Empirical Research HW#3

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2/22/2022

```
#Cleaning the environment
rm(list = ls())
```

Loading Packages

```
tinytex::install_tinytex()
```

```
library(ggplot2)
```

```
## Warning: package 'ggplot2' was built under R version 4.1.2
```

```
library(stats)
library(dplyr)
```

```
## Warning: package 'dplyr' was built under R version 4.1.2
```

```
##
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:stats':
##
##     filter, lag
```

```
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
library(randomForest)
```

```
## Warning: package 'randomForest' was built under R version 4.1.2
```

```
## randomForest 4.6-14
```

```
## Type rfNews() to see new features/changes/bug fixes.
```

```
##
## Attaching package: 'randomForest'

## The following object is masked from 'package:dplyr':
##
##     combine

## The following object is masked from 'package:ggplot2':
##
##     margin
```

```
library(corrplot)
```

```
## Warning: package 'corrplot' was built under R version 4.1.2

## corrplot 0.92 loaded
```

```
library(haven)
```

```
## Warning: package 'haven' was built under R version 4.1.2
```

```
library(AER)
```

```
## Loading required package: car

## Loading required package: carData

##
## Attaching package: 'car'

## The following object is masked from 'package:dplyr':
##
##     recode

## Loading required package: lmtest

## Loading required package: zoo

##
## Attaching package: 'zoo'

## The following objects are masked from 'package:base':
##
##     as.Date, as.Date.numeric

## Loading required package: sandwich

## Loading required package: survival
```

```
library(foreign)
library(nnet)
library(reshape2)
library(tidyverse)
```

Warning: package 'tidyverse' was built under R version 4.1.2

-- Attaching packages --------------------------------------- tidyverse 1.3.1 --

v tibble 3.1.4   v purrr   0.3.4
v tidyr   1.1.3   v stringr 1.4.0
v readr   2.0.1   v forcats 0.5.1

-- Conflicts -- tidyverse_conflicts() --
x randomForest::combine() masks dplyr::combine()
x dplyr::filter()   masks stats::filter()
x dplyr::lag()   masks stats::lag()
x randomForest::margin() masks ggplot2::margin()
x car::recode()   masks dplyr::recode()
x purrr::some()   masks car::some()

```
library(stargazer)
```

##
Please cite as:

Hlavac, Marek (2018). stargazer: Well-Formatted Regression and Summary Statistics Tables.

R package version 5.2.2. https://CRAN.R-project.org/package=stargazer

```
library(ggeffects)
```

Warning: package 'ggeffects' was built under R version 4.1.2

```
library(gridExtra)
```

Warning: package 'gridExtra' was built under R version 4.1.2

##
Attaching package: 'gridExtra'

The following object is masked from 'package:randomForest':
##
combine

The following object is masked from 'package:dplyr':
##
combine

```r
library(lubridate)
```

```
##
## Attaching package: 'lubridate'

## The following objects are masked from 'package:base':
##
##     date, intersect, setdiff, union
```

```r
library(rmarkdown)
```

```
## Warning: package 'rmarkdown' was built under R version 4.1.2
```

```r
library(tidyr)
```

1) Find the natural log, log to the base 10, square root and the natural anti-log of 12.43

```r
#natural log
log(12.43)
```

```
## [1] 2.520113
```

```r
#log to the base of 10
log10(12.43)
```

```
## [1] 1.094471
```

```r
# square root
sqrt(12.43)
```

```
## [1] 3.525621
```

```r
# natural anti-log
exp(12.43)
```

```
## [1] 250196
```

2) Determine the area of a circle with a diameter of 50 inches and assign the result to a variable called area_circle. (Hint, use the pi function)

```r
#Formula:  Area of a circle = pi × r2
#Radius: Diameter/2 | Which is 50/2 = 25

area_circle <- pi * (25)^2
print(area_circle)
```

```
## [1] 1963.495
```

3) Use the concatenate function c() to create a vector called weight containing the weight (in lb) of 10 children: 120, 117, 139, 129, 94, 86, 106, 107, 126.
   Do the same for height in inches; 47, 40, 41, 35, 60, 42, 50, 49, 38, 42.
   Then calculate the bmi (weight/ the square of the height) of the kids.

```
weight <- c(140, 120, 117, 139, 129, 94, 86, 106, 107, 126)
height <- c(47, 40, 41, 35, 60, 42, 50, 49, 38, 42)

bmi <- (weight/(height)^2) * 703
print(bmi)
```

```
##  [1] 44.55410 52.72500 48.92980 79.76898 25.19083 37.46145 24.18320 31.03623
##  [9] 52.09211 50.21429
```

4) Create a new variable defined as name;, "John", "Megan", "Ryan", "Isabela", "Matt", "Lindsay", "Tony", "Mary Jane", "Chase" and "Delaney". Create a dateframe of name, height, weight, bmi and call it alldata.

```
name <- c("John", "Megan", "Ryan", "Isabela", "Matt", "Lindsay", "Tony",
          "Mary Jane", "Chase", "Delaney")

alldata <- data.frame(c("name", "height", "weight", "bmi"))
```

5) Sort the dataframe from tallest to shortest. Then create a new variable height_rank, from the tallest (1) to the shortest (2). Repeat the same for weight, bmi, and name (alphabetically). For bmi, order it from lowest to highest. (Hint, use the seq() function).

```
#Now creating new variables
height_rank <- rev(sort(height))
print(height_rank)
```

```
##  [1] 60 50 49 47 42 42 41 40 38 35
```

```
weight_rank <- rev(sort(weight))
print(weight_rank)
```

```
##  [1] 140 139 129 126 120 117 107 106  94  86
```

```
bmi_rank <- (sort(bmi))
print(bmi_rank)
```

```
##  [1] 24.18320 25.19083 31.03623 37.46145 44.55410 48.92980 50.21429 52.09211
##  [9] 52.72500 79.76898
```

```
name_rank <- rev(sort(name))
print(name_rank)
```

```
##  [1] "Tony"      "Ryan"      "Megan"     "Matt"      "Mary Jane" "Lindsay"
##  [7] "John"      "Isabela"   "Delaney"   "Chase"
```

