input [0,1,0,2,1,0,1,3,2,1,2,1] output: 6

$$n = 12$$
, water = 0.

temp_height = 0,

temp_height = 0, S:[0,0]

water $+=(min(0,1)-0)\times(1-0-1); \rightarrow water=0$

temp_height = 0

height[1] = 1 > bar -> s.pop(1, s:[7

temp_height = 0, S=[[, 1] bar = 1, pos = 1water += $(min(1, 0) - 0) \times (2 - 1 - 1) \rightarrow nater = 0$ temp-height = 1 height(2) = 0 < bar -> break S: 0, 2 1=3 temp height = 0 bar = 0, POS = 2 water $t = (min(0, 2) - 0) \times (2 - 2 - 1) \rightarrow hater = 0$ temp-height = 0 height $[i] = 2 > bar \rightarrow s: [1, 1]$ bar = 1, pos = 1 $(min(1, 2) - 0) \times (3 - (-1)) = 1$ water = 0+1 =1

temp_height = 1 height[i] = $2 > 1 \rightarrow S$: [] S: [2,3] v=4 temp_height = 0 bar = 2, pos = 3 $|\min(2,1)-0) \times (4-3-1) = 0$

Water =1

temp_height = 2

height[i] = 1 < bar -> break

S: [1,4]

1=5

temp-height = 0

bar = 1,
$$pos = 4$$

 $(min(1, 0) - 0) \times (5 - 4 - 1) = 0$
 $water = 1$
 $temp_height = 1$
 $height(i) = 0 < bar > break$
 $s: [0, 5]$
 $1, 4$
 $2, 3$
 $v = 6$
 $temp_height = 0$
 $bar = 0, pos = 5$
 $[min(0, 1) - 0) \times (6 - 5 - 1) = 0$
 $water = 1$
 $temp_height = 0$

height[i] $= 1 > bar \rightarrow S = 1,4$

$$(min(1,1) - 0) \times (b - 4 - 1) = [$$

$$water = 2$$

$$bar = 2$$
, $pos = 3$

$$(min(2,1)-1) \times (6-3-1) = 0$$

$$water = 2$$

$$t = 1$$
 $temp-height = 0$

$$(min(1,3)-0) \times (7-6-1) = 0$$

water = 2

temp_height =1

$$3 > 1 \rightarrow S: [2,3]$$

$$\left(\min(2,3)-1\right) \times (7-3-1) = 3$$

$$(min(3,2)-0)\times(8-7-1)=0$$

$$\left(\min(2,1)-0\right) \times (9-8-1)=0$$

$$(\min(1, 2) - 0) \times (10 - 9 - 1) = 0$$
 $water = 5$
 $temp_height = 1$
 $2 > 1 \rightarrow 5$; $\begin{bmatrix} 2, 8 \\ 3, 7 \end{bmatrix}$
 $bar = 2$, $pos = 8$
 $(\min(2, 2) - 1) \times (10 - 8 - 1) = 1$
 $water = 6$
 $temp_height = 2$
 $2 = 2 \rightarrow 5$: $\begin{bmatrix} 3, 7 \end{bmatrix}$
 $bar = 3$, $pos = 7$
 $(\min(3, 2) - 2) \times (10 - 7 - 1) = 0$
 $water = 6$
 $temp_height = 3$
 $2 < 3 \rightarrow break$
 $C = 5 = 10.7$

$$bar = 2$$
, $pol = 10$

$$(min(2, 1) - 0) \times (11 - 10 - 1) = 0$$