DETAILS

Name

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Roll Number

KUB23CSE037

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:

```python
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 next_prime(N):
    candidate = N+1
    while True:
        if is_prime(candidate):
            return candidate
        candidate +=1
N= int(input())
print(next_prime(N))
```

RESULT