

In Either Interval

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

Problem Statement

Scientists (?) predict that the sun will explode sometime between the years a and b inclusive. Your best friend (?) predicts that the sun will explode sometime between the years c and d inclusive.

If the sun explodes on year y , 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.
- $1 \leq a \leq b \leq 10^{50}$
- $1 \leq c \leq d \leq 10^{50}$
- $1 \leq y \leq 10^{50}$

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

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Clarifications

No clarifications have been made at this time.