

## Intersection

Say whether the two ranges of double numbers **a-b** and **c-d** included, intersect, (they have elements in common).

### Input

The first line contains the coordinates of the first number (a b).

The second line contains the coordinates of the second number (c d).

### Output

The first line contains INTERSECT or NOT INTERSECT.

### Sample input

### Sample output

3 4 4 3	INTERSECT
18 17 26 19	NOT INTERSECT
3 4 3 7	INTERSECT