Module 2, Assignment 2

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```
## -- Attaching packages --------------------------------------- tidyverse 1.3.2 --
## v ggplot2 3.3.6     v purrr   0.3.4
## v tibble  3.1.8     v dplyr   1.0.9
## v tidyr   1.2.0     v stringr 1.4.0
## v readr   2.1.2     v forcats 0.5.1
## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

3.

```
## [1] 4.2
```

```
## [1]  6.6  3.9  4.0  0.2 43.9  0.0  5.4
```

4.

```
## # A tibble: 344 x 11
##    species island    bill_~1 bill_~2 flipp~3 body_~4 sex    year bill_~5 bill_~6
##    <fct>   <fct>       <dbl>   <dbl>   <int>   <int> <fct> <int>   <dbl>   <dbl>
##  1 Adelie  Torgersen    39.1    18.7     181    3750 male   2007    3.91    1.87
##  2 Adelie  Torgersen    39.5    17.4     186    3800 fema~  2007    3.95    1.74
##  3 Adelie  Torgersen    40.3    18       195    3250 fema~  2007    4.03    1.8
##  4 Adelie  Torgersen    NA      NA        NA      NA <NA>   2007   NA      NA
##  5 Adelie  Torgersen    36.7    19.3     193    3450 fema~  2007    3.67    1.93
##  6 Adelie  Torgersen    39.3    20.6     190    3650 male   2007    3.93    2.06
##  7 Adelie  Torgersen    38.9    17.8     181    3625 fema~  2007    3.89    1.78
##  8 Adelie  Torgersen    39.2    19.6     195    4675 male   2007    3.92    1.96
##  9 Adelie  Torgersen    34.1    18.1     193    3475 <NA>   2007    3.41    1.81
## 10 Adelie  Torgersen    42      20.2     190    4250 <NA>   2007    4.2     2.02
## # ... with 334 more rows, 1 more variable: flipper_length_cm <dbl>, and
## #   abbreviated variable names 1: bill_length_mm, 2: bill_depth_mm,
## #   3: flipper_length_mm, 4: body_mass_g, 5: bill_length_cm, 6: bill_depth_cm
## # i Use `print(n = ...)` to see more rows, and `colnames()` to see all variable names
```

6.

```
## [1] 0.042
```

```
## [1] 0.066 0.039 0.040 0.002 0.439 0.000 0.054
```

7.

```
## # A tibble: 344 x 12
##    species island    bill_~1 bill_~2 flipp~3 body_~4 sex    year bill_~5 bill_~6
##    <fct>   <fct>       <dbl>   <dbl>   <int>   <int> <fct> <int>   <dbl>   <dbl>
##  1 Adelie  Torgersen    39.1    18.7     181    3750 male   2007    3.91    1.87
##  2 Adelie  Torgersen    39.5    17.4     186    3800 fema~  2007    3.95    1.74
##  3 Adelie  Torgersen    40.3    18       195    3250 fema~  2007    4.03    1.8
##  4 Adelie  Torgersen    NA      NA        NA      NA <NA>   2007   NA      NA
##  5 Adelie  Torgersen    36.7    19.3     193    3450 fema~  2007    3.67    1.93
##  6 Adelie  Torgersen    39.3    20.6     190    3650 male   2007    3.93    2.06
##  7 Adelie  Torgersen    38.9    17.8     181    3625 fema~  2007    3.89    1.78
##  8 Adelie  Torgersen    39.2    19.6     195    4675 male   2007    3.92    1.96
##  9 Adelie  Torgersen    34.1    18.1     193    3475 <NA>   2007    3.41    1.81
## 10 Adelie  Torgersen    42      20.2     190    4250 <NA>   2007    4.2     2.02
## # ... with 334 more rows, 2 more variables: flipper_length_cm <dbl>,
## #   body_mass_kg <dbl>, and abbreviated variable names 1: bill_length_mm,
## #   2: bill_depth_mm, 3: flipper_length_mm, 4: body_mass_g, 5: bill_length_cm,
## #   6: bill_depth_cm
## # i Use `print(n = ...)` to see more rows, and `colnames()` to see all variable names
```

8.

```
## # A tibble: 344 x 8
##    species island    sex     year bill_length_cm bill_depth_cm flipper~1 body_~2
##    <fct>   <fct>     <fct>  <int>          <dbl>         <dbl>     <dbl>   <dbl>
##  1 Adelie  Torgersen male    2007           3.91          1.87      18.1    3.75
##  2 Adelie  Torgersen female  2007           3.95          1.74      18.6    3.8
##  3 Adelie  Torgersen female  2007           4.03          1.8       19.5    3.25
##  4 Adelie  Torgersen <NA>    2007          NA            NA         NA     NA
##  5 Adelie  Torgersen female  2007           3.67          1.93      19.3    3.45
##  6 Adelie  Torgersen male    2007           3.93          2.06      19      3.65
##  7 Adelie  Torgersen female  2007           3.89          1.78      18.1    3.62
##  8 Adelie  Torgersen male    2007           3.92          1.96      19.5    4.68
##  9 Adelie  Torgersen <NA>    2007           3.41          1.81      19.3    3.48
## 10 Adelie  Torgersen <NA>    2007           4.2           2.02      19      4.25
## # ... with 334 more rows, and abbreviated variable names 1: flipper_length_cm,
## #   2: body_mass_kg
## # i Use `print(n = ...)` to see more rows
```