

# ITERAZIONE (cont.)

## FOR 0-ARIO

```
for {  
  Blocco  
}
```

```
=  
for true {  
  Blocco  
}
```

# FOR 3-ARIO

var m, c, s int

funct. Scan (&n)

c = 1

for

c <= m

s += c

c++

}

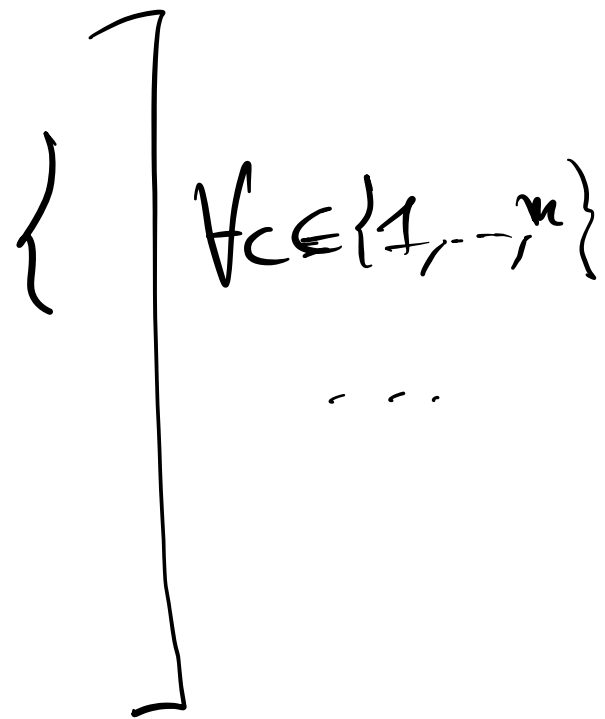
funct. Println (s)

