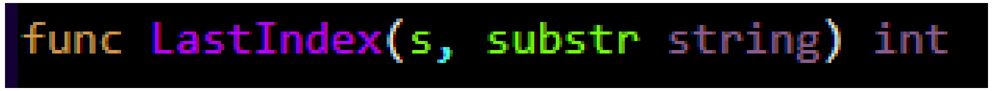
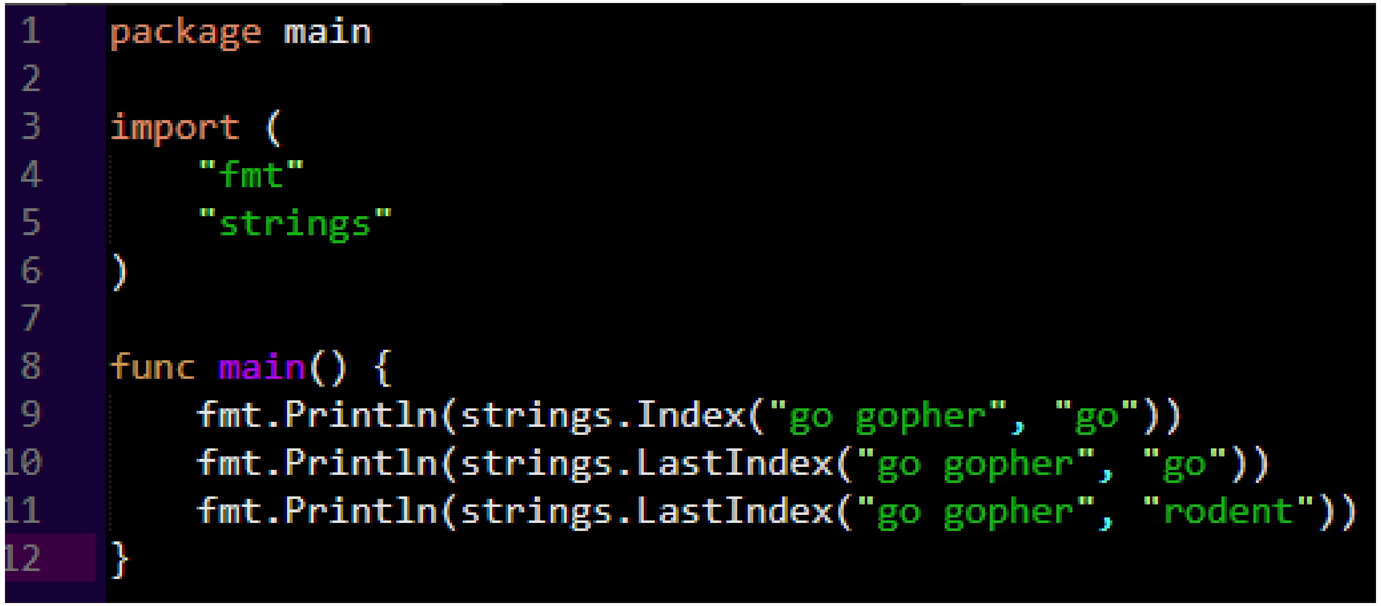
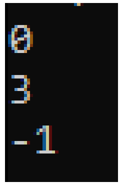
strings package



```go
func LastIndex(s, substr string) int
```

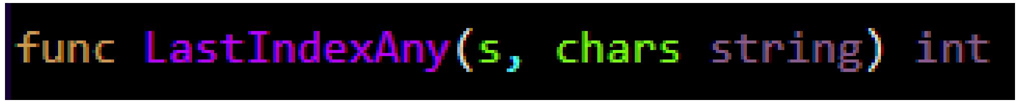


```go
package main

import (
	"fmt"
	"strings"
)

func main() {
	fmt.Println(strings.Index("go gopher", "go"))
	fmt.Println(strings.LastIndex("go gopher", "go"))
	fmt.Println(strings.LastIndex("go gopher", "rodent"))
}
```

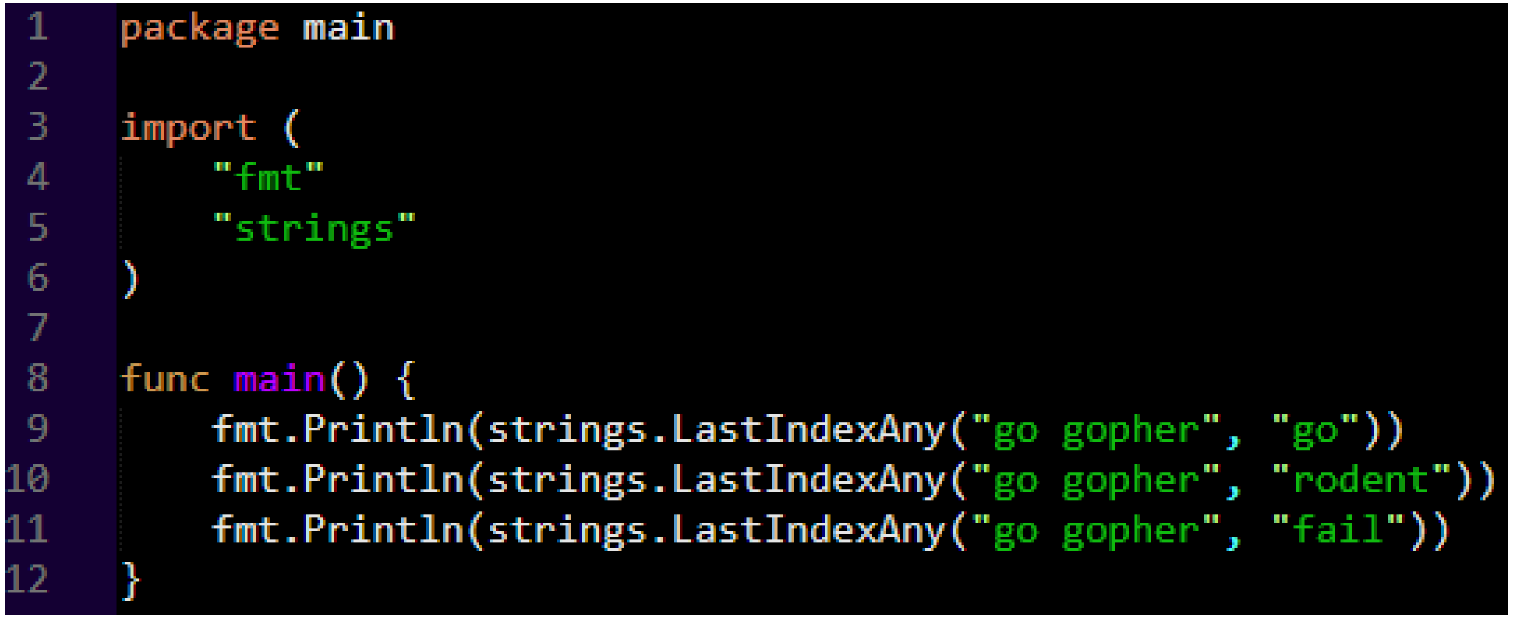


```
0
3
-1
```

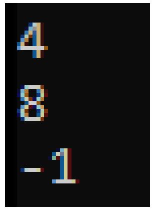
strings package



```
func LastIndexAny(s, chars string) int
```

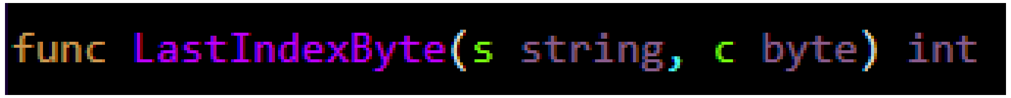


```go
package main

import (
	"fmt"
	"strings"
)

func main() {
	fmt.Println(strings.LastIndexAny("go gopher", "go"))
	fmt.Println(strings.LastIndexAny("go gopher", "rodent"))
	fmt.Println(strings.LastIndexAny("go gopher", "fail"))
}
```

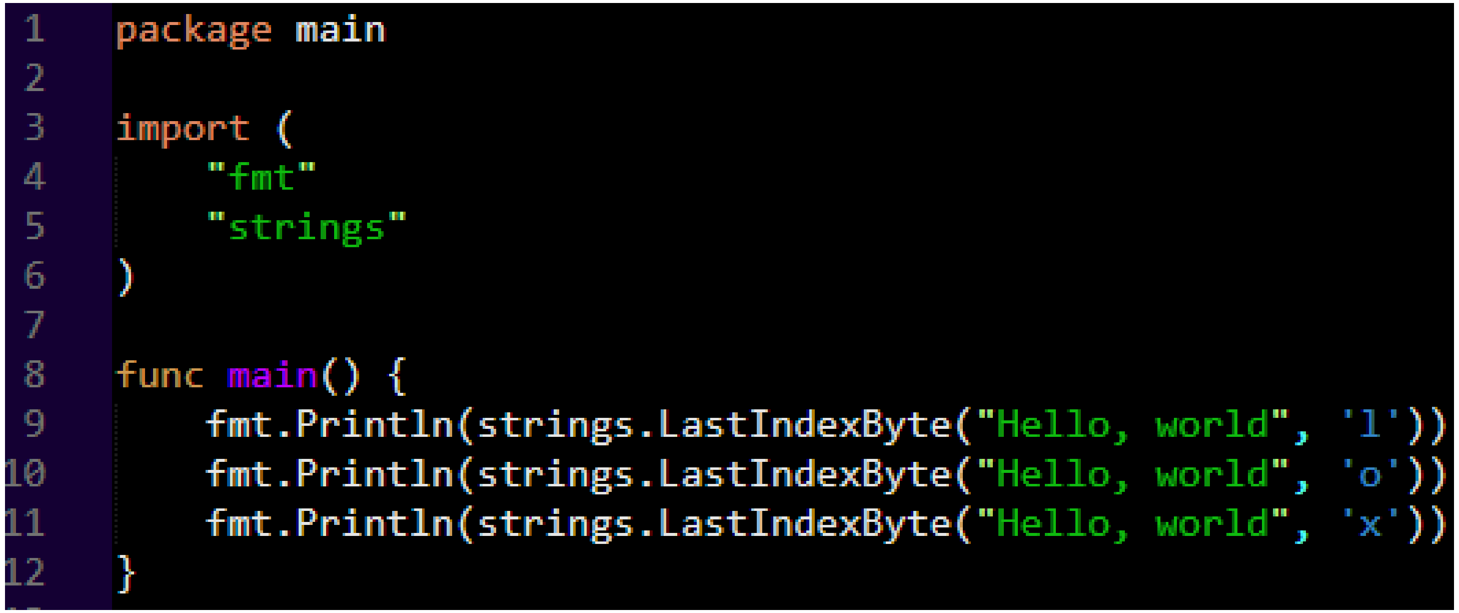


```
4
8
-1
```

strings package

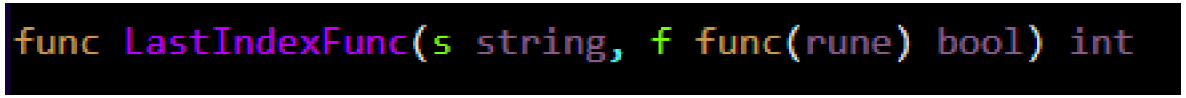


```go
func LastIndexByte(s string, c byte) int
```

