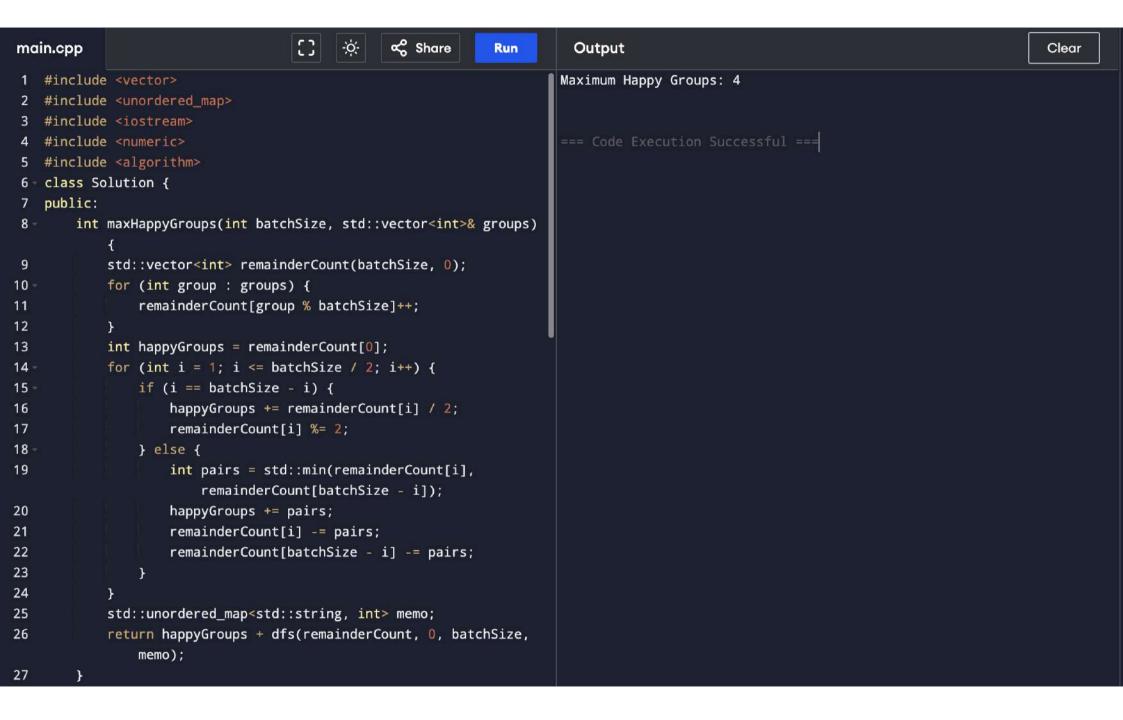
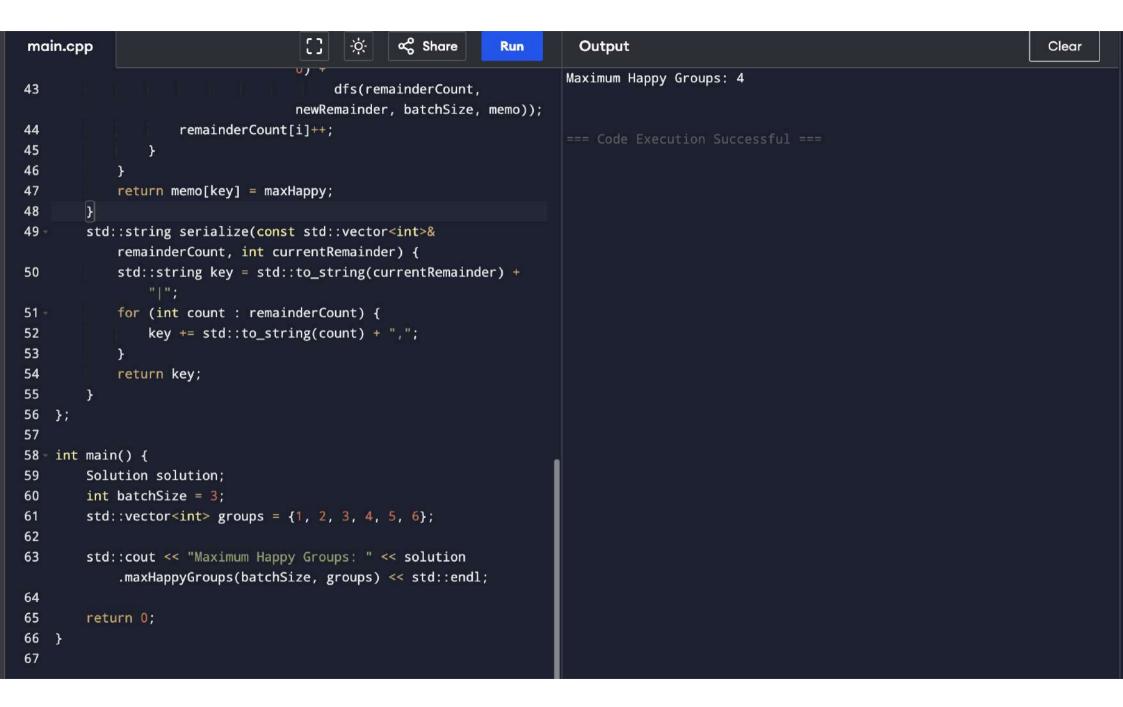
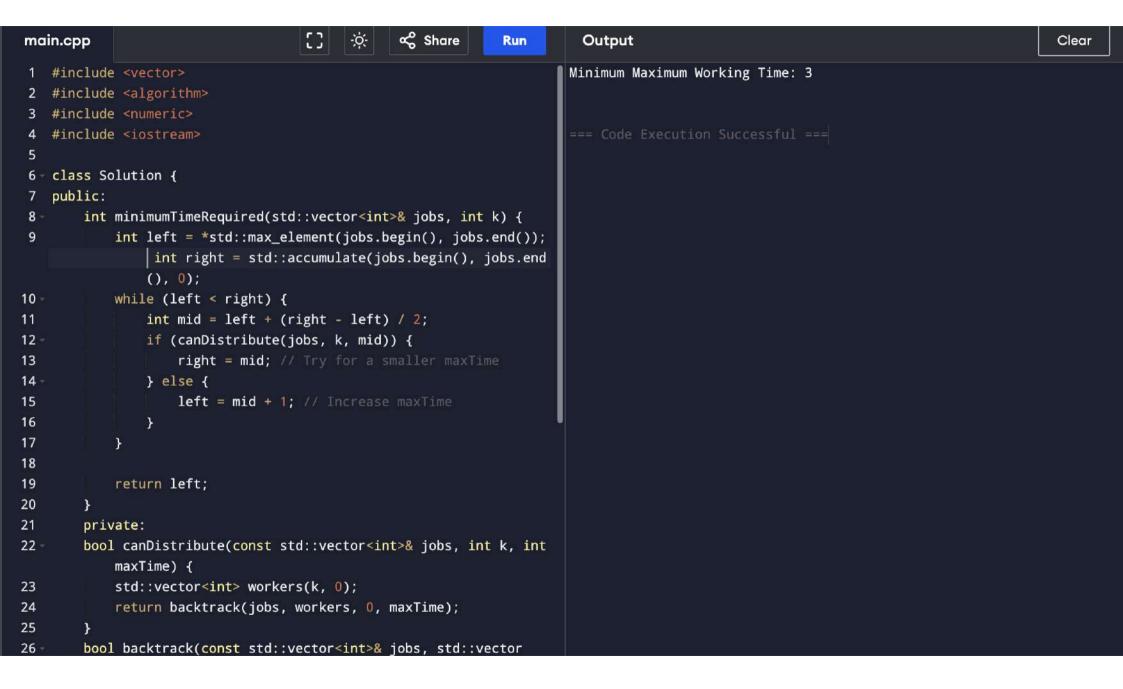
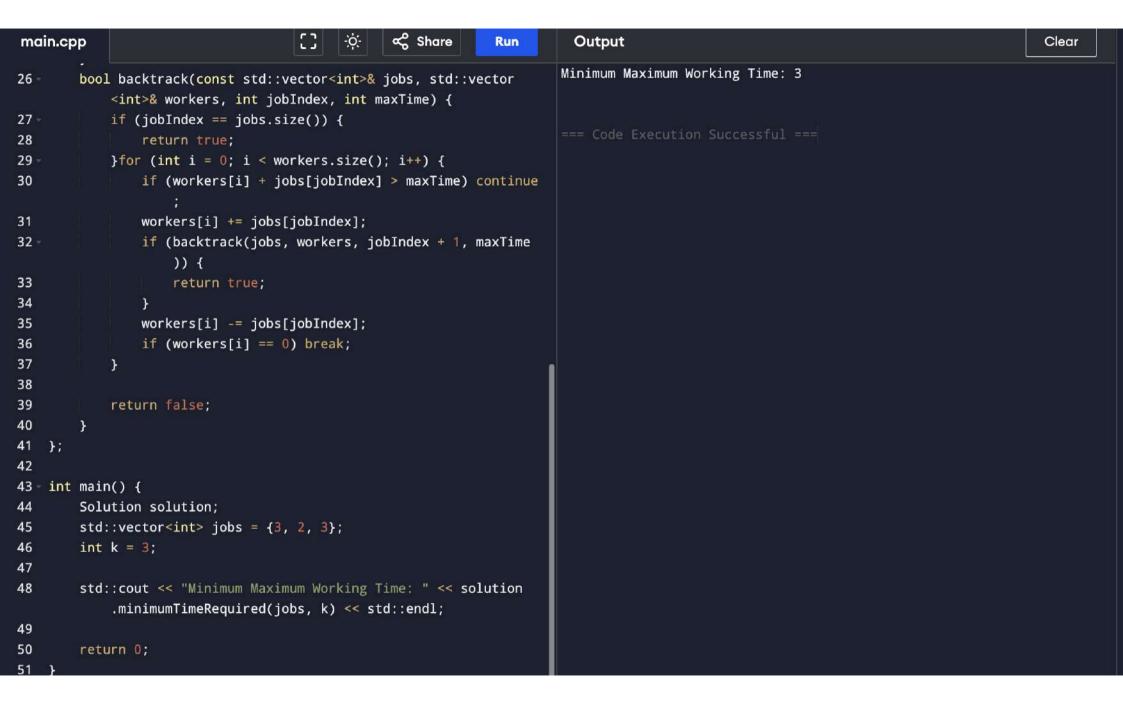


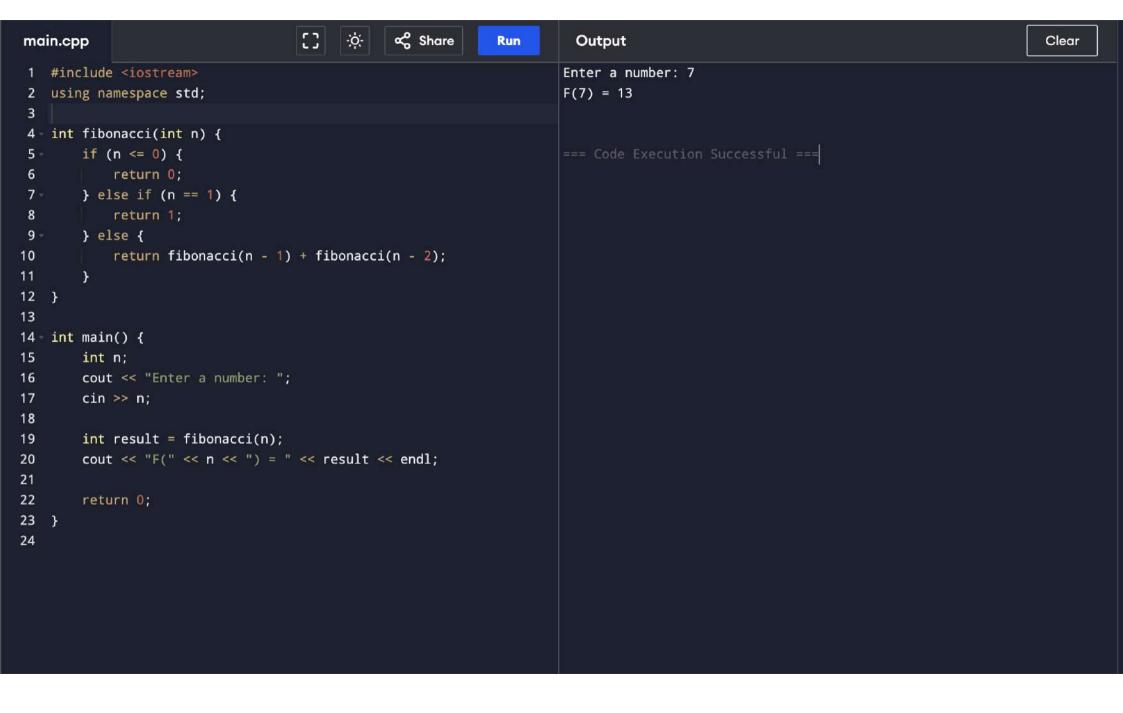
```
Share
                                                                        Output
main.cpp
                                                                                                                                      Clear
                                                              Run
