Solution Review: Season of a Month

This lesson discusses the solution to the challenge given in the previous lesson.

WE'LL COVER THE FOLLOWING Using switch-case construct Using if-else construct

There are two methods to solve this problem:

- One is using the switch-case construct, which is the requirement of the problem statement
- The other is using the if-else construct.

We'll first discuss the switch-case solution.

Using switch-case construct





As you can see, we declare a function Season at **line 9**, which takes an integer value that represents a month as an input parameter. That parameter is the value of month. As per requirement, we add switch month to switch on the basis of the value of the month. There are **five** cases in total along with the default case.

- We make the first case at line 11 for the season of Winter. We return
 Winter for months of Jan, Feb, and Dec by using values 1,2, and 12
 respectively.
- We make the second case at line 12 for the season of Spring. We return
 Spring for months of Mar, Apr, and May by using values 3,4, and 5,
 respectively.
- We make the third case at **line 13** for the season of **Summer**. We return **Summer** for months of **June**, **July**, **and Aug** by using values **6**,7, and **8**, respectively.
- We make the fourth case at line 14 for the season of Autumn. We return
 Autumn for months of Sept, Oct, and Nov by using values 9,10, and 11
 respectively.
- Up till now, we have written 4 cases that cover all the seasons. But still, we need one case more. What if the user enters the wrong value for the month, less than 1 or greater than 12? In such a scenario, we have to have a *default* case: return "Season Unknown". If the user inputs an invalid value for the month, the season should be unknown.

The main function is at **line 5**, in which we have called the Season function to view the results. We pass **3** as a parameter to the function, which means the *second* case will be executed and **Spring** will be printed on the screen.

Using if-else construct

```
package main

import "fmt"

func main() {
	fmt.Printf(Season(3)) // calling function to find the season
```

```
func Season(month int) string {

    if (month == 12) || (month == 1) || (month == 2) { // Jan, Feb and Dec have we return "Winter"
    }else if (month == 3) || (month == 4) || (month == 5) { // March, Apr and May return "Spring"
    }else if (month == 6) || (month == 7) || (month == 8) { // June, July and Aug return "Summer"
    }else if (month == 9) || (month == 10)|| (month == 11) { // Sept, Oct and Nov he return "Autumn"
    }else { //value outside [1,12], then season is unknown return "Season unknown" }
}
```







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Season of a Month (if-else)

As you can see, we declare a function Season at **line 9**, which takes an integer value that represents a month as an input parameter. That parameter is the value of month. There are **five** conditions in total.

- We make the first condition at line 11 for the season of Winter. We return Winter for months of Jan, Feb, and Dec by using values 1,2, and 12 respectively.
- We make the second condition at line 13 for the season of Spring. We return Spring for months of Mar, Apr, and May by using values 3,4, and 5, respectively.
- We make the third condition at line 15 for the season of Summer. We return Summer for months of June, July, and Aug by using values 6,7, and 8, respectively.
- We make the fourth condition at line 17 for the season of Autumn. We return Autumn for months of Sept, Oct, and Nov by using values 9,10, and 11 respectively.
- Up till now, we have written 4 conditions that cover all the seasons, but there is still, an edge case. What if the user enters the wrong value for the month, less than 1 or greater than 12? In such a scenario, we have to have an else part: return "Season Unknown". If the user inputs an invalid value for the month, the season should be unknown.

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The main function is at **line 5**, in which we have called the Season function to view the results. We pass **3** as a parameter to the function, which means the *second* condition is true and **Spring** will be printed on the screen.

That's it about the solution. In the next lesson, you'll study another control construct in Go called the *for* construct.