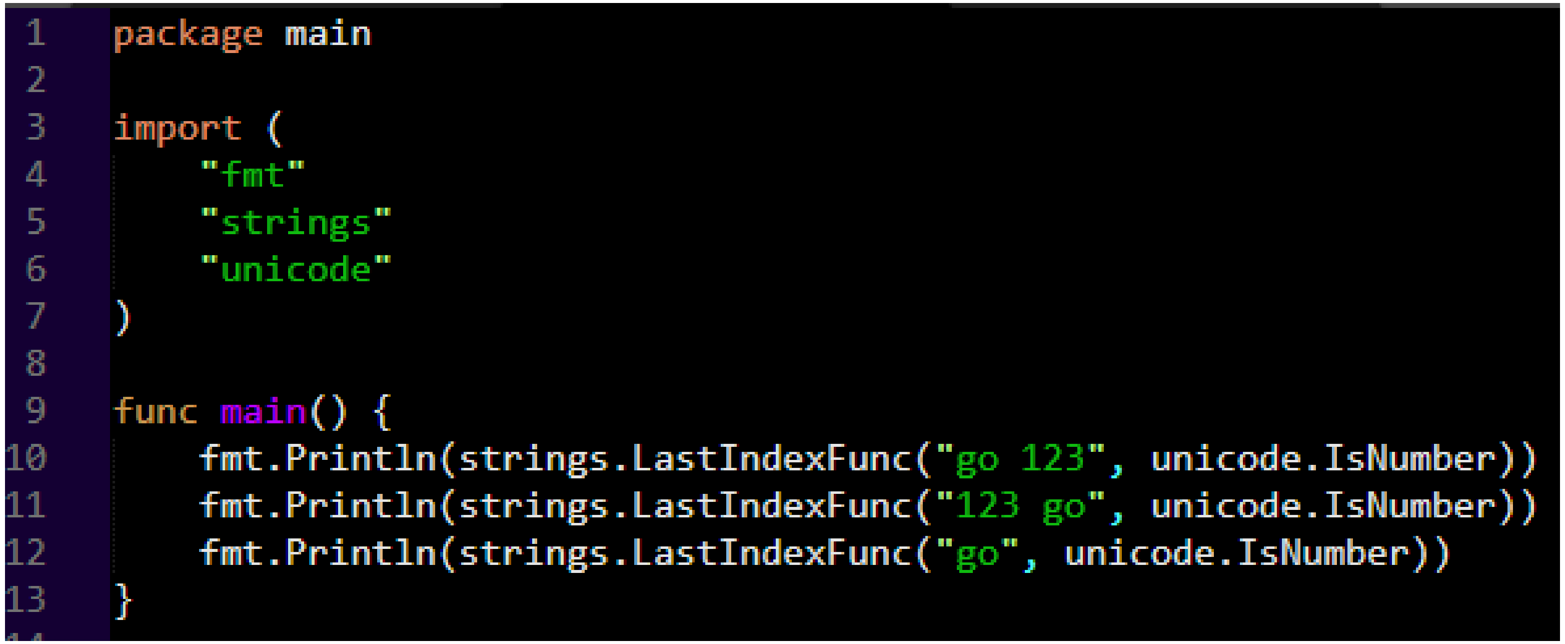


```go
package main

import (
	"fmt"
	"strings"
)

func main() {
	fmt.Println(strings.LastIndexByte("Hello, world", 'l'))
	fmt.Println(strings.LastIndexByte("Hello, world", 'o'))
	fmt.Println(strings.LastIndexByte("Hello, world", 'x'))
}
```

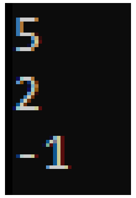
strings package



```go
func LastIndexFunc(s string, f func(rune) bool) int
```

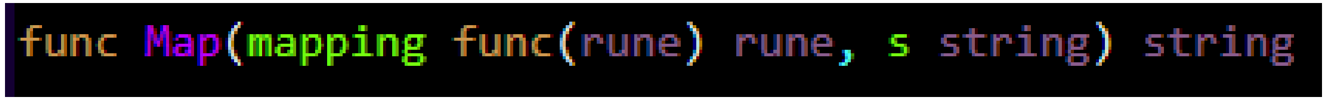


```go
package main

import (
	"fmt"
	"strings"
	"unicode"
)

func main() {
	fmt.Println(strings.LastIndexFunc("go 123", unicode.IsNumber))
	fmt.Println(strings.LastIndexFunc("123 go", unicode.IsNumber))
	fmt.Println(strings.LastIndexFunc("go", unicode.IsNumber))
}
```

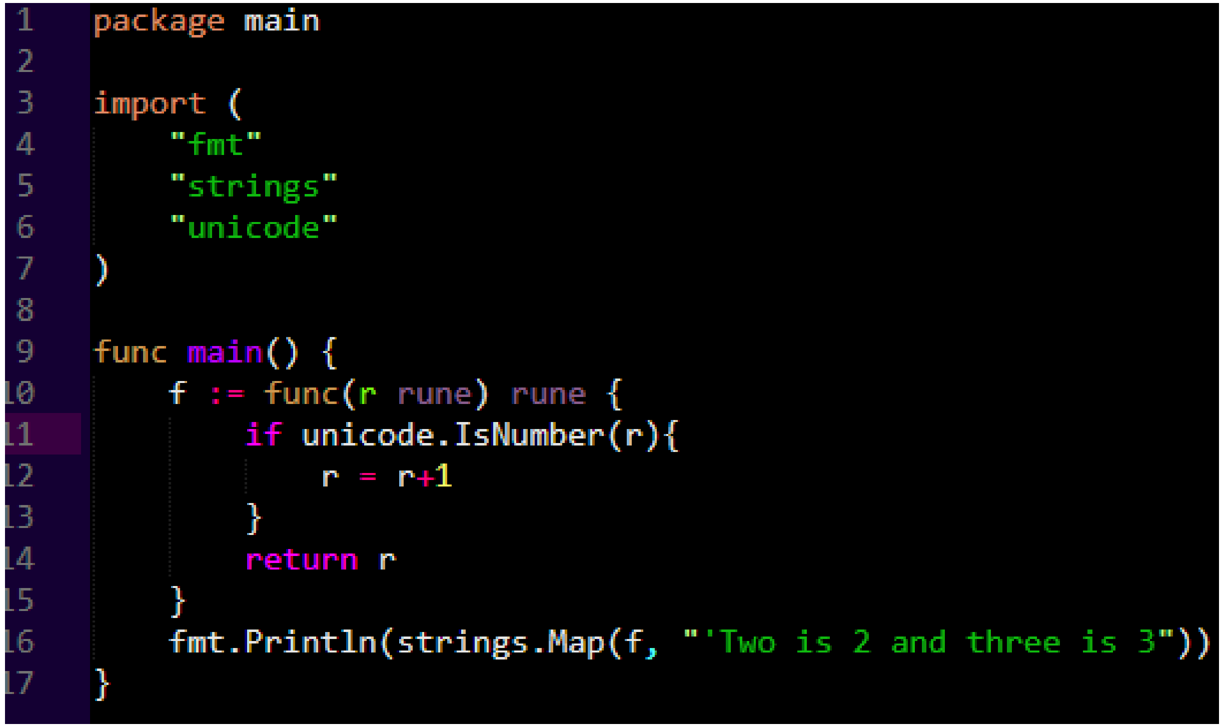


```
5
2
-1
```

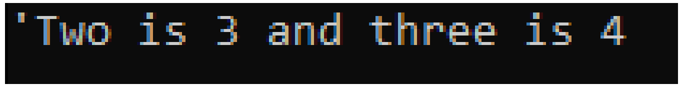
strings package



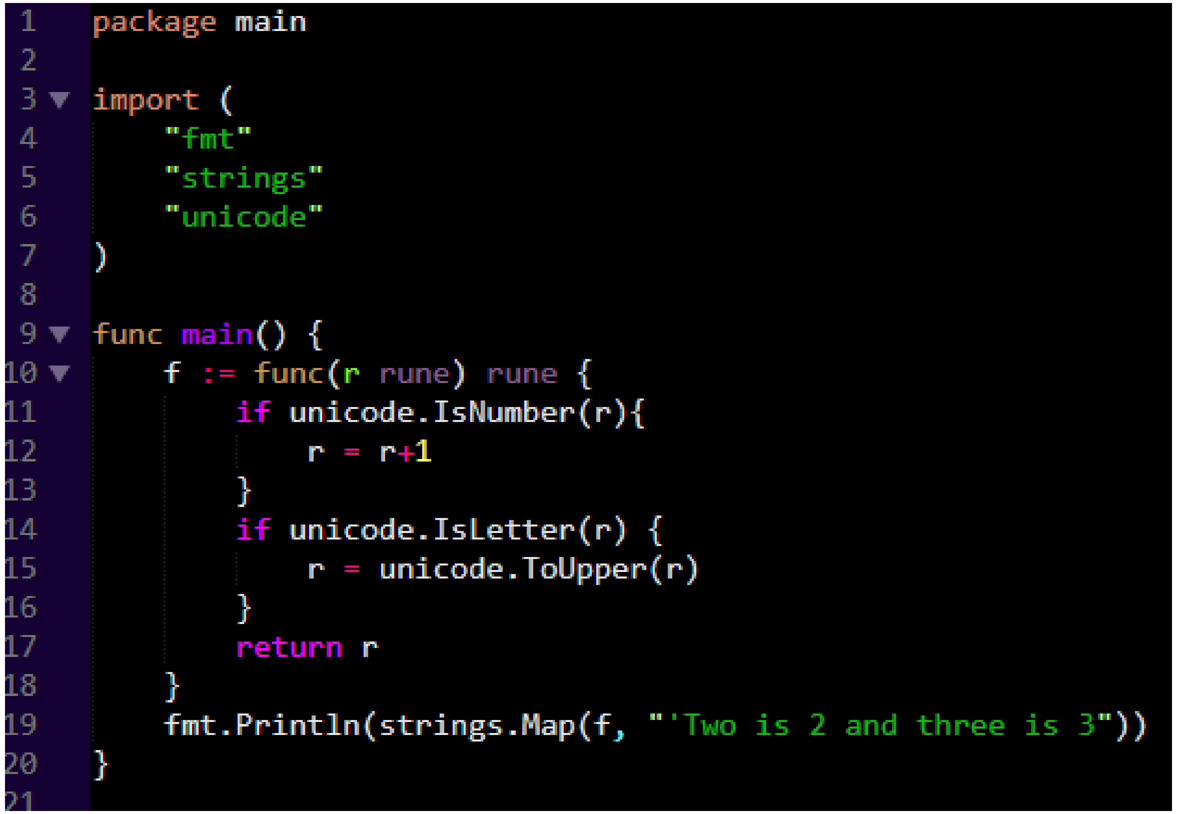
```
func Map(mapping func(rune) rune, s string) string
```



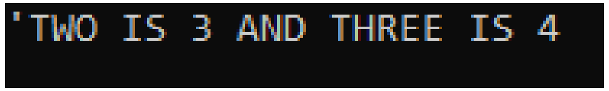
```go
package main

import (
    "fmt"
    "strings"
    "unicode"
)

func main() {
    f := func(r rune) rune {
        if unicode.IsNumber(r){
            r = r+1
        }
        return r
    }
    fmt.Println(strings.Map(f, "'Two is 2 and three is 3"))
}
```



```
'Two is 3 and three is 4
```

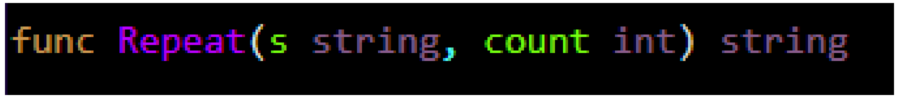


```go
package main

import (
    "fmt"
    "strings"
    "unicode"
)

func main() {
    f := func(r rune) rune {
        if unicode.IsNumber(r){
            r = r+1
        }
        if unicode.IsLetter(r) {
            r = unicode.ToUpper(r)
        }
        return r
    }
    fmt.Println(strings.Map(f, "'Two is 2 and three is 3"))
}

