

Description

Solution

Submissions

Discuss (43)

Python

Autocomplete

469. Convex Polygon

Medium 68 183 Add to List Share

Given a list of points that form a polygon when joined sequentially, find if this polygon is convex (Convex polygon definition).

Note:

1. There are at least 3 and at most 10,000 points.
2. Coordinates are in the range -10,000 to 10,000.
3. You may assume the polygon formed by given points is always a simple polygon (Simple polygon definition). In other words, we ensure that exactly two edges intersect at each vertex, and that edges otherwise **don't intersect each other**.

Example 1:

```
[[0,0],[0,1],[1,1],[1,0]]
```

Answer: True

Explanation:

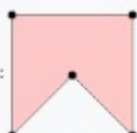


Example 2:

```
[[0,0],[0,10],[10,10],[10,0],[5,5]]
```

Answer: False

Explanation:



```
1 class Solution(object):
2     def isConvex(self, points):
3         """
4         :type points: List[List[int]]
5         :rtype: bool
6         """
7
```