Leet Code # 2465

→ Day-12

Find total Number of distinct Averages

Example

$$nums = [4, 1, 4, 0, 3, 5]$$

① Max = 5, min = 0

avg = 2.5

② Max = 4, min = 1 $[4, 1, 4, 3]$

Avg = 2.5

③ Max = 4, min = 3

Avg: 3.5

No. of Distinct Avgs ⇒ '2'   return 2.

Approach

① We can use an unordered set in C++ STL whose 'insert' method will only insert values into the set if they are unique.

② So before we insert the unique element we can use 2 pointers to indicate the max and min after sorting the array.

③ We get the two elements, and add the avg of them into the unique set.

④ then return the size of the set.