

# 416. Partition Equal Subset Sum

## Difficulty : Medium

<https://leetcode.com/problems/partition-equal-subset-sum>

Given an integer array `nums`, return `true` *if you can partition the array into two subsets such that the sum of the elements in both subsets is equal* or `false` *otherwise*.

### Example 1:

**Input:** `nums = [1,5,11,5]`

**Output:** `true`

**Explanation:** The array can be partitioned as `[1, 5, 5]` and `[11]`.

### Example 2:

**Input:** `nums = [1,2,3,5]`

**Output:** `false`

**Explanation:** The array cannot be partitioned into equal sum subsets.

### Constraints:

- `1 <= nums.length <= 200`
- `1 <= nums[i] <= 100`