977. Squares of a Sorted Array

Array, Two pointers

Brute force

def sortedSquares(nums):

lst = []

for n in nums:

lst.append(n\*n)

lst.sort()

return lst

Two pointers

def sortedSquares(arr):

right = 0

while right < len(arr) and arr[right] < 0:

right +=1

left = right - 1

output = []

while left >= 0 and right < len(arr):

if arr[left]\*\*2 < arr[right]\*\*2:

output.append(arr[left]\*\*2)

left -=1

else:

output.append(arr[right]\*\*2)

right+=1

while left >= 0:

output.append(arr[left]\*\*2)

left-=1

while right < len(arr):

output.append(arr[right]\*\*2)

right+=1

return output