

DSAx30: The DSA Chronicles

Day 4

Question 1: Given an array `nums` and an integer `k`. Return **true** if there exist **subsequences** such that the sum of all elements in subsequences is equal to `k` else false.

Examples:

Input : `nums = [1, 2, 3, 4, 5]` , `k = 8`

Output : Yes

Explanation : The subsequences like `[1, 2, 5]` , `[1, 3, 4]` , `[3, 5]` sum up to 8.

Input : `nums = [4, 3, 9, 2]` , `k = 10`

Output : No

Explanation : No subsequence can sum up to 10.

Question 2: Given an integer array `nums` of unique elements, return all possible subsets (the power set).

The solution set must not contain duplicate subsets. Return the solution in any order.

Example:

Input: `nums = [1,2,3]`

Output: `[[],[1],[2],[1,2],[3],[1,3],[2,3],[1,2,3]]`

Input: `nums = [0]`

Output: `[[],[0]]`