# **CPSC 1150 - Lab 4**

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## **Assignment Description**

This Lab includes three programs, their associated documentation is in this file.

## **Program Descriptions**

## Sort3.java

The first program takes in three integers from the user, sorts them in ascending order and prints them to the console.

#### Pseudocode:

```
Start
Print "Enter your first integer"
Read int to a
Print "Enter your second integer"
Read int to b
If
       a > b
       int largest = a
       int middle = b
else
       int largest = b
       int middle = a
Print "Enter your third integer"
Read int to c
       c > middle
If
       If
              c > largest
              int smallest = middle
              int middle = largest
```

int **largest** = **c** 

else

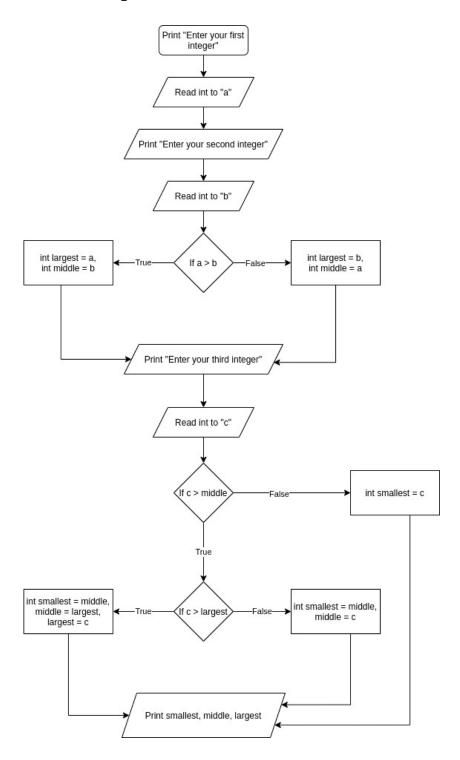
int **smallest** = **middle** 

int **middle** = **c** 

else

int **smallest** = **c** 

### Print smallest middle largest



### LogicalOps.java

The second program takes in an integer from the user, then prints whether or not it is divisible by:

- 5 and 6
- 5 or 6
- 5 or 6, but not both

#### Pseudocode:

```
Start
Print "Please enter an integer"
Read int to num
      num % 5 == 0
If
      int modBy5 = true
If
      num % 6 == 0
      int modBy6 = true
If
      modBy5 and modBy6
      int modByBoth = true
If
      modBy5 or modBy6
      int modByOne = true
Print "Is " + num + " divisible by 5 and 6? " + modByBoth
Print "Is " + num + " divisible by 5 or 6? " + modByOne
Print "Is " + num + " divisible by 5 or 6, but not both? "
If
      modByOne and !modByBoth
      Print modByOne
else
      Print false
```

### RSPGame.java

The third program is a rock paper scissors game. The user is asked to input one of three integers:

- 0 for rock
- 1 for scissors

• 2 for paper

The program then randomly selects one of the three same integers. The two are then compared to determine if the computer or user wins or if there is a draw.

#### Pseudocode: