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38273	Coll Number 38th 030 935th 030 38th 030	
Titl	PERIMENT 18 COSO SERVISCOSO SERV	30030
38 ²² 3 ^{CS}	Affice has a mathematics test for which she is underprepared. She has to do at feast one question correctly to pass the	,e ²³ co ^{0?}
30030	immut 1' An integen value N	
5	Return an integer value representing the smallest prime number larger than N.	0030 38
3822		
30	6	38273C
R23006	Sample Output 7	30
s,	iourice Code: 38 th 300 30 38	
38273	382 ¹³ CO 30 382 ¹	
	7 Source Code: 3	

```
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 I 100 %
```