

Switches, Leetcode

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Last week. . .

Last week (2 weeks ago) we covered the basics of Git.

We also had a look at the role of GitHub and its relation to Git.

Today

- ▶ Switch statements
 - ▶ Case
 - ▶ Default
 - ▶ Challenge
- ▶ Leetcode

Switch Statements

A switch statement is a short way to write a series of if statements. It will execute the a single branch – the first statement in the list which is equal to the “condition.”

Switch Example

...

```
func main() {  
    color := "blue"  
  
    switch color {  
    case "blue":  
        fmt.Println("The color of my car")  
    case "red":  
        fmt.Println("The color of my hat")  
    case "green":  
        fmt.Println("The color of my grass")  
    default:  
        fmt.Println("I have nothing of this color")  
    }  
}
```

Switch Condition

If you omit the condition in the switch statement, the first branch that matches with `true` will be selected.

Switch Truthy Example

...

```
func main() {  
    color := "blue"  
  
    switch {  
    case true: // Will always print here  
        fmt.Println("The color of my car")  
    case false:  
        fmt.Println("The color of my hat")  
    case color == "blue":  
        fmt.Println("The color of my grass")  
    default:  
        fmt.Println("I have nothing of this color")  
    }  
}
```

Switch Break

If you want to break early from a switch statement, you can use the break statement.

...

```
func main() {
    color := "blue"

    switch {
    case true: // Will always print here
        fmt.Println("The color of my car")
        if color == "blue"
            break;
        }
        fmt.Println("The color is not blue")
    default:
        fmt.Println("I have nothing of this color")
    }
}
```


Switch Fallthrough

```
v := 42
switch v {
case 100:
    fmt.Println(100)
    fallthrough
case 42:
    fmt.Println(42)
    fallthrough
case 1:
    fmt.Println(1)
    fallthrough
default:
    fmt.Println("default")
}
// Output:
// 42
// 1
// default
```

Switch Fallthrough

A fallthrough statement must be the last thing in the case.

The following will not work.

```
switch {  
  case f():  
    if g() {  
      fallthrough // Does not work!  
    }  
    h()  
  default:  
    error()  
}
```

Fallthrough also does not work in a type switch.

Multiple Cases

You can trigger the same case with multiple values by using a comma separated list.

```
func colors(color string) bool {
    switch color {
    case "blue", "red", "green":
        return true
    }
    return false
}
```

Noop Case

Sometimes you want certain cases to do nothing.

```
func pluralEnding(n int) string {
    ending := ""

    switch n {
    case 1:
    default:
        ending = "s"
    }

    return ending
}
```

```
fmt.Sprintf("foo%s\n", pluralEnding(1)) == "foo"
fmt.Sprintf("bar%s\n", pluralEnding(2)) == "bars"
```

Leetcode

Leetcode is a platform for you to improve your programming skills by solving challenges.

<https://leetcode.com>

Now we'll pick a couple of problems and go through solving them together in Go.

lesson 9, fin

If you had any trouble, now is the time to ask for help!

Questions?