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/* Bubble Sort Algorithm */
/* Time Complexity
    Best Case- O(n)
    Worst Case- O(n^2)
    Avergae Case- O(n^2)
*/
#include<stdlib.h>
#include<iostream>
using namespace std;
void bubblesort(int * , int );
int main()
{
 int n,a[100];
 cout<<"Enter number of elements: "<<endl;
 cin>>n;
 cout<<"Enter list elements: "<<endl;</pre>
 for(int i=0;i<n;i++)
 {
  cin>>a[i];
 bubblesort(a,n);
 return 0;
void bubblesort(int a[], int n)
 int i,j,temp;
 for(i=0;i<n-1;i++)
  for(j=0;j<n-i-1;j++)
   if(a[j]>a[j+1])
   {
    temp=a[j];
    a[j]=a[j+1];
    a[j+1]=temp;
   }
  }
 cout<<"The sorted elements are: "<<endl;</pre>
 for(int i=0;i<n;i++)
  cout<<a[i]<<" ";
```