410. Split Array Largest Sum

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 minimized.

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 is only 18.

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 only 9.

Constraints:

- 1 <= nums.length <= 1000
- 0 <= nums[i] <= 10^6
- 1 <= k <= min(50, nums.length)