## 116		493	510	82.91442
## 117		465	492	83.50813
## 118		474	502	85.50436
## 119		508	550	79.40156
## 120		480	546	81.70206
## 12:		492	539	81.79524
## 122	2 1	353	367	84.20597
## 123		542	557	83.14904
## 124		393	416	80.09523
## 125	5 1	600	636	82.16242
## 126	6 1	507	575	77.43914
## 127	7 1	392	415	84.71879
## 128	8 2	658	698	76.57278
## 129	9 2	498	507	83.87948
## 130	0 1	555	603	81.14074
## 13:	1 1	492	522	76.46606

	132	1	235	260	82.71974
##	133	1	423	441	79.26808
##	134	1	391	406	80.59450
##	135	1	366	387	85.03632
##	136	3	630	679	80.51960
##	137	2	508	535	70.12622
##	138	1	370	386	72.99198
##	139	1	357	366	82.04018
##	140	1	427	446	76.66449
##	141	1	442	458	76.91699
##	142	1	476	535	77.42859
##	143	1	418	424	74.90601
##	144	1	451	457	83.47130
##	145	1	425	435	79.11627
##	146	1	528	546	84.64590
##	147	1	511	514	68.82344
##	148	1	400	415	73.98988
##	149	1	441	446	77.07536
##	150	1	455	467	72.99697
##	151	1	440	453	82.07527
##	152	1	433	447	80.96352
##	153	1	422	424	80.16266
	154	1	411	426	73.29039
	155	1	466	482	79.67409
	156	1	394	418	75.40436
	157	1	442	455	79.47459
	158	1	467	491	76.64476
	159	1	443	462	72.33437
	160	1	298	334	76.97600
	161	1	541	569	74.99710
	162	1	489	497	77.01763
	163	1	469	481	83.32208
	164	1	452	480	79.25104
	165	1	516	535	75.71574
	166	1	79	82	79.95248
	167	1	58	61	84.96455
	168	1	458	493	68.92158
	169	1	531	552	68.50609
	170	1	486	503	69.08940
	171	1	363	377	66.86352
	172	1	528	547	69.61816
	173	1	391	407	70.26148
	174	1	339	360	77.82584
	175	1	423	428	68.79205
	176	1	402	416	76.70162
	177	1	398	406	80.91153
	178	1	343	360	81.46464
	179	1	503	527	67.81017
	180	1	415	423	67.40392
	181	1	516	545	74.37194
	182	1	439	463	74.97815
πĦ	102	±	100	100	1 4.01010

#### Creating data frames for mean steps and calories burnt

```
daybasedsteps = dailyActivity_merged %>%
  group_by(ActivityDate) %>%
  drop_na() %>%
  summarise(Mean_Steps = mean(TotalSteps), Mean_Calories_Burnt = mean(Calories))
daybasedsteps
## # A tibble: 31 x 3
      ActivityDate Mean_Steps Mean_Calories_Burnt
##
##
      <date>
                        <dbl>
                                             <dbl>
## 1 2016-04-12
                        8237.
                                             2391.
## 2 2016-04-13
                        7199.
                                             2287.
                                             2356.
## 3 2016-04-14
                        7744.
## 4 2016-04-15
                        7534.
                                            2355.
## 5 2016-04-16
                                            2393.
                        8679.
## 6 2016-04-17
                        6409.
                                            2231.
## 7 2016-04-18
                        7897.
                                            2333.
## 8 2016-04-19
                        8049.
                                            2359.
## 9 2016-04-20
                                            2395.
                        8163.
## 10 2016-04-21
                                             2422.
                        8244.
## # i 21 more rows
```

#### Combining Heart rate and Weight log info datasets

```
heartandweight = merge(weightnew_df, heartnew_df, by = c('Id', 'ActivityDate', 'Time'))
heartandweight
```

