211. 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 109 + 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

PROGRAM:-

```
def sumSubarrayMins(arr):
    MOD = 10**9 + 7
    stack = []
    arr = [0] + arr + [0]
    res = 0

    for i, val in enumerate(arr):
        while stack and arr[stack[-1]] > val:
            j = stack.pop()
            k = stack[-1]
            res += arr[j] * (i - j) * (j - k)

        stack.append(i)

    return res % MOD

# Example
arr = [3, 1, 2, 4]
print(sumSubarrayMins(arr))  # Output: 17
```

OUTPUT:-

TIME COMPLEXITY:-O(N)