Solution Review: Magnify a Slice

This lesson discusses the solution to the challenge given in the previous lesson.

```
package main
                                                                                        6
import "fmt"
var s []int
func main() {
        s = []int{1, 2, 3}
        fmt.Println("The length of s before enlarging is:", len(s))
        fmt.Println(s)
        s = enlarge(s, 5)
                               // calling function to magnify
        fmt.Println("The length of s after enlarging is:", len(s))
        fmt.Println(s)
func enlarge(s []int, factor int) []int {
                                                        // making a new slice of length len(s
       ns := make([]int, len(s) * factor)
        copy(ns, s)
                      // copying contents from s to new slice
        return ns
                                                                           Magnify a Slice
```

In the code above, look at the header for function enlarge at line 15: funcenlarge(s []int, factor int) []int. It takes a slice s that needs to be magnified, and a factor to decide the length of a magnified slice as len(s)*factor. In the next line, we make a new slice ns with the make function of length len(s)*factor as required. The slice ns will contain the len(s)*factor number of zeros. At line 17, we copy all the contents from the original slice s to ns. That means the first len(s) number of zeros in ns will be replaced by values in s, index by index. At last, we are returning ns, the magnified slice.

Now, look at the main function. At **line** 7, we declare a slice s with some values in it. At **line** 8, we print the length of s before magnifying it, and in the next line we print s. Now we call the enlarge function for s at **line 10** and

store the result in s. At line 11, we print the length of magnified s, and in the next line, we print magnified s, to verify that s is magnified by len(s)*factor.

That's it about the solution. In the next lesson, you'll attempt another challenge.