



# STUDENT REPORT

## DETAILS

### Name

P KARTHIK SAI

### Roll Number

KUB23ECE026

## 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:

```
import math
import sys
def isPrime(n):
    for i in range(2,int(math.sqrt(n))+1):
        if n%i==0:
            return False
    return True
N = int(input())
for i in range(N+1,sys.maxsize):
    if isPrime(i):
        print(i)
        break
```

## RESULT

5 / 5 Test Cases Passed | 100 %