

In Either Interval

oj.dcs.upd.edu.ph/problem/eitherinterval

Problem Statement

Scientists (?) predict that the sun will explode sometime between the years aa and bb inclusive. Your best friend (?) predicts that the sun will explode sometime between the years cc and dd inclusive.

If the sun explodes on year yy , will **either** the scientists or your best friend be right?

Task Details

Your task is to implement a function named `in_either_interval`, which should look like this:

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```
def in_either_interval(a, b, c, d, y):  
    return ...
```

Here, you only need to replace the `...` part with a **Python expression**.

The function must return a `bool` denoting the answer.

Your source code must have at most 100100 bytes.

Examples

Example 1 Function Call

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```
in_either_interval(2024, 2034, 2028, 2038, 2030)
```

Example 1 Return Value

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```
True
```

Example 2 Function Call

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```
in_either_interval(2024, 2034, 2028, 2038, 3000)
```

Example 2 Return Value

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```
False
```

Constraints

- The function `in_either_interval` will be called at most 10410^4 times.
- $1 \leq a \leq b \leq 10501 \leq a \leq b \leq 10^{50}$
- $1 \leq c \leq d \leq 10501 \leq c \leq d \leq 10^{50}$
- $1 \leq y \leq 10501 \leq y \leq 10^{50}$

Scoring

Note: New tests may be added and all submissions may be rejudged at a later time. (All future tests will satisfy the constraints.)

- You get 5050 ❤️ points if you solve all test cases where:
 - $a=c$ and $b=d$.
- You get 5050 ❤️ points if you solve all test cases where:
 - $b=c$
- You get 100100 ❤️ points if you solve all test cases.

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Clarifications

No clarifications have been made at this time.