

# Module 1 Assignment 3

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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
```

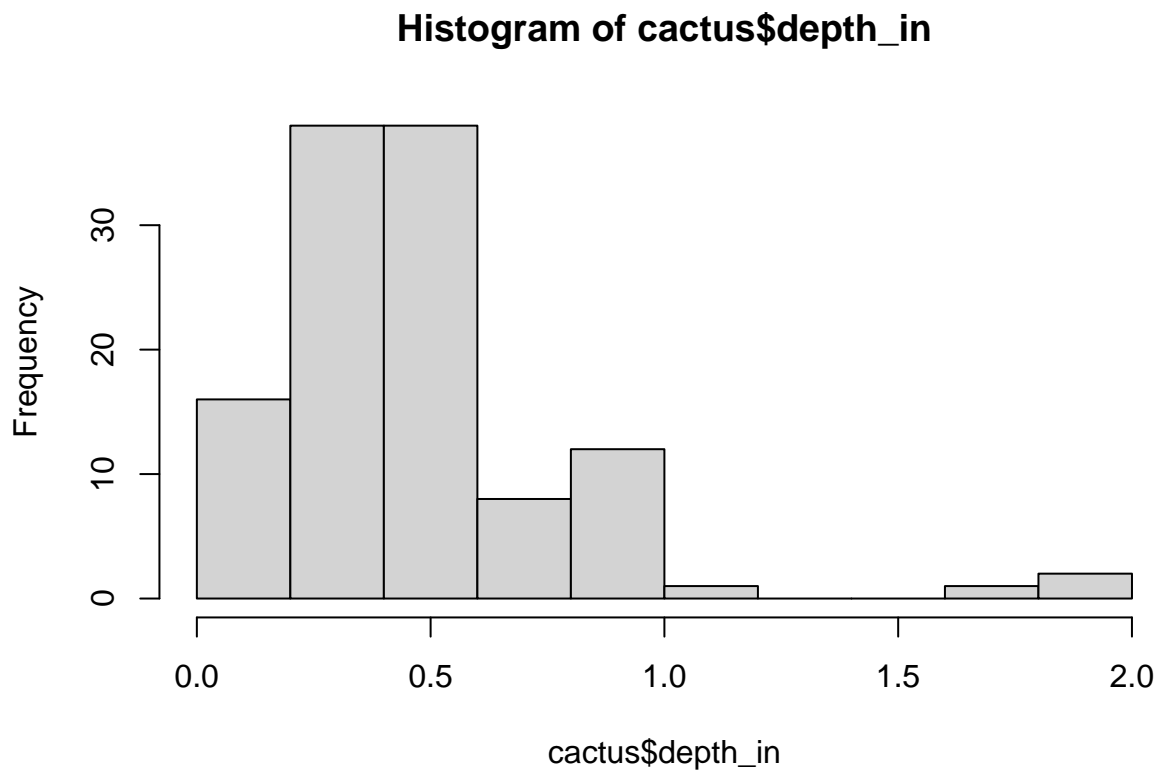
9.

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

10.

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

11.



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	Eighth
## 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