**Problem #1232: Check if it is a Straight Line (Easy)**

<https://leetcode.com/problems/check-if-it-is-a-straight-line/description/>

**My Solution:**

1. If the length of coordinates is less than 3, return True

If there are only 2 points, then a straight line exists.

1. Unpack coordinate at index 0 into x0 and y0.
2. Unpack coordinate at index 1 into x1 and y1.
3. Iterate through the list of coordinates from index 2 to the end.
4. Unpack each coordinate into x and y components.
5. Check whether (x - x0) \* (y0 - y1) is equal to (y - y0) \* (x0 - x1)

If not return False.

1. If we have iterated through the whole list and reached the end, then return True.

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class Solution:

def checkStraightLine(self, coordinates: List[List[int]]) -> bool:

if len(coordinates) < 3:

return True

x0, y0 = coordinates[0]

x1, y1 = coordinates[1]

for i in range(2, len(coordinates)):

x, y = coordinates[i]

if (x - x0) \* (y0 - y1) != (y - y0) \* (x0 - x1):

return False

return True