

[CS 11] Prac 1m – Path Partition

oj.dcs.upd.edu.ph/problem/cs11prac1m

[Submit solution](#)

Points: 125 (partial)

Time limit: 4.0s

Memory limit: 1G

Author:

[kvatienda \(Kevin Atienza\)](#)

Problem type

Allowed languages

NONE, py3

Problem Statement

Given a folder path such as `Desktop/games/Minesweeper` represented as a single string, please extract the individual folders in this path.

Task Details

Your task is to implement a function called `split_path`. This function has a single `str` parameter denoting the folder path.

The function must return a `tuple` of `strs` denoting the sequence of folder names in order from outermost to innermost. The folder names are separated by `/` (forward slash).

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.
- Some methods of `strs` are **disallowed**, including `.split()`, `.splitlines()`, and `.replace()`. (If you don't know what these are, you may simply ignore this note.)
- The source code limit is 10001000.

Example Calls

Example 1 Function Call

Copy

```
split_path('Desktop/games/Minesweeper')
```

Example 1 Return Value

Copy

```
('Desktop', 'games', 'Minesweeper')
```

Example 2 Function Call

Copy

```
split_path('.ssh')
```

Example 2 Return Value

Copy

```
('ssh',)
```

Example 3 Function Call

Copy

```
split_path('please...do /NOT/ use spaces in file/folder names 0__o')
```

Example 3 Return Value

Copy

```
(  
    'please...do ',  
    'NOT',  
    ' use spaces in file',  
    'folder names 0_o',  
)
```

Constraints

- The function `split_path` will be called at most 5,0005,000 times.
- The argument is between 11 and 6060 characters long and consists of letters, digits, underscores, spaces, dots and slashes only. Also, it doesn't start or end with `/` and it doesn't contain two consecutive `/s`.

Scoring

- You get 100100 ❤ points if you solve all test cases where:
 - The input doesn't contain spaces.
- You get 2525 ❤ points if you solve all test cases.

[Report an issue](#)

Clarifications

No clarifications have been made at this time.