



# STUDENT REPORT

## DETAILS

Name

SHRAVANI V D

Roll Number

3BR23EC153

## EXPERIMENT

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

6

Sample Output

7

Source Code:

```
def primenum(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 smallprime(N):
    num=N+1
    while not primenum(num):
        num+=1
    return num
N=int(input())
result=smallprime(N)
print(result)
```

## RESULT

5 / 5 Test Cases Passed | 100 %

3BH

C153

23EL

3BH  
3BR2

C153  
1533

23EL  
3EC1

3BH  
3BR2