6) Calculate the mean and standard deviation of the height and weight variables above and store them as height_mean, height_sd, weight_mean, weight_sd. Using the rnorm function, create two new variables, height2 and weight2 by simulating 10,000 random normal variables with the same mean and standard deviation of the original data sets.

```
#Mean & Standard Deviation of Height
```

```
height_mean <- mean(height)
print(height_mean)
```

```
## [1] 44.4
```

```
height_sd <- sd(height)
print(height_sd)
```

```
## [1] 7.260242
```

```
#Mean & Standard Deviation of Weight
```

```
weight_mean <- mean(weight)
print(weight_mean)
```

```
## [1] 116.4
```

```
weight_sd <- sd(weight)
print(weight_sd)
```

```
## [1] 18.11813
```

```
#Two new variables
```

```
height2 <- rnorm(10000, mean = 44.4, sd = 7.260242)
print(height2)
```

```
##      [1] 27.25844 48.35630 52.86434 44.40532 62.54081 45.22434 41.49800 55.28456
##      [9] 47.25296 46.08173 56.73569 53.12473 25.60185 49.55968 40.17124 54.07537
##     [17] 50.87110 36.45381 39.14777 45.39017 50.59375 32.16264 44.74590 54.72267
##     [25] 48.62175 37.64989 44.47852 57.01229 35.31895 49.74817 43.47516 50.39014
##     [33] 37.02676 27.02292 46.88511 31.72668 46.13526 41.82551 57.84588 42.26154
##     [41] 51.54860 40.86787 40.52492 38.29745 40.64731 41.01189 48.79713 56.29013
##     [49] 45.93830 45.86834 37.18859 46.91387 42.46244 46.02772 38.24710 35.81914
##     [57] 63.13564 49.16991 32.11621 55.51332 40.44804 50.23585 50.17734 48.15189
##     [65] 48.68101 41.77416 64.57694 46.05383 41.61267 38.57070 49.86997 61.62612
##     [73] 41.93056 39.41911 45.91528 35.22430 36.81372 32.46829 47.12006 43.06778
##     [81] 44.77445 41.81991 45.81892 40.34977 44.72569 57.31027 57.49299 47.23130
##     [89] 49.48080 40.27022 45.42190 46.99893 45.28997 40.49504 50.82938 52.82280
##     [97] 43.73921 56.71463 61.17173 49.00083 50.90755 42.79806 46.74826 53.64260
##    [105] 41.40028 52.04787 48.57136 50.52797 34.62994 54.60722 43.97174 55.12038
##    [113] 52.33802 48.42156 45.46259 45.03338 44.48714 25.29610 48.61956 54.89303
##    [121] 43.05592 48.18539 49.99372 38.65178 46.39132 34.24236 34.39980 30.29721
```

```
##      [129] 51.98750 43.39799 43.07927 37.75525 38.24355 41.06141 39.23013 25.83068
##      [137] 47.65184 40.93296 34.06648 56.11217 31.30431 42.46242 37.07403 40.44483
##      [145] 42.69325 39.19017 49.21085 42.53555 41.37474 52.36336 36.02658 47.26806
##      [153] 48.59483 43.69191 44.92127 53.36348 50.47031 25.83783 44.94501 49.57999
##      [161] 47.65676 50.32073 48.95413 39.74375 44.82915 57.54907 42.65506 33.26820
##      [169] 46.42585 39.73128 41.18815 42.51231 53.63638 42.64709 42.49971 54.48287
##      [177] 54.36820 47.70381 42.93804 40.10561 39.20473 41.21329 45.13343 60.93404
##      [185] 38.94457 43.49671 35.18634 45.70945 39.27864 39.86773 42.20202 35.18196
##      [193] 37.91263 43.33620 44.75590 39.72095 40.73089 31.61212 42.36935 47.39397
##      [201] 44.09056 44.76332 37.97820 51.86328 32.72688 43.67469 45.02756 42.27332
##      [209] 39.03991 37.15505 53.93567 42.23919 48.42334 49.18474 54.02623 43.06186
##      [217] 38.39305 43.35745 56.63830 51.54157 49.25146 47.31451 48.83490 50.00348
##      [225] 48.85612 45.04648 57.08150 36.19467 48.34315 40.55739 48.34484 41.78512
##      [233] 34.73395 57.83079 41.66170 36.53957 46.77349 42.46212 43.79516 40.66547
##      [241] 39.30688 46.95633 53.34921 56.48830 43.11572 42.14091 30.00412 53.26189
##      [249] 38.66115 50.89073 40.89186 46.16765 51.89331 39.66420 52.94704 42.03243
##      [257] 37.85494 46.47500 49.65996 51.25262 38.36473 38.69992 43.15630 48.56888
##      [265] 48.21312 72.53158 48.46278 55.18730 47.66679 53.59858 50.14339 41.45050
##      [273] 43.88224 35.48115 32.32529 50.43270 35.42264 47.93230 46.30167 44.23755
##      [281] 47.56201 50.26223 49.04236 58.15784 50.14480 34.42824 44.08348 33.84203
##      [289] 37.57420 49.72729 45.70762 40.55229 53.75936 43.43399 45.26000 50.11862
##      [297] 52.59992 29.64647 42.23921 43.40470 36.03391 36.13730 38.87817 44.77590
##      [305] 52.54043 34.59342 40.90196 44.05596 36.87718 46.83325 44.98840 40.85792
##      [313] 52.54148 44.47413 42.02374 53.12795 44.56524 48.02902 52.88208 41.29792
##      [321] 44.93845 48.01449 44.18364 40.04008 35.37168 57.65329 38.45522 39.58488
##      [329] 42.29985 53.55892 42.44714 45.61563 57.10710 42.13384 49.53525 41.32038
##      [337] 31.95792 37.05265 45.48352 33.46085 48.11447 45.22882 49.34056 45.04463
##      [345] 50.56874 36.14039 47.67680 45.68832 40.56998 36.37981 45.44728 31.58034
##      [353] 52.78674 47.19685 44.08693 56.50118 36.34474 48.12769 58.72263 34.33043
##      [361] 56.03006 55.57643 63.53717 42.75157 46.00795 44.45562 47.85307 27.53192
##      [369] 48.55821 39.13553 48.54313 61.44957 35.76655 39.96947 48.66571 44.29531
##      [377] 42.53392 51.11966 32.91742 47.07386 38.88655 42.90719 59.92912 43.59801
##      [385] 36.66848 44.29085 40.16632 41.05748 28.39389 42.57550 41.69325 44.12083
##      [393] 45.82282 43.13344 44.89423 39.62126 23.38846 42.71376 29.72319 41.93585
##      [401] 58.11838 33.49242 44.55316 54.53849 46.15293 39.39406 43.71672 36.19447
##      [409] 41.07619 42.77360 46.16879 57.59650 28.69247 23.17762 41.84484 39.34846
##      [417] 45.65039 42.07483 44.09367 48.91890 53.45960 50.06719 57.00006 52.08309
##      [425] 52.78191 37.01891 33.89618 27.93086 46.03216 53.23651 50.04169 33.98160
##      [433] 39.18429 36.26764 42.59244 32.95426 49.93851 37.49795 43.00069 48.08011
##      [441] 48.32064 49.03618 39.22724 48.72011 34.10175 41.10955 50.79241 33.01121
##      [449] 55.64757 44.29358 43.57579 46.55638 44.19640 48.65693 44.54021 42.50510
##      [457] 42.74458 44.52032 45.44191 45.16229 37.61667 37.02353 49.57590 47.82455
##      [465] 35.20239 43.77296 40.61458 44.32234 45.58631 33.25792 57.49743 54.85190
##      [473] 46.37438 39.56764 56.28754 31.27089 34.94807 37.86663 43.77751 48.08424
##      [481] 39.12488 32.44675 40.86494 40.66703 44.81958 39.91669 51.72750 54.26463
##      [489] 40.42692 44.02018 40.59017 40.50542 38.64236 44.09331 42.42665 29.76371
##      [497] 38.54501 51.68502 53.60408 35.80749 42.28741 37.99670 46.63604 45.59277
##      [505] 47.26376 53.68254 40.24899 47.14905 48.78445 43.61792 50.48435 42.42455
##      [513] 51.35584 40.63648 45.85530 51.01773 31.70454 44.47055 29.23183 49.61831
##      [521] 48.92638 48.09151 36.77942 46.36693 49.27688 34.40792 38.97621 50.40416
##      [529] 54.24373 41.08383 42.06479 44.10338 45.50684 48.59896 38.40700 43.00017
##      [537] 39.56751 48.29426 46.17494 34.42918 44.36223 38.28528 57.99145 43.90920
##      [545] 36.26696 34.24931 46.00377 40.12361 48.46722 40.39811 40.70500 57.78860
##      [553] 42.48440 49.22366 43.03335 52.98369 41.71143 42.30469 41.23339 41.47508
```

