Lecture 3.3 – Conditionals

Specific Learning Objectives:

1.2.1 – Understand the way computers execute commands.

1.2.7 – Understand and successfully execute conditional if/else statements (vectorized and non-vectorized).

3.5 – Think and work independently with code.

Check Your Understanding

Write a conditional that prints "higher" if the number `n` is above 10 *and* "lower" if the number `n` is below 10.

Try adding a second condition statement to test so that the number `j` is also tested. Now make "higher" print if `j` *and* `n` are above 10 and lower if `j` *and* `n` are below 10.

Check Your Understanding

Write a conditional that prints “higher” if the number `n` is above 10 and “lower” if the number `n` is below 10.

Add two other conditions that prints “a lot lower” if `n` is below 0 and “a lot higher” if `n` is above 20.

(Try this using if and else, and then with switch!)

In Class Exercises

1. **Work with a partner:** For the following code:

```
cond <- c(TRUE, FALSE, FALSE, NA, TRUE)
answers <- ifelse(is.na(cond),”blob”,
                  ifelse(cond,”heads","tails"))
```

   What will the value of each place in answers? Write this down before you run the code. Check with your neighbor, then run the code.

2. **Work on Assignment 3.3.**

Action Items

1. **Complete Assignment 3.3.**

2. **Read Davies Ch. 10.2 for next time.**