2640.	Find	the	Score	of	ΑII	<b>Prefixes</b>	of	an
Array								

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We define the **conversion array** conver of an array arr as follows:

• conver[i] = arr[i] + max(arr[0..i]) where max(arr[0..i]) is the maximum value of arr[j] over 0 <= j <= i.

We also define the **score** of an array arr as the sum of the values of the conversion array of arr.

Given a **0-indexed** integer array nums of length n, return an array ans of length n where ans[i] is the score of the prefix nums[0..i].

## Example 1:

**Input:** nums = [2,3,7,5,10]Output: [4,10,24,36,56]

### **Explanation:**

For the prefix [2], the conversion array is [4] hence the score is 4 For the prefix [2, 3], the conversion array is [4, 6] hence the score is 10 For the prefix [2, 3, 7], the conversion array is [4, 6, 14] hence the score is 24 For the prefix [2, 3, 7, 5], the conversion array is [4, 6, 14, 12] hence the score is 36 For the prefix [2, 3, 7, 5, 10], the conversion array is [4, 6, 14, 12, 20] hence the score is 56

# Example 2:

**Input:** nums = [1,1,2,4,8,16]Output: [2,4,8,16,32,64]

# **Explanation:**

For the prefix [1], the conversion array is [2] hence the score is 2 For the prefix [1, 1], the conversion array is [2, 2] hence the score is 4 For the prefix [1, 1, 2], the conversion array is [2, 2, 4] hence the score is 8 For the prefix [1, 1, 2, 4], the conversion array is [2, 2, 4, 8] hence the score is 16 For the prefix [1, 1, 2, 4, 8], the conversion array is [2, 2, 4, 8, 16] hence the score is 32 For the prefix [1, 1, 2, 4, 8, 16], the conversion array is [2, 2, 4, 8, 16, 32] hence the score is 64

#### **Constraints:**

- 1 <= nums.length <= 10<sup>5</sup>
- 1 <= nums[i] <= 10<sup>9</sup>

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