1/25/2020 Mario - CS50 Lab

Mario

World 1-1

Toward the beginning of World 1-1 in Nintendo's Super Mario Brothers, Mario must hop over adjacent pyramids of blocks, per the below.



Let's recreate those pyramids in C, albeit in text, using hashes (#) for bricks, a la the below. Each hash is a bit taller than it is wide, so the pyramids themselves are also be taller than they are wide.

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

The program we'll write will be called mario. And let's allow the user to decide just how tall the pyramids should be by first prompting them for a positive integer between, say, 1 and 8, inclusive.

Here's how the program might work if the user inputs 8 when prompted:

Here's how the program might work if the user inputs 4 when prompted:

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

Here's how the program might work if the user inputs 2 when prompted:

```
$ ./mario
Height: 2
    # #
## ##
```

And here's how the program might work if the user inputs 1 when prompted:

```
$ ./mario
Height: 1
# #
```

If the user doesn't, in fact, input a positive integer between 1 and 8, inclusive, when prompted, the program should re-prompt the user until they cooperate:

Notice that width of the "gap" between adjacent pyramids is equal to the width of two hashes, irrespective of the pyramids' heights.

Modify mario.c at right in such a way that it implements this program as described!