```
library(tidyverse)
## -- Attaching packages -----
                                    ----- tidyverse 1.3.1 --
## v ggplot2 3.3.5 v purrr 0.3.4
## v tibble 3.1.6 v dplyr 1.0.7
## v tidyr 1.1.4 v stringr 1.4.0
## v readr 2.1.1 v forcats 0.5.1
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
library(lubridate)
##
## Attaching package: 'lubridate'
## The following objects are masked from 'package:base':
##
      date, intersect, setdiff, union
##
hourcal = read_csv("fitbitdat/hourlyCalories_merged.csv")
## 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.
hourint = read_csv("fitbitdat/hourlyIntensities_merged.csv")
## Rows: 22099 Columns: 4
## 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.
```

```
hourstp = read_csv("fitbitdat/hourlySteps_merged.csv")
## 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.
hourtotal = cbind(hourcal,hourint,hourstp)
hourtotalx = hourtotal[!duplicated(as.list(hourtotal))]
names(hourtotalx)
## [1] "Id"
                         "ActivityHour"
                                           "Calories"
                                                             "TotalIntensity"
## [5] "AverageIntensity" "StepTotal"
print(cor(hourtotalx$TotalIntensity,hourtotalx$Calories))
## [1] 0.8966161
print(cor(hourtotalx$AverageIntensity,hourtotalx$Calories))
## [1] 0.8966161
print(cor(hourtotalx$StepTotal,hourtotalx$Calories))
## [1] 0.814968
write_csv(hourtotalx, "hourly_data_comb.csv")
```