

Insertion Sort Code In C++

```
#include <iostream>
using namespace std;

// Function to perform Insertion Sort
void insertionSort(int arr[], int n) {
    for (int i = 1; i < n; i++) {
        int key = arr[i]; // Element to be inserted
        int j = i - 1;

        // Shift elements that are greater than key to one position ahead
        while (j >= 0 && arr[j] > key) {
            arr[j + 1] = arr[j];
            j--;
        }

        // Place key in its correct position
        arr[j + 1] = key;
    }
}

// Function to print the array
void printArray(int arr[], int n) {
    for (int i = 0; i < n; i++) {
        cout << arr[i] << " ";
    }
    cout << endl;
}

int main() {
    int arr[] = {12, 11, 13, 5, 6};
    int n = sizeof(arr) / sizeof(arr[0]);

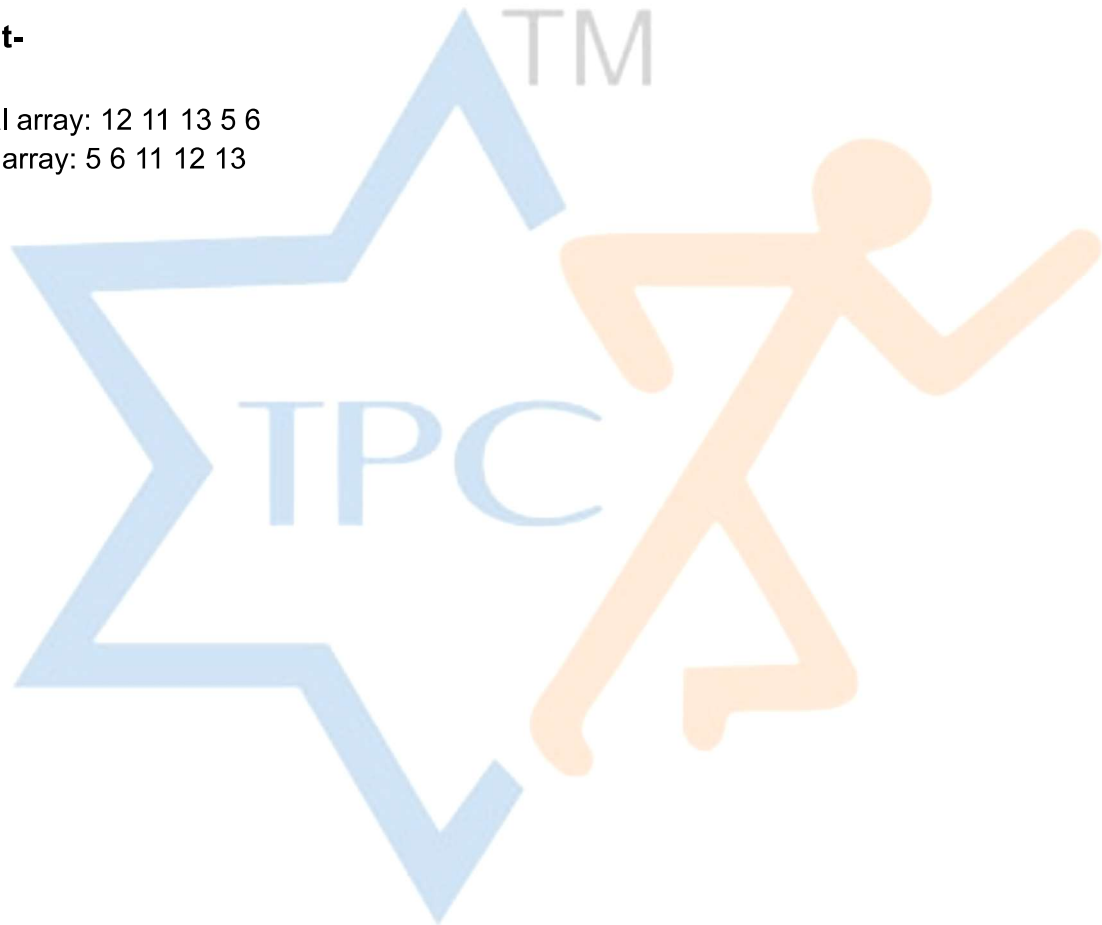
    cout << "Original array: ";
    printArray(arr, n);

    insertionSort(arr, n);
```

```
cout << "Sorted array: ";  
printArray(arr, n);  
  
return 0;  
}
```

Output-

Original array: 12 11 13 5 6
Sorted array: 5 6 11 12 13



www.tpcglobal.in