#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<<"\nSorted list=\n";

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

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

}

int main()

{

int i,A[size];

float B[size];

cout<<"Selection sort\n";

cout<<"\nInteger Element\n";cout<<"Enter how many elements you want\n";

cin>>n;

cout<<"\nEnter the Integer element\n";

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

cin>>A[i];

selection(A);

cout<<"\nFloat Element\n";

cout<<"Enter how many elements you want\n";

cin>>n;

cout<<"\nEnter float element\n";

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

cin>>B[i];

selection(B);

return 0;

}

OUTPUT

Selection sort

Integer Element

Enter how many elements you want

5

Enter the Integer element

7

5

8

9

3

Sorted list=

3

5

7

8

9

Float Element

Enter how many elements you want

5

Enter the float element

3.8

9.4

5.5

2.2

6.7

Sorted list=

2.2

3.8

5.5

6.7

9.4