Problem 416: Partition Equal Subset Sum

Problem Information

Difficulty: Medium
Acceptance Rate: 48.97%
Paid Only: No
Tags: Array, Dynamic Programming

Problem Description

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`

Code Snippets

C++:

```
class Solution {
public:
bool canPartition(vector<int>& nums) {
```

```
    }
};
```

Java:

```
class Solution {
public boolean canPartition(int[] nums) {


}
}
```

Python3:

```
class Solution:
def canPartition(self, nums: List[int]) -> bool:
```