https://course.acciojob.com/idle?question=12e769f2-978b-43fd-83d4 -07bc0a834a89

Max Score: 20 Points

Optimus Prime

Given an integer n, print all prime numbers between 1 and n (both inclusive).

Example:

If n=8, your program should output all prime numbers between 1 and 8. Thus, it should output:

2

3

5

7

Input Format

The first line of the input contains one integer n.

Output Format

Your code should output all integers between 1 and n that are prime (both inclusive).

Example 1

Input:

R

Output:

2

3

5

7

Example 2

Input:

13

Output:

2

3

5

11

13

Constraints

1 <= n <= 10⁵

Topic Tags

My code

```
// in java
import java.util.*;

public class Main {
  static boolean isPrime(int n) {
```

```
if (n == 2) {
     return true;
  // every composite number has a prime factor
  // less than or equal to its square root.
  for (int i = 2; i * i <= n; i++) {
     if (n \% i == 0) {
        return false;
      }
  return true;
static void findPrimesUntilN(int n) {
  //Write code here
          for (int i = 2; i <= n; i++) {
      if (isPrime(i))
         System.out.println(i);
public static void main(String[] args) throws Throwable {
   Scanner sc = new Scanner(System.in);
   int n = sc.nextInt();
  findPrimesUntilN(n);
```

}