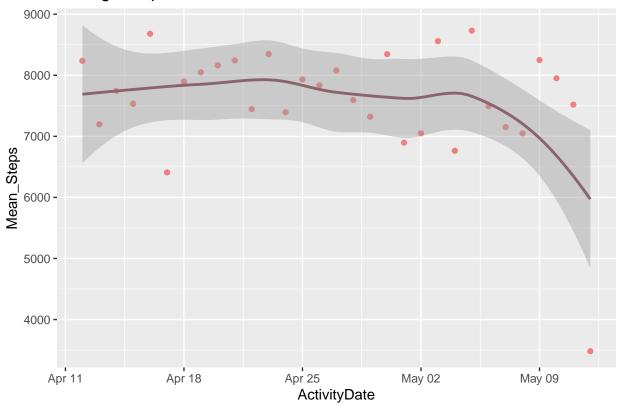
```
##
            Id ActivityDate
                               Time WeightKg WeightPounds Fat
                                                                BMI
## 1 5577150313
                2016-04-17 09:17:55
                                        90.7
                                                 199.9593 NA 28.00
## 2 8877689391
                 2016-04-14 06:48:43
                                        84.5
                                                 186.2906 NA 25.31
## 3 8877689391
                                                 188.4952 NA 25.59
                 2016-04-16 01:39:25
                                        85.5
                                        85.4
## 4 8877689391
                 2016-04-25 06:40:16
                                                 188.2748 NA 25.56
                                                 188.2748 NA 25.56
## 5 8877689391 2016-05-11 06:51:47
                                        85.4
##
    IsManualReport
                          LogId Value
## 1
             FALSE 1.460885e+12
                                111
## 2
             FALSE 1.460617e+12
                                  87
## 3
             FALSE 1.460814e+12
                                  84
## 4
             FALSE 1.461566e+12
                                 122
## 5
             FALSE 1.462950e+12
                                  83
```

Not a good enough dataset to perform analysis.

## PLOTS

```
ggplot(daybasedsteps, mapping=aes(x=ActivityDate, y=Mean_Steps))+geom_point(color="lightcoral")+geom_sm
## `geom_smooth()` using formula = 'y ~ x'
```

# Average Steps vs. Date

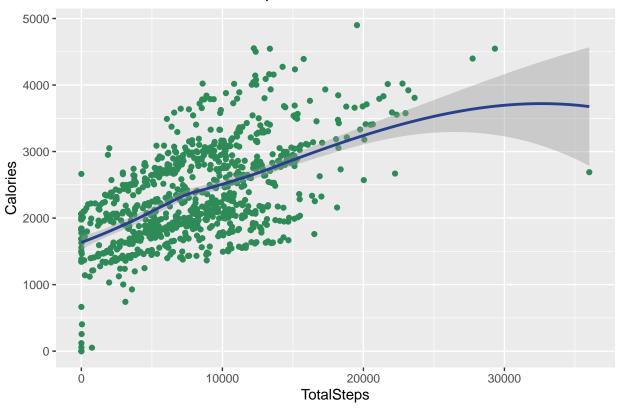


The intention behind this plot was to identify if we could find weekday-weekend patterns with respect to the number of steps walked in a day.

However, there is no specific pattern that can be deduced from the plot.

```
ggplot(dailyActivity_merged, mapping=aes(x=TotalSteps, y=Calories))+geom_point(color="seagreen")+geom_st
## `geom_smooth()` using method = 'loess' and formula = 'y ~ x'
```

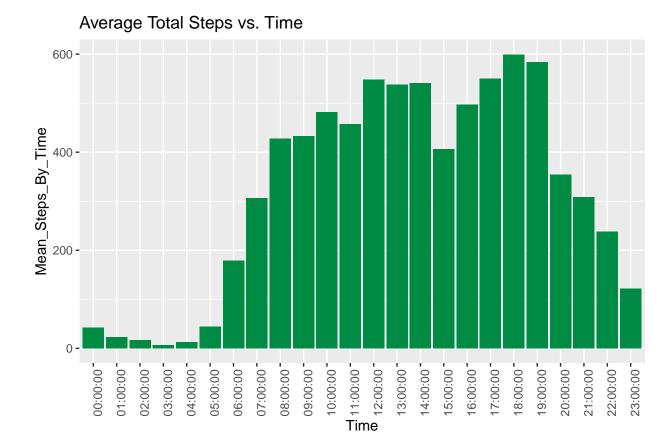
## Calories Burnt vs. Total Steps



Here, it is clear that with the higher number of steps, the subject also loses more calories. Hence, there is a positive relationship.

