[CS 11 25.1] HOPE 1 C1 – Tick Tock

Cheatsheet is available here: https://oj.dcs.upd.edu.ph/cs11cheatsheet/

Problem Statement

You're trapped in a room.

You see a broken clock on the floor, as well as a note beside it:

"Make the hour hand overlap with the minute hand, but do so in such a way that the hour hand moves as little as possible. Only the hour hand is movable."

The clock currently shows $h : m$. Should you turn the hour hand clockwise, counterclockwise, or will either work?

Task Details

Your task is to implement a function named `turn`. This function has two parameters: h and m. Both of these are integers.

The function must return a string that is either `CW`, `CCW`, or `EITHER`, indicating which direction you should turn the hour hand in.

Restrictions

- Recursion is **disallowed**.
- Comprehensions are **disallowed**.
- Your source code must have at most 350 bytes.

Examples

Example 1 Function Call

```
turn(1, 30)
```

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Example 1 Return Value

```
"CW"
```

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Example 2 Function Call

```
turn(1, 45)
```

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Example 2 Return Value

```
"CCW"
```

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Example 3 Function Call

```
turn(6, 0)
```

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Example 3 Return Value

```
"EITHER"
```

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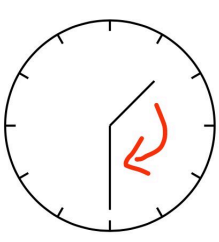
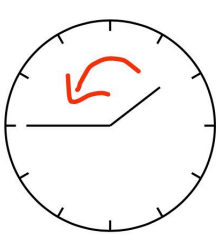
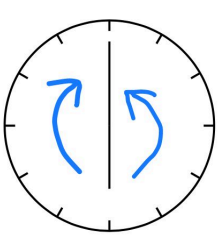
Example Visualizations



$h = 1, m = 30$



$h = 1, m = 45$



$h = 6, m = 0$

Constraints

- The function `turn` will be called at most 2000 times.
- $1 \leq h \leq 12$
- $0 \leq m < 60$

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 75 ❤️ points if you solve all test cases where:
  - $m = 0$
- You get 50 ❤️ points if you solve all test cases where:
  - m is divisible by 30.
- You get 35 ❤️ points if you solve all test cases where:
  - m is divisible by 15.
- You get 20 ❤️ points if you solve all test cases.

Submit solution [CS 11 25.1] HOPE 1

My submissions

Points: 180 (partial)

Time limit: 12.0s

Memory limit: 2G

Problem type

Allowed languages
py3

Clarifications

Report an issue

No clarifications have been made at this time.