#include<iostream>

using namespace std;

const int MAX=50;

//selection sort //selection is more efficient then bubble sort

void main()

{

int a[MAX];

int n;

cout<<"\n\nENTER THE LENGTH OF ARRARY OUT OF #"<<MAX<<"\n";

cin>>n;

cout<<"\n\nENTER THE#"<<n;

cout<<"\n\n";

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

{

cin>>a[i];

}

//////////////////////////////////////////

cout<<"\a\n\tPROCESSING DATA NESTED LOOPING";

int min;

int temp;

int pos=0;

for(int j=0;j<n;j++)

{

min=a[j];

pos=j;

for(int k=j+1;k<n;k++)

{

if(a[k]<min)

{

min=a[k];

pos=k;

}

}

temp=a[j];

a[j]=a[pos];

a[pos]=temp;

}

////////////////////////////////////////////

cout<<"\n selection sorting arrayr is\n";

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

{

cout<<a[i]<<endl;

}

getchar();

getchar();

}