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#CLASS : SYCS

A = str(input(“Enter the string l for Linear Search and b For Binary Search: “))

Pos = -1

List = [0,1,2,3,4,5,6,7,8,45,63]

If a == ‘b’:

Def search(list,n):

L = 0

U = len(list)-1

While l <=u:

Mid = (l+u)//2

If list[mid] == n:

Globals()[‘pos’]= mid

Return True

Else:

If list[mid]<n:

L = mid+1

Else:

U = mid-1

Return False

#list = [0,1,2,3,4,5,6,7,8,45,63]

List.sort()

N= int(input(“Enter the numbers for binary search : “))

If search(list, n):

Print(“Number Found : “)

Else:

Print(“Not Found : “)

elif a == ‘l’:

#pos = -1

Def search(list ,n):

I = 0

While I < len(list):

If list[i] == n:

Return True

I = i+1

Return False

List.sort()

N= int(input(“Enter the numbers for linear search : “))

If search(list ,n):

Print(“Number found “)

Else:

Print(“not found”)

Else:

Print(“enter valid input”)