Partition Equal Subset Sum

Try to solve the Partition Equal Subset Sum problem.

We'll cover the following

Statement

Given a non-empty array of positive integers, determine if the array can be divided into two subsets so that the sum of both subsets is equal.

Constraints:

- $1 \leq$ `nums.length` ≤ 200
- $1 \leq$ `nums[i]` ≤ 100

Examples

Sample example 1

Input

1	3	7	3

Output

TRUE

The array can be partitioned as: [1, 3, 3] and [7].

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Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

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1 What is the output if the array [1, 2, 5, 2] is given as input?

A) TRUE

B) FALSE

Submit Answer

Question 1 of 4
0 attempted

Reset Quiz

Figure it out!

We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of how to solve this problem.

Drag and drop the cards to rearrange them in the correct sequence.

Create a matrix of appropriate size and initialize all cells with FALSE.

Place TRUE in the first row of the matrix.

Traverse the input array, element by element.

Fill the cells of matrix either TRUE or FALSE depending upon their inclusion in the subset sum.

The value present at the last row and last column indicates whether the array can be partitioned.

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Try it yourself

Implement your solution in the following coding playground.

Java

usercode > PartitionEqualSum.java

```java
import java.util.*;
public class PartitionEqualSum{
   public static boolean canPartitionArray(int[] arr) {
      // Write your code here

      return false;
   }
}
```

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Test Cases | Results

Case 1 | Case 2 | Case 3

Input #1

[3,1,1,2,2,1]

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Solution: N-th Tribona...

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Solution: Partition Equ...

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