416. Partition Equal Subset Sum

Medium

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.

```
from typing import List
class Solution:
    def canPartition(self, nums: List[int]) -> bool:
        if sum(nums) % 2 != 0:
            return False
        target = sum(nums) // 2
        check = set()
        check.add(0)
        for i in range(len(nums) -1, -1, -1):
            next_check = set()
            for t in check:
                if (t + nums[i]) == target:
                   return True
                next_check.add(t + nums[i])
                next check.add(t)
            check = next check
        return False
```

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:

cheak = next_cheak