

STUDENT REPORT

# DETAILS

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002

#### Roll Number $\diamondsuit^{\mathcal{V}}$

KUB23CSE002

## **EXPERIMEN**

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.

#### Sample Input

### **Sample Output**

7

# **Source Code:**

```
def is_prime(num):
    if num <= 1:
        return False
    for i in range(2, int(num**0.5) + 1):
        if num % i == 0:
            return False
    return True
def smallest_prime_greater_than(N):
    candidate = N + 1 # Start checking from the next number
    while True:
        if is_prime(candidate):
            return candidate
        candidate += 1
# Input reading
N = int(input())
print(smallest_prime_greater_than(N))
```

KUB23CSE002-Maths Test 9/27/24, 10:56 AM

**RESULT** 

5 / 5 Test Cases Passed | 100 %

https://practice.reinprep.com/student/get-report/7c67fa8b-7bf2-11ef-ae9a-0e411ed3c76b