

# 1274. Number of Ships in a Rectangle

## Description

(This problem is an *interactive problem*.)

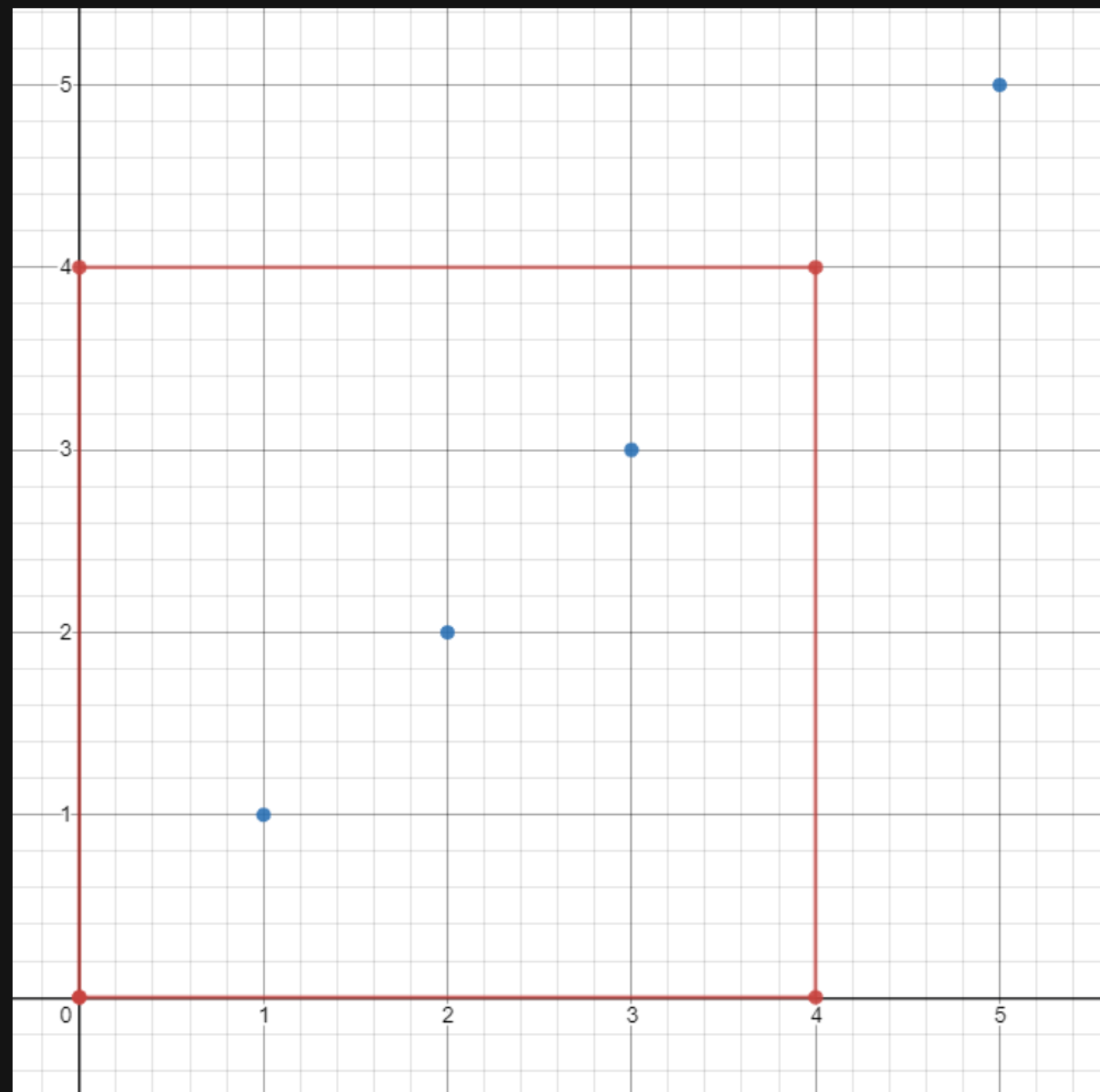
Each ship is located at an integer point on the sea represented by a cartesian plane, and each integer point may contain at most 1 ship.

You have a function `Sea.hasShips(topRight, bottomLeft)` which takes two points as arguments and returns `true` If there is at least one ship in the rectangle represented by the two points, including on the boundary.

Given two points: the top right and bottom left corners of a rectangle, return the number of ships present in that rectangle. It is guaranteed that there are **at most 10 ships** in that rectangle.

Submissions making **more than 400 calls** to `hasShips` will be judged *Wrong Answer*. Also, any solutions that attempt to circumvent the judge will result in disqualification.

### Example :



**Input:**  
`ships = [[1,1],[2,2],[3,3],[5,5]]`, `topRight = [4,4]`, `bottomLeft = [0,0]`  
**Output:** 3  
**Explanation:** From `[0,0]` to `[4,4]` we can count 3 ships within the range.

### Example 2:

**Input:** `ans = [[1,1],[2,2],[3,3]]`, `topRight = [1000,1000]`, `bottomLeft = [0,0]`  
**Output:** 3

### Constraints:

- On the input `ships` is only given to initialize the map internally. You must solve this problem "blindfolded". In other words, you must find the answer using the given `hasShips` API, without knowing the `ships` position.
- `0 <= bottomLeft[0] <= topRight[0] <= 1000`
- `0 <= bottomLeft[1] <= topRight[1] <= 1000`
- `topRight != bottomLeft`

