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0	1	2	3	4	5
↓	↓	↓	↓	↓	↓
2	9	1	6	4	7

9 - 1 6 7 7 9

<=

→ 9

# Identification:-

If you are asked next greater/smaller to the left/right. Always think of stack

Shopkeeper

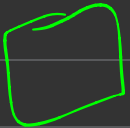
↳  $n$  items

↳ sell all items

↳ they are arranged in some order

↳ if any element to its left is smaller, he gives discount of this price on current price.

else, he sell it on the same price.



② 4 6 1 9 7

2 2 2 1 8 6

Brute Better Optimise

② Parenthesis ← 99%  
↳ Balanced Parenthesis  
↳ L-Valid Parenthesis (sk)

③ ✓✓

$k=4$

size: 0

2	4	3	3	5	4	9	6
---	---	---	---	---	---	---	---

↘

2	4	3	1
---	---	---	---

size = 4       $3 < 4$

$k=3$

num To Be Deleted:  $\text{size} - k$

$= 1$

1	3	2
---	---	---

2	3	1
---	---	---

$k=4$

size: 8

2	4	3	3	5	4	9	6
---	---	---	---	---	---	---	---

size: 8

$k=4$

numToBeDeleted: size - k  
: 4 3 2 1 0

- ★ stack should not be empty
- ★  $\text{stack.top}() > \text{arr}[i]$
- ★ numToBeDeleted > 0

4
3
3
2

