## **Exercise: Sum of Squares**

Have fun with this exercise on select statements!

In this exercise, you are required to calculate the sum of squares of the numbers given using select statements, goroutines and channels.

1, 2, 3, 4, 5  
= 
$$(1)^2 + (2)^2 + (3)^2 + (4)^2 + (5)^2$$
  
=  $1 + 4 + 9 + 16 + 25$   
=  $55$   
Sum Of Squares

You have been provided with a skeleton in the code widget below. Pretty much everything is done for you except for the SumOfSquares function. You should be able to solve this problem using two channels and one goroutine. Let's have a look at the main function.

```
func main() {
  mychannel := make(chan int)
  quitchannel:= make(chan int)
  sum:= 0
  go func() {
    for i := 0; i < 6; i++ {
        sum += <-mychannel
    }
    fmt.Println(sum)

}()
SumOfSquares(mychannel, quitchannel)
}</pre>
```

So we have to calculate the sum of squares of numbers from 1 to 5 which equals 55. You will need to send values from the mychannel passed into the

SumOfSquares function to be received by <-mychannel in the main routine. In addition, you need to find a way to get out of the select statement that you will implement in the SumOfSquares function.

Remember that you have to implement the SumOfSquares function using the select statement.

## **Current Output:**

No output

## **Expected Output:**

55



```
package main
import "fmt"

func SumOfSquares(c, quit chan int) {

}

func main() {
    mychannel := make(chan int)
    quitchannel:= make(chan int)
    sum:= 0
    go func() {
        for i := 0; i < 6; i++ {
            sum += <-mychannel
        }
        fmt.Println(sum)

}()
SumOfSquares(mychannel, quitchannel)
}</pre>
```







[]

SumOfSquares

moving on to the solution review in the next lesson.