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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:

≡ Problems

- $1 \leftarrow arr.length \leftarrow 3 * 10^4$
- $1 <= arr[i] <= 3 * 10^4$

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{} 1 ▼ public class Solution { 2 ▼ public int SumSubarrayMins(int[] a 3 var mod = 1e9+74 var n = arr.Length; 5 var smallToLeft = Enumerable.Repeat(-1,n) ; //TRack next smaller the left 6 var smallToRight = Enumerable.Repeat(n,n). //TRack next smaller in right 7 8 var stack = new Sta //Just track the index. strictly stores indexes decreasing values 9 ▼ for(int i=0;i<n;i++</pre> 10 ▼ while(stack.Cou arr[stack.Peek()]>arr[i val at top index is > a top's small to right is Repeat this 11 var top = stack.Pop(); 12 smallToRigh i; 13 14 if(stack.Count> smallToLeft[i] = stack. //If there is a top ind be i's small to the lef 15 stack.Push(i); 16 Your previous code was restored from y Testcase Run Code Result **Accepted** Runtime: 116 ms Your input [3,1,2,4]Output 17 Expected 17 Console -Use Example Testcase

▶ Run Code ^

Subm