

Going Loopy

adventures in iteration with Google Go

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the conditional loop

```
package main
import "fmt"

func main() {
    s := []int{0, 2, 4, 6, 8}
    for i := 0; i < len(s); i++ {
        fmt.Printf("%v: %v\n", i, s[i])
    }
}
```

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func main() {
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    }
}
```

```
0: 0
1: 2
2: 4
3: 6
4: 8
```

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func main() {
    s := []int{0, 2, 4, 6, 8}
    for i := 0; i < len(s); i++ {
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package main
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    s := []int{0, 2, 4, 6, 8}
    for i := 0; i < len(s); i++ {
        Printf("%v: %v\n", i, s[i])
    }
}
```

the infinite loop

```
package main
import . "fmt"

func main() {
    defer func() {
        recover()
    }()
    s := []int{0, 2, 4, 6, 8}
    for i := 0; ; i++ {
        Printf("%v: %v\n", i, s[i])
    }
}
```



```
package main
import . "fmt"

func main() {
    defer func() {
        recover()
    }()
    s := []int{0, 2, 4, 6, 8}
    for i := 0; ; i++ {
        Printf("%v: %v\n", i, s[i])
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package main
import . "fmt"

func main() {
    defer func() {
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    }()
    s := []int{0, 2, 4, 6, 8}
    for i := 0; ; i++ {
        Printf("%v: %v\n", i, s[i])
    }
}
```

the range

```
package main
import . "fmt"

func main() {
    s := []int{0, 2, 4, 6, 8}
    for i, v := range s {
        Printf("%v: %v\n", i, v)
    }
}
```

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        Printf("%v: %v\n", i, v)
    }
}
```

a functional interlude

```
package main
import . "fmt"

func main() {
    print_slice([]int{0, 2, 4, 6, 8})
}

func print_slice(s []int) {
    for i, v := range s {
        Printf("%v: %v\n", i, v)
    }
}
```

```
package main
import . "fmt"

func main() {
    print_slice([]int{0, 2, 4, 6, 8})
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package main
import . "fmt"

func main() {
    print_slice(0, 2, 4, 6, 8)
}

func print_slice(s ...int) {
    for i, v := range s {
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```

asserting type

```
package main
import . "fmt"

func main() {
    print_slice([]int{0, 2, 4, 6, 8})
}

func print_slice(s interface{}) {
    for i, v := range s.([]int) {
        Printf("%v: %v\n", i, v)
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package main
import . "fmt"

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}

func print_slice(s interface{}) {
    switch s := s.(type) {
    case []int:
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closures

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import . "fmt"

func main() {
    s := []int{0, 2, 4, 6, 8}
    print_slice(func(i int) int { return s[i] })
}

func print_slice(s interface{}) {
    switch s := s.(type) {
    case func(int) int:
        for i := 0; i < 5; i++ {
            Printf("%v: %v\n", s(i))
        }
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}

```

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            Printf("%v: %v\n", s(i))
        }
    }
}
```

upon reflection

```

package main
import . "fmt"

func main() {
    s := []int{0, 2, 4, 6, 8}
    print_values(s)
    print_values(func(i int) int { return s[i] * 2 })
}

func print_values(s interface{}) {
    switch s := s.(type) {
    case func(int) int:
        for i := 0; i < 5; i++ {
            Printf("%v: %v\n", s(i))
        }
    case []int:
        for i, v := range s {
            Printf("%v: %v\n", i, v)
        }
    }
}

```



```

package main
import . "fmt"

func main() {
    s := []int{0, 2, 4, 6, 8}
    print_values(s)
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func print_values(s interface{}) {
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            Printf("%v: %v\n", s(i))
        }
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    case []int:
        for i, v := range s {
            Printf("%v: %v\n", i, v)
        }
    }
}

```

```

package main
import . "fmt"
import . "reflect"

func main() {
    s := []int{0, 2, 4, 6, 8}
    print_values(s)
    print_values(func(i int) int { return s[i] })
}

func print_values(s interface{}) {
    switch s := ValueOf(s); s.Kind() {
    case Func:
        p := []Value{ ValueOf(i) }
        for i := 0; i < 5; i++ {
            Printf("%v: %v\n", s.Call(p)[0].Interface{})
        }
    case Slice:
        for i := 0; i < s.Len(); i++ {
            Printf("%v: %v\n", i, s.Index(i))
        }
    }
}

```

```

package main
import . "fmt"
import . "reflect"

func main() {
    s := []int{0, 2, 4, 6, 8}
    print_values(s)
    print_values(func(i int) int { return s[i] })
}

func print_values(s interface{}) {
    switch s := ValueOf(s); s.Kind() {
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        for i := 0; i < 5; i++ {
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package main
import . "fmt"
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func main() {
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import . "fmt"
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package main
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    s := []int{0, 2, 4, 6, 8}
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<http://golang.org/>

#golang