Problem 1232: Check If It Is a Straight Line

Problem Information

Difficulty: Easy
Acceptance Rate: 39.86%
Paid Only: No
Tags: Array, Math, Geometry

Problem Description

You are given an integer 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.

Code Snippets

C++:

```cpp
class Solution {
public:
bool checkStraightLine(vector<vector<int>>& coordinates) {


}
};
```

Java:

```java
class Solution {
public boolean checkStraightLine(int[][] coordinates) {


}
}
```

Python3:

```python
class Solution:
def checkStraightLine(self, coordinates: List[List[int]]) -> bool:
```