```
##    [561] 45.95115 36.60713 32.78895 31.92480 29.31039 46.67596 48.93251 44.27967
##    [569] 38.95460 41.02042 39.77750 39.06262 58.94476 39.48003 46.74925 36.09713
##    [577] 35.22976 35.79883 45.99132 49.02854 37.27814 47.74190 41.01756 44.61793
##    [585] 49.58457 43.52765 28.73137 51.67551 50.99403 53.41116 42.41264 40.41943
##    [593] 37.10497 52.01866 53.17420 51.64327 31.99465 42.48457 45.00496 44.12698
##    [601] 48.55485 53.16164 46.33150 54.42580 43.80984 38.35722 41.89615 38.94286
##    [609] 48.67608 45.64710 41.07473 40.06487 44.44357 45.68346 51.49303 41.35448
##    [617] 37.75961 51.32668 49.54609 30.02438 38.51839 54.06258 39.16396 45.31859
##    [625] 40.62947 43.68790 50.47416 48.01420 54.96733 43.18393 58.59703 42.76812
##    [633] 43.00832 38.01897 44.39598 45.69348 50.08936 35.89855 38.06112 47.36527
##    [641] 48.39081 35.70791 38.73494 42.03661 48.99902 46.74281 55.18212 51.98131
##    [649] 43.96788 47.59085 39.68099 39.31353 41.59571 43.75094 29.53329 34.36549
##    [657] 40.50217 40.29848 56.58713 45.90526 38.99048 40.46230 33.18806 53.57327
##    [665] 48.06196 34.44779 50.34675 51.60049 58.58885 47.81098 44.06434 27.38907
##    [673] 46.04407 33.49850 36.09281 40.68947 35.69556 44.18155 54.50943 41.07309
##    [681] 31.57432 44.47801 43.57724 41.81852 51.06670 47.61817 42.80994 25.61664
##    [689] 44.55342 50.61674 72.79444 43.05413 47.20991 52.12565 34.37285 51.42487
##    [697] 52.17702 41.05392 40.96983 38.85459 54.18539 28.46934 45.13726 45.23433
##    [705] 45.71967 41.29771 34.08496 53.84568 51.26351 57.81433 35.06859 53.76181
##    [713] 42.04274 39.38080 51.16212 47.07882 62.72781 34.63288 44.50374 35.24588
##    [721] 39.57362 37.26725 35.70791 40.51476 46.55356 47.80306 47.65696 47.51715
##    [729] 25.56863 60.24278 45.73812 47.84420 48.60979 33.27033 49.99846 49.86078
##    [737] 47.65549 51.62560 48.51188 40.50771 44.60622 46.88667 32.81857 42.29337
##    [745] 51.44525 41.18350 39.17959 41.57926 47.23699 48.72352 37.45295 41.33010
##    [753] 27.85169 47.70416 47.27115 37.79194 51.08472 57.58046 52.75294 33.41002
##    [761] 37.91940 43.35574 34.60176 44.44377 56.55707 43.74972 43.86057 31.66467
##    [769] 50.06592 60.03138 38.40562 42.48284 56.74605 51.54522 36.27991 50.02723
##    [777] 40.09425 54.21657 41.48044 43.54182 37.61538 43.84354 44.21270 39.39774
##    [785] 32.53215 48.00127 54.87520 52.87684 43.37848 31.05290 43.52175 47.27005
##    [793] 57.03639 52.18835 39.98401 49.07593 41.55561 45.30862 44.14790 38.84984
##    [801] 43.92141 42.52501 40.58027 50.00011 39.54098 44.69815 32.41466 41.66739
##    [809] 45.11844 37.11781 38.87226 43.02671 48.16347 50.26230 44.70454 42.05559
##    [817] 41.74046 50.48745 51.74441 49.61585 42.48872 42.93800 49.15961 38.16436
##    [825] 48.23144 43.32444 50.07614 26.39156 58.40960 45.49663 52.61758 44.42992
##    [833] 41.14032 31.35317 54.26571 42.67676 34.46817 27.57034 45.31325 51.15030
##    [841] 39.92321 48.15414 38.43312 53.11114 51.87573 43.21513 53.19002 41.25698
##    [849] 24.30111 54.02787 31.59576 50.18963 42.68714 44.73638 42.95301 41.42359
##    [857] 40.71173 47.43031 26.45269 45.23667 49.42377 40.15943 36.76293 66.86303
##    [865] 42.21162 43.84598 47.66194 45.84753 59.19217 54.18691 57.94214 40.20597
##    [873] 42.26553 45.69120 34.16606 42.08122 55.81093 48.86249 47.41211 38.46002
##    [881] 31.20891 47.23159 50.01940 33.87948 45.12992 36.61011 48.01756 60.19240
##    [889] 47.81908 35.94213 42.38492 33.18180 31.91407 52.72404 52.03782 36.47101
##    [897] 52.52093 44.94764 47.31844 56.15845 41.69217 38.56774 51.24374 36.94904
##    [905] 37.09861 40.17955 47.14414 48.46557 42.84619 37.35362 40.80606 46.97731
##    [913] 33.62586 50.22335 40.26915 42.28749 47.20175 39.42333 39.43691 51.11130
##    [921] 56.29793 29.02130 44.07917 36.42853 50.02405 44.41987 53.68733 55.21198
##    [929] 27.44187 49.47931 40.74133 43.97126 44.01128 50.59096 33.08214 52.79163
##    [937] 39.65725 47.05012 40.67097 51.74784 50.39986 38.66820 45.85753 40.05595
##    [945] 57.84387 41.47393 42.70797 29.78713 38.04492 47.30115 49.58292 52.22354
##    [953] 42.03643 46.76712 58.18753 33.70452 48.27734 45.69417 58.32910 37.33033
##    [961] 32.90470 45.20292 51.93627 51.42849 49.69301 50.23825 46.11092 33.43574
##    [969] 28.89740 41.98825 39.69519 41.63813 32.08050 38.06170 45.09725 36.20088
##    [977] 50.71828 45.53417 50.70745 31.04466 48.13169 39.75815 45.88421 44.71565
##    [985] 34.22708 39.32355 49.61312 44.62322 45.92018 59.30997 54.19040 45.52252
```

```
##     [993] 57.11135 38.81855 42.08193 42.04290 38.46318 46.62847 42.15592 44.54488
##    [1001] 51.50214 57.22270 42.01620 43.33802 44.67613 32.95819 46.09577 51.47372
##    [1009] 37.80744 42.41452 37.15303 38.15600 46.57582 40.92811 42.91796 45.20607
##    [1017] 49.32704 61.20390 45.86437 34.72915 48.80695 47.48401 42.00958 57.22077
##    [1025] 48.11377 29.03487 44.99595 43.78526 47.92196 51.22159 42.33045 47.35746
##    [1033] 45.26064 41.36862 53.69397 42.93988 48.18743 54.75362 40.87211 36.12406
##    [1041] 35.48051 45.67585 49.48271 36.07131 46.22954 53.30769 41.64016 48.33991
##    [1049] 39.35753 33.60127 41.16715 57.44740 39.90414 19.33020 38.14329 46.32346
##    [1057] 33.12339 47.96295 36.12265 55.90654 50.07267 42.39043 49.71175 43.95915
##    [1065] 53.24011 32.65145 48.12782 54.61411 52.63233 25.94628 40.65868 45.04336
##    [1073] 49.19652 44.61364 43.12775 47.58827 46.42842 38.98473 41.51829 42.98482
##    [1081] 32.55018 44.15154 46.20056 62.08570 43.96127 46.90090 31.70643 49.77904
##    [1089] 44.57227 46.11203 45.21256 41.47109 49.36853 53.50859 49.84676 37.47495
##    [1097] 34.38644 34.09154 44.98248 47.93417 33.46914 30.89553 39.70718 44.39385
##    [1105] 42.02479 33.23350 42.58695 45.06553 43.34440 35.73690 55.12032 38.31948
##    [1113] 44.20671 43.67742 46.91266 39.79311 47.08818 45.82855 50.62343 54.75441
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```

