

**Instituição: Universidade Federal de Goiás**

**Disciplina: Introdução à Programação**

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### **Lista 1**

1) <https://www.programiz.com/online-compiler/33asKyrVIJ4A1>

```
package main
import "fmt"
import "math"
func main() {
    var n1, n2, n3, media float64
    fmt.Scanf("%v", &n1)
    fmt.Scanf("%v", &n2)
    fmt.Scanf("%v", &n3)
    media=(n1+n2+n3)/3
    roundmedia := math.Round(100 * media) / 100
    fmt.Printf("MEDIA = %v\n", roundmedia)
    if media >= 6 {
        fmt.Print("APROVADO")
    } else {
        fmt.Print("REPROVADO")
    }
}
```

2) <https://www.programiz.com/online-compiler/2pgWfbSKfYmIZ>

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

```

var (
    publico, popular, geral, arquibancada, cadeiras, renda float64
    n int
)
fmt.Scanf("%v", &n)
for i := 1; i <= n; i++ {
    fmt.Scanf("%v", &publico)
    fmt.Scanf("%v", &popular)
    fmt.Scanf("%v", &geral)
    fmt.Scanf("%v", &arquibancada)
    fmt.Scanf("%v", &cadeiras)
    renda = publico*(popular + 5*geral + 10*arquibancada + 20*cadeiras)/100
    roundrenda := math.Round(100*renda)/100
    fmt.Printf("A RENDA DO JOGO N.%v E = %v\n", i, roundrenda)
}
}

```

3) <https://www.programiz.com/online-compiler/6650kVli9oIOY>

```

package main
import "fmt"
func main() {
    var n1, n2, n3, x int
    fmt.Scanf("%v", &n1)
    fmt.Scanf("%v", &n2)
    fmt.Scanf("%v", &n3)
    if n1 < 10 && n2 < 10 && n3 < 10 {
        if n1 != 0 {
            x = (100*n1 + 10*n2 + n3)*(100*n1 + 10*n2 + n3)
            fmt.Printf("%v%v%v, %v", n1, n2, n3, x)
        } else if n2 != 0 {
            fmt.Printf("%v%v, %v", n2, n3, x)
            x = (10*n2 + n3)*(10*n2 + n3)
        }
    }
}

```

```

    } else {
        fmt.Printf("%v, %v", n3, x)
        x = n3 * n3
    }
} else {
    fmt.Print("DIGITO INVALIDO")
}
}

```

4) <https://www.programiz.com/online-compiler/4K0rCuFCI1DHj>

```

package main
import "fmt"
func main() {
    var salario, gastoenergia, precokw, custodinheiro, custodesconto float64
    fmt.Scanf("%v", &salario)
    fmt.Scanf("%v", &gastoenergia)
    precokw = 0.007*salario
    custodinheiro = gastoenergia*precokw
    custodesconto = 0.9*custodinheiro
    fmt.Printf("Custo por kW: R$ %v\n", precokw)
    fmt.Printf("Custo de consumo: R$ %v\n", custodinheiro)
    fmt.Printf("Custo com desconto: R$ %v\n", custodesconto)
}

```

5) <https://www.programiz.com/online-compiler/8Hdesq1vwLOnZ>

```

package main
import "fmt"
import "math"
func main() {
    var (

```

```

    tipo string
    conta int
    agua, custo float64
)
fmt.Scanf("%v", &conta)
fmt.Scanf("%v", &agua)
fmt.Scanf("%v", &tipo)
if tipo == "R" {
    custo = 0.05*agua + 5
} else if tipo == "C" {
    if agua >= 80 {
        custo = 0.25*(agua - 80) + 500
    } else {
        custo = 500
    }
} else if tipo == "I" {
    if agua >= 100 {
        custo = 0.04*(agua - 100) + 800
    } else {
        custo = 800
    }
}
fmt.Printf("CONTA = %v\n", conta)
roundcusto := math.Round(100*custo)/100
fmt.Printf("VALOR DA CONTA = %v\n", roundcusto)
}

