```
1 #include <stdio.h>
                                                                                                                          ^ /tmp/IUDINQU8xX.o
 3 #define MAX 1000
                                                                                                                            3
                                                                                                                            0 1 2 4 6
  5 - int main() {
                                                                                                                            1 2
         int nums[MAX], target, n, i, j;
          // Read the number of elements and the target
                                                                                                                            === Code Execution Successful ===
        scanf("%d", &n);
scanf("%d", &target);
 10
 11
           // Read the array elements
 12
          for(i = 0; i < n; i++) {
    scanf("%d", &nums[i]);
}</pre>
 13 -
 14
 15
 16
 17
           // Find the two indices
           for(1 = 0; 1 < n; 1++) {
    for(j = 1 + 1; j < n; j++) {
        if(nums[i] + nums[j] == target) {
            printf("%d\%d\n", 1, j);
            return 0:
 18 =
 19 +
 20 -
 21
           }
 22
                          return 0;
 23
 24
 25
 26
 27
           return 0;
 28 }
```

```
#include <stdlo.h>
#include <stdlo.h

#include <istdlo.h

#include
```

```
30 ₹ if (12) {
 31
                sum += 12->val;
                12 = 12 - \text{next};
 32
 33
 34
            carry = sum / 10;
 35
            current->next = createNode(sum % 10);
 36
            current = current->next;
 37
 38
 39
        return dummyHead->next;
 40 }
 41 - void printList(ListNode* head) {
 42 *
         while (head) {
          printf("%d ", head->val);
 43
 44
            head = head->next;
 45
        }
        printf("\n");
 46
 47 }
 48 - int main() {
         ListNode* 11 = createNode(2);
 49
 50
         11->next = createNode(4);
 51
        11->next->next = createNode(3);
        ListNode* 12 = createNode(5);
 52
 53
       12->next = createNode(6);
 54
       12->next->next = createNode(4);
        ListNode* result = addTwoNumbers(11, 12);
 55
     printList(result);
 56
        return 0;
 57
58 }
```

```
1 #include <stdio.h>
2 #include <string.h>
                                                                                                                           /tmp/WTdOrPI2SV.o
  3 #define MAX_CHARS 128
  5 int lengthOfLongestSubstring(char* s) {
6    int lastIndex[MAX_CHARS] = {-1};  // Store the last index of each character
7    int maxLength = 0, start = 0;
                                                                                                                           === Code Execution Successful ===
 9 for (int i = 0; s[i]; i++) {
10     char c = s[i];
11
                if (lastIndex[c] >= start) {
                   start = lastIndex[c] + 1;
        }
lastIndex[c] = 1;
if (1 - start + 1 > maxLength) {
  maxLength = 1 - start + 1;
 13
 14
 15 +
 17
 18
 19
 20
          return maxLength;
 21 }
 22
 23 - int main() {
           char s[] = "abcabcbb"; // Example input
 25
           printf("%d\n", lengthOfLongestSubstring(s)); \ // \ Output: \ 3
 26
           return 0;
 27 }
```

```
1 - def findMedianSortedArrays(nums1, nums2):
           if len(nums1) > len(nums2):
    nums1, nums2 = nums2, nums1
m, n = len(nums1), len(nums2)
                                                                                                                        2.5
                                                                                                                         === Code Execution Successful ===
            imin, imax, half_len = 0, m, (m + n + 1) // 2
           while imin <= imax:
              i = (imin + imax) // 2
j = half_len - 1
if i < m and nums1[i] < nums2[j - 1]:</pre>
  11
12 =
                 imin = i + 1
elif i > 0 and nums1[i - 1] > nums2[j]:
                imax = i - 1
else:
               15
16
   18
   20
  23 * 1f __name__ == "__main__":
         print(findMedianSortedArrays([1, 3], [2])) # Output: 2.0
print(findMedianSortedArrays([1, 2], [3, 4])) # Output: 2.5
```

```
1 - def reverse(x):
                                                                                                            321
  2 INT_MIN, INT_MAX = -2**31, 2**31 - 1
                                                                                                            -321
          sign = -1 if x < 0 else 1
x = abs(x)
                                                                                                            21
  4
                                                                                                            === Code Execution Successful ===
  5
         reversed num = 0
         while x != 0:
         wille x := 0.
    digit = x % 10
    x //= 10
    if reversed_num > (INT_MAX - digit) // 10:
        return 0
  9
 10 -
 11
 12
          reversed_num = reversed_num * 10 + digit
 13
 15
         return sign * reversed_num
 16
 17 # Example usage
 18 print(reverse(123))
 19 print(reverse(-123))
20 print(reverse(120))
 21
 22
```

```
1 - def myAtoi(s):
          INT_MIN, INT_MAX = -2**31, 2**31 - 1
                                                                                                                    -42
 3
        i, n = 0, len(s)
while i < n and s[i] == ' ':
                                                                                                                    4193
  4 +
                                                                                                                    0
            1 += 1
                                                                                                                    -2147483648
         if i < n and s[i] in '+-':</pre>
         sign = -1 if s[i] == '-' else 1
i += 1
                                                                                                                    === Code Execution Successful ===
 9 + else:
 10
             sign = 1
 11
         result = 0
 12* while i < n and s[i].isdigit():
          digit = int(s[i])
if result > (INT_MAX - digit) // 10:
 13
 14 -
               return INT_MAX if sign == 1 else INT_MIN
result = result * 10 + digit
 15
 16
 17
              1 += 1
         result *= sign
        return max(INT_MIN, min(result, INT_MAX))
20 print(myAtoi("42"))
21 print(myAtoi(" -42"))
22 print(myAtoi("4193 with words"))
23 print(myAtoi("words and 987"))
24 print(myAtoi("-91283472332"))
 26
```

9.

```
1 - def isMatch(s, p):
                                                                                           False
 2     dp = [[False] * (len(p) + 1) for _ in range(len(s) + 1)]
3     dp[0][0] = True
                                                                                          True
True
      4 -
                                                                                          True
                                                                                          False
                                                                                          === Code Execution Successful ===
 9 +
 10
12
 13
       return dp[len(s)][len(p)]
 14
 16 # Example usage
 17 print(isMatch("aa", "a"))
 print(isMatch("aa", "a*"))
print(isMatch("ab", ".*"))
print(isMatch("ab", "c*a*b"))
21 print(isMatch("mississippi", "mis*is*p*."))
22
```