Module 1 Assignment 3

Ellen Bledsoe

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1.

```
## [1] NA
```

2.

```
## [1] 64.94737
```

3.

```
##  [1] 63 60 65 NA 61 61 59 64 63 63 65 64 63 65
```

4.

```
## [1] "Mystery" "Hazel"   "Spud"    "Pancho"
```

5.

```
## [1] "Spud"
```

6.

```
## [1] "Spud"
```

8.

```
##   group_id temp_F wind_speed_mph               species   size paddle_id length_in
## 1        2     59              4 Opuntia engelmannii Medium         1      13.0
## 2        2     59              4 Opuntia engelmannii Medium         2      12.2
## 3        2     59              4 Opuntia engelmannii Medium         3      10.3
## 4        2     59              4 Opuntia engelmannii Medium         4      10.0
## 5        2     59              4 Opuntia engelmannii Medium         5      12.7
## 6        2     59              4 Opuntia engelmannii Medium         6      13.8
##   width_in depth_in spines insects damage location
## 1     10.0      0.5      Y       N   None    Fifth
## 2      6.0      0.4      Y       N   Some   Fourth
## 3      7.5      0.2      Y       N   None   Fourth
## 4      6.8      0.1      Y       N   None   Fourth
## 5     10.1      0.2      Y       N   None    Fifth
## 6      9.5      0.5      Y       N   Most   Fourth
```
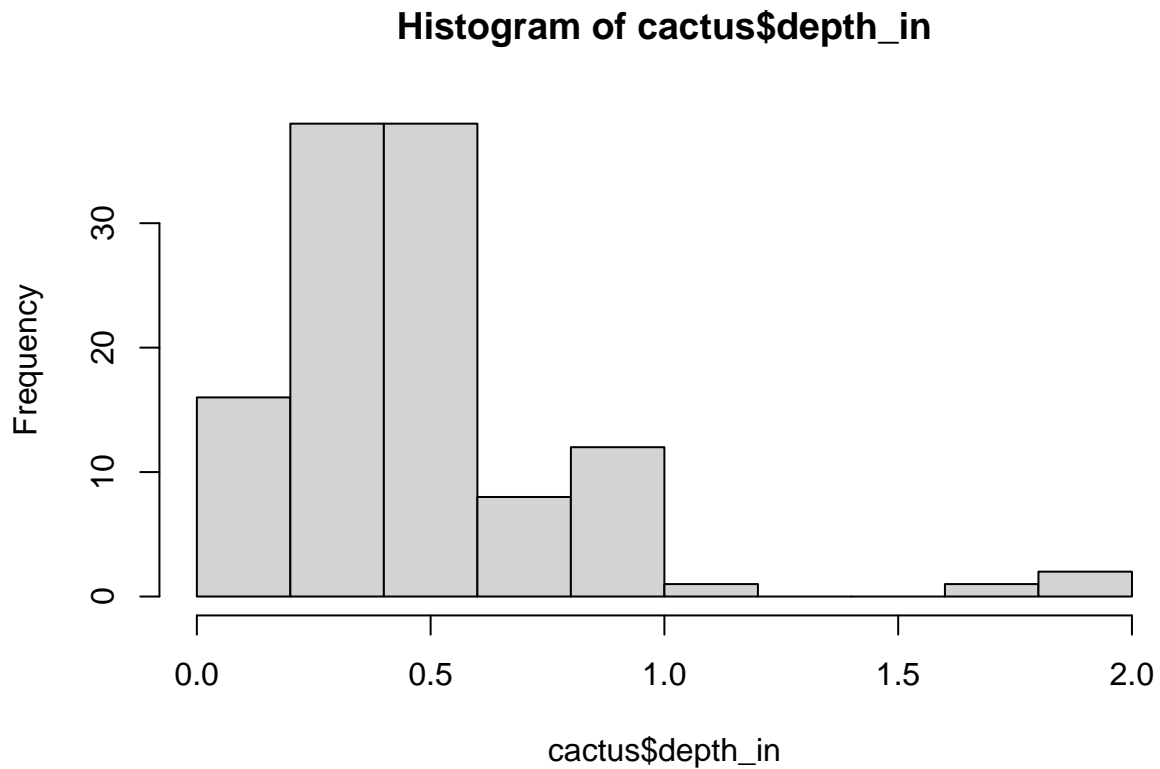
9.

```
## [1] 9.509483
```

10.

```
## [1] 9.5
```

11.

