

Codificação de Programas em Go

```
// ALG01
package main
import "fmt"
func main() {
    fmt.Println("Bom dia")
}

// ALG02
package main
import ("fmt"; "bufio"; "os")
func main() {
    reader := bufio.NewReader(os.Stdin)
    text, _ := reader.ReadString('\n')
    var X int
    fmt.Sscanf(text, "%d", &X)
    fmt.Printf("%d\n", X)
}

// ALG03
package main
import ("fmt"; "bufio"; "os")
func main() {
    reader := bufio.NewReader(os.Stdin)
    text, _ := reader.ReadString('\n')
    var X int
    fmt.Sscanf(text, "%d", &X)
    Y := X * X
    fmt.Printf("%d\n", Y)
}

// ALG04
package main
import ("fmt"; "bufio"; "os")
func main() {
    reader := bufio.NewReader(os.Stdin)
    text, _ := reader.ReadString('\n')
    var X int
    fmt.Sscanf(text, "%d", &X)
    text, _ = reader.ReadString('\n')
    var Y int
    fmt.Sscanf(text, "%d", &Y)
    Z := X + Y
    fmt.Printf("%d\n", Z)
}

// ALG05
package main
import ("fmt"; "bufio"; "os")
func main() {
    reader := bufio.NewReader(os.Stdin)
    text, _ := reader.ReadString('\n')
    var X int
    fmt.Sscanf(text, "%d", &X)
    text, _ = reader.ReadString('\n')
    var Y int
    fmt.Sscanf(text, "%d", &Y)
    Z := X*X + Y*Y
    fmt.Printf("%d\n", Z)
}

// ALG06
package main
import ("fmt"; "bufio"; "os")
func main() {
    reader := bufio.NewReader(os.Stdin)
    text, _ := reader.ReadString('\n')
    var X int
    fmt.Sscanf(text, "%d", &X)
    if X > 100 {
        fmt.Printf("%d\n", X)
    }
}

// ALG07
package main
import ("fmt"; "bufio"; "os")
func main() {
    reader := bufio.NewReader(os.Stdin)
    text, _ := reader.ReadString('\n')
    var X int
    fmt.Sscanf(text, "%d", &X)
    text, _ = reader.ReadString('\n')
    var Y int
    fmt.Sscanf(text, "%d", &Y)
    if X > 100 {
        Z := X + Y
        fmt.Printf("%d\n", Z)
    }
}

// ALG08
package main
import ("fmt"; "bufio"; "os")
func main() {
    reader := bufio.NewReader(os.Stdin)
    text, _ := reader.ReadString('\n')
    var X int
    fmt.Sscanf(text, "%d", &X)
    text, _ = reader.ReadString('\n')
    var Y int
    fmt.Sscanf(text, "%d", &Y)
    if X <= Y {
        fmt.Printf("%d\n", X)
    } else {
        fmt.Printf("%d\n", Y)
    }
}

// ALG09
package main
import ("fmt"; "bufio"; "os")
func main() {
    reader := bufio.NewReader(os.Stdin)
    text, _ := reader.ReadString('\n')
    var X int
    fmt.Sscanf(text, "%d", &X)
    var Y int
    if X >= 10 {
        Y = X * X
    } else {
        Y = X * X * X
    }
    fmt.Printf("%d\n", Y)
}

// ALG10
package main
import ("fmt"; "bufio"; "os")
func main() {
    reader := bufio.NewReader(os.Stdin)
    text, _ := reader.ReadString('\n')
    var X int
    fmt.Sscanf(text, "%d", &X)
    text, _ = reader.ReadString('\n')
    var Y int
    fmt.Sscanf(text, "%d", &Y)
    var N1 int
    var N2 int
    if X > Y {
        N1 = Y
        N2 = X
    } else {
        N1 = X
        N2 = Y
    }
    fmt.Printf("%d\n", N1)
    fmt.Printf("%d\n", N2)
}
```

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```
// ALG11
package main
import "fmt"
func main() {
    X := 0
    for I := 1; I <= 10; I++ {
        fmt.Printf("%d\n", X)
        X += 2
    }
}

// ALG12
package main
import "fmt"
func main() {
    X := 1
    for I := 1; I <= 10; I++ {
        fmt.Printf("%d\n", X)
        X *= 2
    }
}
```