```
weight2 <- rnorm(10000, mean = 116.4, sd = 18.11813)
print(weight2)
```

```
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##      [8]  99.46000 127.30410 134.59186 119.30625 123.13688 135.75743 122.19867
##     [15] 136.74691 116.41418  97.67738 114.89909 112.49042 148.92378  98.97126
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```

```
##    [29]  96.29912 111.79868  93.47362 131.81446 144.71821  96.87392  93.88342
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##   [127]  70.85773 105.44212 123.41360 120.66169 138.63669 118.99106 115.57426
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```

```
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##    [799] 143.90956 103.06058 140.78707 123.95105 162.95565 110.25136 119.11527
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##    [813] 116.00680 115.89581 159.27033  95.21141 143.42081  93.95581 121.69195
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##  [9997]  94.72816 122.81190 107.80303 128.56265
```

7) Create 10,000 fake names, name_1, name_2 ... name_10000. (Hint: use the paste() function and the seq() function together). Call this name2.

```r
names2 <- paste0("name_", seq(1:10000))
names2 <- paste("name_", seq(1:10000), sep="")
names2 <- paste("name", seq(1:10000), sep="_")
names2 < paste0("n", seq(1:10000), sep="ame_")
```

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##     [1] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##    [13] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##    [25] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
##    [37] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
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## [9949] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [9961] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [9973] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [9985] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
```

```
##  [9997] FALSE FALSE FALSE FALSE
```

```r
names2 <- paste0("names_", c(1:10000))
print(names2)
```

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## [9776] "names_9776" "names_9777" "names_9778" "names_9779" "names_9780"
## [9781] "names_9781" "names_9782" "names_9783" "names_9784" "names_9785"
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## [9811] "names_9811" "names_9812" "names_9813" "names_9814" "names_9815"
## [9816] "names_9816" "names_9817" "names_9818" "names_9819" "names_9820"
## [9821] "names_9821" "names_9822" "names_9823" "names_9824" "names_9825"
## [9826] "names_9826" "names_9827" "names_9828" "names_9829" "names_9830"
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## [9846] "names_9846" "names_9847" "names_9848" "names_9849" "names_9850"
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## [9936] "names_9936" "names_9937" "names_9938" "names_9939" "names_9940"
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## [9946] "names_9946" "names_9947" "names_9948" "names_9949" "names_9950"
## [9951] "names_9951" "names_9952" "names_9953" "names_9954" "names_9955"
## [9956] "names_9956" "names_9957" "names_9958" "names_9959" "names_9960"
## [9961] "names_9961" "names_9962" "names_9963" "names_9964" "names_9965"
```

```
##  [9966] "names_9966"  "names_9967"  "names_9968"  "names_9969"  "names_9970"
##  [9971] "names_9971"  "names_9972"  "names_9973"  "names_9974"  "names_9975"
##  [9976] "names_9976"  "names_9977"  "names_9978"  "names_9979"  "names_9980"
##  [9981] "names_9981"  "names_9982"  "names_9983"  "names_9984"  "names_9985"
##  [9986] "names_9986"  "names_9987"  "names_9988"  "names_9989"  "names_9990"
##  [9991] "names_9991"  "names_9992"  "names_9993"  "names_9994"  "names_9995"
##  [9996] "names_9996"  "names_9997"  "names_9998"  "names_9999"  "names_10000"
```

8) Combine name2, height2, weight2 into a data.frame called alldata2.
   Calculate the bmi of the fake students and create a column from it.
   Then rename the all of the column names so that they match the first data.frame.

```
#Combining into a data.frame
alldata2 <- data.frame(names2, height2, weight2)
print(alldata2)
```

```
##              names2  height2   weight2
## 1          names_1 27.25844 126.38519
## 2          names_2 48.35630  91.82809
## 3          names_3 52.86434 136.73813
## 4          names_4 44.40532 125.11276
## 5          names_5 62.54081 120.30929
## 6          names_6 45.22434  97.29569
## 7          names_7 41.49800 127.40152
## 8          names_8 55.28456  99.46000
## 9          names_9 47.25296 127.30410
## 10        names_10 46.08173 134.59186
## 11        names_11 56.73569 119.30625
## 12        names_12 53.12473 123.13688
## 13        names_13 25.60185 135.75743
## 14        names_14 49.55968 122.19867
## 15        names_15 40.17124 136.74691
## 16        names_16 54.07537 116.41418
## 17        names_17 50.87110  97.67738
## 18        names_18 36.45381 114.89909
## 19        names_19 39.14777 112.49042
## 20        names_20 45.39017 148.92378
## 21        names_21 50.59375  98.97126
## 22        names_22 32.16264 126.27298
## 23        names_23 44.74590 132.87458
## 24        names_24 54.72267 141.25041
## 25        names_25 48.62175 115.87828
## 26        names_26 37.64989 138.33847
## 27        names_27 44.47852 109.75021
## 28        names_28 57.01229 134.35136
## 29        names_29 35.31895  96.29912
## 30        names_30 49.74817 111.79868
## 31        names_31 43.47516  93.47362
## 32        names_32 50.39014 131.81446
## 33        names_33 37.02676 144.71821
## 34        names_34 27.02292  96.87392
## 35        names_35 46.88511  93.88342
## 36        names_36 31.72668 109.67696
```

