This is CS50x

OpenCourseWare

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Mario



Implement a program that prints out a half-pyramid of a specified height, per the below.

```
$ ./mario
Height: 4
#
##
###
####
```

Specification

- Write, in a file called mario.py in ~/pset6/mario/less/, a program that recreates the half-pyramid using hashes (#) for blocks, exactly as you did in Problem Set 1, except that your program this time should be written (a) in Python and (b) in CS50 IDE.
- To make things more interesting, first prompt the user with get_int for the half-pyramid's height, a positive integer between 1 and 8, inclusive.
- If the user fails to provide a positive integer no greater than 8, you should re-prompt for the same again.
- Then, generate (with the help of print and one or more loops) the desired half-pyramid.
- Take care to align the bottom-left corner of your half-pyramid with the left-hand edge of your terminal window.

Usage

Your program should behave per the example below.

```
$ ./mario
Height: 4
#
##
###
####
```

Testing

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- Run your program as python mario.py and wait for a prompt for input. Type in -1 and press enter. Your program should reject this input as invalid, as by re-prompting the user to type in another number.
- Run your program as python mario.py and wait for a prompt for input. Type in 0 and press enter. Your program should reject this input as invalid, as by re-prompting the user to type in another number.
- Run your program as python mario.py and wait for a prompt for input. Type in 1 and press enter. Your program should generate the below output. Be sure that the pyramid is aligned to the bottom-left corner of your terminal, and that there are no extra spaces at the end of each line.

#

• Run your program as python mario.py and wait for a prompt for input. Type in 2 and press enter. Your program should generate the below output. Be sure that the pyramid is aligned to the bottom-left corner of your terminal, and that there are no extra spaces at the end of each line.

##

• Run your program as python mario.py and wait for a prompt for input. Type in 8 and press enter. Your program should generate the below output. Be sure that the pyramid is aligned to the bottom-left corner of your terminal, and that there are no extra spaces at the end of each line.

• Run your program as python mario.py and wait for a prompt for input. Type in 9 and press enter. Your program should reject this input as invalid, as by re-prompting the user to type in another number. Then, type in 2 and press enter. Your program should generate the below output. Be sure that the pyramid is aligned to the bottom-left corner of your terminal, and that there are no extra spaces at the end of each line.

##

- Run your program as python mario.py and wait for a prompt for input. Type in foo and press enter. Your program should reject this input as invalid, as by re-prompting the user to type in another number.
- Run your program as python mario.py and wait for a prompt for input. Do not type anything, and press enter. Your program should reject this input as invalid, as by re-prompting the user to type in another number.

How to Submit

Execute the below, logging in with your GitHub username and password when prompted. For security, you'll see asterisks (*) instead of the actual characters in your password.

submit50 cs50/problems/2020/x/sentimental/mario/less