**Bubble Sort:**

**#include <iostream>**

**using namespace std;**

**void swap(int \*x, int \*y)**

**{**

**int temp = \*x;**

**\*x = \*y;**

**\*y = temp;**

**}**

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

**{**

**int i,j;**

**for (i =0;i<n-1;i++)**

**for(j = 0;j < n-i-1;j++)**

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

**swap(&arr[j], &arr[j+1]);**

**}**

**void printArray(int arr[], int n)**

**{**

**int i;**

**for (i=0;i <n; i++)**

**cout<<arr[i]<<" ";**

**cout<<endl;**

**}**

**int main()**

**{**

**int n,x,i;**

**cout<<"Enter size of Array: ";**

**cin>>n;**

**int arr[n];**

**cout<<"Enter Array Elements: ";**

**for(i=0;i<n;i++)**

**{**

**cin>>arr[i];**

**}**

**cout<<"\nUnsorted Array: ";**

**for(i=0;i<n;i++)**

**{**

**cout<<arr[i]<< ' ';**

**}**

**bubbleSort(arr,n);**

**cout<<"\nSorted Array: ";**

**printArray(arr,n);**

**return 0;**

**}**