228

2282ACSAQ2: T22812ACSAQ2: T228

SAOZ



# STUDENT REPORT

02

ZAC

### **DETAILS**

### Name

**VINDU** 

### **Roll Number**

22BI24CS402-T

### EXPERIMENT

**Title** 

## MATHS TEST

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.

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### Sample Input

6

,oz.x

### **Sample Output**

2281245402-1 2281245402-1

7

### 22812ACSA02-T 22 2281245402-1 2281245402 Source Code:

2822 ASAR T 22822 24C5402-1-22812402-1-228124C5402-1-22812402-1-22812402-1-22812402-1-22812402-1-22812402-1-22812402-1-22812402-1-22812402-1-22812402-1-22812402 https://practice.reinprep.com/student/get-report/2a99f5c3-7b47-11ef-ae9a-0e411ed3c76b

28/24

```
22BI24CS402-T-Maths Test
    import math
    def is_prime(num):
        if num <= 1:
            return False
        if num == 2:
             return True
        if num % 2 == 0:
             return False
        for i in range(3, int(math.sqrt(num)) + 1, 2):
            if num % i == 0:
                 return False
        return True
    def next_prime(N):
        candidate = N + 1
        while True:
            if is_prime(candidate):
                 return candidate
            candidate += 1
    # Input reading
    N = int(input())
    result = next_prime(N)
    print(result)
RESULT
  5 / 5 Test Cases Passed | 100 %
```