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# STUDENT REPORT

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## DETAILS

### Name

M ADITYA

#### **Roll Number**

TEMPBTech-ECE021

#### EXPERIMENT

**Title** 

MATHS TEST

### ECEO21TE 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.

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#### **Input Format**:

input1: An integer value N

#### **Output Format:**

Return an integer value representing the smallest prime number larger than N.

#### **Sample Input**

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#### **Sample Output**

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```
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)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ECEO21 FEM PRICE

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print(result)
```

RESULT

5 / 5 Test Cases Passed | 100 %