// Om Jadhav (21CO050)

// Greedy Search-Selection sort

#include<bits/stdc++.h>

using namespace std;

int main()

{

int n;

cout<<"Enter the total number of elements => ";

cin>>n;

vector<int> arr(n);

cout<<"Enter "<<n<<" numbers:- \n";

for(auto &i:arr){

cin>>i;

}

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

int min = arr[i];

int minPos = i;

for(int j=i+1;j<n;j++){

if(arr[j]<min){

min = arr[j];

minPos = j;

}

}

int temp = arr[i];

arr[i] = arr[minPos];

arr[minPos] = temp;

}

cout<<"------ Sorted Array is ------ \n";

for(auto &i:arr){

cout<<i<<" ";

}

return 0;

}

\*\*\*\*\*\*\*\*\*\*\*\* OUTPUT \*\*\*\*\*\*\*\*\*\*\*\*\*

Enter the total number of elements => 5

Enter 5 numbers:-

5

3

12

8

25

------ Sorted Array is ------

3 5 8 12 25

=== Code Execution Successful ===