def firstAndLastPosition(arr, n, k):

    def first(arr,s,e,k):

        while(s<=e):

            mid=(s+e)//2

            if arr[mid]==k:

                e=mid-1

            elif arr[mid]>k:

                e=mid-1

            else:

                s=mid+1

        return s

    def last(arr,s,e,k):

        while(s<=e):

            mid=(s+e)//2

            if arr[mid]==k:

                s=mid+1

            elif arr[mid]>k:

                e=mid-1

            else:

                s=mid+1

        return e

    a=first(arr,0,n-1,k)

    b=last(arr,0,n-1,k)

    return [-1, -1] if a > b else [a,b]