                                                                       Maximum Area: 49
 1 #include <vector>
    #include <iostream>
   #include <algorithm>
    int maxArea(std::vector<int>& height) {
        int left = 0;
 6
 7
        int right = height.size() - 1;
        int maxArea = 0;
 8
 9
        while (left < right) {</pre>
10
            int width = right - left;
11
            int currentHeight = std::min(height[left], height[right]
                );
            int currentArea = width * currentHeight;
12
13
            maxArea = std::max(maxArea, currentArea);
14
            if (height[left] < height[right]) {</pre>
15
                left++;
16
            } else {
17
                right--;
18
19
20
     return maxArea;
21 }
22 int main() {
        std::vector<int> height = {1, 8, 6, 2, 5, 4, 8, 3, 7};
23
24
        std::cout << "Maximum Area: " << maxArea(height) << std</pre>
            ::endl:
25
        return 0;
26 }
27
```

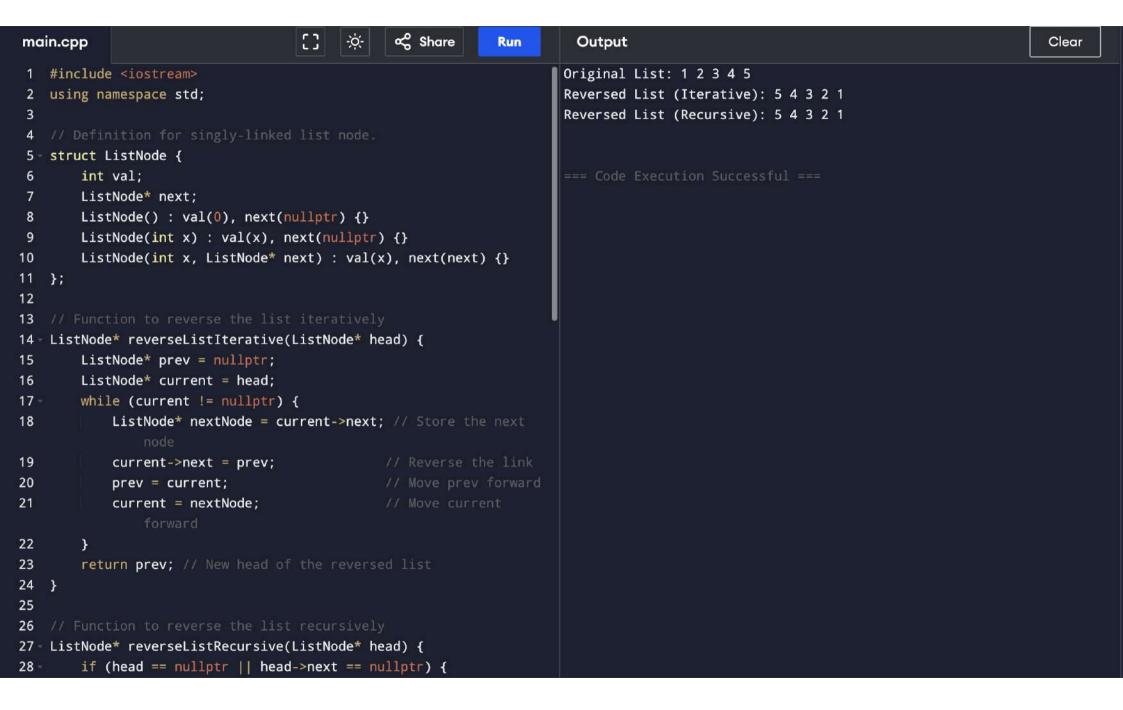




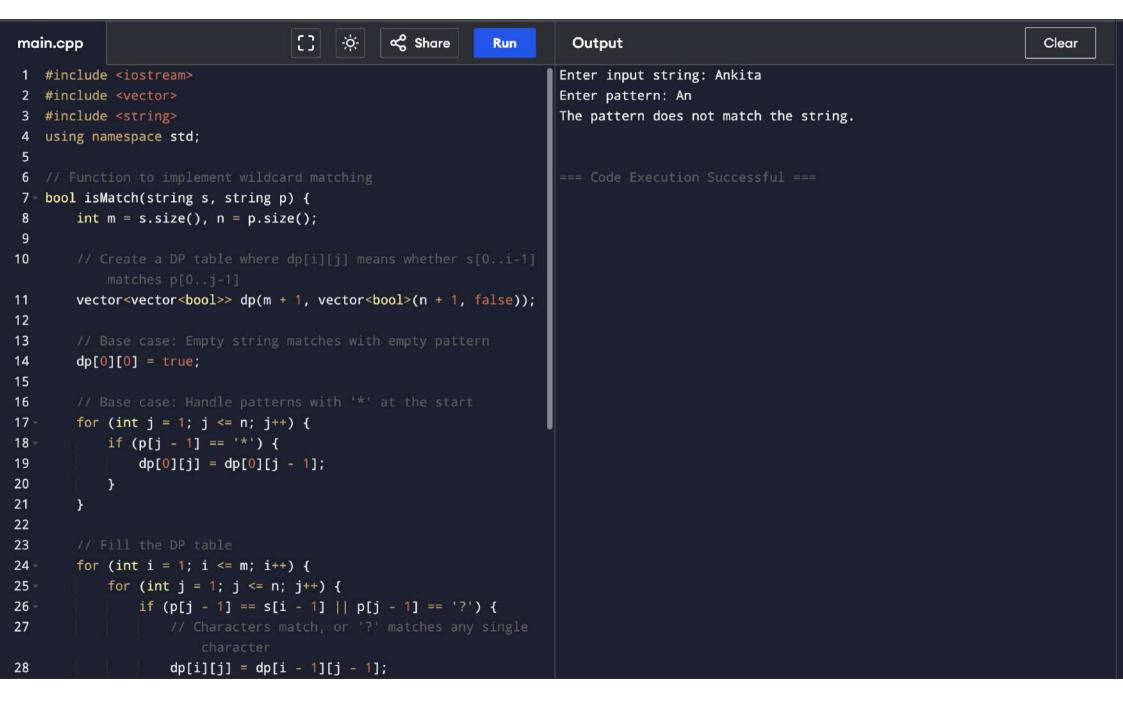


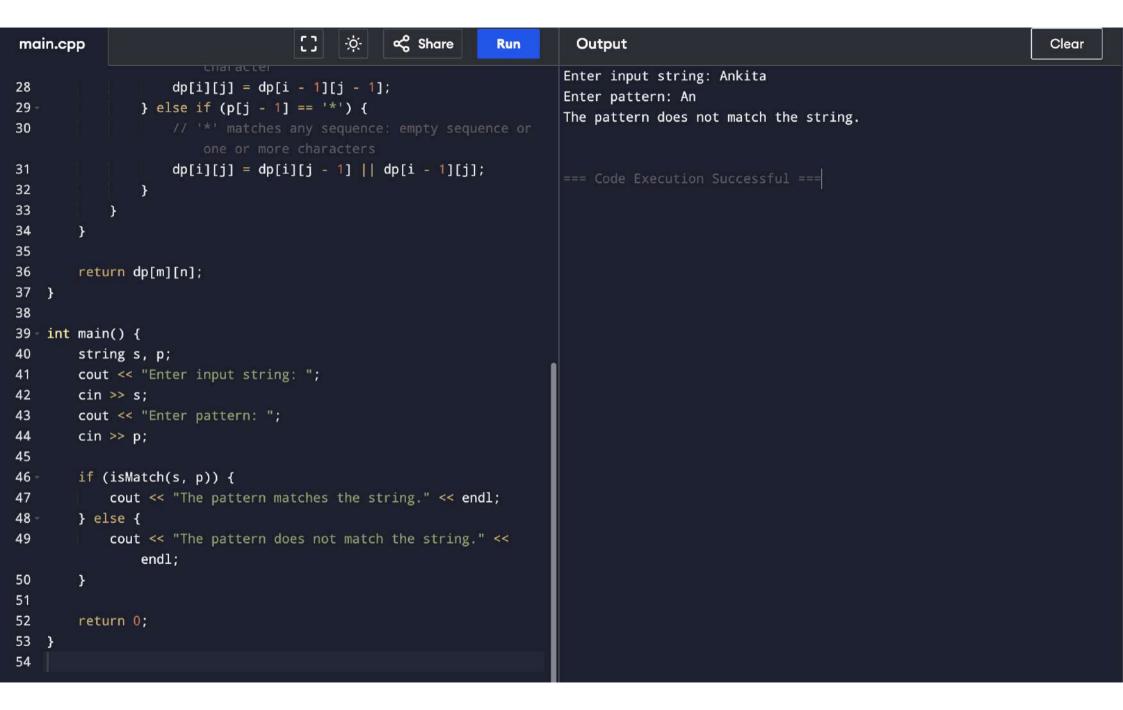


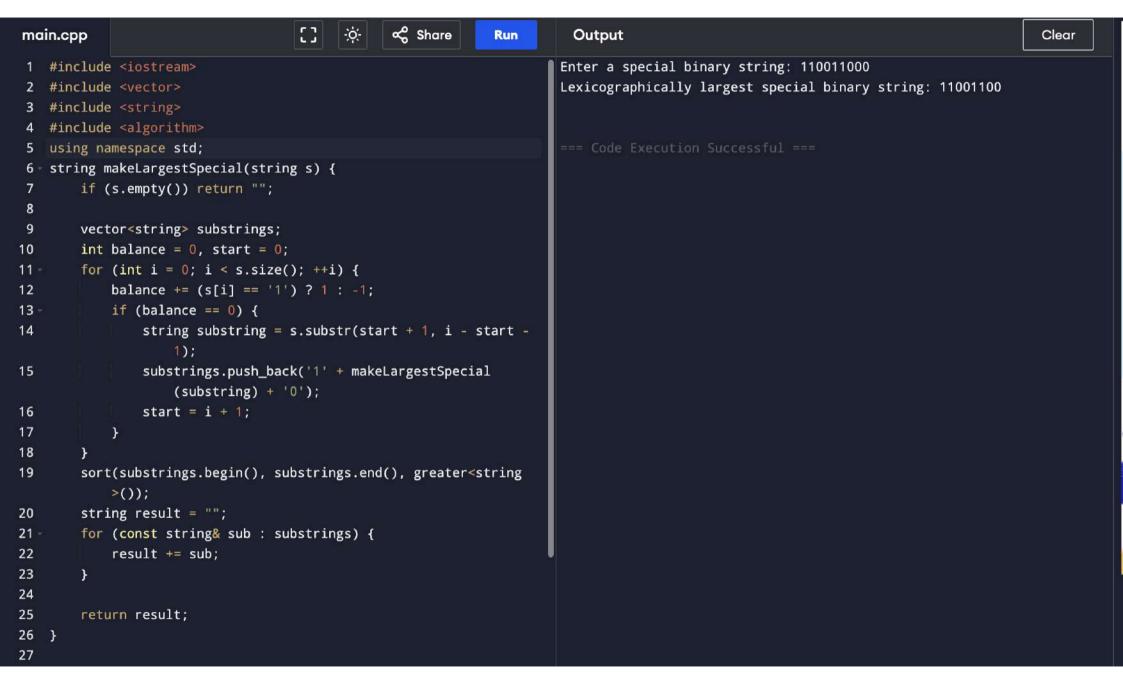


