Assignment 12: Conditionals

Ellen Bledsoe

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Assignment

[1] 0

```
1. Choice Operators (20 pts)
1a
## [1] TRUE
1b
## [1] FALSE FALSE TRUE
1c
## [1] FALSE
1d
## [1] TRUE FALSE FALSE TRUE TRUE
## [1] FALSE
1f
## [1] TRUE
1g
## [1] TRUE
1h
## [1] TRUE
1i
## [1] TRUE TRUE FALSE FALSE TRUE
2. If Statements (20 points)
2a
## [1] 10
2b
## [1] 5
```

```
2d
## [1] 10
## [1] 5
## [1] 0
## [1] 0
## [1] 0
3. If Statements in Functions (20 points)
3a
3b
## [1] 20
3c
## [1] 30
3d
3e
## [1] 10
3f
## [1] 24.5
3g
## [1] NA
4. Size Estimates by Name (20 points)
4a
## [1] 4779.848
4b
## [1] 1385.286
4c
## [1] 8070.685
4d
## [1] NA
Challenge 1 (optional)
## Warning in get_mass_from_length_by_name(13, "Ankylosauria"): No known
## estimation for Ankylosauria
Challenge 2 (optional)
## [1] 1283.047
```

5. Using dplyr Choice Functions (20 points)

[1] "medium"

```
##
## 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
5a
## [1] "small"
5b
## [1] "medium"
5c
```

5d Note: I used the .after argument in the mutate() function to control where the new column shows up so it can be seen in the answer key.

```
## # A tibble: 392 x 10
##
      date
                 latitude site
                                  size size_category air_temp air_temp_sd water_temp
##
      <date>
                    <dbl> <chr> <dbl> <chr>
                                                         <dbl>
                                                                     <dbl>
   1 2016-07-24
                       30 GTM
                                  12.4 small
                                                          21.8
                                                                      6.39
                                                                                  24.5
##
   2 2016-07-24
                       30 GTM
                                  14.2 small
                                                          21.8
                                                                      6.39
                                                                                  24.5
##
##
  3 2016-07-24
                       30 GTM
                                  14.5 small
                                                         21.8
                                                                      6.39
                                                                                 24.5
  4 2016-07-24
                       30 GTM
                                  12.9 small
                                                         21.8
                                                                      6.39
                                                                                 24.5
                                  12.4 small
                                                                                 24.5
##
  5 2016-07-24
                       30 GTM
                                                         21.8
                                                                      6.39
##
   6 2016-07-24
                       30 GTM
                                  13.0 small
                                                         21.8
                                                                      6.39
                                                                                 24.5
##
  7 2016-07-24
                       30 GTM
                                  10.3 small
                                                         21.8
                                                                      6.39
                                                                                 24.5
   8 2016-07-24
                       30 GTM
                                  11.2 small
                                                         21.8
                                                                      6.39
                                                                                 24.5
## 9 2016-07-24
                       30 GTM
                                  12.7 small
                                                                      6.39
                                                                                  24.5
                                                          21.8
## 10 2016-07-24
                       30 GTM
                                  14.6 small
                                                          21.8
                                                                      6.39
                                                                                  24.5
## # i 382 more rows
## # i 2 more variables: water_temp_sd <dbl>, name <chr>
```

5e Note: I used the .after argument in the mutate() function to control where the new column shows up so it can be seen in the answer key.

## # A tibble: 392 x 10								
##		date	latitude	site	size	size_category3	air_temp	air_temp_sd
##		<date></date>	<dbl></dbl>	<chr></chr>	<dbl></dbl>	<chr></chr>	<dbl></dbl>	<dbl></dbl>
##	1	2016-07-24	30	GTM	12.4	medium	21.8	6.39
##	2	2016-07-24	30	GTM	14.2	medium	21.8	6.39
##	3	2016-07-24	30	GTM	14.5	medium	21.8	6.39
##	4	2016-07-24	30	GTM	12.9	medium	21.8	6.39
##	5	2016-07-24	30	GTM	12.4	medium	21.8	6.39
##	6	2016-07-24	30	GTM	13.0	medium	21.8	6.39
##	7	2016-07-24	30	GTM	10.3	medium	21.8	6.39
##	8	2016-07-24	30	GTM	11.2	medium	21.8	6.39
##	9	2016-07-24	30	GTM	12.7	medium	21.8	6.39
##	10	2016-07-24	30	GTM	14.6	medium	21.8	6.39

i 382 more rows
i 3 more variables: water_temp <dbl>, water_temp_sd <dbl>, name <chr>