Disjoint rectangles X35459_en

Using the definitions

class *Point*:
"""attributes: x, y"""

class *Rectangle*:
"""attributes: width, height, corner"""

write a function

rectangle_disjoint(*r1*, *r2*)

that returns @True@ if a rectangle @r1@ and a rectangle @r2@ are disjoint (they do not share any point).

Input

The input consists of several pairs of rectangles (four non-negative integer numbers for each: the width, the height, and the coordinates of the lower-left corner).

Output

For each pair of rectangles, print whether or not they are disjoint.

Sample input 1

```
2 1 2 1    6 3 0 0
6 3 0 0    6 3 0 0
6 3 0 0    2 1 2 1
6 3 0 0    6 3 2 1
6 3 0 0    6 3 6 3
2 1 0 0    6 3 0 0
6 3 0 0    2 1 6 0
6 3 0 0    2 1 0 3
6 3 0 0    2 1 8 0
6 3 0 0    2 1 0 4
```

Sample output 1

```
False
False
False
False
False
False
False
False
True
True
```

Problem information

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