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Q1
#include <iostream>
using namespace std;
void print(int Start, int End){
 if(Start>End){
   return;
 }
 cout<<Start<<" ";
 print(Start+1, End);
int main(){
 int End;
 cout<<"enter N: "<<endl;
 cin>>End;
 int Start;
 cout<<"enter num"<<endl;
 cin>>Start;
 print(Start, End);
Q2
#include <iostream>
using namespace std;
void reverse(int N){
 if(N==0){
   return;
 cout<<N<<" ";
 reverse(N-1);
int main(){
 int N;
 cout<<"enter value of N: "<<endl;
 cin>>N;
 reverse(N);
 return 0;
}
03
#include <iostream>
using namespace std;
int sum(int n) {
 if (n == 0) {
   return 0;
 } else {
   int result = n + sum(n - 1);
   return result;
}
}
```

```
int main() {
 int n:
 cin >> n;
 cout << "Sum = " << sum(n);
 return 0;
}
Q4
#include <iostream>
#include <string>
using namespace std;
string reverseString(string s) {
 if (s.length() <= 1)
   return s;
 return s.back() + reverseString(s.substr(0, s.length() - 1));
int main() {
 string s;
 cin >> s;
 cout << reverseString(s) << endl;
 return 0;
}
05
#include <iostream>
using namespace std;
int sumArray(int arr[], int n) {
 if (n == 0)
   return 0;
 return arr[n - 1] + sumArray(arr, n - 1);
}
int main() {
 int n;
 cin >> n;
 int arr[n];
 for (int i = 0; i < n; i++)
   cin >> arr[i];
   cout << sumArray(arr, n) << endl;
 return 0;
}
Q6
#include <iostream>
using namespace std;
int climbStairs(int n) {
 if (n == 0) return 1;
 if (n < 0) return 0;
 return climbStairs(n - 1) + climbStairs(n - 2);
}
int main() {
```

```
int n;
 cin >> n;
 cout << climbStairs(n) << endl;
 return 0;
Q7
#include <iostream>
using namespace std;
int factorial(int n) {
 if (n <= 1)
   return 1;
return n * factorial(n - 1);
int main() {
 int n;
 cin >> n;
 cout << factorial(n) << endl;</pre>
 return 0;
Q8
#include <iostream>
using namespace std;
int fibonacci(int n) {
 if (n == 1 || n == 2)
   return 1;
return fibonacci(n - 1) + fibonacci(n - 2);
}
int main() {
 int n;
 cin >> n;
 cout << fibonacci(n) << endl;
 return 0;
}
```