

# Switch Case Statement

This lesson explains the key features of switch case statements and their use as an alternative to multiple if-else statements

## WE'LL COVER THE FOLLOWING ^

- Alternative to Multiple `ifelse` Statements
- Key Features

## Alternative to Multiple `ifelse` Statements #

We covered `if else` statements in the [previous lesson](#). However, most programming languages also have some sort of switch case statement to allow developers to avoid doing complex and ugly series of `if else` statements.

Here's an example demonstrating the concept:

```
package main

import (
    "fmt"
    "time"
)

func main() {
    now := time.Now().Unix()
    mins := now % 2
    switch mins {
    case 0:
        fmt.Println("even")
    case 1:
        fmt.Println("odd")
    }
}
```



## Key Features #

There are a few interesting things to know about this statement in Go:

- You can only compare values of the same type.
- You can set an optional **default** statement to be executed if all the others fail.
- You can use an expression in the **case** statement, for instance you can calculate a value to use in the case:

```
package main

import "fmt"

func main() {
    num := 3
    v := num % 2
    switch v {
    case 0:
        fmt.Println("even")
    case 3 - 2:
        fmt.Println("odd")
    }
}
```



- You can have multiple values in a **case** statement:

Environment Variables



Key:

Value:

GOPATH

/go

```
package main

import "fmt"

func main() {
    score := 7
    switch score {
    case 0, 1, 3:
        fmt.Println("Terrible")
    case 4, 5:
        fmt.Println("Mediocre")
    case 6, 7:
        fmt.Println("Not bad")
    case 8, 9:
        fmt.Println("Almost perfect")
    case 10:
```



```

        fmt.Println("hmm did you cheat?")
    default: //to be executed if no other case matches
        fmt.Println(score, " off the chart")
    }
}

```



- You can execute all the following statements after a match using the **fallthrough** statement:

## Environment Variables



Key: Value:

GOPATH /go

```

package main

import "fmt"

func main() {
    n := 4
    switch n {
    case 0:
        fmt.Println("is zero")
        fallthrough //if case matches, all following conditions will be executed as v
    case 1:
        fmt.Println("is <= 1")
        fallthrough
    case 2:
        fmt.Println("is <= 2")
        fallthrough
    case 3:
        fmt.Println("is <= 3")
        fallthrough
    case 4:
        fmt.Println("is <= 4")
        fallthrough
    case 5:
        fmt.Println("is <= 5")
        fallthrough
    case 6:
        fmt.Println("is <= 6")
        fallthrough
    case 7:
        fmt.Println("is <= 7")
        fallthrough
    case 8:
        fmt.Println("is <= 8")
        fallthrough
    default:
        fmt.Println("Try again!")
    }
}

```



You can use a **break** statement inside your matched statement to exit the switch processing:

#### Environment Variables



Key:

Value:

GOPATH

/go

```
package main

import (
    "fmt"
    "time"
)

func main() {
    n := 1
    switch n {
    case 0:
        fmt.Println("is zero")
        fallthrough
    case 1:
        fmt.Println("<= 1")
        fallthrough
    case 2:
        fmt.Println("<= 2")
        fallthrough
    case 3:
        fmt.Println("<= 3")
        if time.Now().Unix()%2 == 0 {
            fmt.Println("un pasito pa lante maria")
            break //execution stops here if this case matches i.e. no other case
        }
        fallthrough
    case 4:
        fmt.Println("<= 4")
        fallthrough
    case 5:
        fmt.Println("<= 5")
    }
}
```



This concludes the discussion on all the available control flow features in Go. The following lesson contains an exercise that tests a combination of these control flow features.

