```
import math
    def is_prime(num):
       if num <= 1:
           return False
       if num == 2:
           return True
       if num % 2 == 0:
           return False
        for i in range(3, int(math.sqrt(num)) + 1, 2):
           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
    # Input reading
   N = int(input())
    result = next_prime(N)
    print(result)
RESULT
 5 / 5 Test Cases Passed | 100 %
```