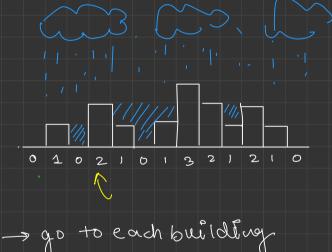


Trapping Rain Water

Bouteforce



TC:0(N2)

-> get tallet in off vile

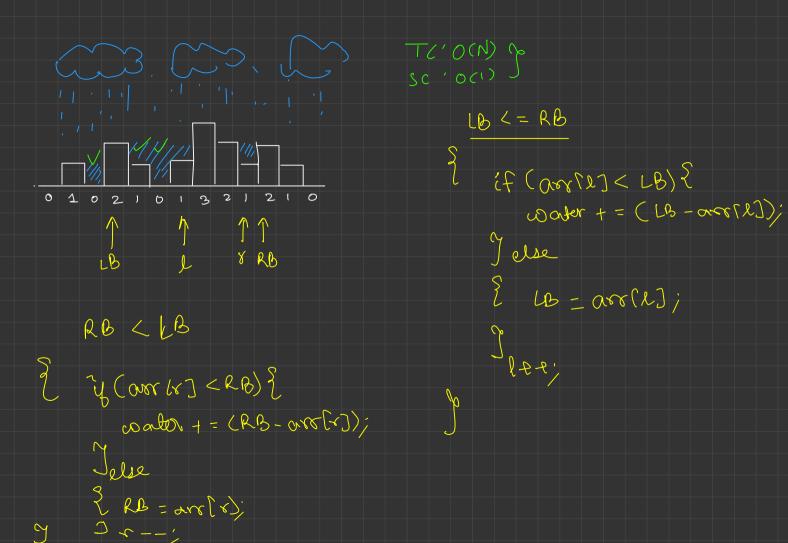
SC:0(1)

-> Helght of water = min(lb, RB) - height-of building.

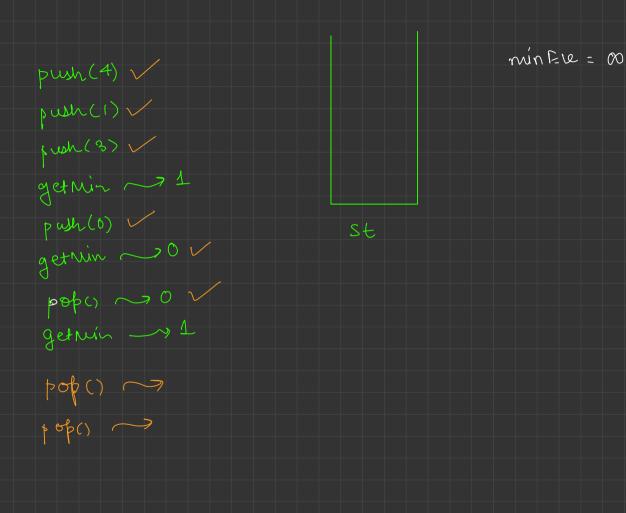
-> Add alı

for (9 = 0 -> n) for(j < 0 → i -1) for (j=(+1->n) more RB hw: onl (LB,RB) - hB; Sum + - haj

T (10(M) SC:OCN) for (i=1->n) 2 lman [i] = man [are[i-1], lman[i-1])



Min Stack -> pop -> peek -> size -> get Min > return minimum en a stack



```
void push(int x){
                                       int getMin(){
   if (st.size() == 0) {
                                          if (minEle == Integer.MAX VALUE) {
       st.push(minEle);
       st.push(x);
       minEle = x;
                                               return minEle;
   } else { /
       if (x <= minEle) {
           st.push(minEle);
           minEle = x;
                                      push (4)
push (5)
yush (20)
yush (4)
                                                                                        nuin Ew = XX4
int pop(){
                                                                        4
   if (st.size() == 0) {
      /f (st.peek() == minEle) {
                                                                         20
        \cap int x = st.pop();
           minEle = st.pop();
                                                                         4
           return x;
                                                                         \infty
           return st.pop();
```

Sum of Subarray Minimums an [] = {3,2,4,1,5,2} 233 23,25 23,2,49 23,2,4,1,53 3 2 2 23,2,4,1,8,29 127 EL, 49 EL, 4, 19 E2, 4, 1, 57 7 2, 4, 1, 5, 129 1 2 24,19 24,1,59 24,1,5,29

Boute force > calc. ruin of all suboveray TC: OCN2) and add them S(:0(1) 22,39 9 2,377 24/219 74,2,38 79,213179

TC: O(N) 3,2,4,1,5,2° 3 - (-1) = 4 -1,-1,1,-1,3,3 nseli[) 6-0=8 1,3,3,6,5,6 nerilo no. of left subarry = de - nieli of jut = nsen - ide Fefal