

1. Program

1

### Question 1

Revisit Later

#### How to Attempt?

#### Number of Prime numbers in a specified range.

Write a function to find the count of the number of prime numbers in a specified range. The starting and ending number of the range will be provided as input parameters to the function.

**Assumption:** 2 <= starting number of the range <= ending number of the range <= 7919

**Example1:** If the starting and ending number of the range is given as 2 and 20, the method must return 8, because there are 8 prime numbers in the specified range from 2 to 20, namely (2, 3, 5, 7, 11, 13, 17, 19)

**Example2:** If the starting and ending number of the range is given as 700 and 725, the method must return 3, because there are 3 prime numbers in the specified range from 700 to 725, namely (701, 709, 719)

JAVA8

Compiler: Java - 1.8

```
1 import java.io.*;
2 import java.util.*;
3
4 // Read only region start
5 class UserMainCode
6 {
7
8     public int countPrimesInRange(int input1,int input2){
9         // Read only region end
10        // Write code here...
11        // Write code here
12        int count=0;
13        int pcount=0;
14        for(int i=input1;i<=input2;i++)
15        {
16            count=0;
17            for(int j=2;j<=Math.sqrt(i);j++)
18            {
19                if(i%j==0)
20                    count++;
21            }
22            if(count==0){
23                pcount++;
24            }
25        }
26    }
27 }
```

☐ Use Custom Input

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Compile and Test

Submit Code

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Attempt

☐ Use Custom

Code Execution

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☒ Corner 2

☒ Corner 1

☒ Necessa