```

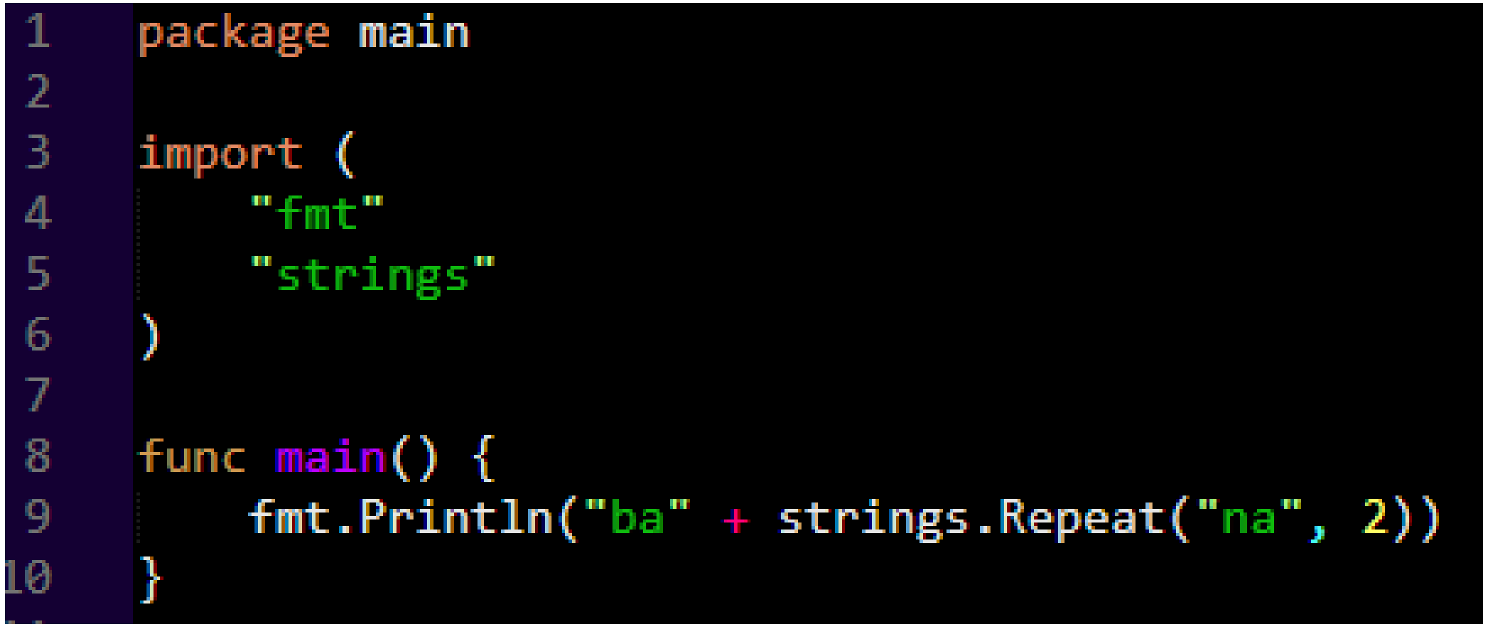


```
'TWO IS 3 AND THREE IS 4
```

strings package

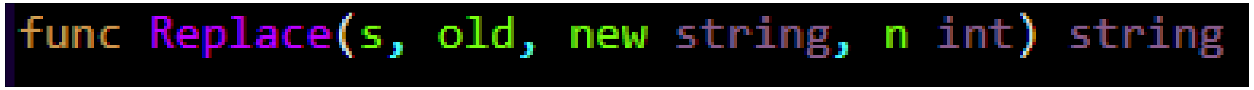


```
func Repeat(s string, count int) string
```

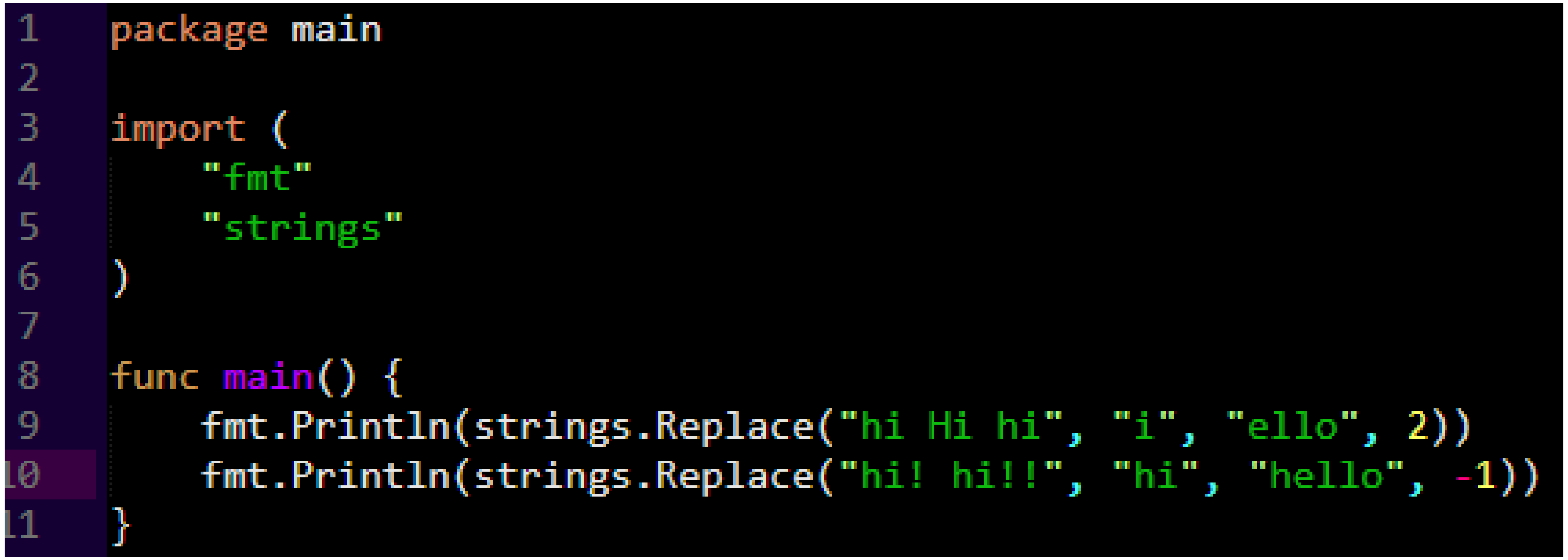


```
package main

import (
	"fmt"
	"strings"
)

func main() {
	fmt.Println("ba" + strings.Repeat("na", 2))
}
```

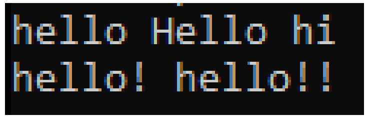
strings package



```
func Replace(s, old, new string, n int) string
```

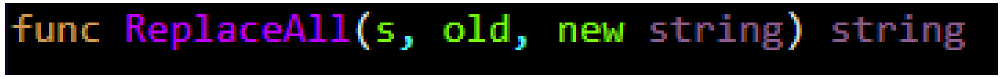


```go
package main

import (
	"fmt"
	"strings"
)

func main() {
	fmt.Println(strings.Replace("hi Hi hi", "i", "ello", 2))
	fmt.Println(strings.Replace("hi! hi!!", "hi", "hello", -1))
}
```

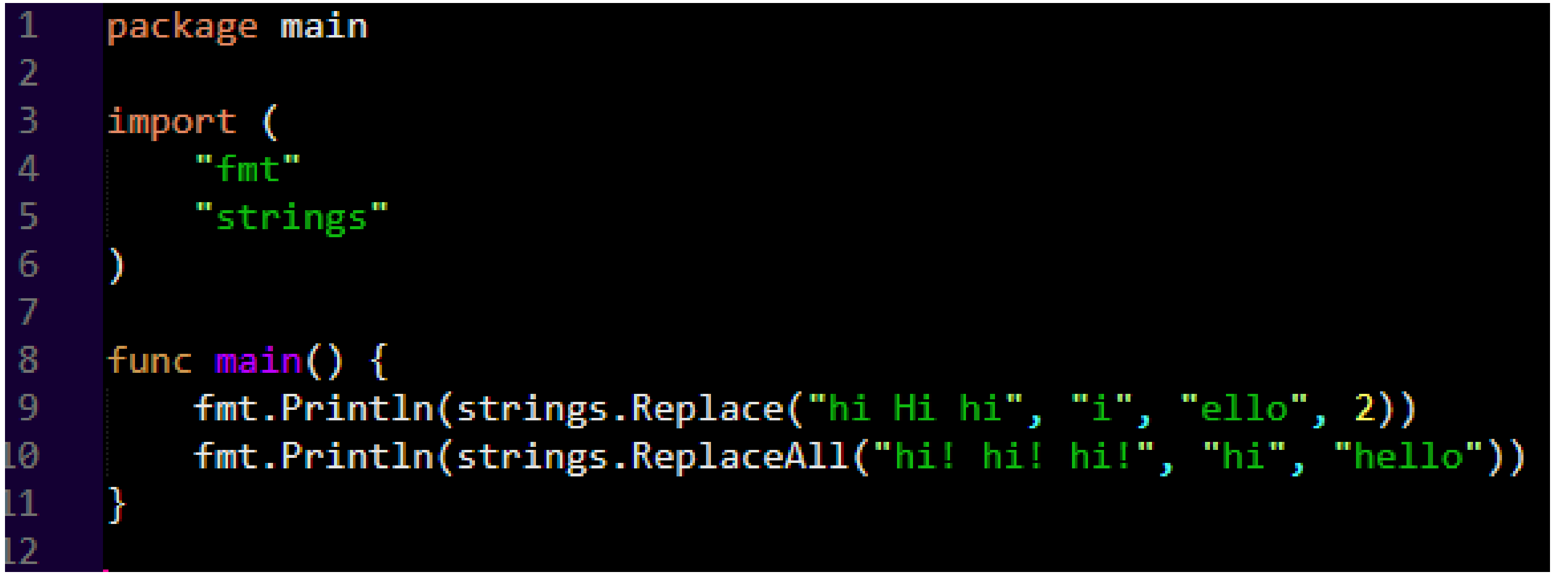


```
hello Hello hi
hello! hello!!
```

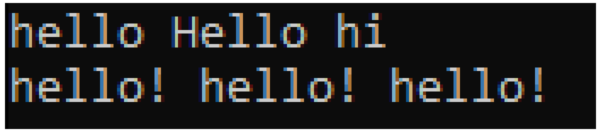
strings package



```go
func ReplaceAll(s, old, new string) string
```

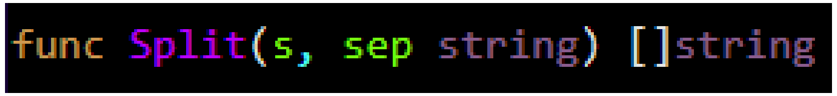


```go
package main

import (
	"fmt"
	"strings"
)

func main() {
	fmt.Println(strings.Replace("hi Hi hi", "i", "ello", 2))
	fmt.Println(strings.ReplaceAll("hi! hi! hi!", "hi", "hello"))
}
```

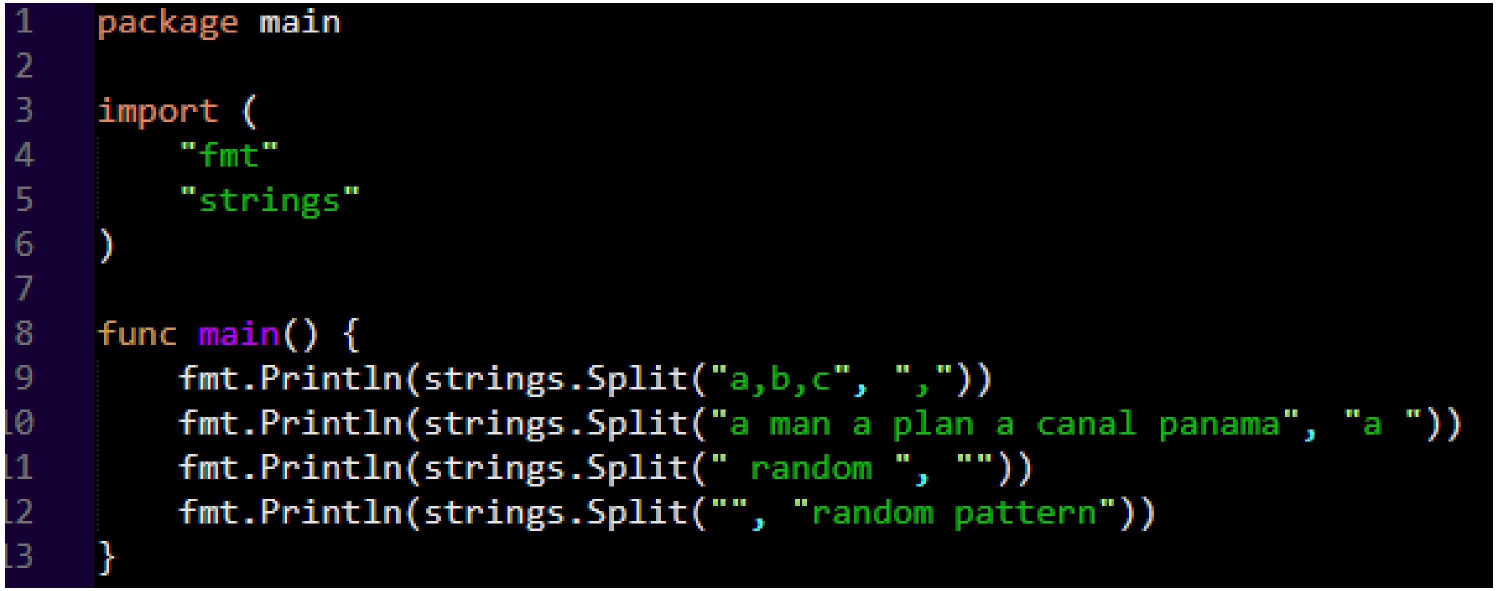


```
hello Hello hi
hello! hello! hello!
```

