

# 473. Matchsticks to Square

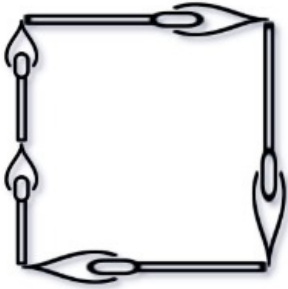
## Difficulty : Medium

<https://leetcode.com/problems/matchsticks-to-square>

You are given an integer array `matchsticks` where `matchsticks[i]` is the length of the  $i^{\text{th}}$  matchstick. You want to use **all the matchsticks** to make one square. You **should not break** any stick, but you can link them up, and each matchstick must be used **exactly one time**.

Return `true` if you can make this square and `false` otherwise.

### Example 1:



**Input:** `matchsticks = [1,1,2,2,2]`

**Output:** `true`

**Explanation:** You can form a square with length 2, one side of the square came two sticks with length 1.

### Example 2:

**Input:** `matchsticks = [3,3,3,3,4]`

**Output:** `false`

**Explanation:** You cannot find a way to form a square with all the matchsticks.

### Constraints:

- $1 \leq \text{matchsticks.length} \leq 15$
- $1 \leq \text{matchsticks}[i] \leq 10^8$