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# CMSC 115 Reading Guide

Please enter your responses in red.

## Chapter 2

## Section 2.1 Quickstart Control Re-read

### Section 2.1.1

1. What does *selection* refer to? Selection is the process of applying a decision to control the choice of executing one part of a program or another.
2. What is a *condition*? Condition is a Boolean expression, either true or false, and is like a fork in the road.

### Section 2.1.2

1. What is a Boolean value? A Boolean value is either true or false.
2. What is a Boolean expression? A Boolean expression is an expression that evaluates whether the value associated is true or false.
3. What is the difference between assignment (=) and equality (==)? An assignment does what it says, it assigns the variable before it to the value after it. The equality is Python’s way of checking if the two values on each side are equal.

### Section 2.1.3

1. What is a *suite* of statements? (Note that their use of the word “suite” is unique here. I’ve generally heard it called a *block* of code, or a *section* of code. A suite of statements is where one logical statement occurs, generally refers to an if statement.
2. What is the difference between the if statement and the if-else statement? An if statement runs the following code if the statement is proven true, an if-else statement runs the following code if the statement is true, else is runs the last part of code under the “else” statement.

### Section 2.1.4

### Section 2.1.5

1. What is the purpose of the while statement? The purpose of the while statement is to continually execute the while suite if the associated value is true.
2. What is the one small difference between the way an if statement executes and the way a while statement executes? An if statement only executes once, but the while statement executes continually if the value is true.
3. What is an *iterator*? An iterator is an object associated with all the collection types in python.

### Sections 2.1.6 and 2.1.7 Skip, until next time