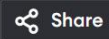


main.cpp



Run

Output

Clear

```
1 #include <iostream>
2 using namespace std;
3
4
5 int gcd(int a, int b) {
6     if (b == 0)
7         return a;
8     return gcd(b, a % b);
9 }
10
11
12 int lcm(int a, int b) {
13     return (a * b) / gcd(a, b);
14 }
15
16 int main() {
17     int num1, num2;
18     cin >> num1 >> num2;
19
20     int resultGCD = gcd(num1, num2);
21     int resultLCM = lcm(num1, num2);
22
23     cout << "GCD: " << resultGCD << endl;
24     cout << "LCM: " << resultLCM << endl;
25
26     return 0;
27 }
28
```

/tmp/uftwVs47av.o

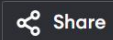
24 18

GCD: 6

LCM: 72

=== Code Execution Successful ===

main.cpp



Run

Output

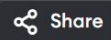
Clear

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int input;
6      cin >> input;
7
8      if (input > 0) {
9          cout << "Positive";
10     }
11
12     else if (input < 0) {
13         cout << "Negative";
14     }
15
16     else{
17         cout << "Zero";
18     }
19
20     return 0;
21 }
```

```
/tmp/9osqfXMG02.o
-10
Negative

=== Code Execution Successful ===
```

main.cpp



Run

Output

Clear

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     int n;
6
7     cin >> n;
8
9
10    int first = 0, second = 1, next;
11
12    if (n == 1) {
13        cout << first << endl;
14    }
15    else {
16        cout << first << " " << second << " ";
17
18        for (int i = 3; i <= n; i++) {
19            next = first + second;
20            cout << next << " ";
21            first = second;
22            second = next;
23        }
24        cout << endl;
25    }
26
27    return 0;
28 }
29
```

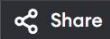
/tmp/qjj18e95R1.o

6

0 1 1 2 3 5

=== Code Execution Successful ===

main.cpp



Run

Output

Clear

```
5- string compressString(string s) {
6     string compressed = "";
7     int count = 1;
8
9
10-    for (int i = 1; i <= s.length(); i++) {
11
12-        if (i < s.length() && s[i] == s[i - 1]) {
13            count++;
14        }
15-        else {
16
17            compressed += s[i - 1];
18-            if (count > 1) {
19                compressed += to_string(count);
20            }
21            count = 1;
22        }
23    }
24
25    return compressed.length() < s.length() ? compressed : s;
26 }
27
28- int main() {
29     string s;
30     cin >> s;
31
32     string result = compressString(s);
33     cout << result << endl;
34
35     return 0;
36 }
```

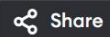
^ /tmp/Sd7SsLYz4V.o

aaabbbccc

a3b3c3

=== Code Execution Successful ===

main.cpp



Run

Output

Clear

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      string input;
6      int vowelCount = 0, consonantCount = 0;
7
8
9
10     cin >> input;
11
12
13     for (char c : input) {
14
15         if (c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u' ||
16             c == 'A' || c == 'E' || c == 'I' || c == 'O' || c == 'U') {
17             vowelCount++;
18         }
19
20         else if ((c >= 'a' && c <= 'z') || (c >= 'A' && c <= 'Z')) {
21             consonantCount++;
22         }
23     }
24
25
26     cout << vowelCount << " " << consonantCount;
27
28
29     return 0;
30 }
```

/tmp/VAIEb3dYUm.o

programming

3 8

=== Code Execution Successful ===