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The Virtual Learning Environment for Computer Programming

Rectange inclusion

X42222_en

Write a program that reads a sequence of rectangle pairs, and for each pair, states whether one rectangle fits inside the other. A rectangle *R*1 fits inside another *R*2 if the width of *R*1 is smaller or equal than the witdh of *R*2, and the same happens with its height. A rectangle *R*1 also may fit inside another *R*2 after rotating *R*1 90 degrees (i.e. exchanging its width and height)

Input

The input is a sequence of pairs of rectangles. Each rectangle in a pair is given as two integer numbers w,h corresponding to its width and height.

Output

The output is, for each pair of rectangles, whether the first rectangle fits inside the second, the second inside the first, or no fitting is possible. Follow the format of the examples.

11111
nput

2	8	7	1
5	2	3	6
4	5	5	3
2	9	6	1
3	7	6	2
5	3	9	1
3	8	8	3
1	5	6	4
7	1	6	2

Sample output

second inside first first inside second second inside first second inside first second inside first no fitting first inside second first inside second no fitting

Problem information

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Generation: 2024-10-04 15:18:05

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