

3427. Sum of Variable Length Subarrays

Solved ●

Easy  Topics  Hint

You are given an integer array `nums` of size `n`. For **each** index `i` where $0 \leq i < n$, define a

subarray `nums[start ... i]` where `start = max(0, i - nums[i])`.

Return the total sum of all elements from the subarray defined for each index in the array.

Example 1:

Input: `nums = [2,3,1]`**Output:** 11**Explanation:**

i	Subarray	Sum
0	<code>nums[0] = [2]</code>	2
1	<code>nums[0 ... 1] = [2, 3]</code>	5
2	<code>nums[1 ... 2] = [3, 1]</code>	4
Total Sum		11

The total sum is 11. Hence, 11 is the output.

Example 2:

Input: `nums = [3,1,1,2]`**Output:** 13**Explanation:**

i	Subarray	Sum
0	<code>nums[0] = [3]</code>	3
1	<code>nums[0 ... 1] = [3, 1]</code>	4
2	<code>nums[1 ... 2] = [1, 1]</code>	2
3	<code>nums[1 ... 3] = [1, 1, 2]</code>	4
Total Sum		13

The total sum is 13. Hence, 13 is the output.

Constraints:

- $1 \leq n == \text{nums.length} \leq 100$
- $1 \leq \text{nums}[i] \leq 1000$

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Yes No

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Topics



Hint 1



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