S - Points in Rectangles

Given a list of rectangles and a list of points in the x-y plane, determine for each point which figures (if any) contain the point.

Input

There will be *N* rectangle descriptions, one per line, where $N \leq 10$. The first character will designate the type of figure ("r" for rectangle). This character will be followed by four real values designating the x, y coordinates of the upper left and lower right corners. The end of the list will be marked by a line containing an asterisk in column 1. The remaining lines will contain the x, y coordinates, one per line, of the points to be tested. The end of this list will be indicated by a point with coordinates 9999.9 9999.9; these values should not be included in the output. The test data will not contain any points falling on the edge of a rectangle.

Output

For each point to be tested, write a message of the form…

```
Point i is contained in figure j
```

…for each figure that contains that point. If the point is not contained in any figure, write a message of the form:

```
Point i is not contained in any figure
```

Points and figures should be numbered in the order in which they appear in the input.

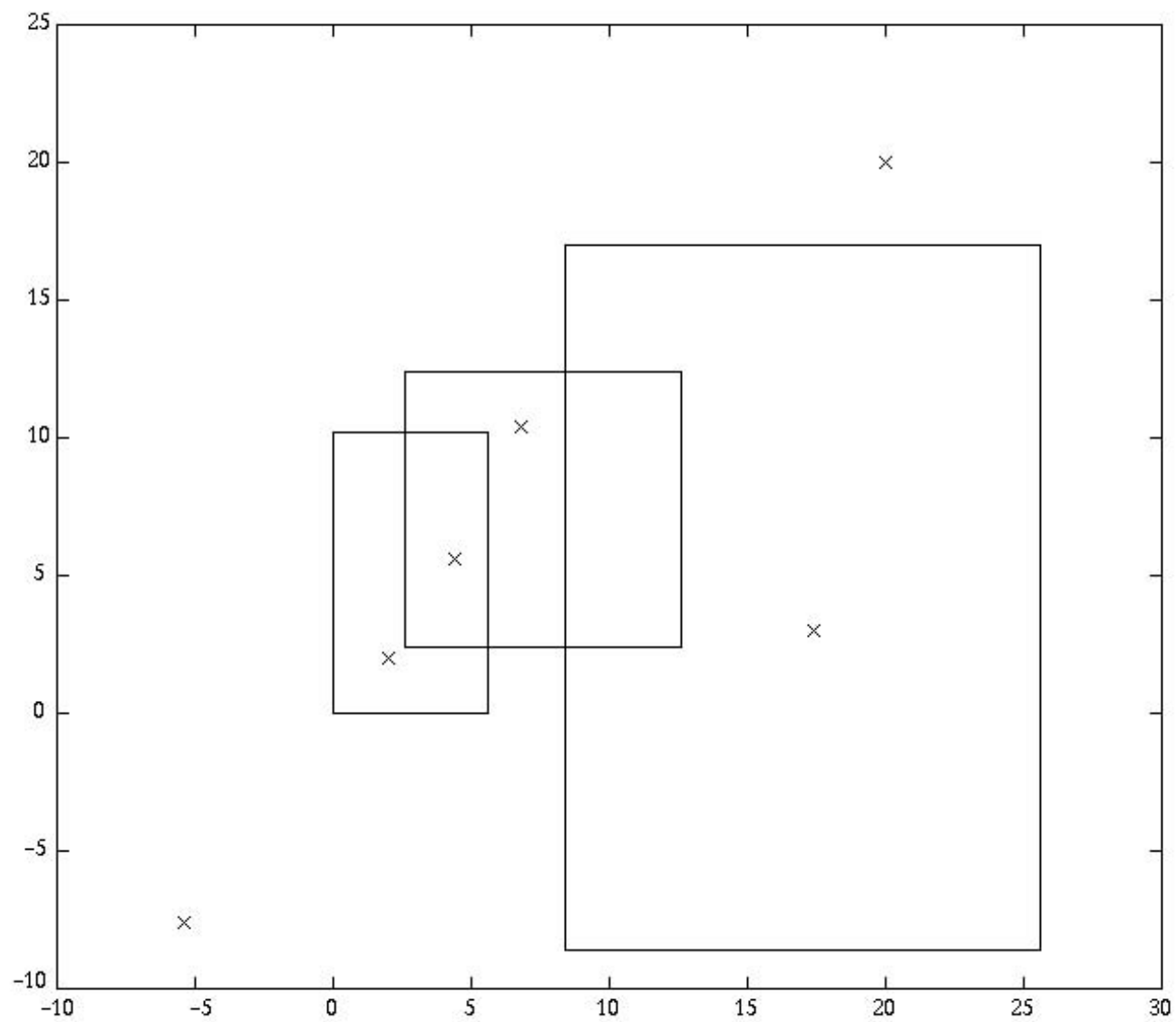| Sample Input	Sample Output

`r 8.5 17.0 25.5 -8.5`
`r 0.0 10.3 5.5 0.0`
`r 2.5 12.5 12.5 2.5`
`*`
`2.0 2.0`
`4.7 5.3`
`6.9 11.2`
`20.0 20.0`
`17.6 3.2`
`5.2 7.8`
`9999.9 9999.9`
	`Point 1 is contained in figure 2`
	`Point 2 is contained in figure 2`
	`Point 2 is contained in figure 3`
	`Point 3 is contained in figure 3`
	`Point 4 is not contained in any figure`
	`Point 5 is contained in figure 1`
	`Point 6 is not contained in any figure`

Please see the sample diagram on the next page

Diagram of sample input figures and data points