

[CS 11 25.1] Mock HOPE 2h – Maize Maze

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

Problem Statement

Mr. Cornetto has a maize maze, and he wants a nice diagram illustrating it!

You are given the top view of the maize maze in a format like the following:

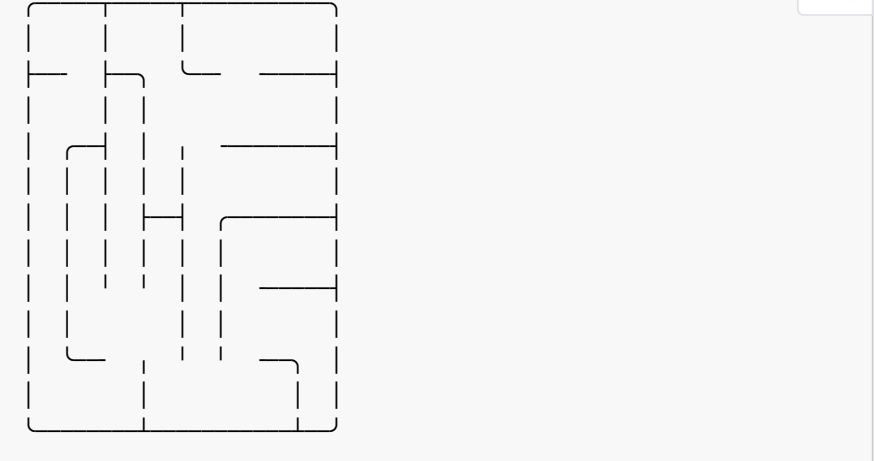
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```
#####
#  #  #      #
### ### ### #####
#  #  #      #
# ### # # #####
# # # # #      #
# # # ### #####
# # # # # #    #
# # # # # # #####
# #      # #    #
# ### # # # ### #
#      #      # #
#####
```

Mr. Cornetto asks you to redraw it using *box-drawing characters* that can form natural segments and bends.

For example, for the given maze above, the expected output is the following:

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Note that the maze has resized a bit, and natural bends and branches in the walls are represented by the appropriate box-drawing characters.

Here are all the characters that you will need to draw the output maze:

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```
⊥
┌┐
└┘
┌─┐
└─┘
┌─┴─┐
└─┬─┘
┌─┴─┐
└─┬─┘
```

The last four characters are used as the "tail end" of a wall that stops somewhere inside the maze. Also, \oplus is for corners where four walls meet.

Note that the vertical bar character above (\oplus) is not the same as the pipe character in your keyboard!

Task Details

Your task is to implement a function called `redraw_maze_in_a_nice_way`. This function has a single parameter: a `tuple` of `str`'s representing an $r \times c$ grid, which illustrates a maze.

The function must not return anything. Instead, it must `print` several lines illustrating the output grid. The function must not output leading or trailing spaces, or blank lines.

Restrictions

Note that some names are banned.

For this problem:

- Loops and lists are allowed.
- Sets and dictionaries are allowed.
- Generators and comprehensions are allowed.
- Recursion is **disallowed**. (The recursion limit has been greatly reduced.)
- Up to 32 function definitions are allowed.
- `print` is allowed.
- The source code limit is 5000.

Example Calls

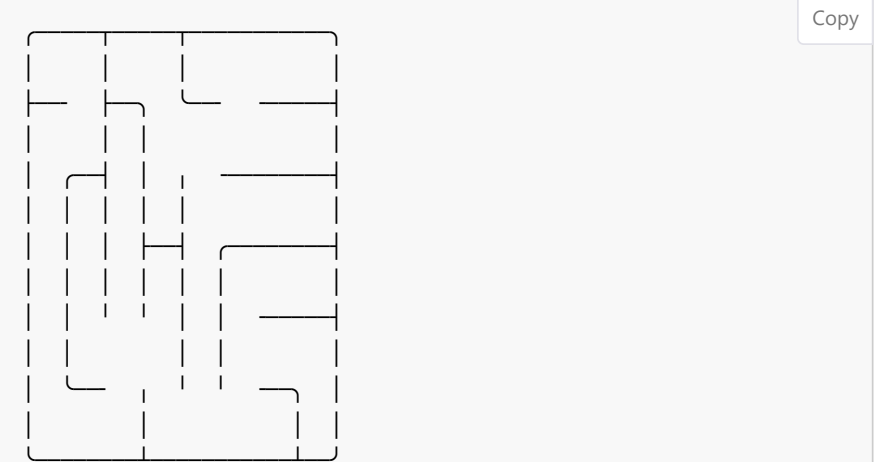
Example 1 Function Call

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```
redraw_maze_in_a_nice_way((
    "#####",
    "#  #  #      #",
    "### ### ### #####",
    "#  #  #      #",
    "# ### # # #####",
    "# # # # #      #",
    "# # # ### #####",
    "# # # # # #    #",
    "# # # # # # #####",
    "# #      # #    #",
    "# ### # # # ### #",
    "#      #      # #",
    "#####",
))
```

Example 1 Output

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Constraints

- The function `redraw_maze_in_a_nice_way` will be called at most 20 times.
- $3 \leq r, c \leq 75$
- The input is a valid maze.

Scoring

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

- You get 160 ● points if you solve all test cases.

Clarifications

Report an issue

No clarifications have been made at this time.

Submit solution

[CS 11 25.1] Mock HOPE 2

My submissions

✓ Points: 160 (partial)

⌚ Time limit: 4.0s

📊 Memory limit: 1G

📄 Author: dlko ()

➤ Problem type

▼ Allowed languages NONE, py3