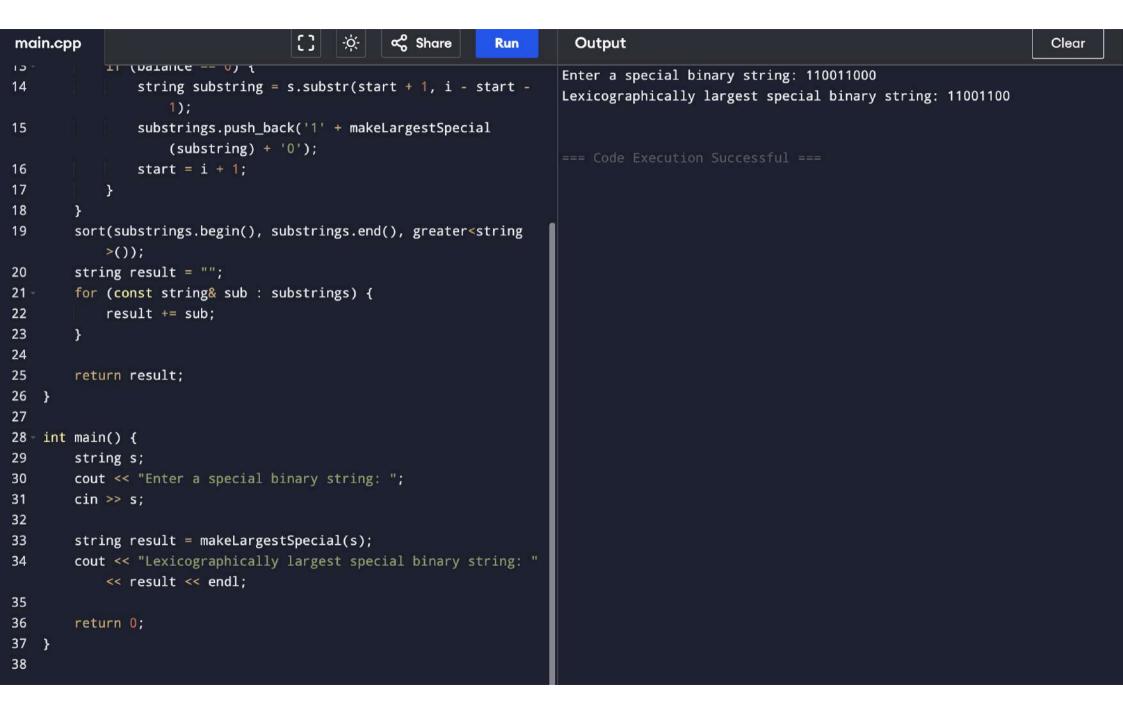


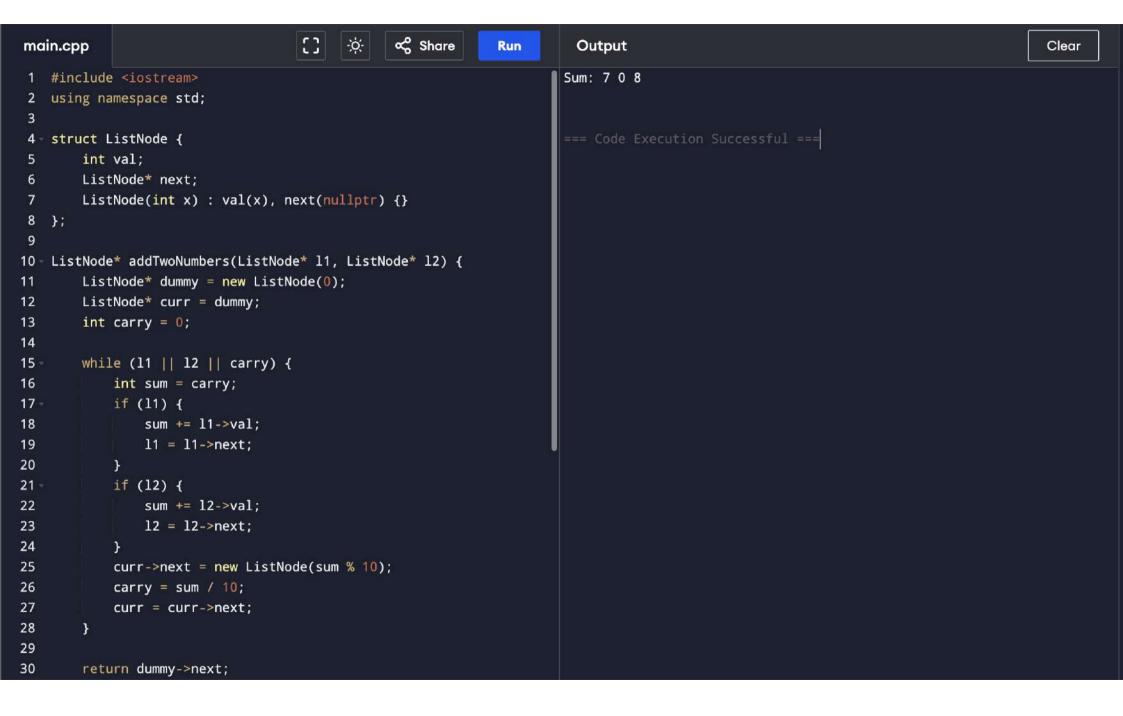
```
-;0;-
                                                 ∝ Share
main.cpp
                                                                          Output
                                                               Run
                                                                                                                                         Clear
                                                                        Original List: 1 2 3 4 5
