array = [10,20,30,40,50,60,70]

x = 20

def binarySearch(array, x, low, high):

    while low <= high:

        mid = (low+high)//2

        if array[mid] == x:

            return mid

        elif array[mid] < x:

            low = mid + 1

        else:

            high = mid - 1

    return -1

result = binarySearch(array, x, 0, len(array)-1)

if result != -1:

    print("Element is present at index " + str(result))

else:

    print("Not found")

print(“\*\*\*\*\*\*\*\*\*\*\*\*\*\*using fibonacci search\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*”)

def fibMonaccianSearch(arr, x, n):

    fibMMm2 = 0

    fibMMm1 = 1

    fibM = fibMMm2 + fibMMm1

    while (fibM < n):

        fibMMm2 = fibMMm1

        fibMMm1 = fibM

        fibM = fibMMm2 + fibMMm1

    offset = -1

    while (fibM > 1):

        i = min(offset+fibMMm2, n-1)

        if (arr[i] < x):

            fibM = fibMMm1

            fibMMm1 = fibMMm2

            fibMMm2 = fibM - fibMMm1

            offset = i

        elif (arr[i] > x):

            fibM = fibMMm2

            fibMMm1 = fibMMm1 - fibMMm2

            fibMMm2 = fibM - fibMMm1

        else:

            return i

    if(fibMMm1 and arr[n-1] == x):

        return n-1

    return -1

# Driver Code

arr = [10, 22, 35, 40, 45, 50,

       80, 82, 85, 90, 100, 235]

n = len(arr)

x = 235

ind = fibMonaccianSearch(arr, x, n)

if ind >= 0:

    print("Found at index:", ind)

else:

    print(x, "isn't present in the array")