No. of valid Subarrays →

n = 5-0
n = 5

a b c d e no. of subarray = n

Subarray-

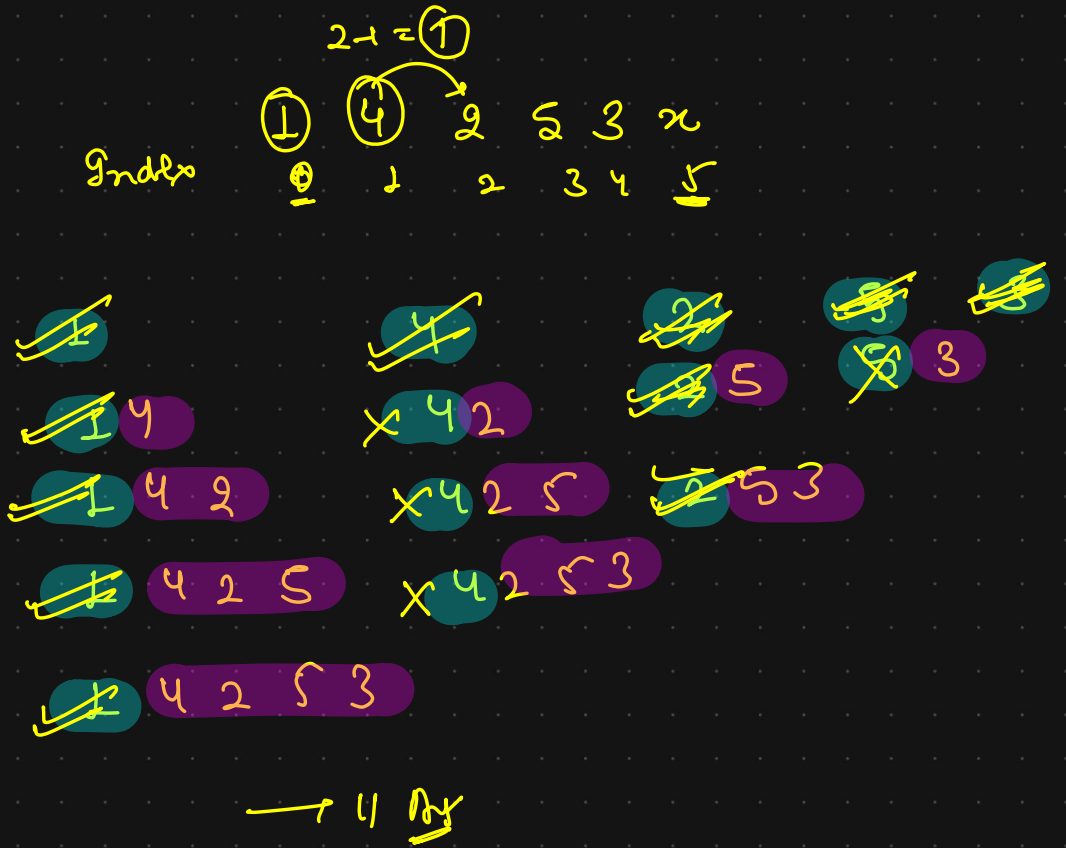
a
ab
abc
abcd
abcde

b
bc
bcd
bcde

c
cd
cde

d
de

e



→ 4 Ans

Starting element is smaller-

Index →	0	1	2	3	4
known array →	1	4	2	5	3
next smaller index on Right →	5	2	5	4	5

contribution in count → 5 + 1 + 3 + 1 + 1

count += nsr[i] - i

Hint :→ Next Smaller on Right:

1
1 4
1 4 2
1 4 2 5
1 4 2 5 3

4
4 2
4 2 5
4 2 5 3

5
5 3

lexicographically Smallest Subseq:

k = 4 → 4 length Smallest lexicographical subseq.

2 4 3 3 5 4 9 6

Removal = nums.length − k

= 6 − 4 = 4

k Removes

k = 4 3 2 1

2 3 3 4 6 ⇒ [2, 3, 3, 4]

Design a stack with Increment operations

complexity → push → O(1)
pop → O(1)
increment → O(1)

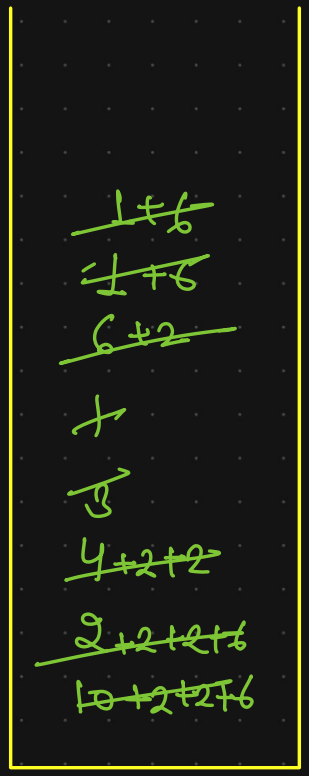
push
pop
increment(k, val)

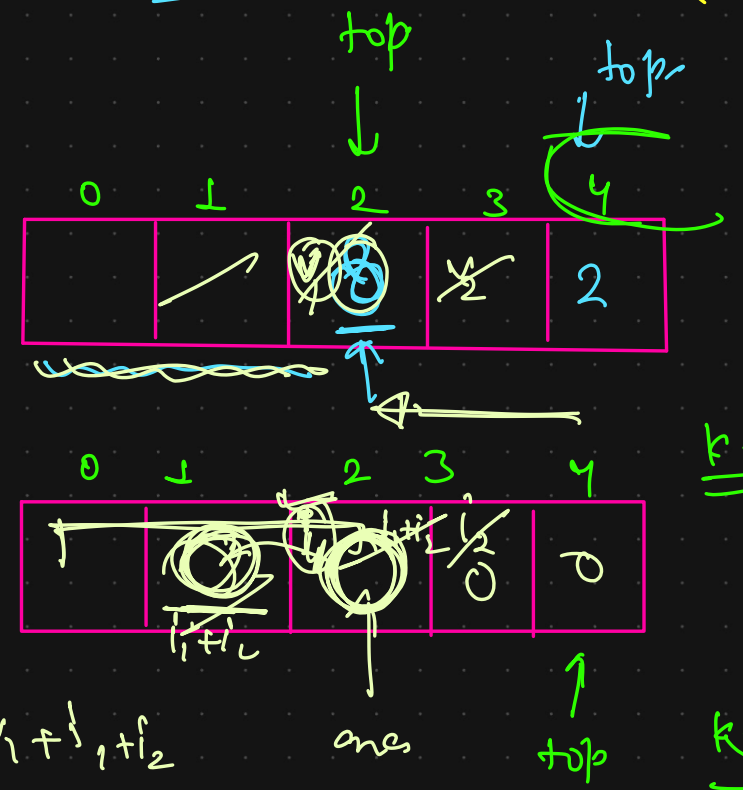
3, 4

10
2
4
3
1
x 7 * Nothing to do ↳ stack is full
pop → 1
pop → 3
3, 2
1
20, 2

pop → 8
pop → 8
1
1
2, 6
pop → 12
pop → 7
pop → 12
pop → 20
pop → 3
pop → 1
pop → 1
stack is empty.

maxsize = 5





pop → value = val[top] + incr[top]; $v_2 + i_2$

incr[top-1] += incr[top]

top--; → check for valid index