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410. Split Array Largest Sum

Hard Topics Companies

Given an integer array nums and an integer k, split nums into k non-empty subarrays such that the largest sum of any subarray is **minimi**Return the minimized largest sum of the split.

A **subarray** is a contiguous part of the array.

Example 1:

Input: nums = [7,2,5,10,8], k = 2

Output: 18

Explanation: There are four ways to split nums into two subarrays.

The best way is to split it into [7,2,5] and [10,8], where the largest sum among the two subarrays i

Example 2:

Input: nums = [1,2,3,4,5], k = 2

Output: 9

Explanation: There are four ways to split nums into two subarrays.

The best way is to split it into [1,2,3] and [4,5], where the largest sum among the two subarrays is

Constraints:

- 1 <= nums.length <= 1000
- $0 \le \text{nums}[i] \le 10^6$
- 1 <= k <= min(50, nums.length)

Seen this question in a real interview before? 1/4

Yes No

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