

PROBLEM: can-make-arithmetic-progression-from-sequence

<https://leetcode.com/problems/can-make-arithmetic-progression-from-sequence/submissions/>

Given an array of numbers `arr`. A sequence of numbers is called an arithmetic progression if the difference between any two consecutive elements is the same.

Return `true` if the array can be rearranged to form an arithmetic progression, otherwise, return `false`.

```
def canMakeArithmeticProgression(self, arr):
```

```
    lst = []
```

```
    arr.sort()
```

```
    for i in range(len(arr)-1):
```

```
        a = arr[i+1] - arr[i]
```

```
        lst.append(a)
```

```
    if len(set(lst)) == 1:
```

```
        return True
```

```
    else:
```

```
        return False
```

The screenshot shows the LeetCode submission page for the problem "Can Make Arithmetic Progression From Sequence". The page includes the problem description, a success message, and a table of submission statistics. The code editor shows the Python solution for the problem, and the test case results show that the solution is accepted.

Success Details >

Runtime: 28 ms, faster than 92.33% of Python online submissions for Can Make Arithmetic Progression From Sequence.

Memory Usage: 12.8 MB, less than 100.00% of Python online submissions for Can Make Arithmetic Progression From Sequence.

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Time Submitted	Status	Runtime	Memory	Language
a few seconds ago	Accepted	28 ms	12.8 MB	python

```
1 class Solution(object):
2     def canMakeArithmeticProgression(self, arr):
3         """
4         :type arr: List[int]
5         :rtype: bool
6         """
7         lst = []
8         arr.sort()
9         for i in range(len(arr)-1):
10             a = arr[i+1] - arr[i]
11             lst.append(a)
12         if len(set(lst)) == 1:
13             return True
14         else:
15             return False
16
17
```

Your previous code was restored from your local storage. [Reset to default](#)

Testcase Run Code Result Debugger

Accepted Runtime: 16 ms

Your input: `[3,5,1]`

Output: `true` [Diff](#)

Expected: `true`

Activate Windows
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