

```

1:  /*-----Highly Composite-----*/
2:
3:  /*A num is highly composite if the num of divisors
4:  of num is greater than the num of divisors of all
5:  -----nums less than the given num-----*/
6:
7:  #include<iostream>
8:  using namespace std;
9:
10: int numDivisors(int n)
11: {
12:     int count = 0;
13:     for(int i = 1; i <= n; i++)
14:     {
15:         if(n % i == 0)
16:         {
17:             count += 1;
18:         }
19:     }
20:     return count;
21: }
22:
23: int highlyCom(int n)
24: {
25:     int result = 1;
26:     for(int i = 1; i < n; i++)
27:     {
28:         if(numDivisors(i) >= numDivisors(n))
29:             result = 0;
30:     }
31:     return result;
32: }
33:
34: int main()
35: {
36:     int n;
37:     cout << "Enter your number: \n";
38:     cin >> n;
39:
40:     if(highlyCom(n) == 1)
41:         cout << n << " is a highly composite number. \n";
42:     else
43:         cout << n << " is NOT a highly composite number. \n";
44:
45:     return 0;
46: }

```