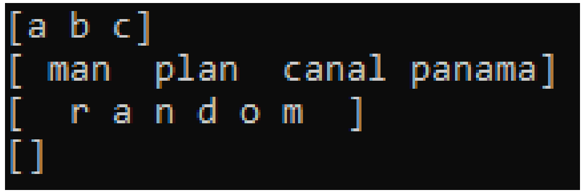
strings package



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

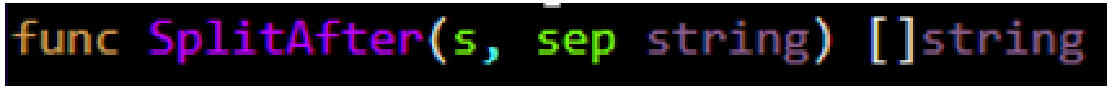


```go
package main

import (
	"fmt"
	"strings"
)

func main() {
	fmt.Println(strings.Split("a,b,c", ","))
	fmt.Println(strings.Split("a man a plan a canal panama", "a "))
	fmt.Println(strings.Split(" random ", ""))
	fmt.Println(strings.Split("", "random pattern"))
}
```

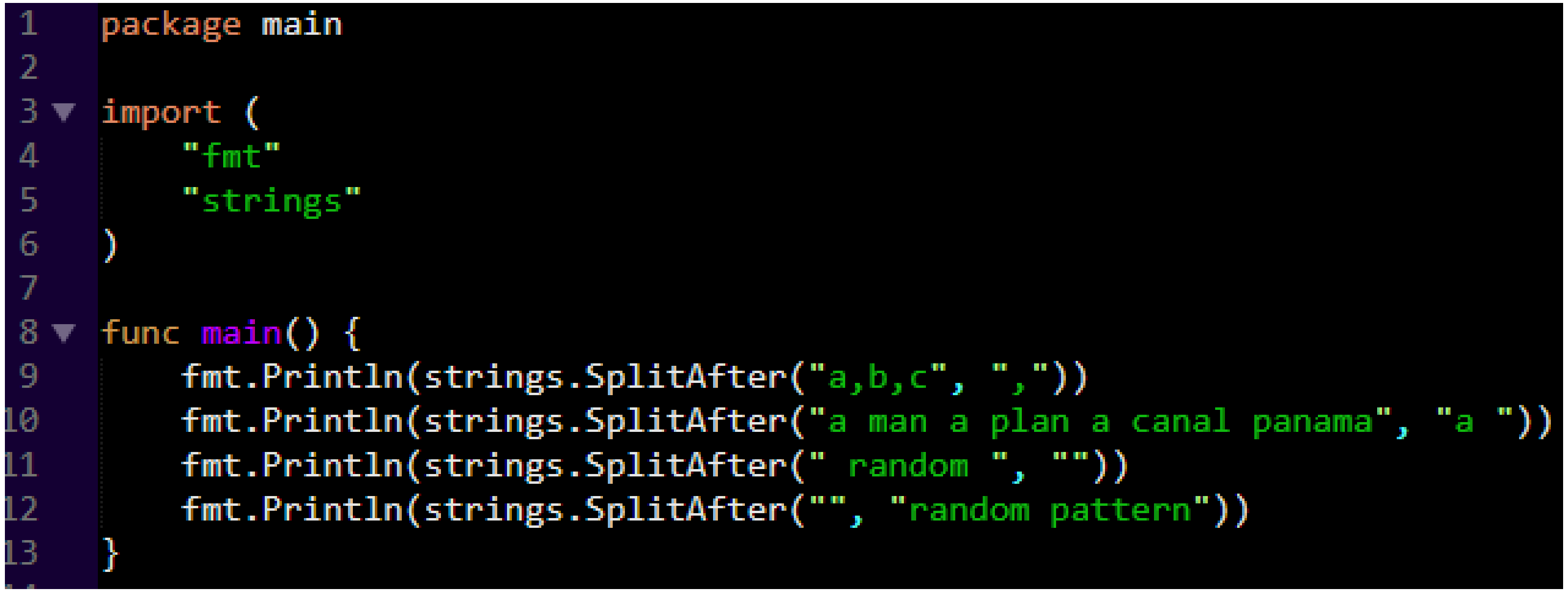


```
[a b c]
[ man  plan  canal panama]
[  r a n d o m  ]
[]
```

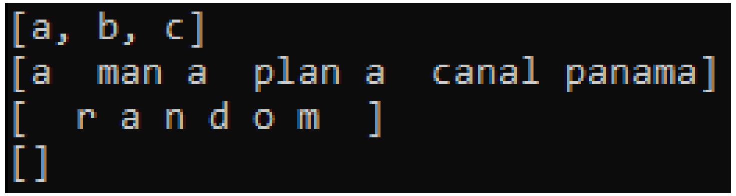
strings package



```
func SplitAfter(s, sep string) []string
```

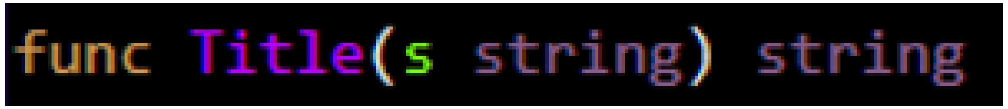


```go
package main

import (
	"fmt"
	"strings"
)

func main() {
	fmt.Println(strings.SplitAfter("a,b,c", ","))
	fmt.Println(strings.SplitAfter("a man a plan a canal panama", "a "))
	fmt.Println(strings.SplitAfter(" random ", ""))
	fmt.Println(strings.SplitAfter("", "random pattern"))
}
```

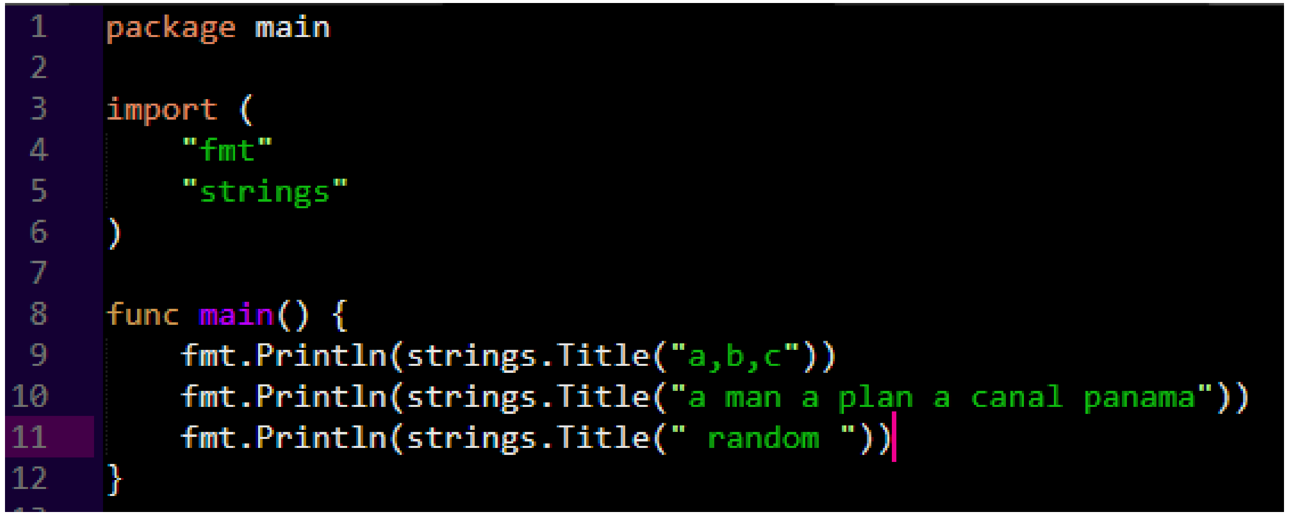


```
[a, b, c]
[a  man a  plan a  canal panama]
[  r a n d o m  ]
[]
```

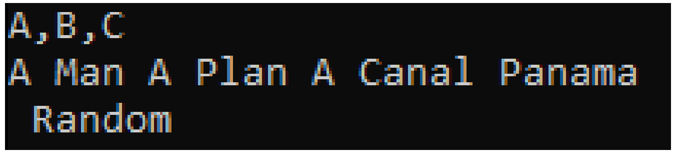
strings package



```
func Title(s string) string
```

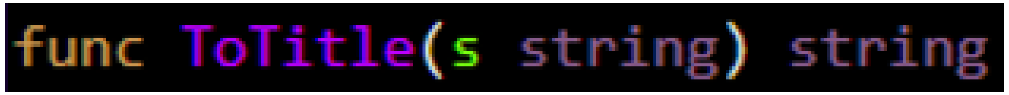


```go
package main

import (
	"fmt"
	"strings"
)

func main() {
	fmt.Println(strings.Title("a,b,c"))
	fmt.Println(strings.Title("a man a plan a canal panama"))
	fmt.Println(strings.Title(" random "))
}
```

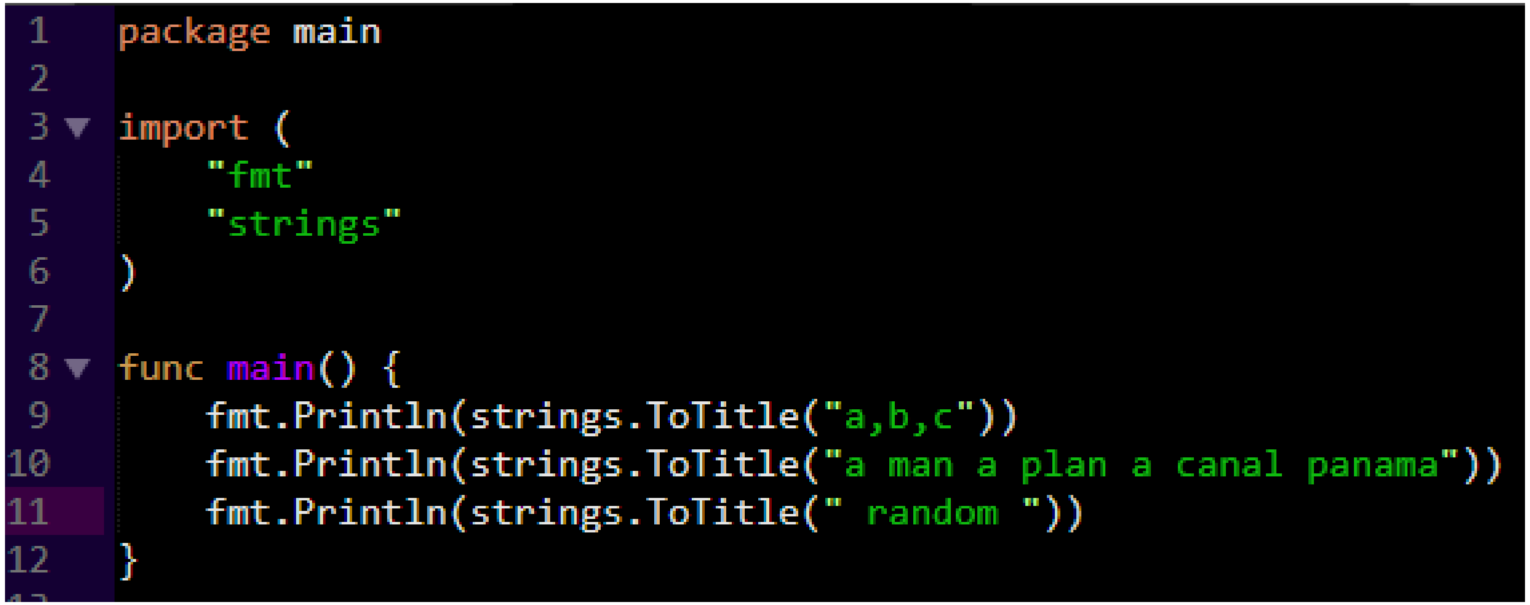


```
A,B,C
A Man A Plan A Canal Panama
 Random
```

