384

28R23C51123R23C51123R23C51122R22C51122R22C51122R22C51122R22C51122R22C51122R22C51122R22C51122R22C51122R22C51122R22C51122R22C51122R22C51122R22C51122R22C51122R22C51122R22C51122R22C51122R22C51122R22C



# STUDENT REPORT

# **DETAILS**

### Name

P MAHA LAKSHMI

30

#### **Roll Number**

3BR23CS112

**Title** 

MATHS TEST

# Description

Alice has a mathematics test for which she is underprepared. She has to do at least one question correctly to pass the test. He decides to do a question which needs her to find the smallest prime number which is larger than a given integer N. Your task is to find and return an integer value representing the smallest prime number larger than N.

#### **Input Format**:

input1: An integer value N

# **Output Format:**

Return an integer value representing the smallest prime number larger than N.

38R23C51123BR23C5112BR23C5112BR23C5112BR23C5112BR23C5112BR23C5112BR23C51BR23C5112BR23C5112BR23C5112BR23C5112BR23C5112BR23C5112BR23C51BR2

3BR23C5122BR23C51223BR23C5122BR23C512

# Sample Input

6

# **Sample Output**

7

3BR23C51123BR23

# **Source Code:**

38RT

9/26/24, 10:57 AM

```
3BR23CS112-Maths Test
  def next_prime(N):
    num = N + 1
    while True:
      is_prime = True
      for i in range(2, int(num**0.5) + 1):
        if num % i == 0:
          is_prime = False
          break
      if is_prime:
        return num
      num += 1
  N = int(input())
  result = next_prime(N)
  print(result)
5 / 5 Test Cases Passed | 100 %
```

https://practice.reinprep.com/student/get-report/63a644cc-7b54-11ef-ae9a-0e411ed3c76b