2021-07-08 @ Ocado, Sofia

The Pub Quizz Strikes Back

The rules!

- Teams of up to 4.
- Every question is worth points, some questions have bonus points.
- Tools are mostly allowed, but your teammates are the best tools.
- There will be PRIZES….eventually.

01.

DO YOU KNOW GO?

- GO is written in Go. How many lines of Go does Go currently have?

CLOSEST (to the random number I came up with) WINS

02. All About Defer

```go
package main

import "fmt"

func outside() func() {
    fmt.Println("in p")
    return func() {
        fmt.Println("in c")
    }
}

func main() {
    fmt.Println("1")
    defer outside()()
    fmt.Println("2")
}
```

a) 1 -> in p -> 2 -> in c

b) 1 -> 2 -> in c

c) 1 -> 2 -> in p -> in c

We want to build a by string key dictionary for deduplication. What would YOU use? (literally a question that tells you you are wrong)

a) map[string]bool
b) map[string]struct{}
c) Dictionaries are for people with low self eastem, I will do it with an array.

What is the initial allocation stack for a goroutine?

a) 2kb
b) 8kb
c) 16kb
d) 32kb

Bonus point:Has it changed? Why?

05. Maps are the best

```go
package main

import "fmt"

func sliceYolo(yoloSlice []string) {
    yoloSlice = append(yoloSlice, "we", "yolo")
}

func mapYolo(yoloMap map[string]string) {
    yoloMap["we"] = "yolo"
}

func main() {
    yoloSlice := []string{"i", "yolo"}
    sliceYolo(yoloSlice)
    fmt.Printf("Slice: %v\n", yoloSlice)
    yoloMap := map[string]string{
        "i": "yolo",
    }
    mapYolo(yoloMap)
    fmt.Printf("Map: %v\n", yoloMap)
}
```

a) [i yolo we yolo] map[i:yolo]

b) [i yolo] map[i:yolo]

c) [i yolo] map[i:yolo we:yolo]

d) [i yolo we yolo] map[i:yolo we:yolo]

So, how many blocked can be run on THIS laptop before it crashes?

a) 1 - 10000
b) 10000 - 100000
c) 100000 - 500000
d) > 500000
e) At least 2 (tm)

07. What happens here?

```go
package main

import "fmt"

func isTrue(notTrue bool) (true bool) {
    true = false
    notTrue = true
    return notTrue
}

func main() {
    fmt.Println(isTrue(true))
}
```

a) This better not compile

b) true

c) false

d) I’m proud that I don’t know

Bonus: WHY?

What place is Go at in the most loved programming language ranking for the last year?

No tools allowed!

09. Type signatures are great

```
func <wut>(name string, other string, ...func(*Me))
```

I am a function, what would you call me?

Bonus point: What's up with my sig?

10. LAST. CHANCE. UNIVERSITY.

```go
import (
    "fmt"
)

func main() {
    var bytes *byte
    var interass interface{}

    fmt.Println(bytes == nil)
    interass = bytes
    fmt.Println(interass == nil)


    // Bonus
    poop := "💩"
    fmt.Println(len(poop))
}
```

a) true / true

b) true -> false

c) false -> true

d) false -> false

BONUS: LENGTH OF POOP EMOJI

That's all Folks!