

# 1502. Can Make Arithmetic Progression From Sequence

## Description

A sequence of numbers is called an **arithmetic progression** if the difference between any two consecutive elements is the same.

Given an array of numbers `arr`, return `true` *if the array can be rearranged to form an **arithmetic progression**. Otherwise, return `false`.*

### Example 1:

**Input:** `arr = [3,5,1]`

**Output:** `true`

**Explanation:** We can reorder the elements as `[1,3,5]` or `[5,3,1]` with differences 2 and -2 respectively, between each consecutive elements.

### Example 2:

**Input:** `arr = [1,2,4]`

**Output:** `false`

**Explanation:** There is no way to reorder the elements to obtain an arithmetic progression.

### Constraints:

- `2 <= arr.length <= 1000`
- `-106 <= arr[i] <= 106`

