[CS 11] Prac 1d – Rednow Eivets

oj.dcs.upd.edu.ph/problem/cs11prac1d

Problem Statement

Rednow Eivets has an amazing ability: he can play a piece of music even if the notes are all reversed!

Today, Eivets has given us a piece of music sheet containing the notes to play a new song he's writing. (Don't ask how he can read it.) The music sheet consists of a sequence of *measures*, and each measure consists of a sequence of *notes*.

However, the notes in each measure are reversed, and the measures themselves are reversed!

Unlike Rednow, we are just mortal beings, so we cannot read in reverse. Please help us recover the original music sheet!

For the purposes of this problem, we represent a note as a positive integer.

Task Details

Your task is to implement a function called `fix_music`. This function receives a single `tuple` argument denoting the sequence of measures. Each measure in turn is represented by a `tuple` of notes. Finally, each note is represented by an `int`.

The function must return a value of the same type as the input, but with each measure reversed, and all the measures themselves are reversed.

Restrictions

For this problem:

- Assignment is allowed.
- Recursion is allowed.
- Up to 66 function definitions are allowed.
- Comprehensions are **disallowed**.
- `range` is **disallowed**.
- The `abs` symbol is now allowed.

- The source code limit is 10001000.

Example Calls

Example 1 Function Call

Copy

```
fix_music(((3, 1, 4), (1, 5)))
```

Example 1 Return Value

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```
((5, 1), (4, 1, 3))
```

Example 2 Function Call

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```
fix_music(((1, 2, 3), (4, 5), (6, 7, 8, 9)))
```

Example 2 Return Value

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```
((9, 8, 7, 6), (5, 4), (3, 2, 1))
```

Constraints

- The function `fix_music` will be called at most 1,0001,000 times.
- In each function call, there are at most 1616 measures.
- Each measure has at most 1616 notes.
- Each note is represented by an integer between 11 and 100100, inclusive.

Scoring

- You get 100100 ❤️ points if you solve all test cases where:
  - Each measure contains at least one note.
- You get 5050 ❤️ points if you solve all test cases.

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Clarifications

No clarifications have been made at this time.