

Run Debug Stop Share Save {} Beautify

Language C++

main.cpp

```
1 #include <iostream>
2 using namespace std;
3
4
5 void printBeats(int current, int n) {
6     if (current > n) return;
7     cout << current << " ";
8     printBeats(current + 1, n);
9 }
10
11 int main() {
12     int n;
13     cin >> n;
14
15     printBeats(1, n);
16
17     return 0;
18 }
19
```

input

2 3 4 5 6 7

..Program finished with exit code 0  
Press ENTER to exit console.

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main.cpp

```
1 #include <iostream>
2 using namespace std;
3
4
5 int sumTreasury(int n) {
6     if (n == 1) return 1;
7     return n + sumTreasury(n-1);
8 }
9
10 int main() {
11     int n;
12     cin >> n;
13
14     cout << sumTreasury(n) << endl;
15
16     return 0;
17 }
18
```

5  
15

input

...Program finished with exit code 0  
Press ENTER to exit console.

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main.cpp

```
1 #include <iostream>
2 using namespace std;
3
4
5 void reverseMirror(string &s, int start, int end) {
6     if (start >= end) return;
7
8     swap(s[start], s[end]);
9     reverseMirror(s, start + 1, end - 1);
10 }
11
12 int main() {
13     string s;
14     cin >> s;
15
16     reverseMirror(s, 0, s.size() - 1);
17
18     cout << s << endl;
19
20     return 0;
21 }
22
```

input

GALGOTIAS  
SAITOGLAG

...Program finished with exit code 0  
Press ENTER to exit console.

Run Debug Stop Share Save {} Beautify Language C++

main.cpp

```
1 #include <iostream>
2 using namespace std;
3
4
5 int sumBoxes(int arr[], int n) {
6     if (n == 0) return 0;
7     return arr[n-1] + sumBoxes(arr, n-1);
8 }
9
10 int main() {
11     int n;
12     cin >> n;
13
14     int arr[n];
15     for (int i = 0; i < n; i++) {
16         cin >> arr[i];
17     }
18
19     cout << sumBoxes(arr, n) << endl;
20
21     return 0;
22 }
23
```

input

5  
2 4 6 8 10  
30

...Program finished with exit code 0  
Press ENTER to exit console.

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main.cpp

```
1 #include <iostream>
2 using namespace std;
3
4
5 int climbWays(int n) {
6     if (n == 0 || n == 1) return 1;
7     return climbWays(n-1) + climbWays(n-2);
8 }
9
10 int main() {
11     int n;
12     cin >> n;
13
14     cout << climbWays(n) << endl;
15
16     return 0;
17 }
18
```

input

4  
5

...Program finished with exit code 0  
Press ENTER to exit console.

Run Debug Stop Share Save {} Beautify Language C++

main.cpp

```
1 #include <iostream>
2 using namespace std;
3
4
5 int factorial(int n) {
6     if (n == 0 || n == 1) return 1;
7     return n * factorial(n - 1);
8 }
9
10 int main() {
11     int n;
12     cin >> n;
13
14     cout << factorial(n) << endl;
15
16     return 0;
17 }
18
```

input

4  
24

...Program finished with exit code 0  
Press ENTER to exit console.

Language C++

main.cpp

```
1 #include <iostream>
2 using namespace std;
3
4
5 int rabbitFamily(int n) {
6     if (n == 1 || n == 2) return 1;
7     return rabbitFamily(n-1) + rabbitFamily(n-2);
8 }
9
10 int main() {
11     int n;
12     cin >> n;
13
14     cout << rabbitFamily(n) << endl;
15
16     return 0;
17 }
18
```

input

```
6
8
...Program finished with exit code 0
Press ENTER to exit console.
```

Run Debug Stop Share Save { } Beautify

main.cpp

```
1 #include <iostream>
2 using namespace std;
3
4
5 void printEcho(int n) {
6     if (n == 0) return;
7     cout << n << " ";
8     printEcho(n - 1);
9 }
10
11 int main() {
12     int n;
13     cin >> n;
14
15     printEcho(n);
16
17     return 0;
18 }
19
```

input

3  
3 7 6 5 4 3 2 1

...Program finished with exit code 0  
Press ENTER to exit console.