

**CS-200: Programming I**  
**Fall 2017**  
**Northeastern Illinois University**  
**PLTL: Week of 11/21/17**  
**Selection Statements/Methods**

**Practice Problem #1**

- Write a program that has the class name Problem1 and that has the main method.
- In the main method prompt the user for n1 and n2.
- Write a second method named max that takes two integer parameters, a and b.
- The method should return whichever integer is larger without using the Math class. The method should also display which integer was larger or that they are equal.
- Several sample method calls are provided for you below. You should test your method inside the main method.

Sample Method Usage	Output
max(5, 5)	They are equal
max(-4, 3)	n2 is the max at: 3
max(6, 11)	n2 is the max at: 11
max(8, 2)	n1 is the max at: 8

**Practice Problem #2**

- Write a program that has the class name Problem2 and that has the main method. This method should take user input. You may assume the integer that is input is less than 100.
- Write a second method named sumOfDigits that takes one integer parameter, a.
- The method should return the sum of the digits entered by the user.
- Several sample method calls are provided for you below. You should test your method inside the main method.

Sample Method Usage	Output
sumOfDigits(10)	Sum is: 1
sumOfDigits(99)	Sum is: 18
sumOfDigits(25)	Sum is: 7