[CS 11] Prac 1k – Book Worm

oj.dcs.upd.edu.ph/problem/cs11prac1k

Submit solution
My submissions
Points: 180 (partial)

Time limit: 4.0s

Memory limit: 1G

Author:
kvatienza (Kevin Atienza)
Problem type

Allowed languages

~~NONE~~, py3

Problem Statement

On day dd, you have begun a new hobby: reading!

You have several books in your pipeline. Your plan is to read exactly one book per day, starting on day dd.

For each book, can you tell which day you'll read it?

Task Details

Your task is to implement **two functions**: called `enumerate_from` and `enumerate_from_0`.

The `enumerate_from` function takes in two arguments `books` and `d`:

- `books` is a `tuple` of `str`s denoting the sequence of books you want to read.
- `d` is an `int` whose meaning is described in the problem statement.

The function must return a `tuple` of pairs. The iith pair must consist of:

- The day you'll read the book `books[i]`, assuming you start reading at day dd.

- The name of the book `books[i]` itself.

The `enumerate_from_0` function solves a special case of `enumerate_from` where you start at day d=0$d = 0$. It takes in a single argument `books`, a `tuple` of `str`s denoting the sequence of books you want to read and must return a `tuple` of pairs analogous to the return value of `enumerate_from`.

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

```
enumerate_from_0(('SICP', 'CTMCP', 'CLRS'))
```

Example 1 Return Value

Copy

```
(
    (0, 'SICP'),
    (1, 'CTMCP'),
    (2, 'CLRS'),
)
```

Example 2 Function Call

Copy

```
enumerate_from(('SICP', 'CTMCP', 'CLRS'), 5)
```

Example 2 Return Value

Copy

```
(
    (5, 'SICP'),
    (6, 'CTMCP'),
    (7, 'CLRS'),
)
```

Constraints

- The functions`enumerate_from_0` and `enumerate_from` will be called at most 100 100 times overall.
- `books` will have between 11 and 2525 elements.
- Each element of `books` is a string with length at most 5050, and it consists of letters and digits only.
- |d|≤1050 | d | $\leq 10^{50}$.

Scoring

- You get 7070 ❤️ points if you solve all test cases where:
  - Only `enumerate_from_0` is called.
- You get 7070 ❤️ points if you solve all test cases where:
  - Only `enumerate_from` is called.
- You get 4040 ❤️ points if you solve all test cases.

Report an issue

Clarifications

No clarifications have been made at this time.