Container With Most Water

Tolorig the classe "Container With Most Water" problem-best approached with the two-pointer technique.

[Ley Idea: 1 Vo maximise the are between two vertical lanes; Arec = min (height Li], height (j])* (j-i)

Less with two panters:

left = 2, right = N-1

· Move the painter pariting to the slater hight invaid; Moving the taller one can't give a better result (wielth shinks but haght dass t improve).

Algrithm Steps: 1. Initealise: left=0, right=n-1 max Area =0

2. While left < Mght:

· Calculate area; area = min (height [left], height (right) | * (right-left)

· Upolate max Area

· Hove the shorter line inward:

If height [left] < height (right]: left ++

· Else: reglit --

3. Petun man Alla

Time Complexity; O(in) - single pass from both ends. · O(N) ysaa

Crample: FA (18,6,25,483,7):

· Mex area is between indeces 1 and 8:

-> min (RT)& (G-1) = 7x7=49