## Description

As the ruler of a kingdom, you have an army of wizards at your command.

You are given a **0-indexed** integer array strength, where strength[i] denotes the strength of the i th wizard. For a **contiguous** group of wizards (i.e. the wizards' strengths form a **subarray** of strength), the **total strength** is defined as the **product** of the following two values:

- The strength of the weakest wizard in the group.
- The total of all the individual strengths of the wizards in the group.

Return the sum of the total strengths of all contiguous groups of wizards. Since the answer may be very large, return it modulo 109 + 7.

A **subarray** is a contiguous **non-empty** sequence of elements within an array.

## Example 1:

Input: strength = [1,3,1,2]
Output: 44
Explanation: The following are all the contiguous groups of wizards:
- [1] from [ 1,3,1,2] has a total strength of min([1]) \* sum([1]) = 1 \* 1 = 1
- [3] from [1, 3,1,2] has a total strength of min([3]) \* sum([3]) = 3 \* 3 = 9
- [1] from [1,3,1,2] has a total strength of min([1]) \* sum([1]) = 1 \* 1 = 1
- [2] from [1,3,1,2] has a total strength of min([2]) \* sum([2]) = 2 \* 2 = 4
- [1,3] from [ 1,3,1,2] has a total strength of min([1,3]) \* sum([1,3]) = 1 \* 4 = 4
- [3,1] from [1,3,1,2] has a total strength of min([1,2]) \* sum([1,2]) = 1 \* 3 = 3
- [1,3,1] from [ 1,3,1,2] has a total strength of min([1,3,1]) \* sum([1,3,1]) = 1 \* 5 = 5
- [3,1,2] from [1,3,1,2] has a total strength of min([1,3,1,2]) \* sum([3,1,2]) = 1 \* 6 = 6
- [1,3,1,2] from [ 1,3,1,2] has a total strength of min([1,3,1,2]) \* sum([1,3,1,2]) = 1 \* 7 = 7
The sum of all the total strengths is 1 + 9 + 1 + 4 + 4 + 4 + 3 + 5 + 6 + 7 = 44.

## Example 2:

Input: strength = [5,4,6]
Output: 213
Explanation: The following are all the contiguous groups of wizards:
- [5] from [ 5,4,6] has a total strength of min([5]) \* sum([5]) = 5 \* 5 = 25
- [4] from [5, 4,6] has a total strength of min([4]) \* sum([4]) = 4 \* 4 = 16
- [6] from [5,4,6] has a total strength of min([6]) \* sum([6]) = 6 \* 6 = 36
- [5,4] from [ 5,4,6] has a total strength of min([5,4]) \* sum([5,4]) = 4 \* 9 = 36
- [4,6] from [5, 4,6] has a total strength of min([4,6]) \* sum([4,6]) = 4 \* 10 = 40
- [5,4,6] from [ 5,4,6] has a total strength of min([5,4,6]) \* sum([5,4,6]) = 4 \* 15 = 60
The sum of all the total strengths is 25 + 16 + 36 + 36 + 40 + 60 = 213.

## **Constraints:**

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