Partition to K Equal Sum Subsets

Given an integer array nums and an integer k, return true if it is possible to divide this array into k non-empty subsets whose sums are all equal.

Example 1:

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

Output: true

Explanation: It is possible to divide it into 4 subsets (5), (1, 4), (2,3), (2,3) with equal sums.

Example 2:

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

Output: false

Constraints:

- 1 <= k <= nums.length <= 16
- 1 <= nums[i] <= 10⁴
- The frequency of each element is in the range [1, 4].