Selection sort

#include<iostream>

using namespace std;

void swapping(int &a, int &b) {

int temp;

temp = a;

a = b;

b = 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;

swap(array[i], array[imin]);

}

}

int main() {

int n;

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

cin >> n;

int arr[n];

cout << "Enter elements:" << 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);

}

Output:

Enter the number of elements: 6

Enter elements:

4

67

4

33

2

5

Array before Sorting: 4 67 4 33 2 5

Array after Sorting: 2 4 4 5 33 67