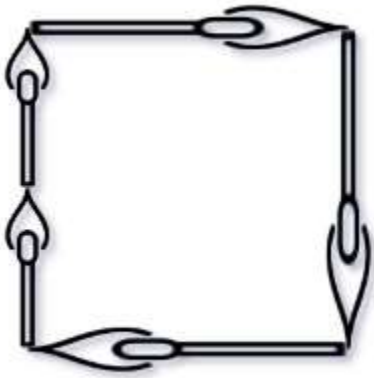


Matchsticks to Square

You are given an integer array matchsticks where matchsticks[i] is the length of the i^{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:

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