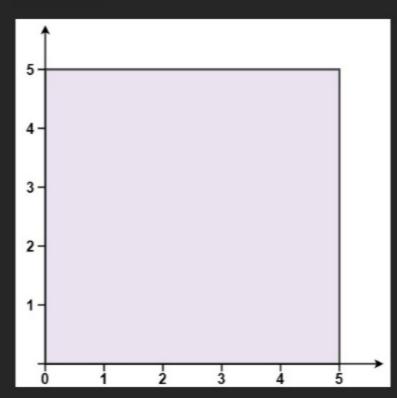
## 469. Convex Polygon Premium

You are given an array of points on the **X-Y** plane points where points [i] =  $[x_i, y_i]$ . The points form a polygon when joined sequentially.

Return true if this polygon is convex and false otherwise.

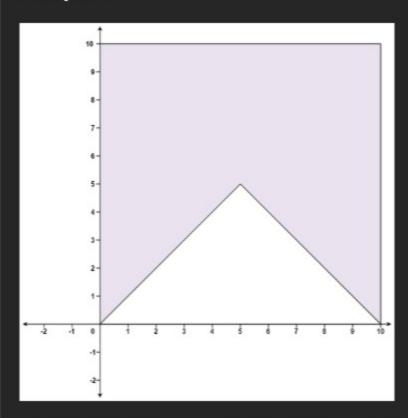
You may assume the polygon formed by given points is always a <u>simple polygon</u>. In other words, we ensure that exactly two edges intersect at each vertex and that edges otherwise don't intersect each other.

## Example 1:



Input: points = [[0,0],[0,5],[5,5],[5,0]]
Output: true

## Example 2:



Input: points = [[0,0],[0,10],[10,10],[10,0],[5,5]]
Output: false

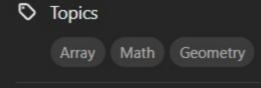
## Constraints:

- 3 <= points.length <= 10<sup>4</sup>
- points[i].length == 2
- $-10^4 <= x_i, y_i <= 10^4$
- All the given points are unique.

Seen this question in a real interview before? 1/5

Yes No

Accepted 11K Submissions 27.6K Acceptance Rate 39.7%



Companies

0 - 6 months Google 2

Discussion (1)