## Two pointers thinking process:

it here > hell:

$$A = hell \cdot (r - l)$$

$$\Rightarrow If a heil, i \in (l, r)$$
if heil > hell, min(hell, heil) \cdot (i-l)
$$\land hell \cdot (r - l)$$
if  $heil \leq hell$ , min(hell, heil) \cdot (i-l)
$$\Rightarrow we can move l to the right$$

else if h[r] < h[l]:  $\Rightarrow$  we can move r to the left else if h[l] == h[r]:

A= h[l].(l-r)

Question: Can we build a container using either h[l] or h[r] with an index [e(l,r)] with h[i] that min(h[l[orr]], h[i])

• | i - l(orr)| > A

If 
$$h \in i \geq h \in l \in k \in l = k$$

=> We cannot find an index is(Ir)

s.t. Using either h[l] or h[r]

with h[i] to form a larger

rectangle. => [l++, r--]