

Tower Line of Sight Issue

Four towers A, B, C, D are to be erected. Tower A is to communicate with tower C. Tower B is to communicate with tower D.

Line of sight issue can occur under the following conditions

- when tower B or D is in the straight line connecting A and C
- when tower A or C is in the straight line connecting B and D

The program must accept the co-ordinates of all four towers and print yes or no depending on whether Line of sight issue will occur or not.

Input Format:

The first line will contain X and Y co-ordinates of tower A separated by a space.

The second line will contain X and Y co-ordinates of tower B separated by a space.

The third line will contain X and Y co-ordinates of tower C separated by a space.

The fourth line will contain X and Y co-ordinates of tower D separated by a space

Output Format:

The first line will contain yes or no (smaller case)

Boundary Conditions:

The value of the co-ordinates will be from -500 to 500.

Example Input/Output 1:

```
0 0
0 -2
2 0
0 2
```

Output:

yes

Example Input/Output 2:

Input:

```
0 0
0 -2
2 0
0 -5
```

Output:

no