```cpp
#include <iostream>
using namespace std;

int fib(int n) {
 if (n == 0) {
  return 0;
 }

 if (n == 1) {
  return 1;
 }

 int smallOutput1 = fib(n - 1);
 int smallOutput2 = fib(n - 2);
 return smallOutput1 + smallOutput2;
}

int main() {
 cout << fib(3) << endl;
}
```