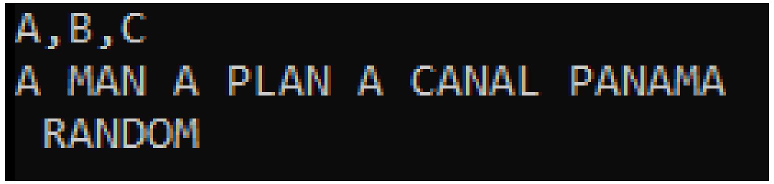
strings package



```
func ToTitle(s string) string
```

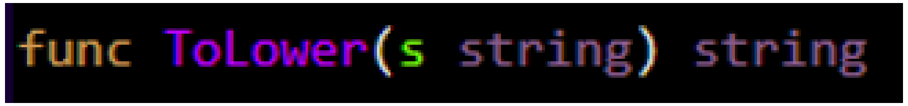


```go
package main

import (
	"fmt"
	"strings"
)

func main() {
	fmt.Println(strings.ToTitle("a,b,c"))
	fmt.Println(strings.ToTitle("a man a plan a canal panama"))
	fmt.Println(strings.ToTitle(" random "))
}
```

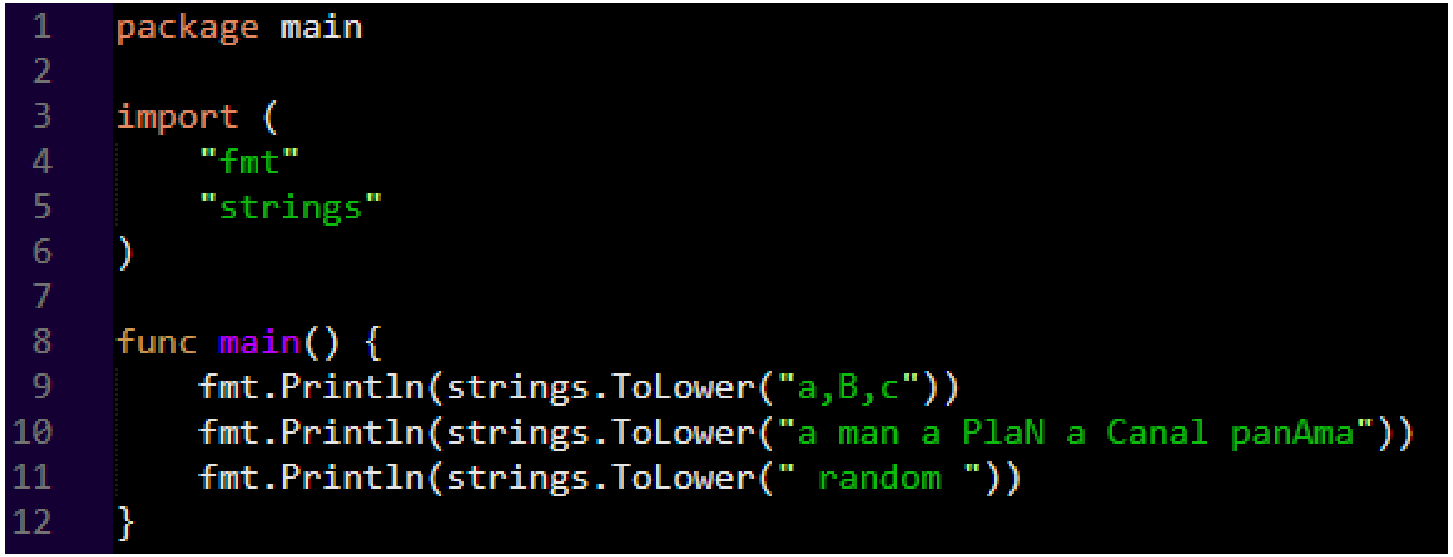


```
A,B,C
A MAN A PLAN A CANAL PANAMA
 RANDOM
```

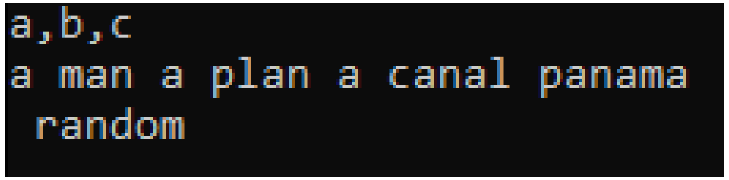
strings package



```
func ToLower(s string) string
```

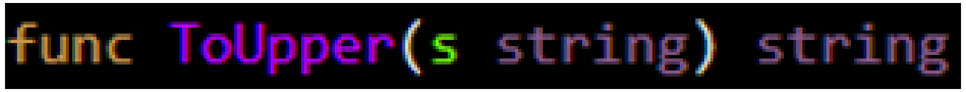


```go
package main

import (
	"fmt"
	"strings"
)

func main() {
	fmt.Println(strings.ToLower("a,B,c"))
	fmt.Println(strings.ToLower("a man a PlaN a Canal panAma"))
	fmt.Println(strings.ToLower(" random "))
}
```

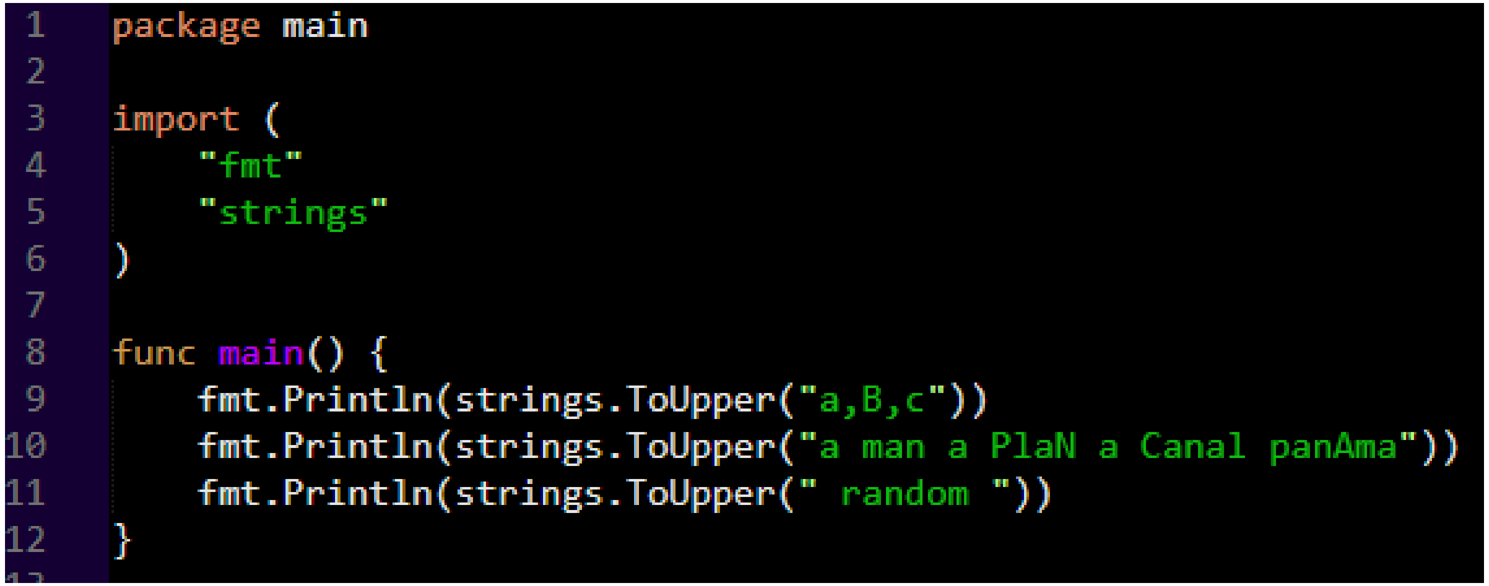


```
a,b,c
a man a plan a canal panama
 random
```

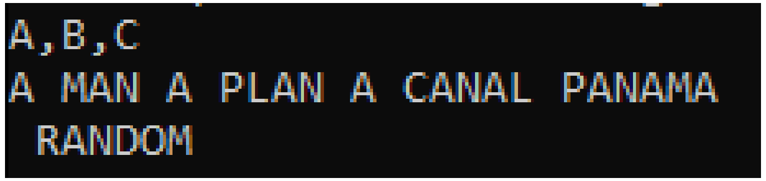
strings package



```
func ToUpper(s string) string
```

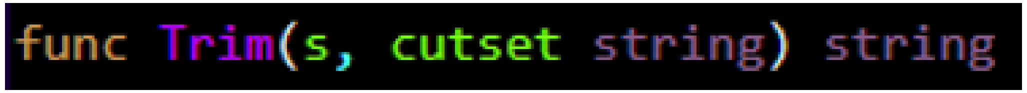


```go
package main

import (
	"fmt"
	"strings"
)

func main() {
	fmt.Println(strings.ToUpper("a,B,c"))
	fmt.Println(strings.ToUpper("a man a PlaN a Canal panAma"))
	fmt.Println(strings.ToUpper(" random "))
}
```

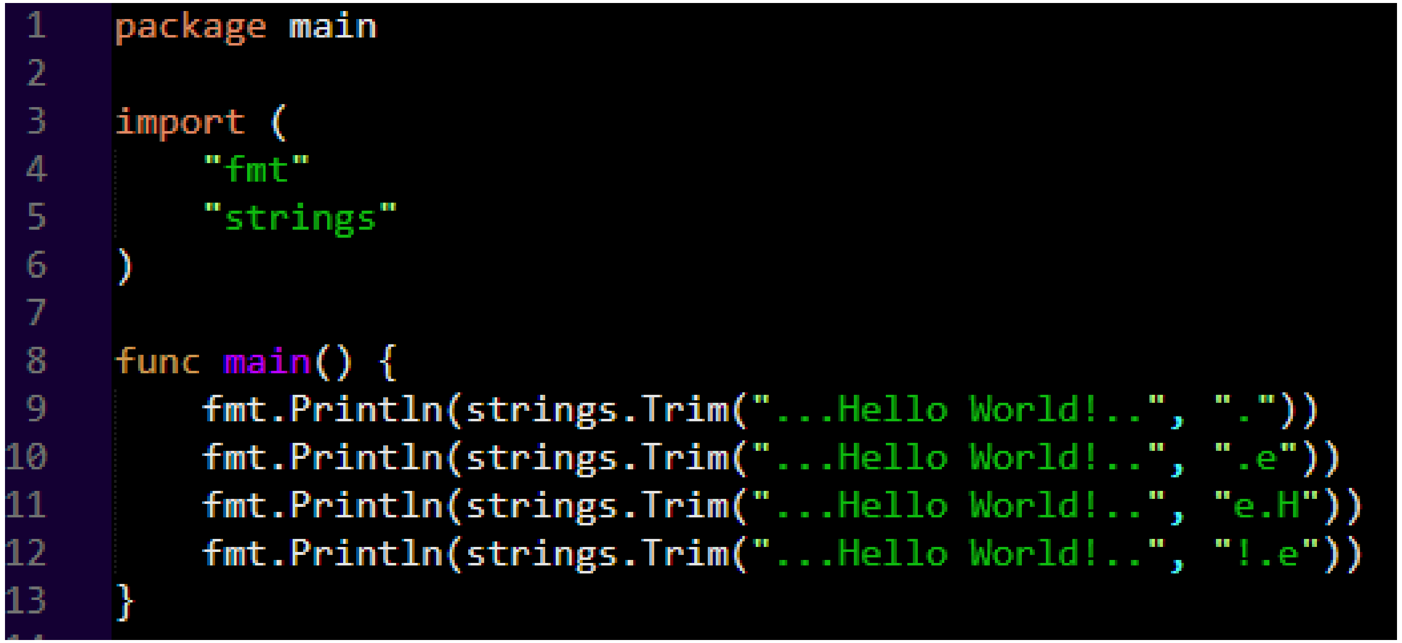


```
A,B,C
A MAN A PLAN A CANAL PANAMA
 RANDOM
```

