def getFloorAndCeil(a, n, x):

    # Write your code here.

    l=[-1,-1]

    s=0

    e=n-1

    while(s<=e):

        mid=(s+e)//2

        if a[mid]==x:

            l=[a[mid],x]

            break

        elif a[mid]<x:

            l[0]=a[mid]

            if mid+1<n and a[mid+1]>x:

                l[1]=a[mid+1]

            s=mid+1

        else:

            l[1]=a[mid]

            if mid-1>0 and a[mid-1]<x:

                l[0]=a[mid-1]

            e=mid-1

    return l