AQ4.5: Activity Question 5 - Not graded

**This assignment will not be graded and is only for practice.**

**Note : This activity is for your practice purpose only. Your score in this will not count towards the Qualifier Process.**

***1 point***

We have two students **X**and **Y** who satisfy the following condition:  
  
 **X**.Maths + **X**.Physics == **Y**.Maths + **Y**.Physics  
  
Which of the following scenarios are possible? It is a Multiple Select Question (MSQ).

**X**.Maths > **Y**.Maths and **X**.Physics > **Y**.Physics

**X**.Maths == **Y**.Maths and **X**.Physics == **Y**.Physics

**X**.Maths > **Y**.Maths and **X**.Physics < **Y**.Physics

**X**.Maths < **Y**.Maths and **X**.Physics > **Y**.Physics

***1 point***

We wish to count the number of students in the bin “201 - 225” (endpoints included) and store the result in a variable **A**. Which of the following if conditions checks if a given card **X** falls in this range? Assume that the variable **A** has already been initialized to zero. It is a Multiple Select Question (MSQ).

if(201 ≤ **X.**Total ≤ 225){  
      **A**=1  
   }

if(201 ≤ **X.**Total ≤ 225){  
      **A** = **A** + 1  
   }

if(200 < **X**.Total < 226){  
      **A** = **A** + 1  
   }

if(**X**.Total ≥ 201){  
      if(**X**.Total ≤ 225){  
         **A**=**A**+1  
      }  
   }

Consider an arbitrary team represented by (X, Y). Consider the following procedure:  
  
 A screenshot of a computer code

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***1 point***

If **isLeftHeavy(X, Y)** returns the value False. Which of the following scenarios are possible? It is a Multiple Select Question (MSQ).

Both **X** and **Y** have scored the same total marks.

The total marks of **X** is greater than that of **Y**.

The total marks of **Y** is greater than that of **X**.

***1 point***

Is the following statement true or false?  
  
The return value of **isLeftHeavy(X, Y)** is always the opposite of the return value of **isLeftHeavy(Y, X)**. Note that **(X, Y)** is some arbitrary team.

True

False

***1 point***

What is the following procedure doing?  
  
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It is checking if **M** has scored more total marks than **N**

It is checking if **N** has scored more total marks than **M**

It is checking if **M** has scored the same total marks as **N**