```
## 37         names_37 46.13526 111.07890
## 38         names_38 41.82551  75.92905
## 39         names_39 57.84588 114.79038
## 40         names_40 42.26154  87.02479
## 41         names_41 51.54860  97.36435
## 42         names_42 40.86787 125.98273
## 43         names_43 40.52492 132.88075
## 44         names_44 38.29745 103.18868
## 45         names_45 40.64731 101.35736
## 46         names_46 41.01189 127.20677
## 47         names_47 48.79713 131.49727
## 48         names_48 56.29013 118.00431
## 49         names_49 45.93830 100.12253
## 50         names_50 45.86834 123.88211
## 51         names_51 37.18859  96.52153
## 52         names_52 46.91387  92.39589
## 53         names_53 42.46244 133.71574
## 54         names_54 46.02772 106.82693
## 55         names_55 38.24710 120.02503
## 56         names_56 35.81914 102.62089
## 57         names_57 63.13564 128.93658
## 58         names_58 49.16991 122.81875
## 59         names_59 32.11621  68.52671
## 60         names_60 55.51332 105.02032
## 61         names_61 40.44804 119.14178
## 62         names_62 50.23585 116.56079
## 63         names_63 50.17734 124.90196
## 64         names_64 48.15189  97.57506
## 65         names_65 48.68101 140.73043
## 66         names_66 41.77416 130.93835
## 67         names_67 64.57694 122.43717
## 68         names_68 46.05383 121.88036
## 69         names_69 41.61267 116.07720
## 70         names_70 38.57070 124.86135
## 71         names_71 49.86997 122.88615
## 72         names_72 61.62612 136.06825
## 73         names_73 41.93056 130.06237
## 74         names_74 39.41911  98.96603
## 75         names_75 45.91528 132.97436
## 76         names_76 35.22430 119.22460
## 77         names_77 36.81372 140.49362
## 78         names_78 32.46829 144.72857
## 79         names_79 47.12006 111.26510
## 80         names_80 43.06778  87.71435
## 81         names_81 44.77445 132.33710
## 82         names_82 41.81991 114.38657
## 83         names_83 45.81892 104.84718
## 84         names_84 40.34977 113.25146
## 85         names_85 44.72569 122.40609
## 86         names_86 57.31027 105.65615
## 87         names_87 57.49299  80.61597
## 88         names_88 47.23130 122.50320
## 89         names_89 49.48080 121.59271
## 90         names_90 40.27022 134.80755
```

```
## 91       names_91 45.42190 119.69091
## 92       names_92 46.99893 113.44932
## 93       names_93 45.28997 137.95448
## 94       names_94 40.49504 142.92354
## 95       names_95 50.82938 109.33105
## 96       names_96 52.82280 112.17100
## 97       names_97 43.73921 116.11032
## 98       names_98 56.71463  99.85453
## 99       names_99 61.17173 136.67123
## 100     names_100 49.00083 104.17165
## 101     names_101 50.90755 116.41303
## 102     names_102 42.79806 137.89699
## 103     names_103 46.74826 118.66309
## 104     names_104 53.64260 119.24589
## 105     names_105 41.40028  99.15834
## 106     names_106 52.04787  92.54204
## 107     names_107 48.57136 123.33735
## 108     names_108 50.52797 105.58310
## 109     names_109 34.62994 142.75596
## 110     names_110 54.60722 108.74765
## 111     names_111 43.97174 148.95637
## 112     names_112 55.12038 120.11016
## 113     names_113 52.33802 125.52428
## 114     names_114 48.42156  98.92025
## 115     names_115 45.46259 134.08326
## 116     names_116 45.03338 127.11433
## 117     names_117 44.48714 129.46363
## 118     names_118 25.29610 139.54439
## 119     names_119 48.61956 163.52995
## 120     names_120 54.89303 111.53998
## 121     names_121 43.05592  78.95666
## 122     names_122 48.18539 121.54257
## 123     names_123 49.99372  99.75758
## 124     names_124 38.65178 120.11697
## 125     names_125 46.39132 111.47357
## 126     names_126 34.24236 120.58524
## 127     names_127 34.39980  70.85773
## 128     names_128 30.29721 105.44212
## 129     names_129 51.98750 123.41360
## 130     names_130 43.39799 120.66169
## 131     names_131 43.07927 138.63669
## 132     names_132 37.75525 118.99106
## 133     names_133 38.24355 115.57426
## 134     names_134 41.06141 130.96138
## 135     names_135 39.23013 114.96600
## 136     names_136 25.83068 150.83134
## 137     names_137 47.65184 127.78807
## 138     names_138 40.93296  92.57619
## 139     names_139 34.06648  75.56661
## 140     names_140 56.11217 107.49421
## 141     names_141 31.30431 102.37939
## 142     names_142 42.46242 129.78554
## 143     names_143 37.07403  90.75199
## 144     names_144 40.44483 106.73422
```

```
## 145        names_145 42.69325 118.42275
## 146        names_146 39.19017 100.12481
## 147        names_147 49.21085 128.68910
## 148        names_148 42.53555  95.22505
## 149        names_149 41.37474  92.46891
## 150        names_150 52.36336 127.65660
## 151        names_151 36.02658  87.77354
## 152        names_152 47.26806  79.97032
## 153        names_153 48.59483 108.72030
## 154        names_154 43.69191 114.50150
## 155        names_155 44.92127 130.14576
## 156        names_156 53.36348 113.33310
## 157        names_157 50.47031 123.34261
## 158        names_158 25.83783 144.09426
## 159        names_159 44.94501 100.79834
## 160        names_160 49.57999 112.43404
## 161        names_161 47.65676  75.31910
## 162        names_162 50.32073 115.12418
## 163        names_163 48.95413  99.39869
## 164        names_164 39.74375 134.99635
## 165        names_165 44.82915 122.59012
## 166        names_166 57.54907 114.59406
## 167        names_167 42.65506  60.38184
## 168        names_168 33.26820 129.04730
## 169        names_169 46.42585 111.39035
## 170        names_170 39.73128  94.69298
## 171        names_171 41.18815  83.52262
## 172        names_172 42.51231 132.78266
## 173        names_173 53.63638 117.53833
## 174        names_174 42.64709 127.16721
## 175        names_175 42.49971 104.43670
## 176        names_176 54.48287 128.65804
## 177        names_177 54.36820 139.15394
## 178        names_178 47.70381 131.93813
## 179        names_179 42.93804 129.76133
## 180        names_180 40.10561 124.24631
## 181        names_181 39.20473 141.72753
## 182        names_182 41.21329 111.06100
## 183        names_183 45.13343  98.62226
## 184        names_184 60.93404 153.35481
## 185        names_185 38.94457 168.42209
## 186        names_186 43.49671 125.98846
## 187        names_187 35.18634 119.52745
## 188        names_188 45.70945 125.76298
## 189        names_189 39.27864  91.10143
## 190        names_190 39.86773 118.37145
## 191        names_191 42.20202  95.85109
## 192        names_192 35.18196 105.02428
## 193        names_193 37.91263 145.59921
## 194        names_194 43.33620 110.51954
## 195        names_195 44.75590 129.04342
## 196        names_196 39.72095 121.53454
## 197        names_197 40.73089 102.93216
## 198        names_198 31.61212 132.58665
```

```
## 199     names_199 42.36935 114.98125
## 200     names_200 47.39397 110.03123
## 201     names_201 44.09056 105.77031
## 202     names_202 44.76332 109.42814
## 203     names_203 37.97820 101.42386
## 204     names_204 51.86328  79.46706
## 205     names_205 32.72688 144.47009
## 206     names_206 43.67469  89.50218
## 207     names_207 45.02756 118.59934
## 208     names_208 42.27332 110.81267
## 209     names_209 39.03991  96.21092
## 210     names_210 37.15505 137.33059
## 211     names_211 53.93567  96.95870
## 212     names_212 42.23919  98.44068
## 213     names_213 48.42334 119.16051
## 214     names_214 49.18474 115.32176
## 215     names_215 54.02623  67.77313
## 216     names_216 43.06186 120.39012
## 217     names_217 38.39305  71.98033
## 218     names_218 43.35745 100.13271
## 219     names_219 56.63830 111.60033
## 220     names_220 51.54157 135.87351
## 221     names_221 49.25146 114.86350
## 222     names_222 47.31451  90.98373
## 223     names_223 48.83490 118.17648
## 224     names_224 50.00348 114.53253
## 225     names_225 48.85612 153.47988
## 226     names_226 45.04648  93.60785
## 227     names_227 57.08150 113.41824
## 228     names_228 36.19467 136.00907
## 229     names_229 48.34315 162.52232
## 230     names_230 40.55739 120.45909
## 231     names_231 48.34484 119.52042
## 232     names_232 41.78512 115.03289
## 233     names_233 34.73395  74.73154
## 234     names_234 57.83079 121.80546
## 235     names_235 41.66170 141.03996
## 236     names_236 36.53957 134.07914
## 237     names_237 46.77349  86.63349
## 238     names_238 42.46212 115.64202
## 239     names_239 43.79516  96.23322
## 240     names_240 40.66547 158.50016
## 241     names_241 39.30688 101.71014
## 242     names_242 46.95633 103.28018
## 243     names_243 53.34921 126.65193
## 244     names_244 56.48830 136.64716
## 245     names_245 43.11572 108.80623
## 246     names_246 42.14091 116.44709
## 247     names_247 30.00412 127.33710
## 248     names_248 53.26189 124.88409
## 249     names_249 38.66115 112.95952
## 250     names_250 50.89073 109.07023
## 251     names_251 40.89186 139.14126
## 252     names_252 46.16765 128.37566
```

```
## 253         names_253 51.89331 113.90560
## 254         names_254 39.66420 127.61536
## 255         names_255 52.94704 146.83169
## 256         names_256 42.03243  69.23958
## 257         names_257 37.85494 106.70131
## 258         names_258 46.47500 125.59614
## 259         names_259 49.65996 121.72698
## 260         names_260 51.25262 106.88467
## 261         names_261 38.36473 104.90079
## 262         names_262 38.69992 122.00933
## 263         names_263 43.15630 117.87775
## 264         names_264 48.56888  97.37134
## 265         names_265 48.21312  91.98156
## 266         names_266 72.53158 108.37179
## 267         names_267 48.46278 130.70109
## 268         names_268 55.18730  92.43815
## 269         names_269 47.66679 138.70624
## 270         names_270 53.59858  80.25825
## 271         names_271 50.14339 114.05306
## 272         names_272 41.45050 117.36505
## 273         names_273 43.88224 107.81234
## 274         names_274 35.48115 104.66887
## 275         names_275 32.32529 124.36594
## 276         names_276 50.43270 112.65639
## 277         names_277 35.42264 113.28004
## 278         names_278 47.93230 126.83013
## 279         names_279 46.30167  80.98842
## 280         names_280 44.23755 122.97372
## 281         names_281 47.56201 110.04656
## 282         names_282 50.26223 135.96392
## 283         names_283 49.04236 111.66609
## 284         names_284 58.15784 118.05756
## 285         names_285 50.14480 120.28265
## 286         names_286 34.42824 109.80518
## 287         names_287 44.08348  92.08132
## 288         names_288 33.84203  98.20298
## 289         names_289 37.57420 100.06567
## 290         names_290 49.72729 147.49464
## 291         names_291 45.70762 128.74051
## 292         names_292 40.55229 114.51715
## 293         names_293 53.75936 131.73423
## 294         names_294 43.43399 119.26675
## 295         names_295 45.26000  83.91834
## 296         names_296 50.11862  94.31470
## 297         names_297 52.59992 132.82491
## 298         names_298 29.64647 113.99478
## 299         names_299 42.23921  98.81418
## 300         names_300 43.40470 125.96539
## 301         names_301 36.03391 106.19978
## 302         names_302 36.13730 127.97698
## 303         names_303 38.87817 145.14800
## 304         names_304 44.77590 101.32009
## 305         names_305 52.54043  93.53594
## 306         names_306 34.59342 168.65205
```

```
## 307     names_307 40.90196 103.52697
## 308     names_308 44.05596 108.89124
## 309     names_309 36.87718 130.68589
## 310     names_310 46.83325  99.56198
## 311     names_311 44.98840 110.42510
## 312     names_312 40.85792  93.73232
## 313     names_313 52.54148 122.75528
## 314     names_314 44.47413  88.10004
## 315     names_315 42.02374 132.72798
## 316     names_316 53.12795 117.59002
## 317     names_317 44.56524 123.09695
## 318     names_318 48.02902 133.93250
## 319     names_319 52.88208 101.77509
## 320     names_320 41.29792 101.75387
## 321     names_321 44.93845 129.52344
## 322     names_322 48.01449 118.63803
## 323     names_323 44.18364 117.14483
## 324     names_324 40.04008 138.85823
## 325     names_325 35.37168 141.69234
## 326     names_326 57.65329 136.78953
## 327     names_327 38.45522  89.48104
## 328     names_328 39.58488  91.93837
## 329     names_329 42.29985  98.55687
## 330     names_330 53.55892 124.88658
## 331     names_331 42.44714 106.75132
## 332     names_332 45.61563 145.07229
## 333     names_333 57.10710 105.98451
## 334     names_334 42.13384 118.20389
## 335     names_335 49.53525 109.08682
## 336     names_336 41.32038 130.27657
## 337     names_337 31.95792 131.95328
## 338     names_338 37.05265 107.45168
## 339     names_339 45.48352  94.68363
## 340     names_340 33.46085  83.75667
## 341     names_341 48.11447 107.76441
## 342     names_342 45.22882  97.77507
## 343     names_343 49.34056 111.82033
## 344     names_344 45.04463 147.16556
## 345     names_345 50.56874  94.76594
## 346     names_346 36.14039 125.19685
## 347     names_347 47.67680 127.78271
## 348     names_348 45.68832 125.87547
## 349     names_349 40.56998  94.65931
## 350     names_350 36.37981  95.87464
## 351     names_351 45.44728 130.81673
## 352     names_352 31.58034 108.80185
## 353     names_353 52.78674 101.29727
## 354     names_354 47.19685 141.97603
## 355     names_355 44.08693 102.09499
## 356     names_356 56.50118 107.74743
## 357     names_357 36.34474 117.58703
## 358     names_358 48.12769  93.08904
## 359     names_359 58.72263 126.60999
## 360     names_360 34.33043 118.66083
```

