```cpp
#include <bits/stdc++.h>
using namespace std;
int main() {
//int a = 1, b = 5; // define variables double, float, char
//cin >> a >> b; // read
//cout << a + b; //print "Hello world" directly print
//problem: n th number in the sequence 1 1 2 3 5 8 13 21...
int n, left, middle, right;
left = 1;
middle = 1;
right = 2;
cin >> n;
for(int i = 3; i <= n; i++){ // for loop
  right = left + middle;
  left = middle;
  middle = right;
}
if(n == 1) cout << 1;
else if(n == 2) cout << 1;
else if(n == 3) cout << 2;
else {
  cout << right << endl;
}
//n th number in the sequence 1 1 2 3 5 8 13 21...
n = 1;
while(n >= 1){ // while loop
  n++;
  if(n > 10){
   break;
  }
  cout << n << endl;
}
}
```