

BUBBLE SORT

CODE:

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

void bubbleSort(int arr[], int n) {

    for (int i=0; i<n; i++) {

        for (int j = 0; j < n - i; j++) {

            if (arr[j] > arr[j + 1]) {

                int temp = arr[j];
                arr[j] = arr[j + 1];
                arr[j + 1] = temp;
            }
        }
    }
}

int main() {
    int n;
    cout<<"Enter the number of elements: ";
    cin>>n;
    int arr[n];
    for (int i=0; i<n; i++){
        cout<<"Enter element: ";
        cin>>arr[i];
    }
    // find array's length
    cout<<"Sorted array: \n";
    bubbleSort(arr,n);{
```

```
int i;  
for (i=0; i<n; i++){  
    cout<<arr[i]<<" ";  
}  
cout<<endl;  
  
}  
return 0;  
}
```

OUTPUT:

```
Output  
/tmp/rVCxj0Iu8P.o  
Enter the number of elements: 5  
Enter element: 15  
Enter element: 43  
Enter element: 28  
Enter element: 56  
Enter element: 30  
Sorted array:  
15 28 30 43 56
```