## **Next Prime Number**

Given an integer N. The task is to find the next prime number i.e. the smallest prime number greater than N.

## **Examples:**

```
Input: N = 10

Output: 11

11 is the smallest prime number greater than 10.

Input: N = 0

Output: 2
```

```
#include<bits/stdc++.h>
using namespace std;
int nextPrime(int n){
    n++;
    while(true){
        int i;
        for(i = 2; i < n; i++){
            if(n \% i == 0)
                 break;
        }
        if(i == n)
             return n;
        n++;
    }
}
int main()
{
    int n;
    cin >> n;
```

Next Prime Number

```
cout << nextPrime(n);
return 0;
}</pre>
```

## **INPUT:**

15

## **OUTPUT:**

17

Next Prime Number 2