```
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 %

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