

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:

```
$ ./mario
Height: 8
# #
## ##
### ###
#### ####
##### #####
##### #####
##### #####
##### #####
##### #####
```

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

```
$ ./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:

```
$ ./mario
Height: -1
Height: 0
Height: 42
Height: 50
Height: 4
# #
## ##
### ###
#### ####
```

Notice that width of the "gap" between adjacent pyramids is equal to the width of two hashes, irrespective of the pyramids' heights. Also note that there shouldn't be any spaces to the right of the pyramid.

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

Staff's Solution

How to Test Your Code

Does your code work as prescribed when you input

- `-1` (or other negative numbers)?
- `0` ?
- `1` through `8` ?
- `9` or other positive numbers?
- letters or words?
- no input at all, when you only hit Enter?

Next

How to Submit

Execute the below. logging in with your GitHub username and password when prompted.

execute the binary, 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/2019/x/mario/more
```

You can then go to <https://cs50.me/cs50x> to view your current scores!