

907. Sum of Subarray Minimums

Description

Given an array of integers `arr`, find the sum of `min(b)`, where `b` ranges over every (contiguous) subarray of `arr`. Since the answer may be large, return the answer modulo `$10^9 + 7$` .

Example 1:

```
Input: arr = [3,1,2,4]
Output: 17
Explanation:
Subarrays are [3], [1], [2], [4], [3,1], [1,2], [2,4], [3,1,2], [1,2,4], [3,1,2,4].
Minimums are 3, 1, 2, 4, 1, 1, 2, 1, 1, 1.
Sum is 17.
```

Example 2:

```
Input: arr = [11,81,94,43,3]
Output: 444
```

Constraints:

- `$1 \leq \text{arr.length} \leq 3 * 10^4$`
- `$1 \leq \text{arr}[i] \leq 3 * 10^4$`

