

```
1  #include <iostream>
2  #include <math.h>
3
4  using namespace std;
5  int is_prime (int n)
6  {
7      if (n==1 && n== 0 ) return 0 ;
8      if (n==2) return 1 ;
9      for (int i = 1 ; i < sqrt (n); i ++ ) // can be i<n or i< n/2 but , for less time and number o
10     {
11         if (n%2 == 0) return 0 ;
12     }
13     return 1 ;
14 }
15
16
17
18 int main()
19 {
20     int number ;
21     cout <<"Please enter any number to be checked ( if prime you get 1 if not you get 0 ) " <<endl;
22     cin >> number ;
23     cout << is_prime (number) ;
24     return 0;
25 }
26
```