

## 2-by-2 Rotation

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[oj.dcs.upd.edu.ph/problem/rotate2by2](https://oj.dcs.upd.edu.ph/problem/rotate2by2)

[Submit solution](#)

Points: 200 (partial)

Time limit: 4.0s

Memory limit: 1G

Author:

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Problem type

Allowed languages

NONE, py3

### Problem Statement

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Given a  $2 \times 22 \times 2$  matrix  $mm$  of integers, can you rotate it 9090 degrees clockwise?

### Task Details

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

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```
def rotate_clockwise(m):  
    return ...
```

Here, `m` is represented as a tuple of two rows, where each row is a tuple of two integers.

You only need to replace the `...` part with a **Python expression**.

The function must return a tuple of two length-22 tuples denoting the rotated matrix.

Your source code must have at most 150150 bytes.

## Examples

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### Example 1 Function Call

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```
rotate_clockwise(((1, 2), (3, 4)))
```

### Example 1 Return Value

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```
((3, 1), (4, 2))
```

## Constraints

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- The function `rotate_clockwise` will be called at most  $10^4$  times.
- $mm$  is a  $2 \times 2 \times 2$  matrix.
- Each element of  $mm$  is an integer between  $-10^{20}$  and  $10^{20}$  inclusive.

## Scoring

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**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:
  - All elements in  $mm$  are the same.
- You get 5050 ❤️ points if you solve all test cases where:
  - $mm$  has exactly two unique elements.
- You get 100100 ❤️ points if you solve all test cases.

[Report an issue](#)

## Clarifications

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No clarifications have been made at this time.