COS126 Function Activity - 2.1

• Group Activity: Arrays, Standard Input, Functions (Static Methods)

1. Write a program Maxi which inputs three integers \(x, y, z\) from standard input, and calls a function \(\text{max3()}\) which takes 3 integer arguments and returns the value of the largest one. Print the largest integer. (Assume the function \(\text{max3}\) is in the class Maxi.)

   ```java
   public class Maxi {
       // methods will go here

       public static void main(String[] args) {
           // Input three integers from standard input

           // Call the function \(\text{max3}(a, b, c)\) and print the result

       }
   }
   ```

2. Write the function \(\text{max3()}\) to return the largest of three integers. (Exercise 2.1.1)

   ```java
   public static _________ max3(_______________________________) {

   }
   ```
3. Write another function `max3()` to return the largest of three doubles. (Exercise 2.1.1)

```
public static __________ max3(______________________________) {

}
```

4. Write a method `reverse1()` that takes a String array as an argument, and returns a new String array which holds the reverse of the argument array. DO NOT ALTER the original array. (Web Exercise 2.1.35)

```
public static _______ reverse1(______________________________) {

}
```

5. Use the code from page 89 or Booksite Ex.1.4.4 to write a function `reverse2()` to reverse the elements in a String array. The array is an argument of the method. The method does not return anything. It reverses the original array. (Web Exercise 2.1.35)

Recommended book exercises: 2.1.3, 2.1.4, 2.1.13, 2.1.14