SELECTION SORT CODE

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#include<iostream>

using namespace std;

void swapping(int &m, int &n) // swap the content of m and n

   {

int temp;

   temp = m;

   m = n;

   n= temp;

}

void display(int \*array, int size) {

   for(int i = 0; i<size; i++)

      cout << array[i] << " ";

   cout << endl;

}

void selectionSort(int \*array, int size) {

   int i, j, imin;

   for(i = 0; i<size-1; i++) {

      imin = i;

      for(j = i+1; j<size; j++)

         if(array[j] < array[imin])

            imin = j;

         //placing in correct position

         swap(array[i], array[imin]);

   }

}

int main() {

   int k;

   cout << "Enter the number of elements: ";

   cin >> k;

   int arr[k];        //create an array with k number of elements

   cout << "Enter members:" << endl;

   for(int i = 0; i<n; i++) {

      cin >> arr[i];

   }

   cout << "Array before Sorting: ";

   display(arr, n);

   selectionSort(arr, n);

   cout << "Array after Sorting: ";

   display(arr, n);

}

BUBBLE SORT

#include<iostream>

using namespace std;

int main ()

{

int i, j,temp,pass=0;

int a[10] = {10,2,0,14,43,25,18,1,5,45};

cout <<"Input list ...\n";

for(i = 0; i<10; i++) {

cout <<a[i]<<"\t";

}

cout<<endl;

for(i = 0; i<10; i++) {

for(j = i+1; j<10; j++)

{

if(a[j] < a[i]) {

temp = a[i];

a[i] = a[j];

a[j] = temp;

}

}

pass++;

}

cout <<"Sorted Element List ...\n";

for(i = 0; i<10; i++) {

cout <<a[i]<<"\t";

}

cout<<"\nNumber of passes taken to sort the list:"<<pass<<endl;

return 0;

}