print("linear search")

def linearsearch(arr,target):

for i in range (len(arr)):

if arr[i] == target:

return i

return -1

arr = [11,22,113,55,45,66]

target=int(input("enter roll no:"))

ans=linearsearch(arr,target)

if ans != -1:

print("key is at index:",ans)

else:

print("key is not found")

#sentinal search

print("sentinal search")

def sentinal\_search(arr,target):

n = len(arr)

last\_element = arr[n-1]

arr[n-1] = target

i = 0

while arr[i] != target:

i = i+1

arr[n-1] = last\_element

if i < n - 1:

return i

else:

return -1

arr = [33,112,452,788]

target=int(input("enter the key:"))

ans=sentinal\_search(arr,target)

if ans != -1 :

print("key is at index:",ans)

else:

print("key not found")