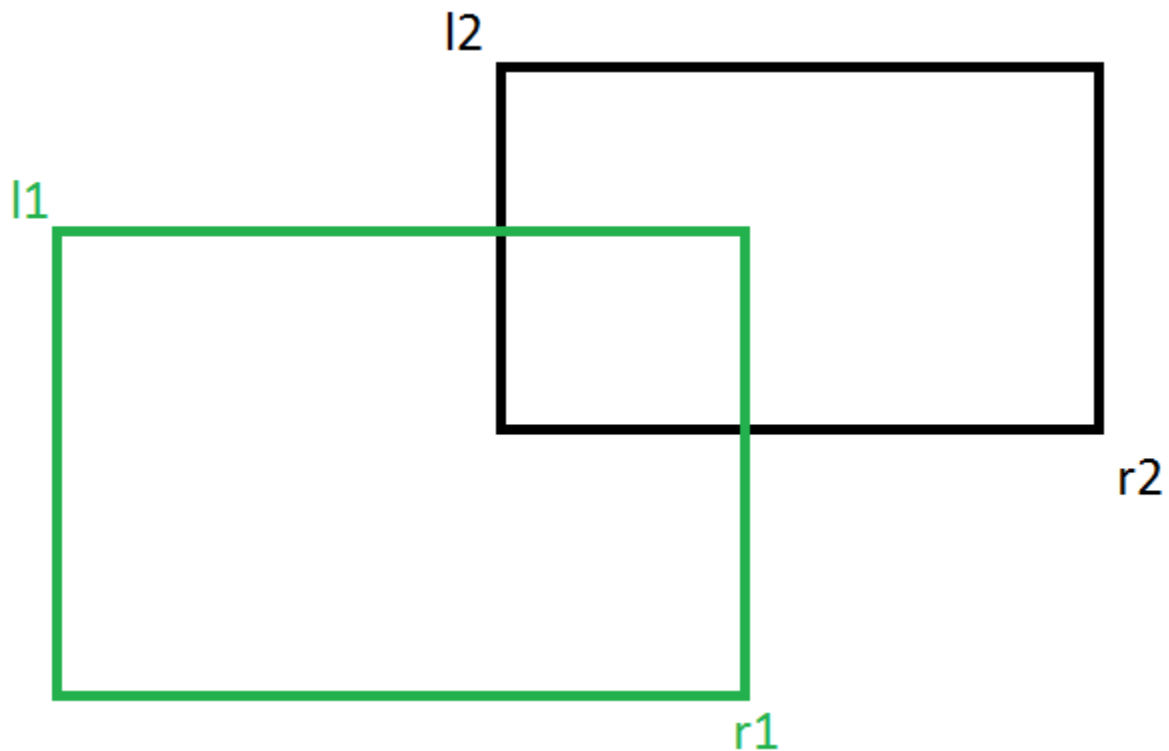


## Overlapping rectangles

Given two rectangles, find if the given two rectangles overlap or not. A rectangle is denoted by providing the x and y co-ordinates of two points: the left top corner and the right bottom corner of the rectangle.

Note that two rectangles sharing a side are considered overlapping.



### Input:

The first integer T denotes the number of test cases. For every test case, there are 2 lines of input. The first line consists of 4 integers: denoting the co-ordinates of the 2 points of the first rectangle. The first integer denotes the x co-ordinate and the second integer denotes the y co-ordinate of the left topmost corner of the first rectangle. The next two integers are the x and y

co-ordinates of right bottom corner. Similarly, the second line denotes the coordinates of the two points of the second rectangle.

### **Output:**

For each test case, output (either 1 or 0) denoting whether the 2 rectangles are overlapping. 1 denotes the rectangles overlap whereas 0 denotes the rectangles do not overlap.

### **Constraints:**

$$1 \leq T \leq 10$$

$$-10000 \leq x, y \leq 10000$$

T denotes the number of test cases. x denotes the x co-ordinate and y denotes the y co-ordinate.

### **Example:**

Input:

```
2
0 10 10 0
5 5 15 0
0 2 1 1
-2 -3 0 2
```

Output:

```
1
0
```