As a suggestion to Bellabeat, to faciliate more activity amongst the users, a rewards/points program could be introduced based on thr total steps count per day, rather than just relying on a default appreciation message.

```
stepsplot = stepsnew_df %>%
  group_by(Time) %>%
  drop_na() %>%
  summarise(Mean_Steps_By_Time = mean(StepTotal))
ggplot(stepsplot, aes(x=Time, y=Mean_Steps_By_Time)) + geom_bar(stat = "identity", fill= "springgreen4"
theme(axis.text.x = element_text(angle = 90)) + labs(title="Average Total Steps vs. Time")
```



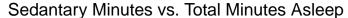
The above visual shows a plot of average total steps against time.

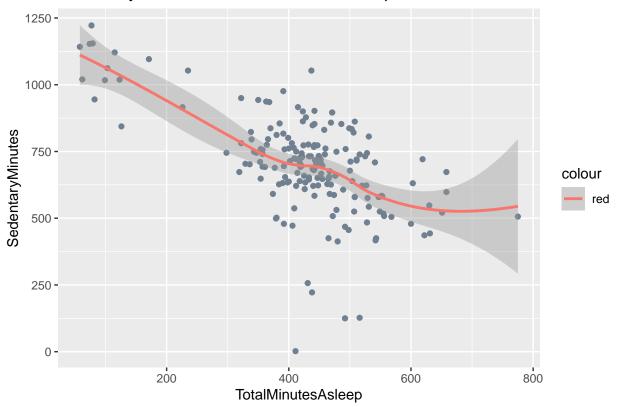
It is noticed that activity is least from 12 AM to 4 AM. From 5 AM, the value goes on increasing almost perfectly.

The number goes down at 3 PM, which may be assumed as lunch time for some or nap/rest time for others.

Bellabeat can introduce a mid day report system, for the users to know how they have fared for the past half day and what else they can do meet the acceptable quota for the remaining half of the day.

ggplot(final, mapping=aes(x=TotalMinutesAsleep, y=SedentaryMinutes))+geom\_point(color="slategray")+geom
## `geom\_smooth()` using method = 'loess' and formula = 'y ~ x'





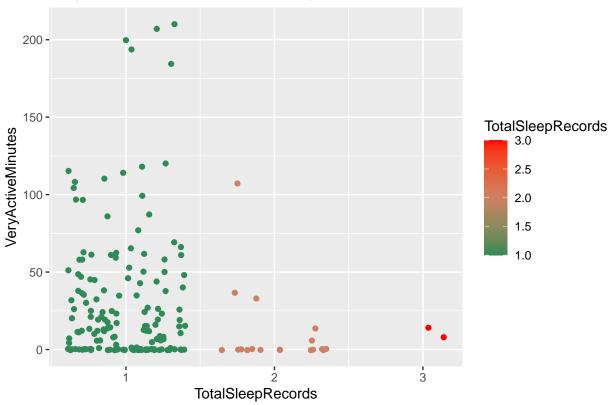
This plot shows how sedentary minutes is inversely proportional to the total minutes asleep.

In this case, Bellabeat can set an alarm for the users on their devices when their sedentary minutes have crossed a certain threshold and thus help the users focus better on getting a good sleep.