```

6) <https://www.programiz.com/online-compiler/0P7q8pbn6lJxl>

```

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

```

```

var (
    C, F float64
    n int
)
fmt.Scanf("%v", &n)
for i := 1; i <= n; i++ {
    fmt.Scanf("%v", &F)
    C = 5*(F - 32)/9
    roundF := math.Round(100*F)/100
    roundC := math.Round(100*C)/100
    fmt.Printf("%v FAHRENHEIT EQUIVALE A %v CELSIUS\n", roundF,
roundC)
}
}

```

7) <https://www.programiz.com/online-compiler/0oVUsYIVfEnGc>

```

package main
import "fmt"
import "math"
func main() {
    var C, F, mm, polegadas float64
    fmt.Scanf("%v", &F)
    C = (5 * F - 160) / 9
    roundC := math.Round(100 * C) / 100
    fmt.Scanf("%v", &polegadas)
    mm = 25.4 * polegadas
    roundmm := math.Round(100 * mm) / 100
    fmt.Printf("O VALOR EM CELSIUS = %v\n", roundC)
    fmt.Printf("A QUANTIDADE DE CHUVA E = %v\n", roundmm)
}

```

8) <https://www.programiz.com/online-compiler/8apFDVMTCeZsN>

```
package main
import "fmt"
func main() {
    var raio, altura, custo float64
    fmt.Scanf("%v", &raio)
    fmt.Scanf("%v", &altura)
    custo = 628.318 * raio * (raio + altura)
    fmt.Printf("O VALOR DO CUSTO E = %v\n", custo)
}
```

9) <https://www.programiz.com/online-compiler/7DMPcO6mM0ySQ>

```
package main
import "fmt"
import "math"
func main() {
    var a, b, c, delta float64
    fmt.Scanf("%v", &a)
    fmt.Scanf("%v", &b)
    fmt.Scanf("%v", &c)
    delta = b*b - 4*a*c
    rounddelta := math.Round(100*delta)/100
    fmt.Printf("O VALOR DE DELTA E = %v", rounddelta)
}
```

10) <https://www.programiz.com/online-compiler/0RZwteW9yCt00>

```
package main
import "fmt"
import "math"
```

```

func main() {
    var a, b, c, d, det float64
    fmt.Scanf("%v", &a)
    fmt.Scanf("%v", &b)
    fmt.Scanf("%v", &c)
    fmt.Scanf("%v", &d)
    det = a*d - b*c
    rounddet := math.Round(100*det)/100
    fmt.Printf("O VALOR DO DETERMINANTE E = %v", rounddet)
}

```

11) <https://www.programiz.com/online-compiler/5Yu3nwrzvtQUi>

```

package main
import "fmt"
func main() {
    var n int
    fmt.Scanf("%v", &n)
    if n % 3 == 0 && n % 5 == 0{
        fmt.Print("O NUMERO E DIVISIVEL\n")
    } else {
        fmt.Print("O NUMERO NAO E DIVISIVEL\n")
    }
}

```

12) <https://www.programiz.com/online-compiler/0xPSwLEunrae8>

```

package main
import "fmt"
func main() {
    var horas, custo int
    fmt.Scanf("%v", &horas)

```

```

if horas % 3 == 0 {
    custo = 10 * horas / 3
} else if horas % 3 == 1 {
    custo = 10 * (horas - 1) / 3 + 5
} else if horas % 3 == 2 {
    custo = 10 * (horas + 1) / 3
}
fmt.Printf("O VALOR A PAGAR E %v\n", custo)
}

