height [0,1,0,2,1,0,1,3,2,1,2,1]

psudo code:

1) find max h on left

2) find max h on suight

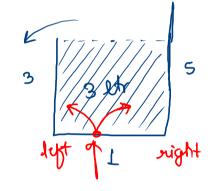
3) find min blew left and ruight

y) remove your h from it

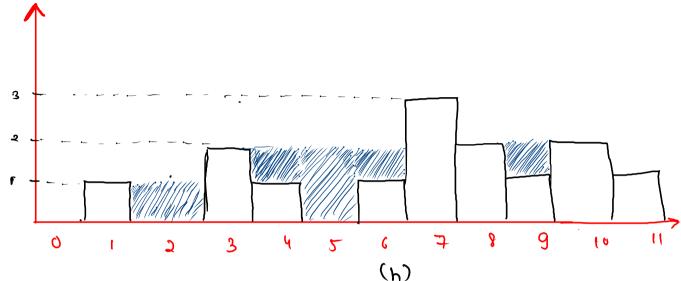
logic:- we will calc.

water stored on

top of each block



for each index, i will find maximum height on my left and on my right as well



$$i=0$$
, $l=0$, $n=3$, $min=0-0=0$
 $i=1$, $l=1$, $n=3$, $min=1-1=0$
 $i=2$, $l=1$, $n=3$, $min=1-0=1$
 $i=3$, $l=2$, $n=3$, $min=2-2=0$
 $i=4$, $l=2$, $n=3$, $min=2-1=1$
 $i=5$, $l=2$, $n=3$, $min=2-0=2$
 $i=6$, $l=2$, $n=3$, $min=2-1=1$

i=7, i=3, n=3, min=3-3=0 i=8, i=3, n=2, min=2-2=0 i=9, i=3, i=2, i=3, i=2-1=1i=10, i=3, i=2, i=3, i=2, i=1, i=0

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int[] height = new int[n];
    for (int i = 0; i < n; i++) {
                                                               solve (a,b,c)
        height[i] = scn.nextInt();
    System.out.println(solve(height)
public static int solve(int[] height) {
    int result = 0;
 for (int i = 0; i < height.length; i++) {
     _ int left = height[i]; ←
                                           left monimum height
       for (int j = 0; j \Leftarrow i; j++) {
          - if (height[i] > left) {
                left = height[j];
     int right = height[i];
       for (int j = i • ; j < height.length; j++) {
          - if ( height[i] > right ) {
                right = height[j];
   int mini = Math.min( left, right);
int ans = mini - height[i].
                                                                                            (u)
       int ans = mini - height[i];
    return result;
```

```
Same code
```

```
public static int solve(int[] height) {
   int result = 0;
   for (int i = 0; i < height.length; i++) {
       int left = Integer.MIN_VALUE;
       for (int i = 0; i <= i; i++) {
            if (height[i] > left) {
                left = height[i];
        int right = Integer.MIN_VALUE;
        for (int j = i; j < height.length; j++) {
            if ( height[j] > right ) {
                right = height[j];
        int mini = Math.min( left, right );
        int ans = mini - height[i];
        result += ans;
    return result;
```

curmstrong no.

$$n = 153$$

aigits = 3

digits = 3
$$\Rightarrow 1^3 + 5^3 + 3^3 = (153)$$