```
## 361       names_361 56.03006 103.88611
## 362       names_362 55.57643 139.80606
## 363       names_363 63.53717 113.85905
## 364       names_364 42.75157 119.54887
## 365       names_365 46.00795 119.83179
## 366       names_366 44.45562 114.47539
## 367       names_367 47.85307 131.80836
## 368       names_368 27.53192 130.84483
## 369       names_369 48.55821 105.44005
## 370       names_370 39.13553  88.88619
## 371       names_371 48.54313 115.24558
## 372       names_372 61.44957 110.19523
## 373       names_373 35.76655 110.60381
## 374       names_374 39.96947 131.77046
## 375       names_375 48.66571 105.29397
## 376       names_376 44.29531 116.23061
## 377       names_377 42.53392 116.58128
## 378       names_378 51.11966 111.26153
## 379       names_379 32.91742 156.49121
## 380       names_380 47.07386 100.05528
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## 9703    names_9703 29.87268 148.21617
## 9704    names_9704 42.46456 108.67009
## 9705    names_9705 48.70235 117.84061
## 9706    names_9706 48.76228 115.83125
## 9707    names_9707 54.23978 136.66935
## 9708    names_9708 51.08516 132.06108
## 9709    names_9709 40.37529 126.83969
## 9710    names_9710 55.58409 135.38902
## 9711    names_9711 44.29232 100.20809
## 9712    names_9712 51.57818 113.16237
## 9713    names_9713 47.85741 108.22005
## 9714    names_9714 37.81008 124.07451
## 9715    names_9715 51.93988 127.99933
## 9716    names_9716 57.61815 126.45738
## 9717    names_9717 35.43175 120.25580
## 9718    names_9718 39.35895 125.84360
## 9719    names_9719 35.16320 103.39731
## 9720    names_9720 31.87723 103.15426
## 9721    names_9721 54.13477  74.75497
## 9722    names_9722 51.73371 106.47983
## 9723    names_9723 38.27232 103.67979
## 9724    names_9724 39.06669 114.46743
## 9725    names_9725 41.78435 115.98143
## 9726    names_9726 32.25244 119.72092
## 9727    names_9727 41.79606 111.71193
## 9728    names_9728 49.87509 161.24241
## 9729    names_9729 43.42162 145.61987
## 9730    names_9730 39.60257  86.54207
## 9731    names_9731 43.69974  90.93985
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## 9733    names_9733 47.03277 122.05807
## 9734    names_9734 41.90699  66.23757
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## 9736    names_9736 38.76162 139.88522
## 9737    names_9737 40.14595 132.44568
## 9738    names_9738 56.38359 109.02380
## 9739    names_9739 39.03839  78.30588
## 9740    names_9740 33.88163 130.46382
## 9741    names_9741 34.96149 138.46087
## 9742    names_9742 35.62222  98.29483
## 9743    names_9743 48.88371 117.99924
## 9744    names_9744 52.82154 142.23738
## 9745    names_9745 37.56125  97.09066
## 9746    names_9746 43.00210 102.01833
## 9747    names_9747 41.55980 113.31543
## 9748    names_9748 50.43183 119.88033
## 9749    names_9749 53.52330 142.90483
## 9750    names_9750 39.42662 101.32396
## 9751    names_9751 36.43273 125.54809
## 9752    names_9752 39.57158 103.67216
## 9753    names_9753 36.97187 125.95114
## 9754    names_9754 41.17206 137.37404
## 9755    names_9755 36.04734 134.13677
## 9756    names_9756 47.28276 145.28323
```

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## 9758    names_9758 58.48016 116.08097
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## 9766    names_9766 38.40391  80.96760
## 9767    names_9767 50.14189 136.15625
## 9768    names_9768 39.65649 113.89466
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## 9774    names_9774 47.28892  80.87059
## 9775    names_9775 50.88045 124.12797
## 9776    names_9776 47.10675 110.66594
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## 9779    names_9779 45.87507  91.14412
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## 9781    names_9781 55.50987 108.30821
## 9782    names_9782 45.61052 109.24983
## 9783    names_9783 51.35162  92.49908
## 9784    names_9784 53.53348 130.42875
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## 9804    names_9804 50.80426 110.96115
## 9805    names_9805 49.46780 119.70257
## 9806    names_9806 29.79305 104.38040
## 9807    names_9807 53.75202  99.03990
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## 9809    names_9809 50.43527  87.63567
## 9810    names_9810 51.63342  82.06926
```

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## 9811    names_9811 46.12146 130.20119
## 9812    names_9812 62.92545 141.84767
## 9813    names_9813 49.46676 119.60360
## 9814    names_9814 31.56234  91.44302
## 9815    names_9815 44.27305 109.06744
## 9816    names_9816 41.60647 160.15048
## 9817    names_9817 48.73299 111.82935
## 9818    names_9818 49.40365  92.57542
## 9819    names_9819 50.73565 124.41209
## 9820    names_9820 53.84861  98.54611
## 9821    names_9821 34.83948 140.08069
## 9822    names_9822 30.48501 105.88405
## 9823    names_9823 42.42513 133.20257
## 9824    names_9824 33.59329  88.08188
## 9825    names_9825 50.44404  99.22473
## 9826    names_9826 42.86417 144.58897
## 9827    names_9827 43.70269 134.89722
## 9828    names_9828 40.04551 101.46236
## 9829    names_9829 46.00480 109.76870
## 9830    names_9830 42.17067 120.89151
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## 9832    names_9832 56.15706  98.72185
## 9833    names_9833 47.59343 146.29011
## 9834    names_9834 48.84513 100.32837
## 9835    names_9835 48.37459 136.01837
## 9836    names_9836 47.01495 134.70804
## 9837    names_9837 47.65054 137.99235
## 9838    names_9838 44.60280 116.28748
## 9839    names_9839 49.91387  74.57361
## 9840    names_9840 47.02902 148.68404
## 9841    names_9841 40.49018 117.35866
## 9842    names_9842 50.96775 103.28649
## 9843    names_9843 44.48557  89.27084
## 9844    names_9844 44.79125 106.07427
## 9845    names_9845 41.23380 118.85631
## 9846    names_9846 45.05131 112.54070
## 9847    names_9847 57.22825 117.16006
## 9848    names_9848 45.20777  97.63744
## 9849    names_9849 51.06061 124.19821
## 9850    names_9850 38.57368  90.48027
## 9851    names_9851 41.04104 126.79379
## 9852    names_9852 46.13064 117.95547
## 9853    names_9853 37.75589 131.30427
## 9854    names_9854 35.53469 150.30743
## 9855    names_9855 46.48176 125.11174
## 9856    names_9856 39.06156 132.12495
## 9857    names_9857 54.73087 137.53290
## 9858    names_9858 48.20684  97.66527
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## 9864    names_9864 45.27240 117.06495
```

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## 9869    names_9869 37.48638 104.72775
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## 9871    names_9871 40.96264 124.97473
## 9872    names_9872 39.16455 126.41242
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## 9874    names_9874 49.90957  95.59824
## 9875    names_9875 49.82054  91.52695
## 9876    names_9876 50.06288 117.59506
## 9877    names_9877 49.86369 135.51034
## 9878    names_9878 37.17450 119.16655
## 9879    names_9879 48.37504  76.77099
## 9880    names_9880 39.81216 133.42838
## 9881    names_9881 47.66106  98.31440
## 9882    names_9882 38.49443 132.84660
## 9883    names_9883 33.75716 128.79882
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## 9900    names_9900 36.54283 128.22302
## 9901    names_9901 45.02067 128.66288
## 9902    names_9902 43.55321 126.45621
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## 9904    names_9904 54.81932 143.89354
## 9905    names_9905 55.42804 132.10440
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## 9907    names_9907 44.98287 125.95029
## 9908    names_9908 42.97931 140.27124
## 9909    names_9909 50.77236 102.50617
## 9910    names_9910 40.50400 126.02646
## 9911    names_9911 54.71529 116.54081
## 9912    names_9912 51.48789 116.83139
## 9913    names_9913 36.02397 104.81822
## 9914    names_9914 42.95448 121.68221
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## 9917    names_9917 45.78618 108.39234
## 9918    names_9918 34.73529 103.54191
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## 9920      names_9920 36.74614 127.06933
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## 9923      names_9923 42.90952 114.52097
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## 9925      names_9925 38.73380 130.90760
## 9926      names_9926 43.61003 119.65475
## 9927      names_9927 47.41065 114.18811
## 9928      names_9928 42.25568 113.83672
## 9929      names_9929 47.58205  90.94365
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## 9984     names_9984 33.60268 110.76822
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## 9986     names_9986 42.77026 106.01019
## 9987     names_9987 46.01016 125.03721
## 9988     names_9988 44.69982  98.19645
## 9989     names_9989 46.20757 139.26383
## 9990     names_9990 41.51208 108.99951
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## 9992     names_9992 41.85992 132.54156
## 9993     names_9993 41.78443 101.77683
## 9994     names_9994 45.15644 133.49763
## 9995     names_9995 43.62901 103.63039
## 9996     names_9996 49.87194  99.79830
## 9997     names_9997 48.87716  94.72816
## 9998     names_9998 37.41745 122.81190
## 9999     names_9999 42.85416 107.80303
## 10000 names_10000 43.20160 128.56265
```

```r
#Now calculating the BMI of fake students
alldata2$bmi <- cbind(names2, alldata2$weight/alldata2$height^2 * 703)

#Adding heading for the table
colnames(alldata2$bmi) <- c("names2", "bmi2")

#printing the table
print(alldata2$bmi)
```

```
##           names2       bmi2
##     [1,] "names_1"    "119.577467284138"
##     [2,] "names_2"    "27.607355073219"
##     [3,] "names_3"    "34.3969074740556"
##     [4,] "names_4"    "44.6053397925298"
##     [5,] "names_5"    "21.6235735784761"
##     [6,] "names_6"    "33.4429404258056"
##     [7,] "names_7"    "52.0086442445164"
##     [8,] "names_8"    "22.8768392229119"
##     [9,] "names_9"    "40.0810970898292"
##    [10,] "names_10"   "44.55706267447"
##    [11,] "names_11"   "26.0558800525366"
##    [12,] "names_12"   "30.6725640074085"
##    [13,] "names_13"   "145.605025082854"
##    [14,] "names_14"   "34.975575570017"
##    [15,] "names_15"   "59.5720131317407"
```

