TEST -1 (SUMMER TRAINING)

Solve any four	
1)Write a program to display the array element.	
2)write a progam to find the max element from the list	
3)Count of 3 Multiples	
Write a program to find the count of 3 multiples in a given input integer array.	
Include a function named divisibleBy3 that accepts 2 arguments and returns an int.	
The first argument is the input array and the second argument is an int that corresponds to the of	e size
the array. The function returns an int that corresponds to the count of 3 multiples.	
If the size of the array is negative or if any element in the array is negative, print "Invalid Input"	"
and terminate the program.	
Input and Output Format:	
Input consists of n+1 integers. The first integer corresponds to n, the number of elements in the array. The next 'n' integers correspond to the elements in the array.	ne
Output consists of an integer that corresponds to the count of 3 multiples	
Assume that the maximum number of elements in the array is 20.	
Sample Input 1:	
8	
1	
6	
3	
5	
61	

80

102
9
Sample Output 1:
4
Sample Input 2:
-5
Sample Output 2:
Invalid Input
Sample Input 3:
5
23
2
-200
Sample Output 3:
Invalid Input
4)https://leetcode.com/problems/two-sum/description/
5\https://leetcode.com/problems/valid-parentheses/

Q1. Code&Output

```
[] ← Share
                                                                          Run
                                                                                    Output
main.cpp
                                                                                   /tmp/v1CLloWcSS.o
 1 #include <iostream>
                                                                                   Array elements: 44 5 67 12 89 45
2 using namespace std;
4 // Function to print the array elements
5 - void printArray(int arr[], int size) {
                                                                                   === Code Execution Successful ===
     for (int i = 0; i < size; i++) {
6 *
7
       cout << arr[i] << " ";
8
9
       cout << endl;</pre>
10 }
11
12 • int main() {
13
       int arr[] = {44, 5, 67, 12, 89, 45};
14
       int n = sizeof(arr) / sizeof(arr[0]);
15
16
       cout << "Array elements: ";</pre>
17
       printArray(arr, n);
18
19
       return 0;
20 }
21
```

Q2. Code&Output

```
[] G & Share
                                                                          Run
                                                                                     Output
main.cpp
 1 #include <iostream>
                                                                                    /tmp/FE6D0pzHPc.o
 2 using namespace std;
                                                                                    The maximum element in the array is: 89
 3
 4 int findMax(int arr[], int size) {
 5
                                                                                    === Code Execution Successful ===
       int maxElement = arr[0];
       for (int i = 1; i < size; i++) {
 6 *
 7 -
           if (arr[i] > maxElement) {
 8
               maxElement = arr[i];
10
11
       return maxElement;
12 }
13
14 - int main() {
15
       int arr[] = {44, 5, 67, 12, 89, 45};
16
       int n = sizeof(arr) / sizeof(arr[0]);
17
18
       int maxElement = findMax(arr, n);
19
20
       cout << "The maximum element in the array is: " << maxElement << endl;
21
22
       return 0;
23 }
```

Q5. Code&Output

```
Code
                                                                     E □ {} □ ₽
C++ ∨ Auto
        bool isValid(string s) {
           stack<char> st;
                  st.push(c);
              } else {
                 if (st.empty()) return false;
                 if (c == ')' && st.top() == '(') st.pop();
Accepted Runtime: 0 ms
 • Case 1 • Case 2 • Case 3
Input
  "()"
Output
  true
```