l = [int(x) for x in input("Enter number: ").split(",") if x.isdigit()]

a = int(input("Enter element to find: "))

def bubbleSort(l):

iter = 0

for i in range(len(l)):

for j in range(len(l)-i-1):

if l[j]>l[j+1]:

l[j], l[j+1] = l[j+1], l[j]

iter += 1

print("\nNo. of iterations for bubble sort:", iter)

return l

def binarySearch(l, a):

low, high, iter = 0, len(l)-1, 0

while low <= high:

iter += 1

mid = (low + high)//2

if l[mid] == a:

print("\nNo. of iterations for binary search:", iter)

return mid

elif l[mid] < a:

low = mid + 1

else:

high = mid - 1

print("\nNo. of iterations for binary search:", iter)

return -1

def linearSearch(l, a):

iter = 0

for i in range(len(l)):

if l[i] == a:

print("\nNo. of iterations for linear search:", iter)

return i

iter += 1

print("\nNo. of iterations for linear search:", iter)

return -1

print("Sorted list:", bubbleSort(l))

print("Index of element:", binarySearch(l, a))

print("Index of element:", linearSearch(l, a))

**OUTPUT**

