

Jewels and Stones

Ransom Note

Number Complement

First Unique Character in a ...

Majority Element

Cousins in Binary Tree

Week 2: May 8th–May 14th

Problems appear at midnight, Pacific Time

Check If It Is a Straight Line

Valid Perfect Square

Find the Town Judge

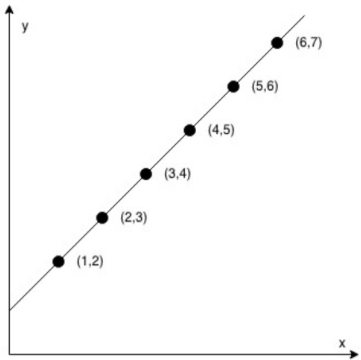
Flood Fill

Single Element in a Sorted ...

# Check If It Is a Straight Line

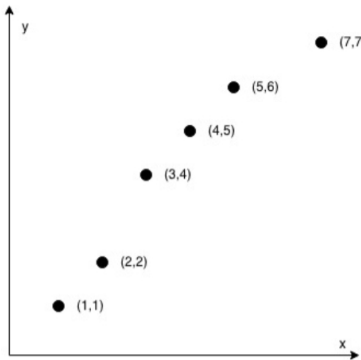
You are given an array `coordinates`, `coordinates[i] = [x, y]`, where `[x, y]` represents the coordinate of a point. Check if these points make a straight line in the XY plane.

Example 1:



Input: `coordinates = [[1,2],[2,3],[3,4],[4,5],[5,6],[6,7]]`  
Output: `true`

Example 2:



Input: `coordinates = [[1,1],[2,2],[3,4],[4,5],[5,6],[7,7]]`  
Output: `false`

Constraints:

- `2 <= coordinates.length <= 1000`
- `coordinates[i].length == 2`
- `-10^4 <= coordinates[i][0], coordinates[i][1] <= 10^4`
- `coordinates` contains no duplicate point.

Show Hint #1

Show Hint #2

Show Hint #3

Java

```
1 class Solution {
2     public boolean checkStraightLine(int[][] coordinates) {
3         if(coordinates.length<=2) return true;
4         // ...
5     }
6 }
```

```
4 float first=coordinates[0][0];
5 float second=coordinates[0][1];
6 float third=coordinates[1][0];
7 float fourth=coordinates[1][1];
8 float slope=(fourth-second)/(third-first);
9 for(int i=1;i<coordinates.length-1;i++){
10     float x1=(float)coordinates[i][0];
11     float y1=(float)coordinates[i][1];
12     float x2=(float)coordinates[i+1][0];
13     float y2=(float)coordinates[i+1][1];
14     float temp=(y2-y1)/(x2-x1);
15     if(temp!=slope)
16         return false;
17 }
18 return true;
19 }
20 }
```

☐ Custom Testcase ( [Contribute](#) )



Run Code

Submit