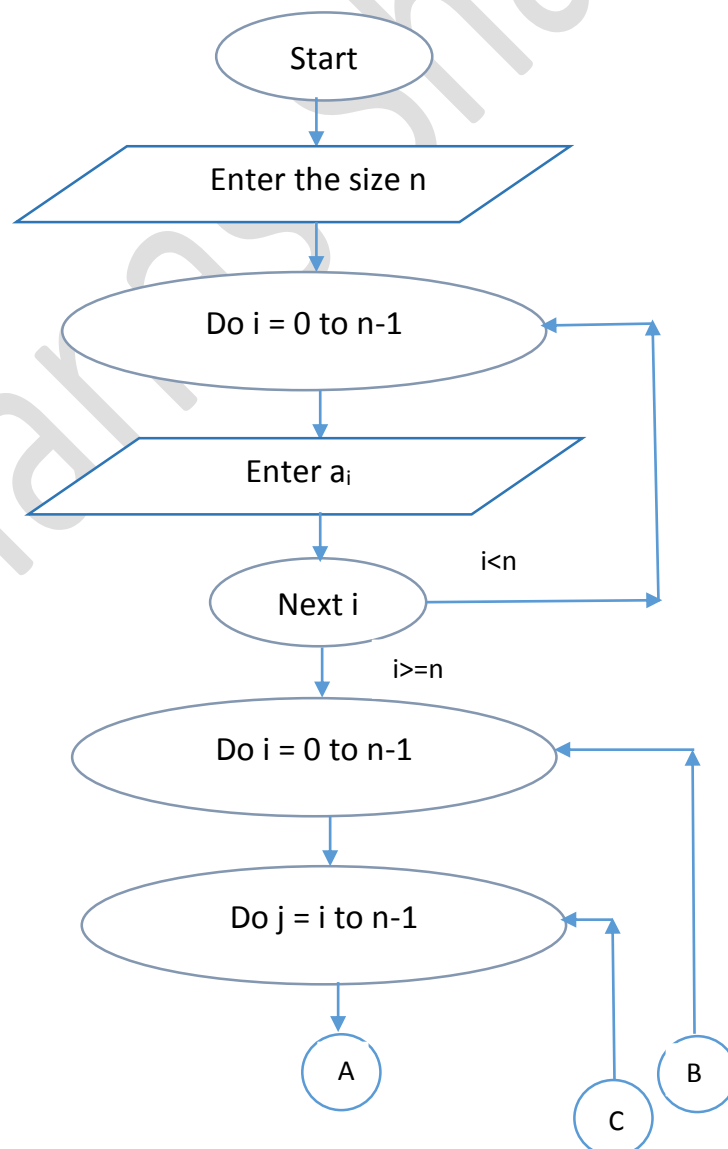


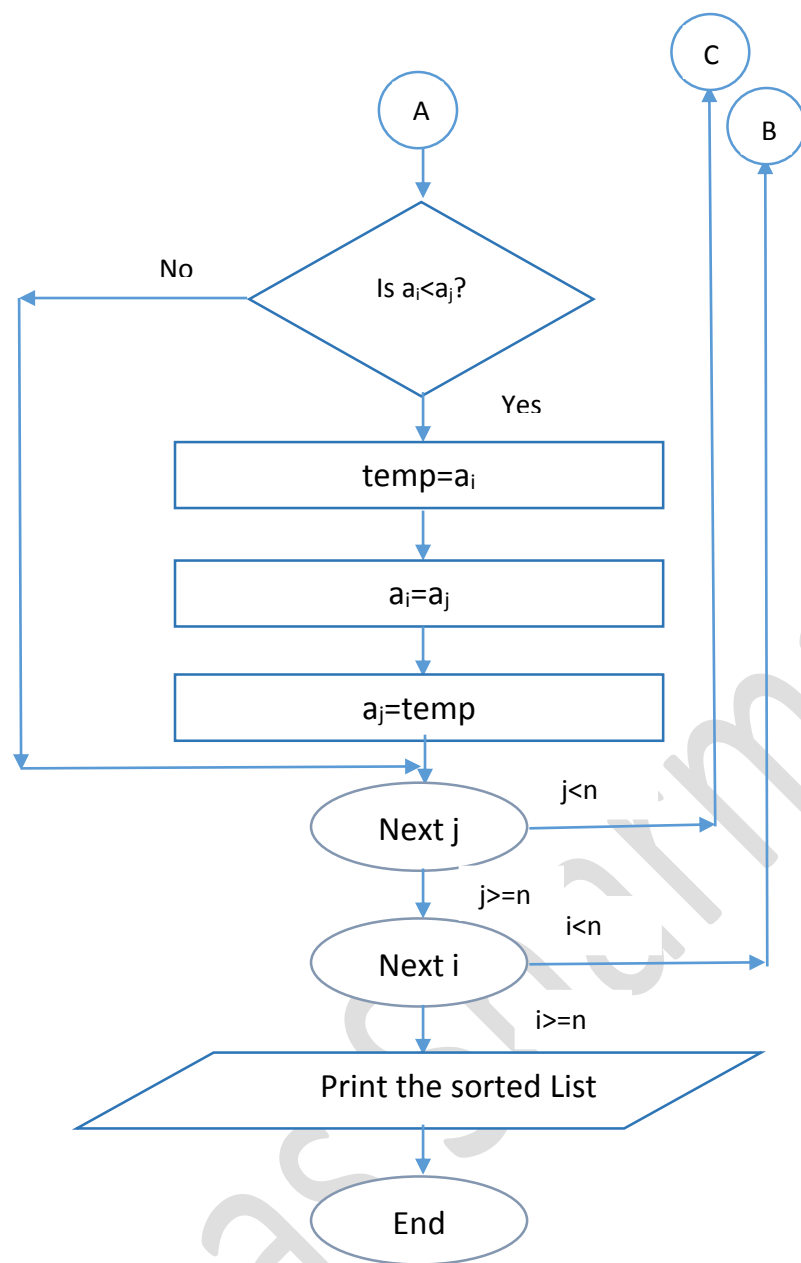
Aim: To arrange a list of nos. in descending order.

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:

```

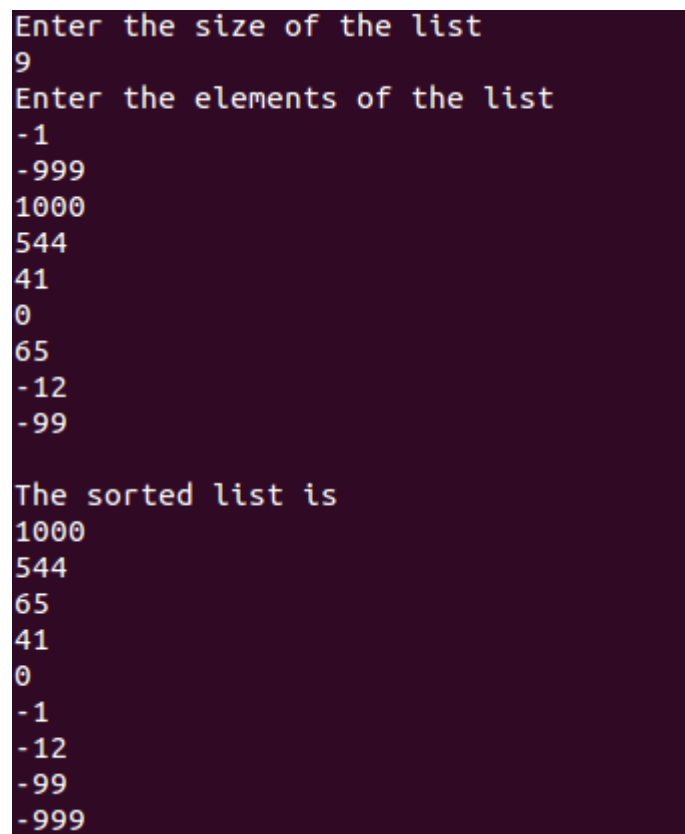
//sort_desc
#include <iostream>
using namespace std;
int main()
{
    int n;    //size of list
    int i,j;  //for loops for reading, swapping etc
    double temp; //swapping
    cout<<"Enter the size of the list"<<endl;
    cin>>n;
    cout<<"Enter the elements of the list\n";
    double a[n]; //the list of no.s to be sorted
    for (i=0;i<n;i++) //reading the elements
    {
        cin>>a[i];
    }
    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 attached as .jpg

Output:



```
Enter the size of the list
9
Enter the elements of the list
-1
-999
1000
544
41
0
65
-12
-99

The sorted list is
1000
544
65
41
0
-1
-12
-99
-999
```

```
Enter the size of the list
4
Enter the elements of the list
9
-9
800
0

The sorted list is
800
9
0
-9
```

Manas Sharma