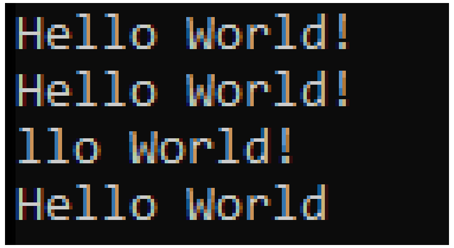
strings package



```
func Trim(s, cutset string) string
```

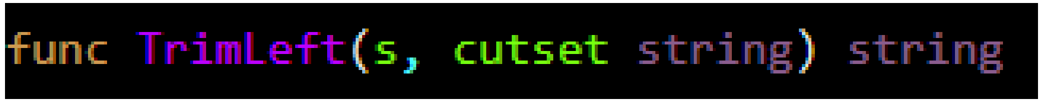


```go
package main

import (
	"fmt"
	"strings"
)

func main() {
	fmt.Println(strings.Trim("...Hello World!..", "."))
	fmt.Println(strings.Trim("...Hello World!..", ".e"))
	fmt.Println(strings.Trim("...Hello World!..", "e.H"))
	fmt.Println(strings.Trim("...Hello World!..", "!.e"))
}
```

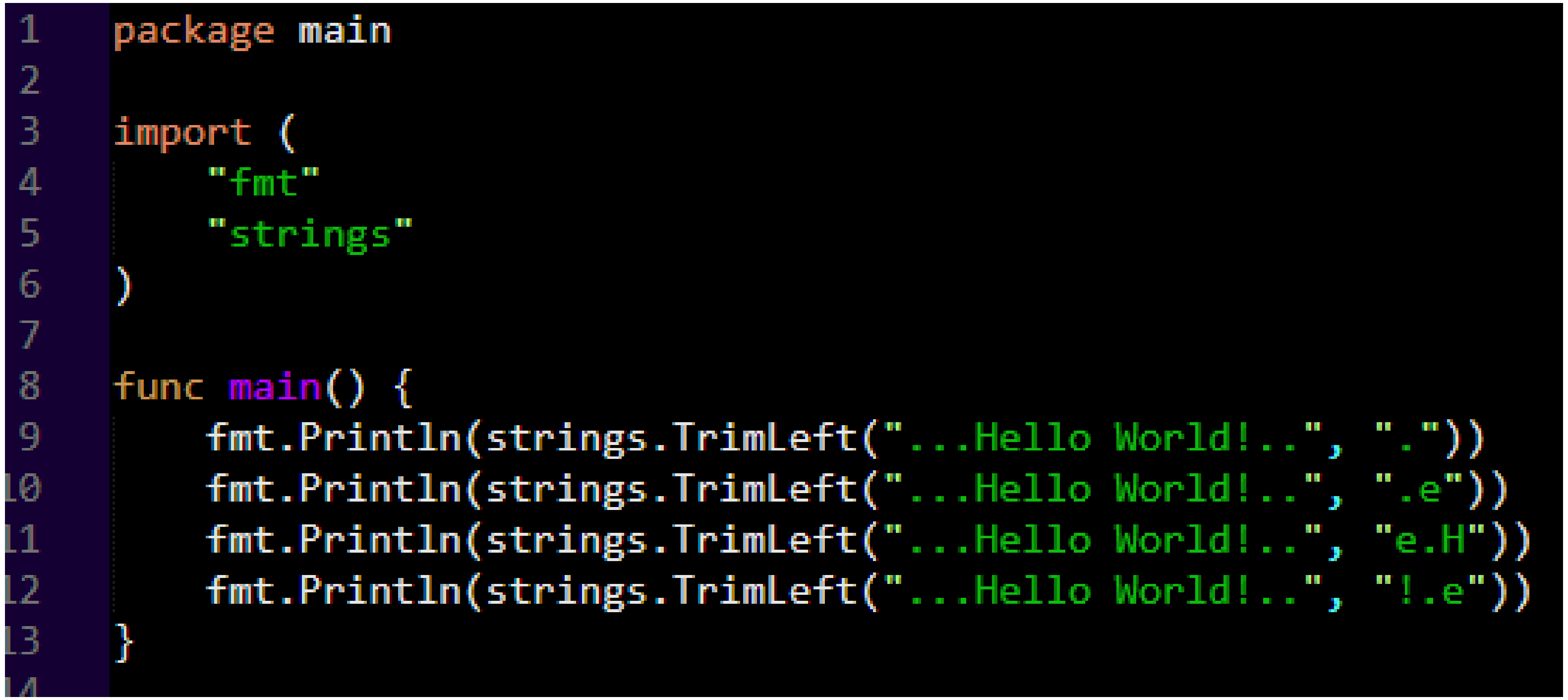


```
Hello World!
Hello World!
llo World!
Hello World
```

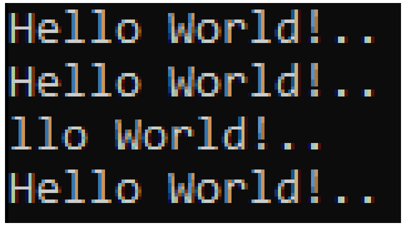
strings package



```go
func TrimLeft(s, cutset string) string
```

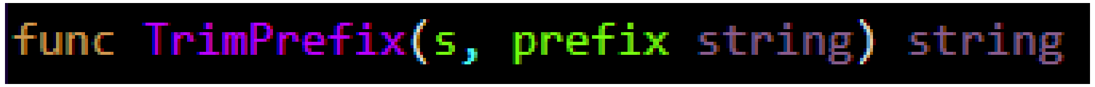


```go
package main

import (
	"fmt"
	"strings"
)

func main() {
	fmt.Println(strings.TrimLeft("...Hello World!..", "."))
	fmt.Println(strings.TrimLeft("...Hello World!..", ".e"))
	fmt.Println(strings.TrimLeft("...Hello World!..", "e.H"))
	fmt.Println(strings.TrimLeft("...Hello World!..", "!.e"))
}
```

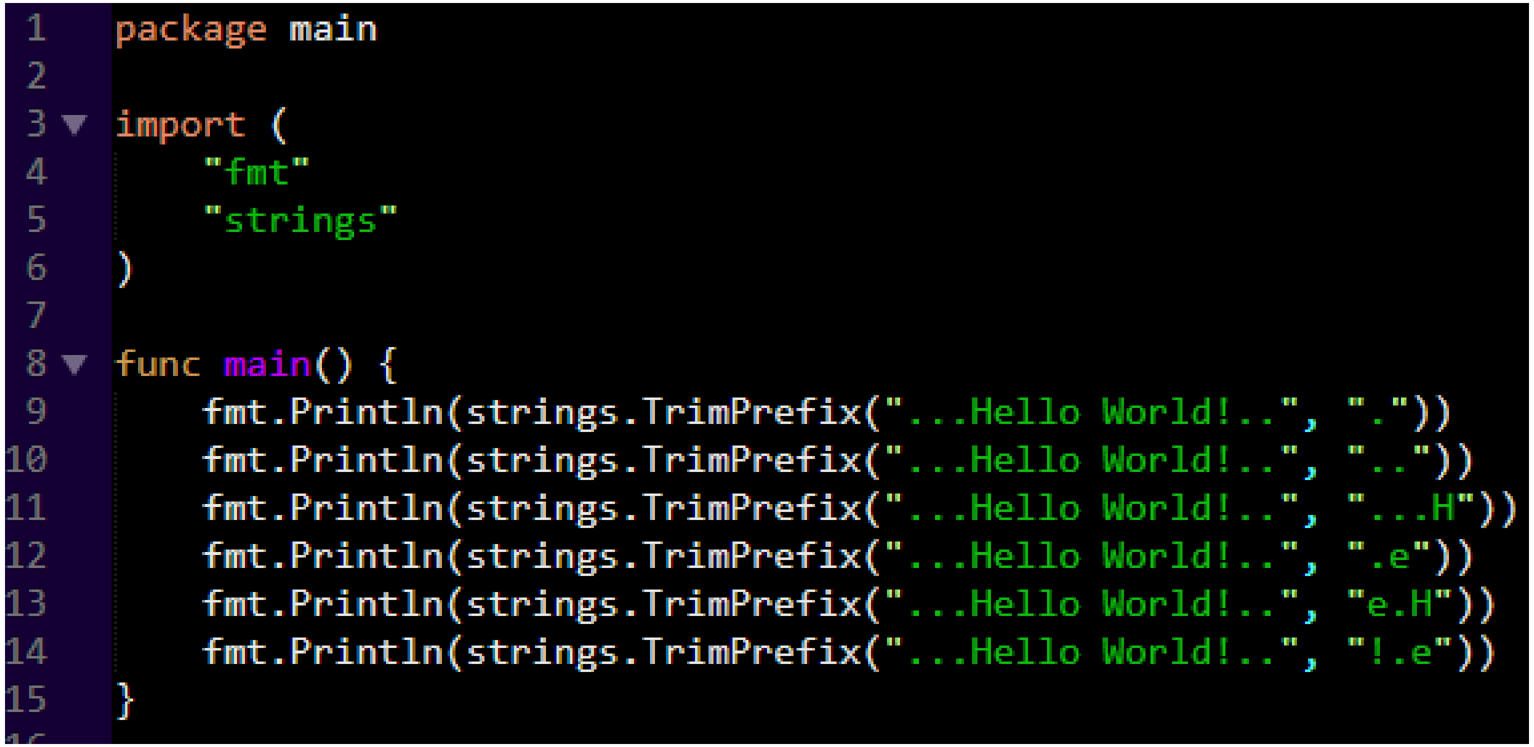


```
Hello World!..
Hello World!..
llo World!..
Hello World!..
```

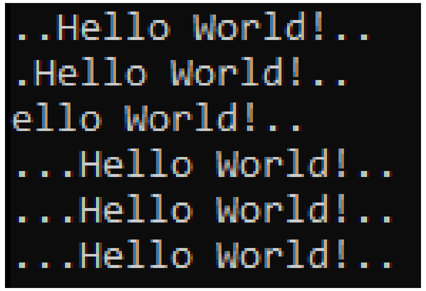
strings package



```
func TrimPrefix(s, prefix string) string
```

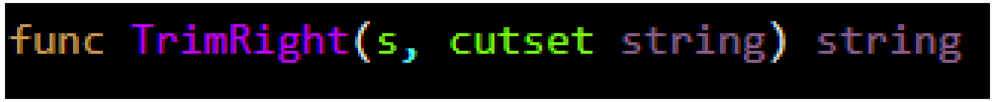


```go
package main

import (
    "fmt"
    "strings"
)

func main() {
    fmt.Println(strings.TrimPrefix("...Hello World!..", "."))
    fmt.Println(strings.TrimPrefix("...Hello World!..", ".."))
    fmt.Println(strings.TrimPrefix("...Hello World!..", "...H"))
    fmt.Println(strings.TrimPrefix("...Hello World!..", ".e"))
    fmt.Println(strings.TrimPrefix("...Hello World!..", "e.H"))
    fmt.Println(strings.TrimPrefix("...Hello World!..", "!.e"))
}
```