```

13) <https://www.programiz.com/online-compiler/3pgWnuMMnYXHE>

```

package main
import "fmt"
import "math"
func main() {
    var nota float64
    fmt.Scanf("%v", &nota)
    roundnota := math.Round(10*nota)/10
    fmt.Printf("NOTA = %v CONCEITO = ", roundnota)
    if nota >= 0 && nota < 6 {
        fmt.Printf("D")
    } else if nota >= 6 && nota < 7.5 {
        fmt.Printf("C")
    } else if nota >= 7.5 && nota < 9 {
        fmt.Printf("B")
    } else if nota >= 9 && nota <= 10 {
        fmt.Printf("A")
    }
    fmt.Print("\n")
}

```



14) <https://www.programiz.com/online-compiler/5l9H3nknjbgyx>

```
package main
import "fmt"
import "math"
func main() {
    var altura, aresta, volume float64
    fmt.Scanf("%v", &altura)
    fmt.Scanf("%v", &aresta)
    volume = aresta*aresta*altura*math.Sqrt(3)/ 2
    roundvolume := math.Round(100*volume)/100
    fmt.Printf("O VOLUME DA PIRAMIDE E = %v METROS CUBICOS\n",
roundvolume)
}
```

15) <https://www.programiz.com/online-compiler/9xPS7yJbGryhQ>

```
package main
import "fmt"
func main() {
    var n int
    fmt.Scanf("%v", &n)
    if n > 5 && n < 2000 {
        for i:= 1; i <= n; i++ {
            if i % 2 == 0 {
                fmt.Printf("%v^2 = %v\n", i, i*i)
            }
        }
    }
}
```

16) <https://www.programiz.com/online-compiler/7Nw2iJHDyBaIU>

```

package main
import "fmt"
import "math"
func main() {
    var salarioantigo, salarionovo float64
    fmt.Scanf("%v", &salarioantigo)
    if salarioantigo <= 300 {
        salarionovo = 1.5 * salarioantigo
    } else {
        salarionovo = 1.3 * salarioantigo
    }
    roundsalarionovo := math.Round(100*salarionovo)/100
    fmt.Printf("SALARIO COM REAJUSTE = %v\n", roundsalarionovo)
}

```

17) <https://www.programiz.com/online-compiler/1K0rC7CdN1erq>

```

package main
import "fmt"
func main() {
    var x, y int
    fmt.Scanf("%v ", &x)
    if x % 2 == 0 {
        fmt.Scanf("%v\n", &y)
        for i := 1; i <= y; i++{
            fmt.Printf("%v ", x)
            x = x + 2
        }
    } else {
        fmt.Print("O PRIMEIRO NUMERO NAO E PAR")
    }
    fmt.Print("\n")
}

```

```
}
```

18) <https://www.programiz.com/online-compiler/5Yu3npsuFtAhy>

```
package main
import "fmt"
func main() {
    var a, r, n, soma int
    fmt.Scanf("%v ", &a)
    fmt.Scanf("%v ", &r)
    fmt.Scanf("%v", &n)
    for i := 1; i <= n; i++ {
        soma = soma + i
    }
    fmt.Printf("%v\n", soma)
}
```

19) <https://www.programiz.com/online-compiler/4650x3X0OoFmZ>

```
package main
import "fmt"
import "math"
func main() {
    var n, soma, i float64
    soma = 0
    fmt.Scanf("%v", &n)
    roundn := math.Round(n)
    if n > 1 && n == roundn {
        for i = 1; i <= n; i++ {
            soma = soma + 1/i
        }
        roundsoma := math.Round(1000000*soma)/1000000
    }
}
```

```
        fmt.Printf("%v", roundsoma)
    } else {
        fmt.Print("Numero invalido!")
    }
}
```

20) <https://www.programiz.com/online-compiler/7apF08TOvebnR>

```
package main
import "fmt"
func main() {
    var horas, minutos, segundos, temposegundos int
    fmt.Scanf("%v", &horas)
    fmt.Scanf("%v", &minutos)
    fmt.Scanf("%v", &segundos)
    temposegundos = 3600 * horas + 60 * minutos + segundos
    fmt.Printf("O TEMPO EM SEGUNDOS E = %v\n", temposegundos)
}
```