Nepping Kain Water

This problem is solvable in O(1) teme and O(1) space using the two-pointer technique

Loy blea:

The water trapped at position i is determined by: water [i] = min (max_left [i], max_right[i]) - height [i]
But instead of computing two arrays, we can do this in one pass using two pointers.

1 Initialize two poenters:

left zo Nght zn-1

2 Maintain two variables:

·left-max = > Night_max = >

3. While left < right:

-If height [left] < height [right]:

If height (left)>= left_max update left_max · Ele add left_max - height (left) to sexult

· Move left ++

· If height (sight) >= sight_max, update sight-max · Else add sight-mon - height [sight] to result

· Move Neght--

Complexity:

· Time: O(1):- single poss · Goce: O(1):- comtant extre space