

**Software Maintenance, ESOF 326, Spring 2020**  
**Quiz for assignment 3 grade, Jan. 31**

1. In Go, write the import statement needed in the file containing a main() function for the following situation. The main() function needs to invoke myfunc(), which resides in the file myfile.go which is within the package/directory, mypackage. All of the files are located within the GOPATH and the mypackage directory is at the same level as the file containing the main() function. (3 pts.)

```
import (  
    "mypackage"  
)
```

2. In Go, write the definition of a function called "count" which takes a string and returns the number of characters in the string. (Feel free to use "len(s)" for the length of string s, and to use a regular or a naked return.) (3 pts.)

Regular return:

```
func count(s string) int {  
    return len(s)  
}
```

Naked return:

```
func count(s string) (c int) {  
    c = len(s)  
    return  
}
```

3. Tell how to compile and run the following Go program in **experiment.go** (2 pts.)

```
package main

import (
    "fmt"
)

/* Print hello */
func main() {
    fmt.Println("Hello world!")
}

go run experiment.go
```

4. For s = "0123456789", what is j when i is 3 in the following code? (2 pts.)

```
r := []rune(s)
for i, j := 0, len(r)-1; i < len(r)/2; i, j = i+1, j-1 {
    r[i], r[j] = r[j], r[i]
}
```

Loop runs for i=0, j=9  
i=1, j=8  
i=2, j=7  
i=3, j=6  
i=4, j=5  
j=6