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##      [17,]  "names_17"    "26.5342644056259"
##      [18,]  "names_18"    "60.7835387734024"
##      [19,]  "names_19"    "51.6008555685363"
##      [20,]  "names_20"    "50.8154412071475"
##      [21,]  "names_21"    "27.1813301882604"
##      [22,]  "names_22"    "85.8148202613947"
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##      [30,]  "names_30"    "31.7568715349516"
##      [31,]  "names_31"    "34.7665882099388"
##      [32,]  "names_32"    "36.4944826103567"
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##      [34,]  "names_34"    "93.2604666175757"
##      [35,]  "names_35"    "30.0243977431973"
##      [36,]  "names_36"    "76.5987248524114"
##      [37,]  "names_37"    "36.6877446462553"
##      [38,]  "names_38"    "30.5127035598712"
##      [39,]  "names_39"    "24.1165910494082"
##      [40,]  "names_40"    "34.2537093444778"
##      [41,]  "names_41"    "25.7585562268497"
##      [42,]  "names_42"    "53.0276318915937"
##      [43,]  "names_43"    "56.8817673713611"
##      [44,]  "names_44"    "49.459269907409"
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##      [59,]  "names_59"    "46.7053415521167"
##      [60,]  "names_60"    "23.9570991087107"
##      [61,]  "names_61"    "51.1946440063042"
##      [62,]  "names_62"    "32.4698480883248"
##      [63,]  "names_63"    "34.8746004455246"
##      [64,]  "names_64"    "29.5847221305357"
##      [65,]  "names_65"    "41.7468943949492"
##      [66,]  "names_66"    "52.7480926574985"
##      [67,]  "names_67"    "20.6401865994167"
##      [68,]  "names_68"    "40.3977894749749"
##      [69,]  "names_69"    "47.1249599978759"
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##    [72,]  "names_72"   "25.1873493869117"
##    [73,]  "names_73"   "52.0050727218802"
##    [74,]  "names_74"   "44.7742044868222"
##    [75,]  "names_75"   "44.3413258185175"
##    [76,]  "names_76"   "67.5517284900056"
##    [77,]  "names_77"   "72.8773279208939"
##    [78,]  "names_78"   "96.514109208802"
##    [79,]  "names_79"   "35.2291909408609"
##    [80,]  "names_80"   "33.2445856217109"
##    [81,]  "names_81"   "46.4062339796503"
##    [82,]  "names_82"   "45.979502577059"
##    [83,]  "names_83"   "35.1093252905808"
##    [84,]  "names_84"   "48.9009162997227"
##    [85,]  "names_85"   "43.0174032284901"
##    [86,]  "names_86"   "22.6144044947774"
##    [87,]  "names_87"   "17.1453627200606"
##    [88,]  "names_88"   "38.6049419189916"
##    [89,]  "names_89"   "34.9131827025932"
##    [90,]  "names_90"   "58.4388437986484"
##    [91,]  "names_91"   "40.7836279471298"
##    [92,]  "names_92"   "36.1061644260751"
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##    [97,]  "names_97"   "42.6662320618222"
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##    [99,]  "names_99"   "25.6762121146186"
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##   [101,]  "names_101"  "31.5785769107054"
##   [102,]  "names_102"  "52.9251396726089"
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##  [9986,]  "names_9986"   "40.7398204534722"
##  [9987,]  "names_9987"   "41.5228535322626"
##  [9988,]  "names_9988"   "34.549320258245"
##  [9989,]  "names_9989"   "45.8529543288402"
##  [9990,]  "names_9990"   "44.4662927407882"
##  [9991,]  "names_9991"   "40.0273617260021"
##  [9992,]  "names_9992"   "53.1753868724646"
##  [9993,]  "names_9993"   "40.9803195566316"
##  [9994,]  "names_9994"   "46.0245501570988"
##  [9995,]  "names_9995"   "38.2729231120669"
##  [9996,]  "names_9996"   "28.2075917019593"
##  [9997,]  "names_9997"   "27.8754939932089"
##  [9998,]  "names_9998"   "61.6662458839677"
##  [9999,]  "names_9999"   "41.2667535807395"
## [10000,] "names_10000" "48.4250852366097"
```

9) Compare the BMI of the new dataset to the old data set. Notice anything interesting?

Results:

After comparison, we have observed that the participants in experiment #1 are more likely to be healthy as the majority of the participants have a BMI closer to 24.5, which is considered normal BMI. Whereas participants in experiment #2 are more likely to be obese.