Container With Most Water
Islouig the classe "Container With Most Water" problem-best approached
Islouig the classic "Container With Most Water" problem-best approached with the two pointer technique.
They Idea: 1 10 maximise the are between two vertical lanes;
Are = min (lreight [i], height [j]) * (j-i)
Hast with two painters:
left=2, right=n-1
· llove the printer previting to the slocter height emvard; · lloving the taller one can't give a better result (wielth
Moving the taller one can't give a better result (wield
shinks but haght down 't improve!
Algorithm steps: [ 1. Initialize: left=0, right=n-1
1. Initealise: left=0, right=n-1
max Area = 0
2. While left < right:
· Calculate arec: asec = min (height [left], height (sight) &
* Cright-left
· Yxolate max Area
· llove the shorter line inward:
·If height [left] < height (right]:
Left ++
· Else: right
3. Petun mas Ala
Time Complexity; O(11) - sengle post from both ends.
- O(N) ysaa
Crample: FA (18,6,25,48,3,7)
· Mex arez is between incletes 1 and 8:
-> min (RT)& (B-1) = 7x7=49