

473. Matchsticks to Square

Medium

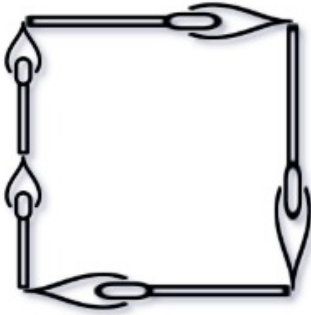
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 Hint

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 form a square. Each matchstick must be used exactly once. You are not allowed to break any stick into smaller sticks, or join two or more sticks to make a longer stick. 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 and one side came two sticks with length 2.

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:

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

Seen this question in a real interview before? 1/4

☒ Yes ☐ No

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 Hint 1

 Hint 2

 Hint 3

 Hint 4

 Hint 5

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