Assignment 12: Conditionals

Ellen Bledsoe

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Assignment

```
1. Choice Operators (20 pts)
## [1] "1a"
## [1] TRUE
## [1] "1b"
## [1] TRUE
## [1] "1c"
## [1] FALSE
## [1] "1d"
## [1] TRUE FALSE FALSE TRUE TRUE
## [1] "1e"
## [1] FALSE
## [1] "1f"
## [1] TRUE
## [1] "1g"
## [1] TRUE
## [1] "1h"
## [1] TRUE
## [1] "1i"
```

[1] TRUE TRUE FALSE FALSE TRUE

2. If Statements (20 points)

- ## [1] "2a"
- ## [1] 10
- ## [1] "2b"
- ## [1] 5
- ## [1] "2c"
- **##** [1] 0
- ## [1] "2d"
- ## [1] 10
- ## [1] 5
- ## [1] 0
- ## [1] 0
- ## [1] 0

3. If Statements in Functions (20 points)

- ## [1] "3a"
- ## [1] "3b"
- ## [1] 20
- ## [1] "3c"
- ## [1] 30
- ## [1] "3d"
- ## [1] "3e"
- ## [1] 10
- ## [1] "3f"
- ## [1] 24.5
- ## [1] "3g"
- ## [1] NA

```
4. Size Estimates by Name (20 points)
## [1] 4779.848
## [1] 1385.286
## [1] 8070.685
## [1] NA
5. Using dplyr Choice Functions (20 points)
##
## 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
## [1] "5a"
## [1] "small"
## [1] "5b"
## [1] "medium"
## [1] "5c"
## [1] "medium"
## [1] "5d"
## # 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>
                                                                                 <dbl>
                        30 GTM
##
    1 2016-07-24
                                  12.4 small
                                                                      6.39
                                                                                  24.5
                                                          21.8
##
    2 2016-07-24
                        30 GTM
                                  14.2 small
                                                          21.8
                                                                      6.39
                                                                                  24.5
                        30 GTM
##
   3 2016-07-24
                                  14.5 small
                                                          21.8
                                                                      6.39
                                                                                  24.5
##
   4 2016-07-24
                        30 GTM
                                  12.9 small
                                                          21.8
                                                                      6.39
                                                                                  24.5
##
  5 2016-07-24
                        30 GTM
                                  12.4 small
                                                          21.8
                                                                      6.39
                                                                                  24.5
                        30 GTM
                                  13.0 small
                                                                                  24.5
##
   6 2016-07-24
                                                          21.8
                                                                      6.39
  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
##
                                  12.7 small
## 9 2016-07-24
                        30 GTM
                                                          21.8
                                                                      6.39
                                                                                  24.5
## 10 2016-07-24
                        30 GTM
                                                                                  24.5
                                  14.6 small
                                                          21.8
                                                                      6.39
## # i 382 more rows
## # i 2 more variables: water_temp_sd <dbl>, name <chr>
```

[1] "5e"

## # A tibble: 392 x 10								
##		date	latitude	site	size	<pre>size_category3</pre>	${\tt air_temp}$	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
##	# 1	i 382 more	rows					

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