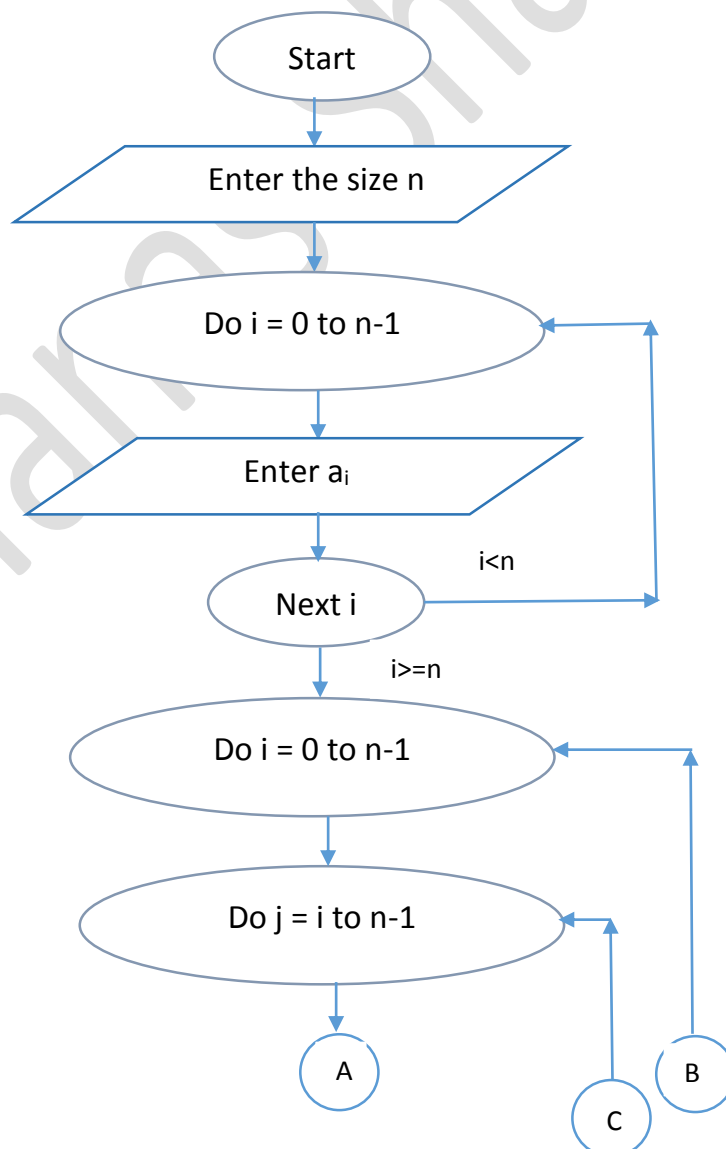


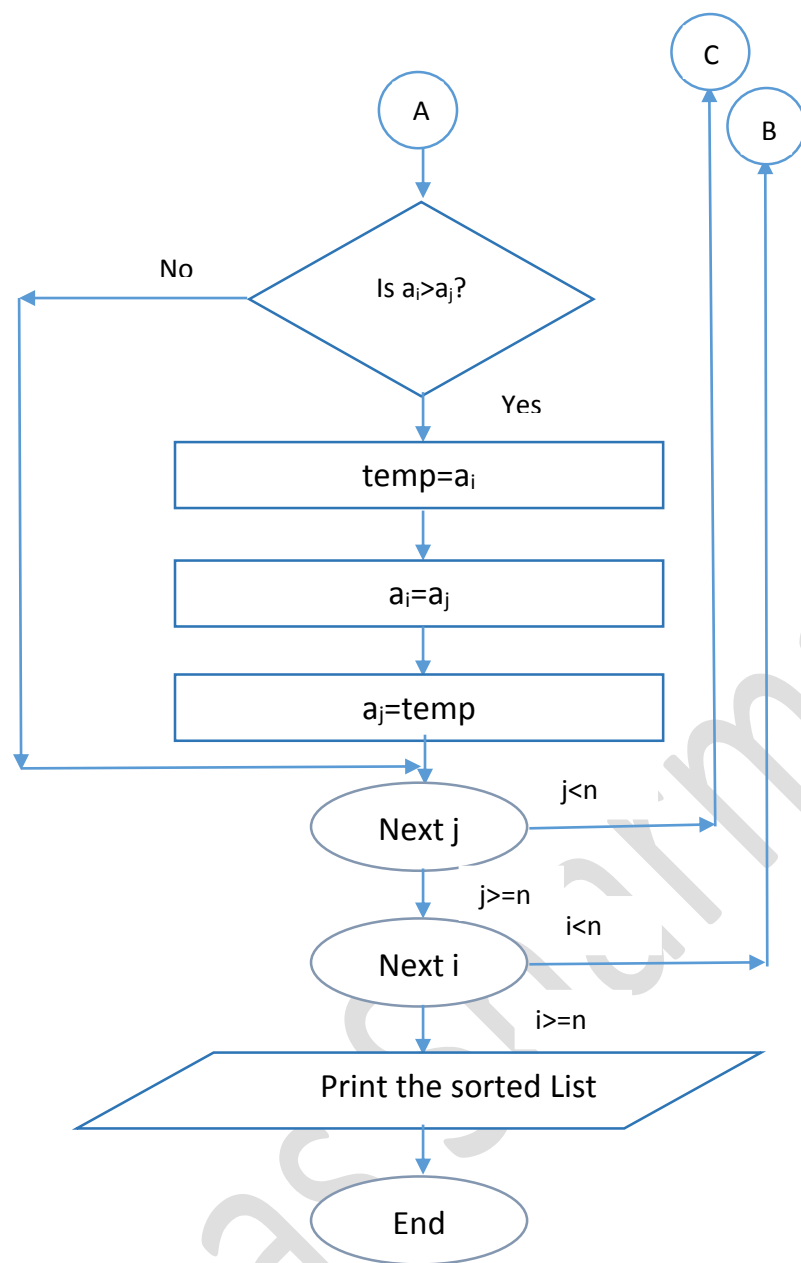
Aim: To arrange a list of nos. in ascending order.

Algorithm:

1. Enter the size of the list, n .
2. Create array of size n , to store the list.
3. Enter the elements of the list:
Begin For $i=0$ to $n-1$
 Enter a_i
End For
4. Begin For $i=0$ to $n-1$
 Begin For $j=i$ to $n-1$
 If $a_i > a_j$
 Then swap a_i with a_j
 Else
 Do nothing
 End For j
End For i
5. Print the sorted list.

Flow Chart:





Program:

```

//sort a list(ascending)
#include <iostream>
using namespace std;
int main()
{
    int i,n,j;    //to store the size of list and for loops for reading, swapping etc
    double temp;
    cout<<"Enter the size of the list"<<endl;    //get the size of the list
    cin>>n;
    cout<<"Enter the elements of the list\n";
    double a[n];    //declare an array to store the list
    for (i=0;i<n;i++)
    {
        cin>>a[i];    //get the elements of the list
    }
    for (i=0;i<n;i++)    //sorting
    {
        for (j=i;j<n;j++)
        {
            if (a[i]>a[j])
            {
                temp=a[i];
                a[i]=a[j];
            }
        }
    }
}
  
```

```

        a[j]=temp;
    }
}
cout<<"\n\nThe sorted list is \n";
for (i=0;i<n;i++)
{
cout<<a[i]<<endl;
}
return 0;
}

```

Output:

```

Enter the size of the list
5
Enter the elements of the list
-999
1000
0
1.5
-9.65

The sorted list is
-999
-9.65
0
1.5
1000

```

```

Enter the size of the list
4
Enter the elements of the list
9999.46
-1.956
0.5
-888.46

The sorted list is
-888.46
-1.956
0.5
9999.46

```