

1 Count Digits

```
package main
import "fmt"
func main() {
    var n, c int
    fmt.Scan(&n)
    for n > 0 { c++; n /= 10 }
    fmt.Println("Digits:", c)
}
```

2 Product of Digits

```
package main
import "fmt"
func main() {
    var n, p = 0, 1
    fmt.Scan(&n)
    for n > 0 { p *= n % 10; n /= 10 }
    fmt.Println("Product:", p)
}
```

3 Positive & Negative Count

```
package main
import "fmt"
func main() {
    var n, x, p, ne int
    fmt.Scan(&n)
    for i := 0; i < n; i++ {
        fmt.Scan(&x)
        if x > 0 { p++ } else if x < 0 { ne++ }
    }
    fmt.Println("Positive:", p, "Negative:", ne)
}
```

4 Even Index Elements

```
package main
import "fmt"
func main() {
    var n int
    fmt.Scan(&n)
    a := make([]int, n)
    for i := range a { fmt.Scan(&a[i]) }
    for i := 0; i < n; i += 2 { fmt.Println(i, ":", a[i]) }
}
```

5 Odd Index Elements

```
package main
```

```
import "fmt"
func main() {
    var n int
    fmt.Scan(&n)
    a := make([]int, n)
    for i := range a { fmt.Scan(&a[i]) }
    for i := 1; i < n; i += 2 { fmt.Println(i, ":", a[i]) }
}
```

6 Row & Column Sum (3x3)

```
package main
import "fmt"
func main() {
    var m [3][3]int
    for i := range m { for j := range m[i] { fmt.Scan(&m[i][j]) } }
    for i := range m {
        r := 0
        for _, v := range m[i] { r += v }
        fmt.Println("Row", i, "=", r)
    }
    for j := 0; j < 3; j++ {
        c := 0
        for i := 0; i < 3; i++ { c += m[i][j] }
        fmt.Println("Col", j, "=", c)
    }
}
```

7 Diagonal Sum

```
package main
import "fmt"
func main() {
    var m [3][3]int
    for i := range m { for j := range m[i] { fmt.Scan(&m[i][j]) } }
    d1, d2 := 0, 0
    for i := 0; i < 3; i++ { d1 += m[i][i]; d2 += m[i][2-i] }
    fmt.Println("Main:", d1, "Sec:", d2)
}
```

8 ASCII Values

```
package main
import "fmt"
func main() {
    var s string
    fmt.Scan(&s)
    for i := range s { fmt.Printf("%c=%d\n", s[i], s[i]) }
}
```

9 Concatenate Strings

```
package main
import "fmt"
func main() {
    fmt.Println("Hello" + " " + "World")
}
```

10 String Info

```
package main
import "fmt"
func main() {
    var s string
    fmt.Scan(&s)
    fmt.Println("Len:", len(s), "First:", string(s[0]), "Last:", string(s[len(s)-1]))
}
```

1 1 Go Structure

```
package main
import "fmt"
type S struct{ id int; name, class string }
func main() {
    s := S{101, "A", "B.Sc CS"}
    fmt.Println(s.id, s.name, s.class)
}
```