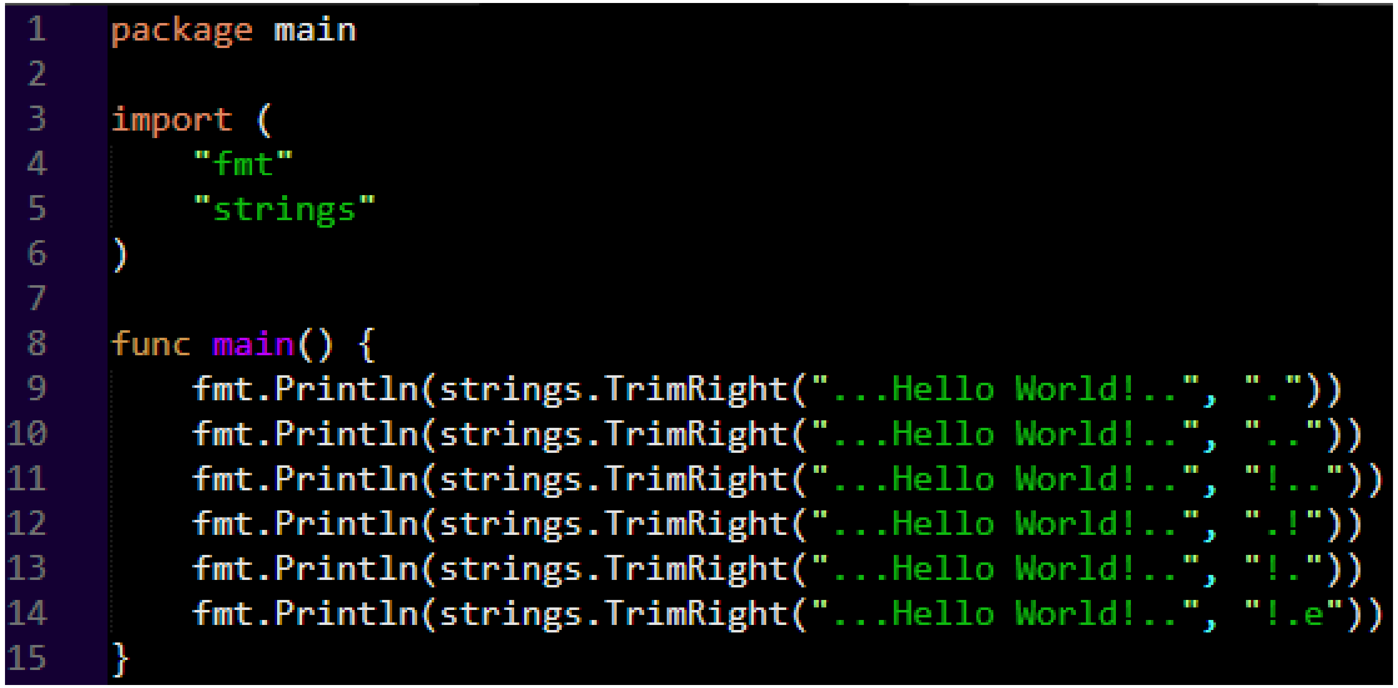


```
..Hello World!..
.Hello World!..
ello World!..
...Hello World!..
...Hello World!..
...Hello World!..
```

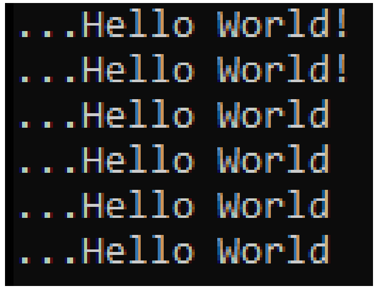
strings package



```
func TrimRight(s, cutset string) string
```

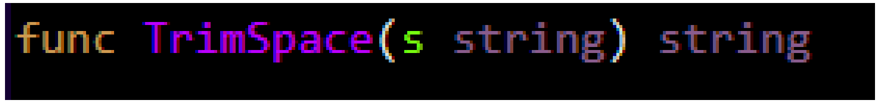


```go
package main

import (
	"fmt"
	"strings"
)

func main() {
	fmt.Println(strings.TrimRight("...Hello World!..", "."))
	fmt.Println(strings.TrimRight("...Hello World!..", ".."))
	fmt.Println(strings.TrimRight("...Hello World!..", "!.."))
	fmt.Println(strings.TrimRight("...Hello World!..", ".!"))
	fmt.Println(strings.TrimRight("...Hello World!..", "!."))
	fmt.Println(strings.TrimRight("...Hello World!..", "!.e"))
}
```

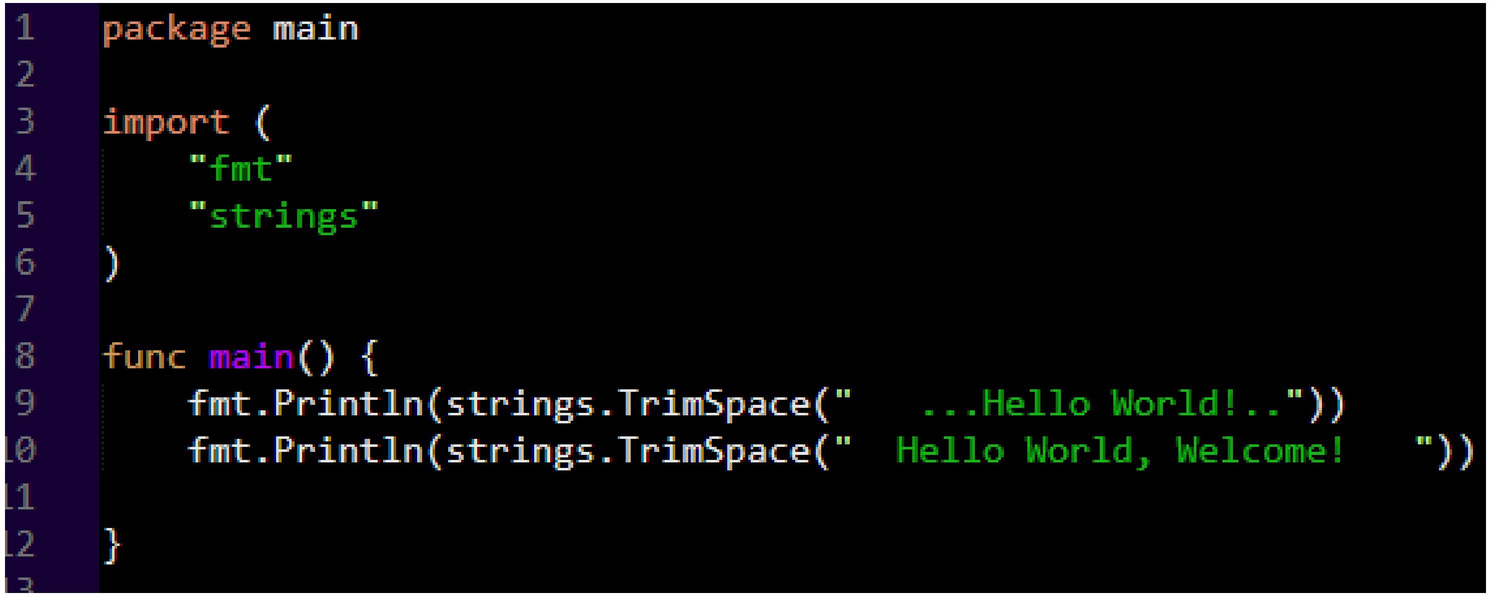


```
...Hello World!
...Hello World!
...Hello World
...Hello World
...Hello World
...Hello World
```

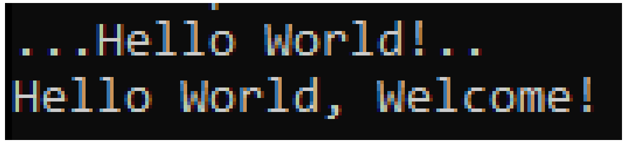
strings package



```
func TrimSpace(s string) string
```

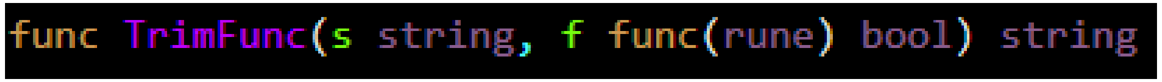


```go
package main

import (
	"fmt"
	"strings"
)

func main() {
	fmt.Println(strings.TrimSpace("   ...Hello World!.."))
	fmt.Println(strings.TrimSpace("  Hello World, Welcome!   "))

}
```

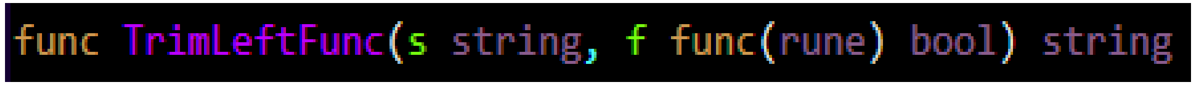


```
...Hello World!..
Hello World, Welcome!
```

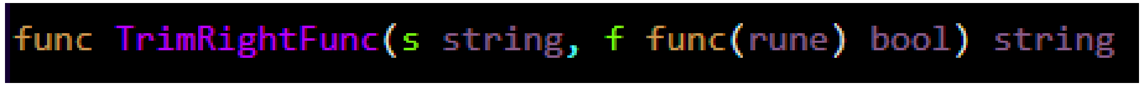
strings package



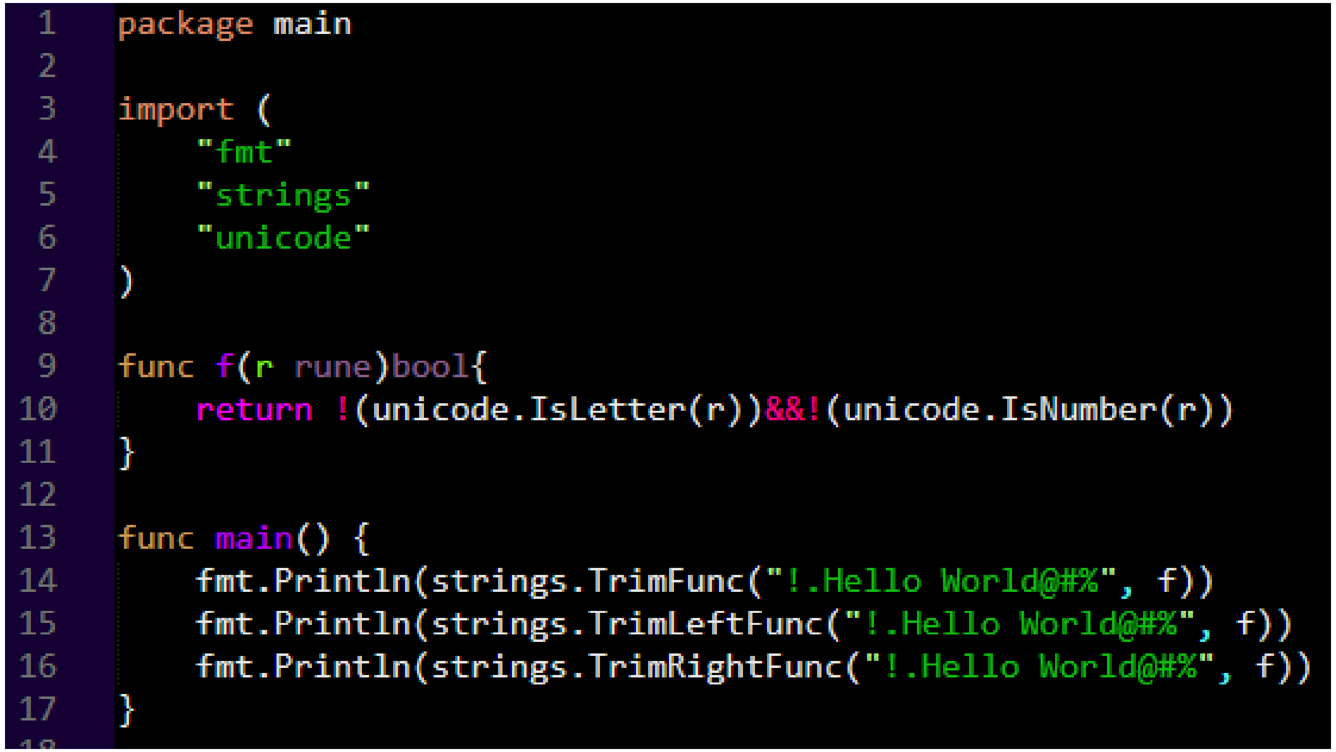
```
func TrimFunc(s string, f func(rune) bool) string
```



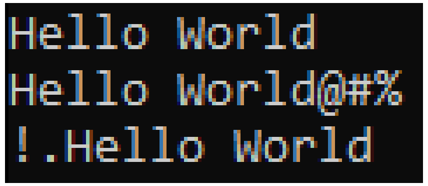
```
func TrimLeftFunc(s string, f func(rune) bool) string
```



```
func TrimRightFunc(s string, f func(rune) bool) string
```



