

and respond with “y” followed by Enter at the prompt to remove the ZIP file you downloaded.

Now type

```
cd mario-more
```

followed by Enter to move yourself into (i.e., open) that directory. Your prompt should now resemble the below.

```
mario-more/ $
```

If all was successful, you should execute

```
ls
```

and see a file named `mario.c`. Executing `code mario.c` should open the file where you will type your code for this problem set. If not, retrace your steps and see if you can determine where you went wrong!

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.

Open your `mario.c` file to implement this problem as described!

Walkthrough



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?

You can also execute the below to evaluate the correctness of your code using `check50`. But be sure to compile and test it yourself as well!

```
check50 cs50/problems/2022/x/mario/more
```

Execute the below to evaluate the style of your code using `style50`.

```
style50 mario.c
```

How to Submit

In your terminal, execute the below to submit your work.

```
submit50 cs50/problems/2022/x/mario/more
```

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