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| 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. | a de C |
| Input Format: | 3BRD3EC |
| input1: An integer value N | |
| Output Format: | 23EC161 |
| Return an integer value representing the smallest prime number larger than N. | 23 ^E |
| Sample Input 6 | (|
| 6 | :161 3BR |
| Sample Output | 500 |
| Sample Output 7 | . (|
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def next_prime(N):
           num = N + 1
           while True:
            is_prime = True
            for i in range(2, int(num**0.5) + 1):
              if num % i == 0:
                is_prime = False
                break
            if is_prime:
              return num
            num += 1
         N = int(input())
         result = next_prime(N)
         print(result)
    RESULT
5 / 5 Test Cases Passed | 100 %
```