
Point in rectangle**X53379_en**

Using the definitions

class *Point*:

`"""attributes: x, y"""`

class *Rectangle*:

`"""attributes: width, height, corner"""`

write a function

point_in_rectangle(*p*, *r*)

that returns `@inside@` if a point *p* is inside a rectangle *r*, `@border@` if *p* lies on the boundary of *r*, and `@outside@` if *p* is outside *r*. For example, the point (50,100) is inside a rectangle of width 100, height 200, and lower-left corner (0,0), the point (100,200) lies on the boundary of the rectangle, and the point (200,300) is outside the rectangle.

Input

The input consists of several rectangles (four non-negative integer numbers: the width, the height, and the coordinates of the lower-left corner), each followed by a point (two non-negative integer numbers).

Output

For each rectangle and point, print `@inside@`, `@border@`, or `@outside@` according to the point being inside, on the boundary of, or outside the rectangle.

Sample input 1

```
100 200 0 0 50 100
100 200 0 0 0 0
100 200 0 0 100 0
100 200 0 0 0 200
100 200 0 0 100 200
100 200 0 0 200 0
100 200 0 0 0 300
100 200 0 0 200 300
```

Sample output 1

```
inside
border
border
border
border
outside
outside
outside
```

Problem information

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