Sedentary Minutes can be calculated for a person based on BMR (Basal metabolic Rate), which is the number of calories our body burns to stay alive. To calculate this, parameters like height, weight and age are required which are missing in the datasets.

ggplot(final, mapping=aes(x=TotalSleepRecords,y=VeryActiveMinutes,color=TotalSleepRecords))+geom\_jitter





Despite not being a regular direct or inverse relationship, it can be noticed here that a number of users who indulge in about one sleep session in a day have a higher value for very active minutes, while for approximately 2 sleep sessions, some users have a moderate value of very active minutes, while for three and above, the value is very low.

As a suggestion to Bellabeat, a reminder could be set up in case the user crosses 2 sleep sessions in a day, to avoid lethargy amongst them.

```
ggplot(heartandweight, mapping=aes(x=BMI,y=Value))+geom_jitter(color="red3")+geom_smooth()+ labs(title=
## 'geom_smooth()' using method = 'loess' and formula = 'y ~ x'

## Warning in simpleLoess(y, x, w, span, degree = degree, parametric = parametric,
## : span too small. fewer data values than degrees of freedom.

## Warning in simpleLoess(y, x, w, span, degree = degree, parametric = parametric,
## : pseudoinverse used at 25.297

## Warning in simpleLoess(y, x, w, span, degree = degree, parametric = parametric,
## : neighborhood radius 0.26345

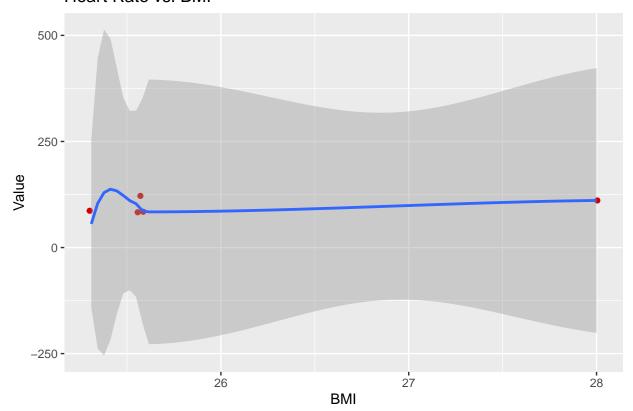
## Warning in simpleLoess(y, x, w, span, degree = degree, parametric = parametric,
## : reciprocal condition number 0

## Warning in simpleLoess(y, x, w, span, degree = degree, parametric = parametric,
## : There are other near singularities as well. 6.0194

## Warning in predLoess(object$y, object$x, newx = if (is.null(newdata)) object$x
## else if (is.data.frame(newdata))
```

```
## as.matrix(model.frame(delete.response(terms(object)), : span too small. fewer
## data values than degrees of freedom.
## Warning in predLoess(object$y, object$x, newx = if (is.null(newdata)) object$x
## else if (is.data.frame(newdata))
## as.matrix(model.frame(delete.response(terms(object)), : pseudoinverse used at
## 25.297
## Warning in predLoess(object$y, object$x, newx = if (is.null(newdata)) object$x
## else if (is.data.frame(newdata))
## as.matrix(model.frame(delete.response(terms(object)), : neighborhood radius
## 0.26345
## Warning in predLoess(object$y, object$x, newx = if (is.null(newdata)) object$x
## else if (is.data.frame(newdata))
## as.matrix(model.frame(delete.response(terms(object)), : reciprocal condition
## number 0
## Warning in predLoess(object$y, object$x, newx = if (is.null(newdata)) object$x
## else if (is.data.frame(newdata))
## as.matrix(model.frame(delete.response(terms(object)), : There are other near
## singularities as well. 6.0194
```

## Heart Rate vs. BMI



Unable to identify any pattern for heart rate and BMI.

There was high scope for identifying patterns by combining weight log and heart rate data, as we could deduce multiple relationships. However, the data is minimal, and there are plenty of null values that cannot be ignored or replaced with a mean value.

Also, combining the two datasets only provides around 10 rows which is very little data to perform further analysis. This is due to the weight log dataset being very minimal.

Hence, more data needs to be collected on weight and mass index.