```
1 //
 2 // Visualization (for n = 4): https://pythontutor.com/render.html#code
   =%23include%20%3Cstdio.h%3E%0A%0Along%20long%20Fib%28int%20n%29%3B%0A%
   OAint%20main%28%29%20%7B%0A%20%20int%20n%20%3D%204%3B%0A%0A%20%
   20printf%28%22%25lld%5Cn%22,%20Fib%28n%29%29%3B%0A%7D%0A%0Along%20long
  %20Fib%28int%20n%29%20%7B%0A%20%20if%20%28n%20%3D%3D%200%29%20%7B%0A%
   20%20%20%20return%200%3B%0A%20%20%7D%0A%0A%20%20if%20%28n%20%3D%3D%201
  %29%20%7B%0A%20%20%20%20return%201%3B%0A%20%20%7D%0A%0A%20%20return%
   20Fib%28n%20-%201%29%20%2B%20Fib%28n%20-%202%29%3B%0A%7D&cumulative=
  false&curInstr=55&heapPrimitives=nevernest&mode=display&origin=opt-
  frontend.js&py=c_gcc9.3.0&rawInputLstJSON=%5B%5D&textReferences=false
 3 // Created by hfwei on 2023/11/9.
 4 //
 5
 6 #include <stdio.h>
 8 long long Fib(int n);
10 int main() {
11
   int n;
12
    scanf("%d", &n);
13
14
    printf("%lld\n", Fib(n));
15
16
    return 0;
17 }
18
19 long long Fib(int n) {
    if (n <= 1) {
20
21
      return n;
    }
22
23
   return Fib(n - 1) + Fib(n - 2);
25 }
```