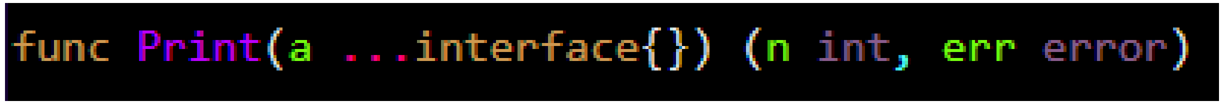
```go
package main

import (
    "fmt"
    "strings"
    "unicode"
)

func f(r rune)bool{
    return !(unicode.IsLetter(r))&&!(unicode.IsNumber(r))
}

func main() {
    fmt.Println(strings.TrimFunc("!.Hello World@#%", f))
    fmt.Println(strings.TrimLeftFunc("!.Hello World@#%", f))
    fmt.Println(strings.TrimRightFunc("!.Hello World@#%", f))
}
```



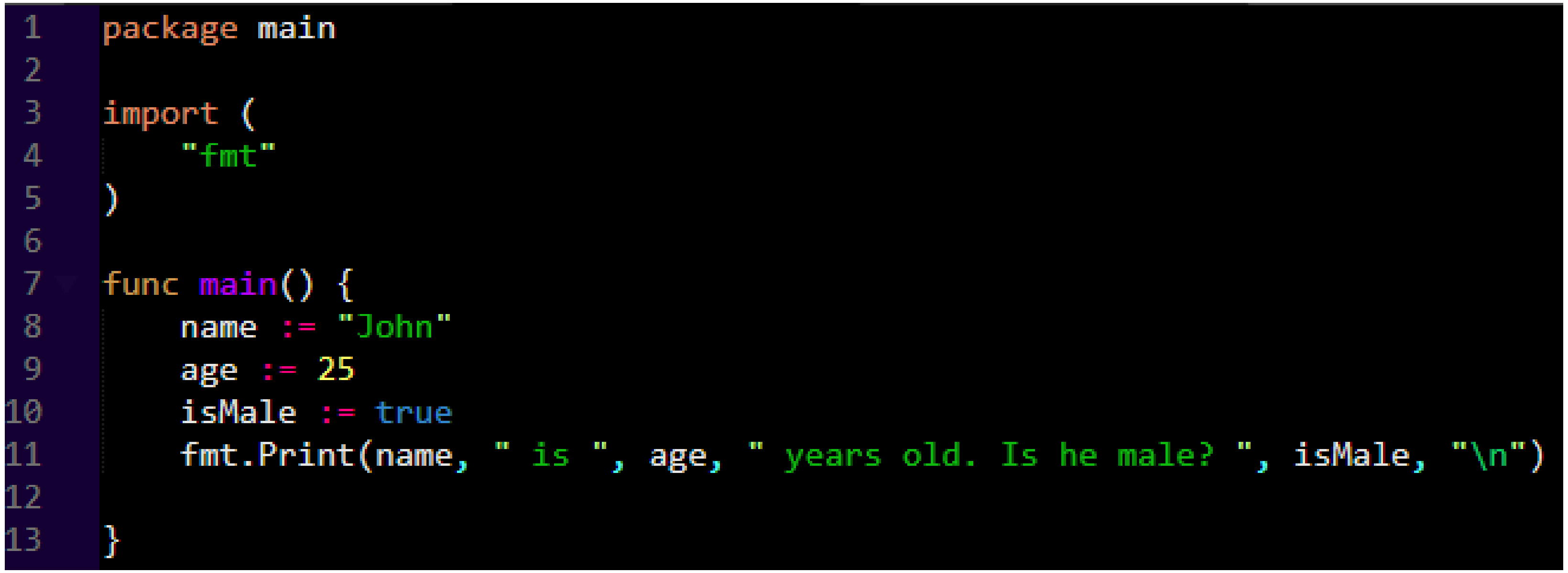
```
Hello World
Hello World@#%
!.Hello World
```

String Formatting

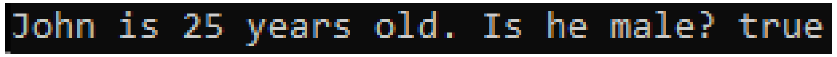
- Import fmt package



```go
func Print(a ...interface{}) (n int, err error)
```

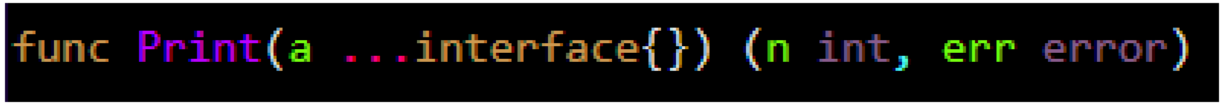


```go
package main

import (
    "fmt"
)

func main() {
    name := "John"
    age := 25
    isMale := true
    fmt.Print(name, " is ", age, " years old. Is he male? ", isMale, "\n")

}
```

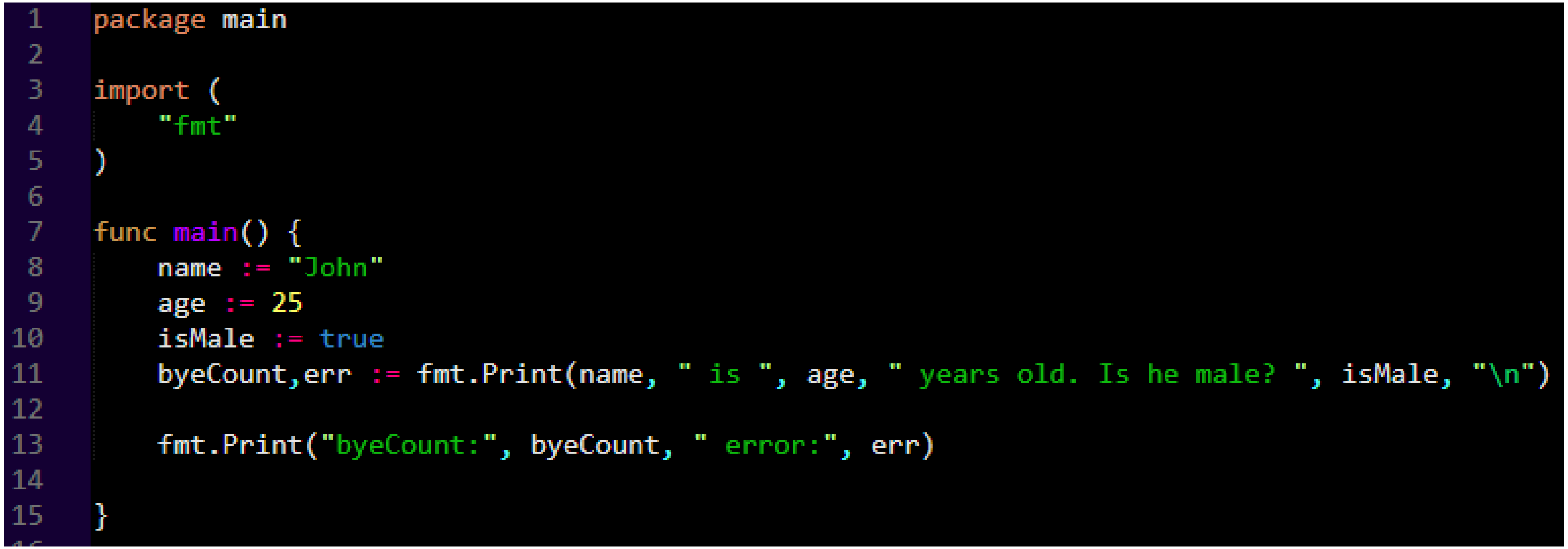


```
John is 25 years old. Is he male? true
```

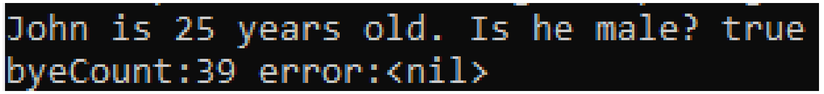
String Formatting



```
func Print(a ...interface{}) (n int, err error)
```

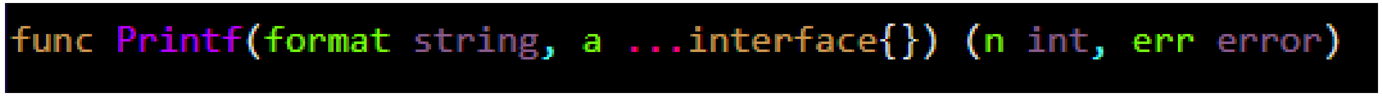


```go
package main

import (
    "fmt"
)

func main() {
    name := "John"
    age := 25
    isMale := true
    byeCount,err := fmt.Print(name, " is ", age, " years old. Is he male? ", isMale, "\n")

    fmt.Print("byeCount:", byeCount, " error:", err)

}
```

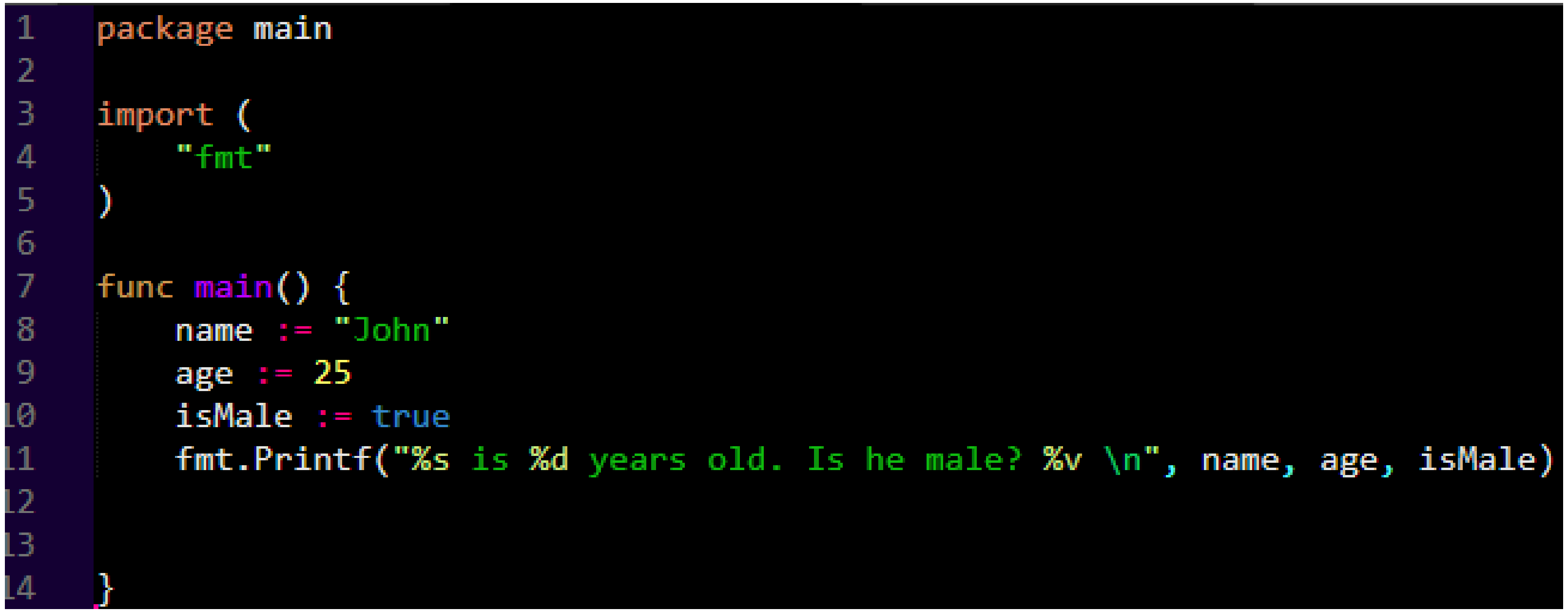


```
John is 25 years old. Is he male? true
byeCount:39 error:<nil>
```

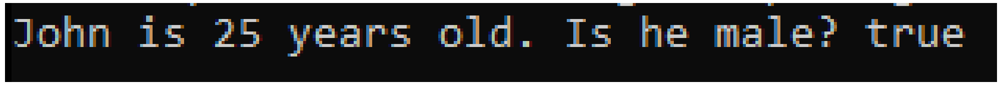
String formatting



```go
func Printf(format string, a ...interface{}) (n int, err error)
```



```go
package main

import (
    "fmt"
)

func main() {
    name := "John"
    age := 25
    isMale := true
    fmt.Printf("%s is %d years old. Is he male? %v \n", name, age, isMale)


}
```



```
John is 25 years old. Is he male? true
```

Thank You