



STUDENT REPORT

DETAILS

Name

M ADITYA

Roll Number

TEMPBTech-ECE021

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 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(n):  
    candidate = n + 1 # Start checking from N + 1  
    while True:  
        if is_prime(candidate):  
            return candidate  
        candidate += 1 # Check the next number  
  
# Input reading  
n = int(input().strip()) # Read the integer N  
  
# Calculate and print the result  
result = smallest_prime_greater_than_n(n)  
print(result)
```

RESULT

5 / 5 Test Cases Passed | 100 %