

**STT 301 Quiz 2 Solutions**  
**September 17, 2018**

Name: \_\_\_\_\_ PID: \_\_\_\_\_

**Directions:** Answer two of the three questions below. Write “Do Not Grade” in the blank space of the question you do not want me to grade. If you answer all three questions, I will only grade the first two questions. Each question is worth 1 point. The `>` before any variable assignment is the prompt as you would see if you were typing this code in the RStudio console.

1. Consider the small data frame named `cars` given below. The 1, 2, 3, 4, 5, 6 shown on the left are the row names and not elements of the data frame.

```
> cars
      mpg cyl  disp  hp
1  21.0   6   160  110
2  21.0   6   160  110
3  22.8   4   108   93
4  21.4   6   258  110
5  18.7   8   360  175
6  18.1   6   225  105
```

What would be the output from the R command `cars[3, 4]`?

```
> cars[3, 4]

[1] 93
```

2. From `cars`, what would be the output from the R command `cars["cyl"]`?

```
> cars["cyl"]
      cyl
1      6
2      6
3      4
4      6
5      8
6      6
```

3. What is the result of `sum(is.na(cars[, 2]))`?

```
> sum(is.na(cars[, 2]))
```

```
[1] 0
```