**Algorithms**

**Bubble Sort**

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| **C** | **C++** |
| #include<stdio.h>  void BubbleSort(int n, int A[])  {  for (int i =0; i < n-1; i++)  {  for(int j = 0; j < n-i; j++)  {  if(A[j]>A[j+1])  {  int temp = A[j];  A[j] = A[j+1];  A[j+1] = temp;  }  }  }  }  int main()  {  int n;  printf("Size of the Array: ");  scanf("%d",&n);  int A[n];  printf("Elements of the array: ");  for(int i = 0; i < n; i++)  {  scanf("%d",&A[i]);  }  BubbleSort(n,A);  printf("The sorted array: ");  for(int i = 0; i < n; i++)  {  printf("%d " ,A[i]);  }  return 0;  } | #include<iostream>  void BubbleSort(int n, int A[])  {  for (int i =0; i < n-1; i++)  {  for(int j = 0; j < n-i; j++)  {  if(A[j]>A[j+1])  {  std::swap(A[j],A[j+1]);  }  }  }  }  int main()  {  int n;  std::cout << "Size of the Array: ";  std::cin >> n;  int A[n];  std::cout << "Elements of the array: ";  for(int i = 0; i < n; i++)  {  std::cin >> A[i];  }  BubbleSort(n,A);  std::cout << "The sorted array: ";  for(int i = 0; i < n; i++)  {  std::cout << A[i] << " ";  }  return 0;  } |