

Go Piscine Go 05

Summary: THIS document is the subject for the Go 05 module of the Go Piscine @ 42 Tokyo.

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Chapter I

Instructions

- Only this page will serve as reference; do not trust rumors.
- Watch out! This document could potentially change up to an hour before submission.
- These exercises are carefully laid out by order of difficulty from easiest to hardest. We will not take into account a successfully completed harder exercise if an easier one is not perfectly functional.
- Make sure you have the appropriate permissions on your files and directories.
- You have to follow the submission procedures for every exercise.
- Your exercises will be checked and graded by your fellow classmates.
- You <u>cannot</u> leave <u>any</u> additional file in your directory than those specified in the subject.
- Got a question? Ask your peer on the right. Otherwise, try your peer on the left.
- Your reference guide is called Google / man / the Internet /
- Examine the examples thoroughly. They could very well call for details that are not explicitly mentioned in the subject...
- If no other explicit information is displayed, you must use the latest versions of Go.

Chapter II

Exercise 00: appendrange

Exercise 00	
appendrange	
Turn-in directory : $ex00/$	
Files to turn in: *	
Allowed packages: github.com/42tokyo/ft	
Allowed builtin functions: None	

Write a function that takes an int min and an int max as parameters. The function must return a slice of ints with all the values between min and max.

- Min is included, and max is excluded.
- If min is greater than or equal to max, a nil slice is returned.
- append is not allowed for this exercise.
- Expected function

```
func AppendRange(min, max int) []int {
}
```

• Usage

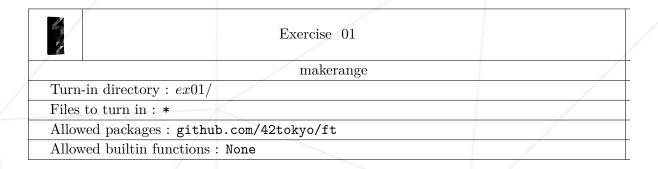
```
package main
import (
    "fmt"
    "piscine"
)

func main() {
    fmt.Println(piscine.MakeRange(5, 10))
    fmt.Println(piscine.MakeRange(10, 5))
}
```



Chapter III

Exercise 01: makerange



Write a function that takes an int min and an int max as parameters. The function must return a slice of ints with all the values between min and max.

- Min is included, and max is excluded.
- If min is greater than or equal to max, a nil slice is returned.
- append is not allowed for this exercise.
- Expected function

```
func MakeRange(min, max int) []int {
}
```

• Usage

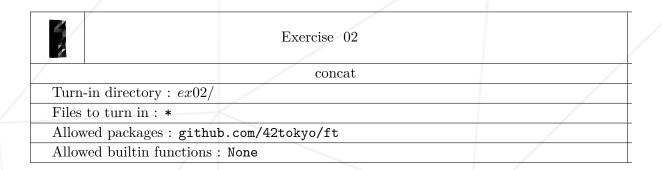
```
package main
import (
    "fmt"
    "piscine"
)

func main() {
    fmt.Println(piscine.MakeRange(5, 10))
    fmt.Println(piscine.MakeRange(10, 5))
}
```



Chapter IV

Exercise 02: concatparams



Write a function that takes the arguments received in parameters and returns them as a string. The string is the result of all the arguments concatenated with a newline (n) between.

• Expected function

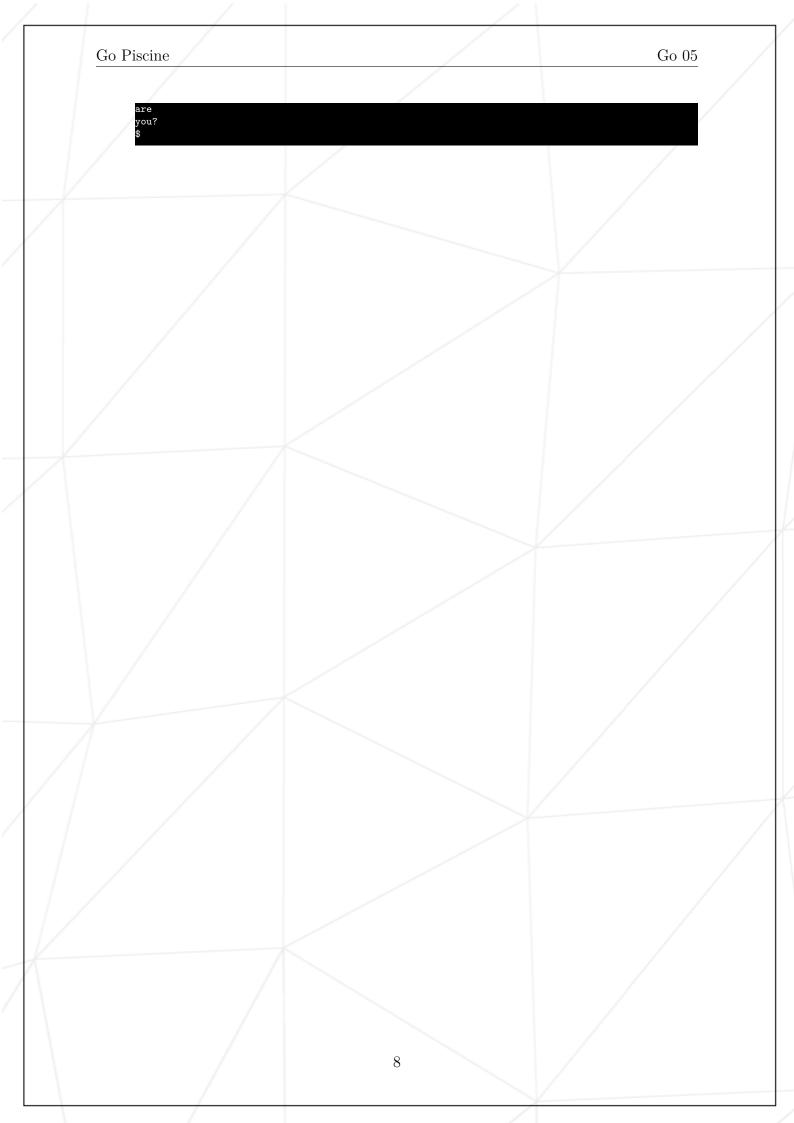
```
func ConcatParams(args []string) string {
}
```

