

## Question 2.12

- a. [1 pt] The number of loosestrife plants and the shadiness category for the 10th plot is shown below.

```
lstrf shade
10    23    0
```

- b. [1 pt] The number of loosestrife plants in each plot is shown below.

```
[1] 13  2  1  0  9 11  5  5 14 23  0  2  3  3  6  7  4 16  1
```

- c. [1 pt] The data for each completely shaded plot is shown below.

```
lstrf shade
2      2      S
3      1      S
4      0      S
7      5      S
11     0      S
12     2      S
17     4      S
19     1      S
```

- d. [1 pt] The data for each of the open plots is shown below.

```
lstrf shade
1      13     0
5      9      0
6      11     0
9      14     0
10     23     0
18     16     0
```

- e. [1 pt] The data for each open and partially shaded plot is shown below.

```
lstrf shade
1      13     0
5      9      0
6      11     0
8       5     P
9      14     0
10     23     0
13      3     P
14      3     P
15      6     P
16      7     P
18     16     0
```

- f. [1 pt] The data for each plot with more than 10 loosestrife plants is shown below.

```
lstrf shade
1      13     0
6      11     0
9      14     0
10     23     0
18     16     0
```

- g. [1 pt] The data for each completely shaded plot with less than five plants is shown below.

```
lstrf shade
2      2      S
3      1      S
4      0      S
11     0      S
12     2      S
17     4      S
19     1      S
```

## Appendix R Commands

```
> library(NCStats)
> setwd('C:/aaaWork/Books/Intro_Stats_Integrated/HW/')
> df <- read.table("loostrife.txt",header=TRUE)
> df[10,]
> df$lstrf
> Subset(df,shade=="S")
> Subset(df,shade=="O")
> Subset(df,shade!="S")
> Subset(df,lstrf>10)
> Subset(df,shade=="S" & lstrf <5)
```

## Notes from the Professor

- In 2.12b, use the variable name (e.g., `df$lstrf`) rather than the column position (e.g., `df[,1]`).
- Don't use `view()` when you want to see an entire data frame because it only shows a random six rows. Type the name of the data frame object if you want to see the entire data frame.
- You should have no R code in the “answers” part of your document. Your R code should appear, without any command prompts or additional labeling, as an appendix at the end of your document. You or I should be able to copy all of the code in your appendix into R and have it run without error (with the possible exception that I would have to change your working directory in `setwd()`).
- Make sure you follow the directions for formatting your homework found in Section 2.5 of the book.
- On the next homework, make sure that tables and figures are labelled and referred to as described in Section 2.5 of the book.