
 <b>Marwadi</b> University	<b>Marwadi University</b> <b>Faculty of Technology</b> <b>Department of Information and Communication Technology</b>	
<b>Sem : 3</b>	<b>Name : VEDANT BHARAD</b>	
<b>Day : 64</b>	<b>Date : 20/12/2022</b>	<b>Enrollment No: 92100133023</b>

## CP Club 365Days Challenge

Programming language – C++


### Problem Statement

[https://practice.geeksforgeeks.org/problems/bubble-sort/1?page=2&category\[\]=Sorting&sortBy=submissions](https://practice.geeksforgeeks.org/problems/bubble-sort/1?page=2&category[]=Sorting&sortBy=submissions)

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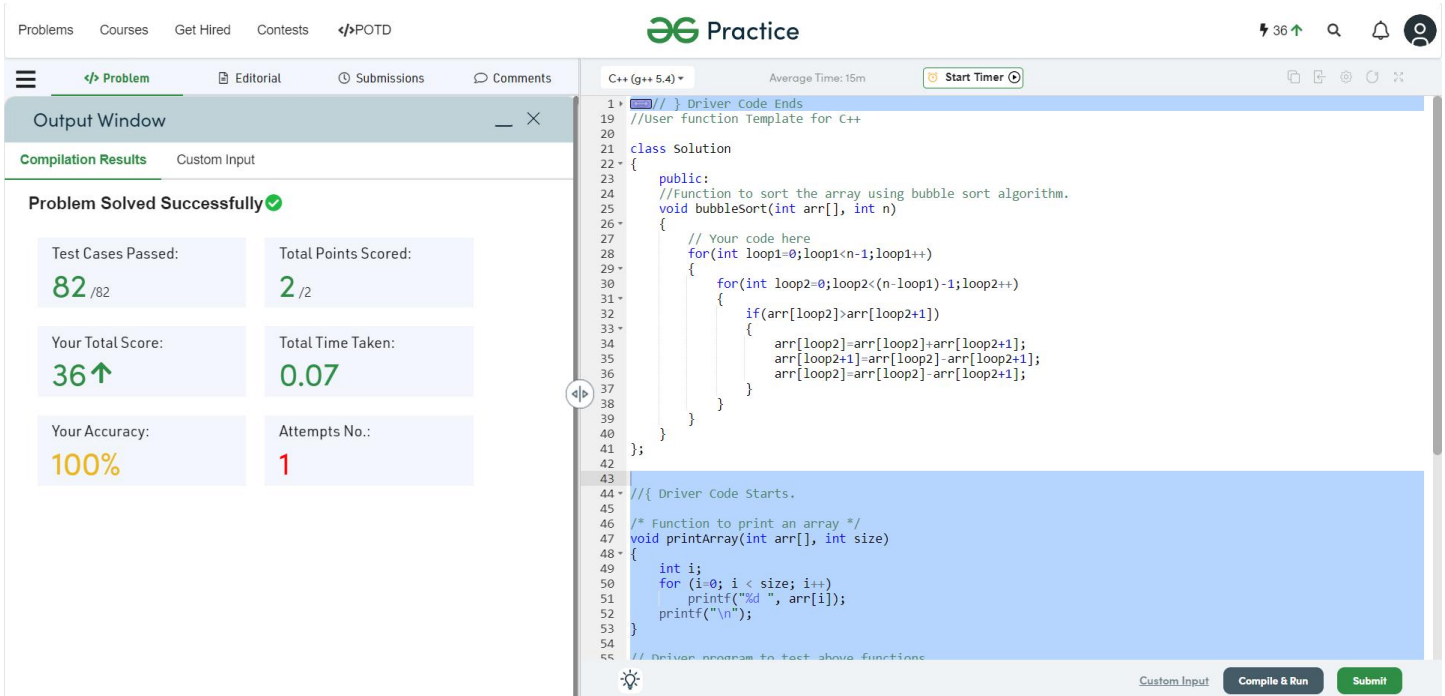
## Your Code:

```
// 0x64Day of 0x365Days challenge
// VEDANT BHARAD
// 20-12-2022
//{ Driver Code Starts
//Initial Template for C++
// C program for implementation of Bubble sort
#include <stdio.h>
#include <bits/stdc++.h>
using namespace std;
// swapping the elements
void swap(int *xp, int *yp)
{
    int temp = *xp;
    *xp = *yp;
    *yp = temp;
}
// } Driver Code Ends
//User function Template for C++
class Solution
{
public:
    //Function to sort the array using bubble sort algorithm.
    void bubbleSort(int arr[], int n)
    {
        // Your code here
        for(int loop1=0;loop1<n-1;loop1++)
        {
            for(int loop2=0;loop2<(n-loop1)-1;loop2++)
            {
                if(arr[loop2]>arr[loop2+1])
                {
                    arr[loop2]=arr[loop2]+arr[loop2+1];
                    arr[loop2+1]=arr[loop2]-arr[loop2+1];
                    arr[loop2]=arr[loop2]-arr[loop2+1];
                }
            }
        }
    }
};
//{ Driver Code Starts.
/* Function to print an array */
void printArray(int arr[], int size)
{
    int i;
    for (i=0; i < size; i++)
        printf("%d ", arr[i]);
    printf("\n");
}
// Driver program to test above functions
int main()
{
    int arr[1000],n,T,i;
```

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```
scanf("%d",&T);
while(T--){
    scanf("%d",&n);
    for(i=0;i<n;i++){
        scanf("%d",&arr[i]);
    }
    Solution ob;
    ob.bubbleSort(arr, n);
    printArray(arr, n);
}
return 0;;
// } Driver Code Ends
```

## Output (Screen Shot):



The screenshot shows the 'Practice' platform interface. On the left, the 'Output Window' displays 'Compilation Results' and 'Problem Solved Successfully' with a green checkmark. It shows 'Test Cases Passed: 82 / 82', 'Total Points Scored: 2 / 2', 'Your Total Score: 36 ↑', 'Total Time Taken: 0.07', 'Your Accuracy: 100%', and 'Attempts No.: 1'. The main editor shows C++ code for a bubble sort algorithm. The code includes a 'Solution' class with a 'bubbleSort' method and a 'printArray' function. The driver code starts at line 44 and ends at line 54. The code is compiled and run successfully, as indicated by the 'Compile & Run' button being active.

## Understanding about problem:

In this task I need to Sort the given array using Bubble Sort method.

**Note: If you can't understand the problem, feel free to contact us and we'll help you. Please don't copy and paste from anywhere.**

**ALL THE BEST**  
Team CP Club