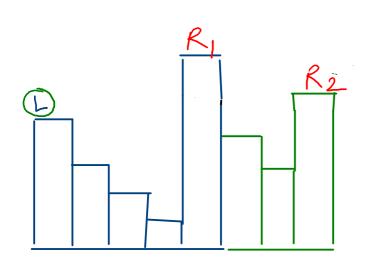
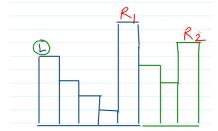
Rain Water Trapping Two Pointer Approach



Area over = min(left-max, right-mex) - bartei]
its bar

Observation: If we start calculating the area from left local minima with the assumption that in right somewhere we will find but of greater height i.e., left-hex <= right-max - is correct.

means we should have calculated pre area yather from right.



The area calculated using load loff. hex i. I to be correct, our assumptions needs to come true. We cannot product about the right mex whent observeing the right of current indoz.

Stratury: Lot's injudice the left-max = par(off index) right-meso = bor [last index] K

Carl of loft-mex < right-max means first bar

care A! There is no greater bar then right-max (lest ber) in between fist and last ber.

-> There is to issue if me columns the area from left.

Care B: Fire is a greater bor them right next lest bor) in between first and last bor. R2

-s Then the area calculated from left wise be correct fish the first right. mex (41)

Thus, the area adulated is always frue just we need to take corre of till which vigh. mex.

> We keep on calculating the area from left his K, and at K, he re-essign left-mex with 181, so that left-mex(R) be comes great a tron right-max(K2). and flip the dirockion of area calculation. Means allow the runtime control to enter in case 2.

Love of right-max < left-max hears lugtbar is smaller from first bar.

Here we Should just start the area calculation from right. And eventury else remain similar to case 1:

in hetween first har (Jeff-mex) and last bar (right-mex)

> The is no issue, are abulated will be correct across whole width of his by glam.

comp. There is a greeter box than left-mex (first low) in bows on first box and (and box (xight-mex)

I there we celculete the area Starting from right end till the greater har. And at yeater har we re-exist right-met with greater har. Thus allow the runtime control to flip the area colculation diroction.