#include<iostream>

using namespace std;

#define size 10

int n;

template<class T>

void selection(T A[size])

{

int i,j,min;

T temp;

for(i=0;i<=n-2;i++)

{

min=i;

for(j=i+1;j<=n-1;j++)

{

if (A[j]<A[min])

min=j;

}

temp=A[i];

A[i]=A[min];

A[min]=temp;

}

cout<<"\nThe sorted list is...\n";

for(i=0;i<n;i++)

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

}

int main()

{

int i,A[size];

float B[size];

cout<<"\n\t\tSelection sort\n";

cout<<"\n\tHandling integer elements";

cout<<"\nHow many elements are there?";

cin>>n;

cout<<"\nEnter the integer elements\n";

for(i=0;i<n;i++)

cin>>A[i];

selection(A);

cout<<"\n\tHandling float elements";

cout<<"\nHow many elements are there?";

cin>>n;

cout<<"\nEnter the float elements\n";

for(i=0;i<n;i++)

cin>>B[i];

selection(B);

cout<<"\n";

return 0;

}

OUTPUT:

Selection sort

Handling integer elements

How many elements are there?4

Enter the integer elements

20

10

84

37

The sorted list is...

10 20 37 84

Handling float elements

How many elements are there?3

Enter the float elements

7.456

6.37

8.25

The sorted list is...

6.37 7.456 8.25

--------------------------------

Process exited after 29 seconds with return value 0

Press any key to continue . . .