**Justin\_BinarySearch\_0475. Heaters**

**Concept:**

先把 heaters 的前後分別加入 負無限大、正無限大

找到 houses[i] < heaters[pos]

選result 和 min(i - heaters[pos - 1], heaters[pos] - i) 較大的

**Code:**

class Solution:

def findRadius(self, houses: List[int], heaters: List[int]) -> int:

houses.sort()

heaters.sort()

result = 0

pos = 0

heaters = [float('-inf')] + heaters + [float('inf')]

for i in houses:

while i >= heaters[pos]:

pos += 1

r = min(i - heaters[pos - 1], heaters[pos] - i)

result = max(result, r)

return result