Histogram of cactus$depth_in

13.

```
##  [1] 0.50 0.20 0.10 0.40 0.30 0.40 0.50 0.30 0.30 0.75 0.25 0.25 0.50 0.50 0.50
## [16] 0.50 0.25 0.50 0.50 0.50 0.20 0.30 0.60 0.20 0.30 0.30 0.20 0.30 0.20 0.40
## [31] 0.50 0.50 0.40 0.50 0.60 0.70 1.00 0.60 1.70 0.40 0.50 0.50 0.40 0.50 0.75
## [46] 0.25 0.50 0.40 0.40 0.30 0.50 0.30 0.40 0.30 0.80 0.40 0.30
```

14. Just a note that I am printing the first 10 rows of each data frame, not necessarily the entire thing, to include in the answer key.

```
##    group_id temp_F wind_speed_mph              species   size paddle_id
## 11        9     59              4 Opuntia ficus-indica Medium         1
## 12        9     59              4 Opuntia ficus-indica Medium         2
```

```
## 13         9      59                4 Opuntia ficus-indica Medium        3
## 14         9      59                4 Opuntia ficus-indica Medium        4
## 15         9      59                4 Opuntia ficus-indica Medium        5
## 16         9      59                4 Opuntia ficus-indica Medium        6
## 17         9      59                4 Opuntia ficus-indica Medium        7
## 18         9      59                4 Opuntia ficus-indica Medium        8
## 19         9      59                4 Opuntia ficus-indica Medium        9
## 20         9      59                4 Opuntia ficus-indica Medium       10
##    length_in width_in depth_in spines insects damage location
## 11       8.5      4.5      0.5      N       N    Some  Seventh
## 12       6.0      2.7      0.2      N       N    None    Sixth
## 13       1.2      0.5      0.1      N       N    None    Eigth
## 14       9.0      2.2      0.4      N       N    Some   Fourth
## 15       5.6      2.7      0.3      N       N    None    Sixth
## 16       4.5      1.8      0.4      N       N    None    Sixth
## 17       9.5      5.0      0.5      N       N    Most   Second
## 18       5.7      1.5      0.3      N       N    None    Sixth
## 19       4.8      2.5      0.1      Y       N    None  Seventh
## 20       4.8      2.3      0.3      N       N    None  Seventh

##    group_id temp_F wind_speed_mph             species   size paddle_id
## 1         2     59                4 Opuntia engelmannii Medium        1
## 2         2     59                4 Opuntia engelmannii Medium        2
## 3         2     59                4 Opuntia engelmannii Medium        3
## 4         2     59                4 Opuntia engelmannii Medium        4
## 5         2     59                4 Opuntia engelmannii Medium        5
## 6         2     59                4 Opuntia engelmannii Medium        6
## 7         2     59                4 Opuntia engelmannii Medium        7
## 8         2     59                4 Opuntia engelmannii Medium        8
## 9         2     59                4 Opuntia engelmannii Medium        9
## 10        2     59                4 Opuntia engelmannii Medium       10
##    length_in width_in depth_in spines insects damage location
## 1       13.0     10.0      0.5      Y       N    None    Fifth
## 2       12.2      6.0      0.4      Y       N    Some   Fourth
## 3       10.3      7.5      0.2      Y       N    None   Fourth
## 4       10.0      6.8      0.1      Y       N    None   Fourth
## 5       12.7     10.1      0.2      Y       N    None    Fifth
## 6       13.8      9.5      0.5      Y       N    Most   Fourth
## 7       13.5      9.0      0.4      Y       N    None   Fourth
## 8       10.4      7.6      0.4      Y       N    None    Fifth
## 9        9.0      6.2      0.3      Y       N    None    Fifth
## 10      11.0      6.8      0.3      Y       N    None    Fifth
```

15.

```
## [1] 5.2775
```

```
## [1] 8.197222
```

16.

```
## [1] 2.402178
```

```
## [1] 1.818906
```