

# Golang Session

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Topic : Variadic Functions

# Select single argument from all arguments of variadic function.

```
package main
import "fmt"
func main() {
    variadicExample("red", "blue", "green", "yellow")
}
func variadicExample(s ...string) {
    fmt.Println(s[0])
    fmt.Println(s[3])
}
```

# Passing multiple string arguments to a variadic function

```
package main
import "fmt"
func main() {

    variadicExample()
    variadicExample("red", "blue")
    variadicExample("red", "blue", "green")
    variadicExample("red", "blue", "green", "yellow")
}
func variadicExample(s ...string) {
    fmt.Println(s)
}
```

# Normal function parameter with variadic function parameter

```
package main
import "fmt"
func main() {
    fmt.Println(calculation("Rectangle", 20, 30))
    fmt.Println(calculation("Square", 20))
}
func calculation(str string, y ...int) int {
    area := 1
    for _, val := range y {
        if str == "Rectangle" {
            area *= val
        } else if str == "Square" {
            area = val * val
        }
    }
    return area
}
```

# Pass different types of arguments in variadic function

```
package main
import (
    "fmt"
    "reflect"
)
func main() {
    variadicExample(1, "red", true, 10.5, []string{"foo", "bar", "baz"},
        map[string]int{"apple": 23, "tomato": 13})
}
func variadicExample(i ...interface{}) {
    for _, v := range i {
        fmt.Println(v, "--", reflect.ValueOf(v).Kind())
    }
}
```