

PL190 μ Introduction to the Go Programming Language

Quizz 2: Go compiler errors

This assessment evaluates the following competencies:

- GP001 – Correctly use the syntax of Go programming (+1)
- GP401 – Understand basic Go compiler errors and warnings and fix the code accordingly (+1)

Given the following Go program and the result printed on the console when trying to compile it, you have to answer the following questions to get the stars for the two assessed competencies.

```
1 package main
2
3 import "fmt"
4
5 func sum(n int) {
6     if n < 0 {
7         return -1
8     }
9     result := 0
10    for i := 1; i <= n; i++ {
11        result += i
12    }
13    return result
14 }
15
16 func main() {
17     const N = 5
18     fmt.Println("1 + 2 + ... + 5 =", sum(N))
19 }
```

```
> go build
# ./tmp/work/test-go
./main.go:7:3: too many arguments to return
    have (number)
    want ()
./main.go:13:2: too many arguments to return
    have (int)
    want ()
./main.go:18:38: sum(N) used as value
```

What is the cause of the compilation error? Explain.

What do you need to fix in the code for it to compile and compute the right thing? Explain.