Discussion of Problem 1

Spaces

The spaces for the vertical lines for each number increase by “size plus one” (size + 1).

This is what that means:

Depending on how large the displayed number needs to be, the number of spaces next to the vertical lines should increase to (size plus one) to match.

For example, let’s say the size you enter for the displayed numbers is 3.

The displayed number 1 would look like this:

|

|

|

|

|

|

This displayed number 1 looks fine, right?

However, when you create the displayed number 2, the number of spaces from the start of the line and the vertical right line would be **3** spaces, which would make the number 2 look like this:

* - -

**|**

**|**

**|**

* - -

|

|

|

* - -

**This isn’t right.**

Therefore we need (size + 1) spaces – in order to *push the vertical right line to the correct place*:

* - -

|

|

|

* - -

|

|

|

* - -