 \bullet Usage

```
package main
import (
    "fmt"
    "piscine"
)

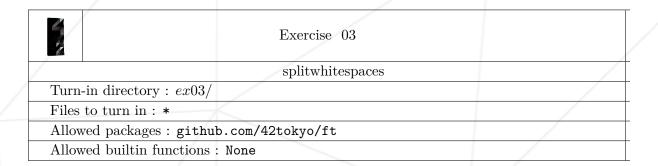
func main() {
    test := []string{"Hello", "how", "are", "you?"}
    fmt.Println(piscine.ConcatParams(test))
}
```

```
$ go run .
Hello
how
```



Chapter V

Exercise 03: splitwhitespaces



Write a function that separates the words of a string and puts them in a string slice.

- \bullet The separators are spaces, tabs and newlines.
- Expected function

```
func SplitWhiteSpaces(s string) []string {
}
```

• Usage

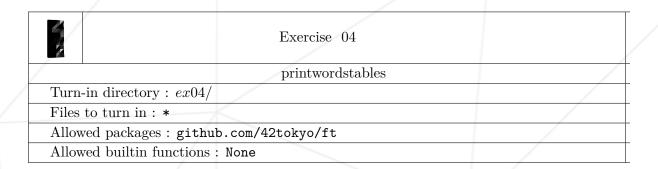
```
package main
import (
    "fmt"
    "piscine"
)

func main() {
    fmt.Printf("%#v\n", piscine.SplitWhiteSpaces("Hello how are you?"))
}
```

```
$ go run .
[]string{"Hello", "how", "are", "you?"}
$
```

Chapter VI

Exercice 04: printwordstables



Write a function that receives a string slice and prints each element of the slice in a seperate line.

• Expected function

```
func PrintWordsTables(a []string) {
}
```

• Usage

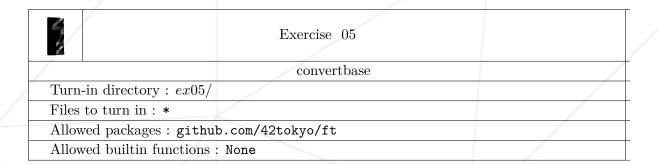
```
package main
import "piscine"

func main() {
        a := piscine.SplitWhiteSpaces("Hello how are you?")
        piscine.PrintWordsTables(a)
}
```

```
$ go run .
Hello
how
are
you?
$
```

Chapter VII

Exercise 05: convertbase



Write a function that behaves like the Compare function.

• Expected function

```
func Compare(a, b string) int {
}
```

• Usage

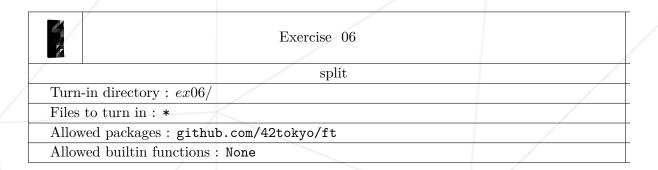
```
package main
import (
    "fmt"
    "piscine"
)

func main() {
    fmt.Println(piscine.Compare("Hello!", "Hello!"))
    fmt.Println(piscine.Compare("Salut!", "lut!"))
    fmt.Println(piscine.Compare("Ola!", "Ol"))
}
```

```
$ go run .
0
-1
1
```

Chapter VIII

Exercise 06: split



Write a function that capitalizes each letter in a string.

• Expected function

```
func Split(s, sep string) []string {
}
```

• Usage

```
package main
import (
    "fmt"
    "piscine"
)

func main() {
    s := "HelloHAhowHAareHAyou?"
    fmt.Printf("%#v\n", piscine.Split(s, "HA"))
}
```

```
$ go run .
[]string{"Hello", "how", "are", "you?"}
$
```