42 int main() {
                                                                        Reversed List (Iterative): 5 4 3 2 1
43
                                                                        Reversed List (Recursive): 5 4 3 2 1
       ListNode* head = new ListNode(1);
44
       head->next = new ListNode(2);
45
46
       head->next->next = new ListNode(3);
       head->next->next->next = new ListNode(4);
47
48
       head->next->next->next->next = new ListNode(5);
49
50
       cout << "Original List: ";</pre>
       printList(head);
51
52
53
       ListNode* reversedIterative = reverseListIterative(head);
54
        cout << "Reversed List (Iterative): ";</pre>
55
56
       printList(reversedIterative);
57
58
       head = new ListNode(1);
59
60
       head->next = new ListNode(2);
61
       head->next->next = new ListNode(3);
62
       head->next->next->next = new ListNode(4);
63
       head->next->next->next->next = new ListNode(5);
64
65
66
       ListNode* reversedRecursive = reverseListRecursive(head);
        cout << "Reversed List (Recursive): ";</pre>
67
       printList(reversedRecursive);
68
69
70
       return 0;
71 }
```











```
Share
main.cpp
                                                                        Output
                                                              Run
            carry - Sum / 10,
20
                                                                       Sum: 7 0 8
27
            curr = curr->next;
28
        }
29
30
        return dummy->next;
31 }
32
33 void printList(ListNode* head) {
34
        while (head) {
            cout << head->val << " ";</pre>
35
36
            head = head->next;
37
        cout << endl;</pre>
38
39 }
40
41 int main() {
        ListNode* 11 = new ListNode(2);
42
43
        11->next = new ListNode(4);
44
        11->next->next = new ListNode(3);
45
46
        ListNode* 12 = new ListNode(5);
47
        12->next = new ListNode(6);
48
        12->next->next = new ListNode(4);
49
50
        ListNode* result = addTwoNumbers(11, 12);
        cout << "Sum: ";
51
52
        printList(result);
53
54
        return 0;
55 }
```

Clear