guess :=  $n * (n + 1) / 2$

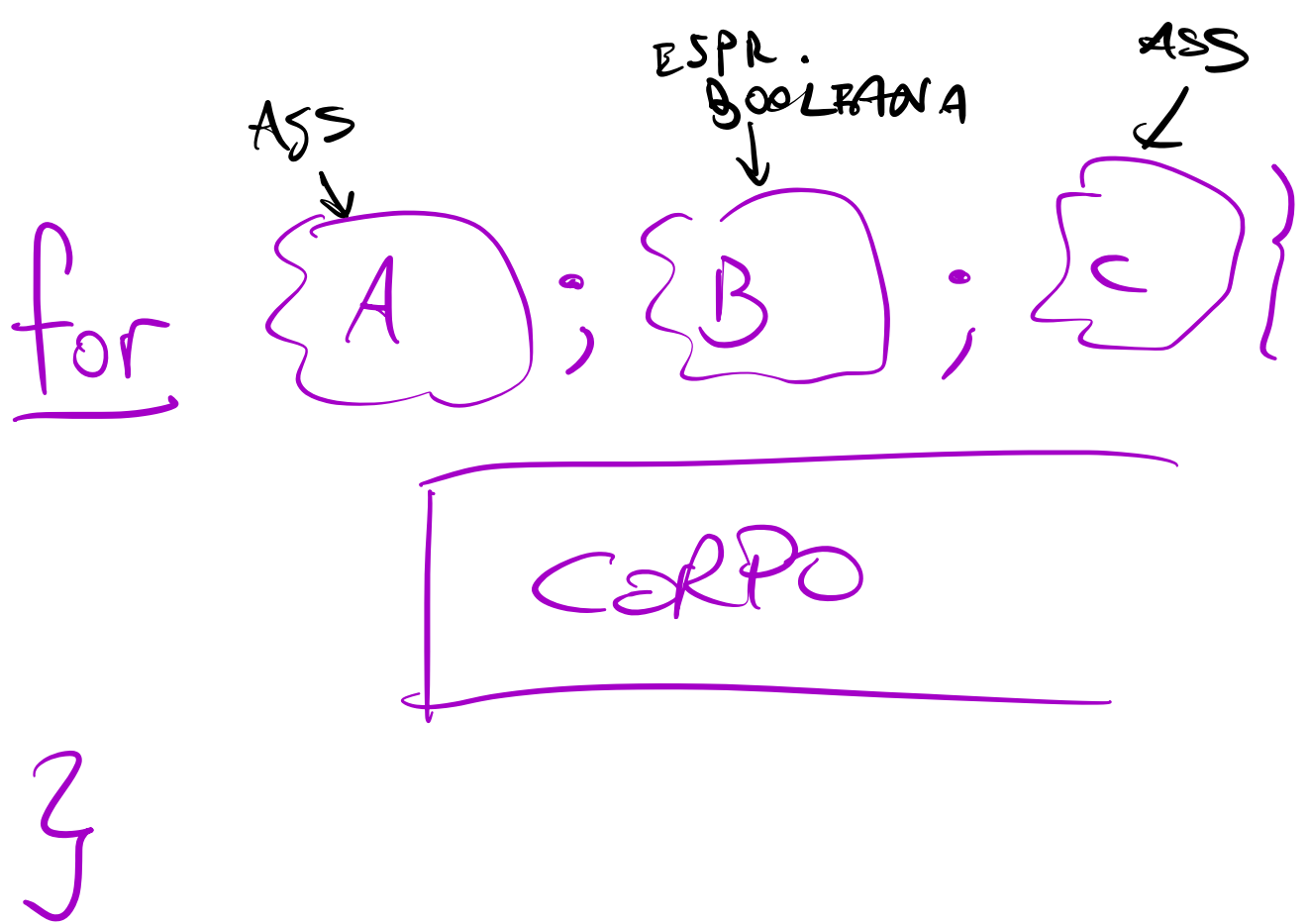
if

s != guess

funct. Println ("\*\*\*PAWCO")



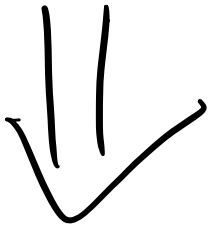
}



11



$c = 1$   
for  $c \leq n$  }  
 $s += c$   
 $c++$   
}



for  $c = 1; c \leq n; c++$  {  
 $s += c$   
}

```
for c:=1; c<=n; c++ {  
    S+=c  
}
```

FARE QUANTO COSA M VOLTE

```
for i:=1; i<=n; i++ {  
    fut.println("#")  
}
```

```
for i:=0; i<n; i++ {  
    fut.println("#")  
}
```

```
for i=n; i>0; i-- {  
    fact. Print ln("#")  
}
```

## ESEMPIO

- Data  $n$ , stampa  
i primi  $n$  quadrati  
perfetti.

Quanti? 7

0

1

4

9

16

25

36

var n int

fact.Scan(&n)

for i:=0; i<n; i++ {  
fact.Println(i\*i)

}

- Dada  $n$ , stampa  
le prime  $n$  potenze  
di 2

Quanti? 7

1

2

4

8

16

32

64



```

var n int
fact.Scan(&n)
for i:=0; i<n; i++ {
    p:=1
    for c:=0; c<i; c++ {
        p*=2
    }
    fact.Println(p)
}

```

Stampa la prima  $n$   
potenza di 2:

```

var n int
fut. Scan (&n)
for p:=1 i:=0 ; i < n ; i++ }
    fut. Println (p)
    p *= 2
}

```

Stampa le potenze di 2  
fino a n (compreso):

```

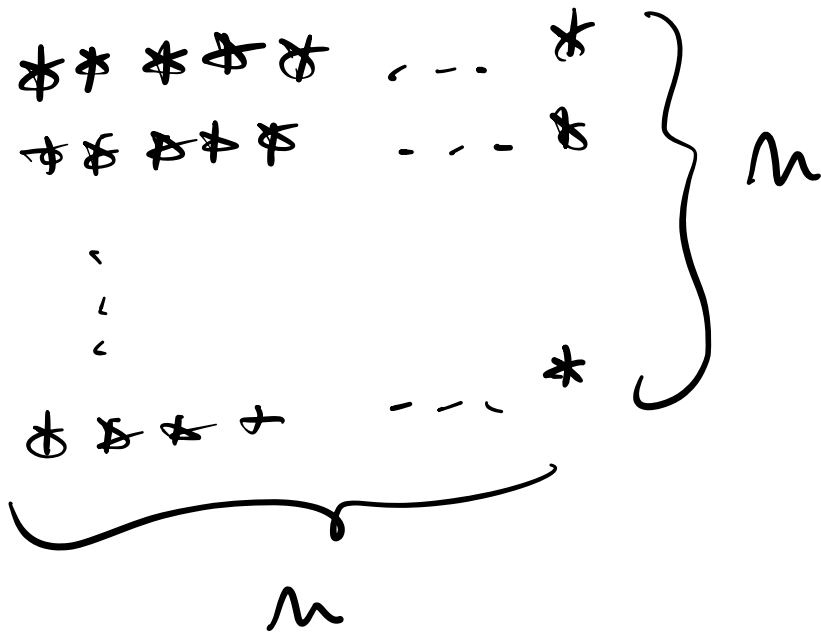
var n int
fut. Scan (&n)
for p:=1 ; p <= n ; p *= 2 }

```



# STAMPA DI PATTERN

- Data  $n$  stampa



var  $n$  int

fun. Scan (& $n$ )

for  $r := 0; r < n; r++$  {

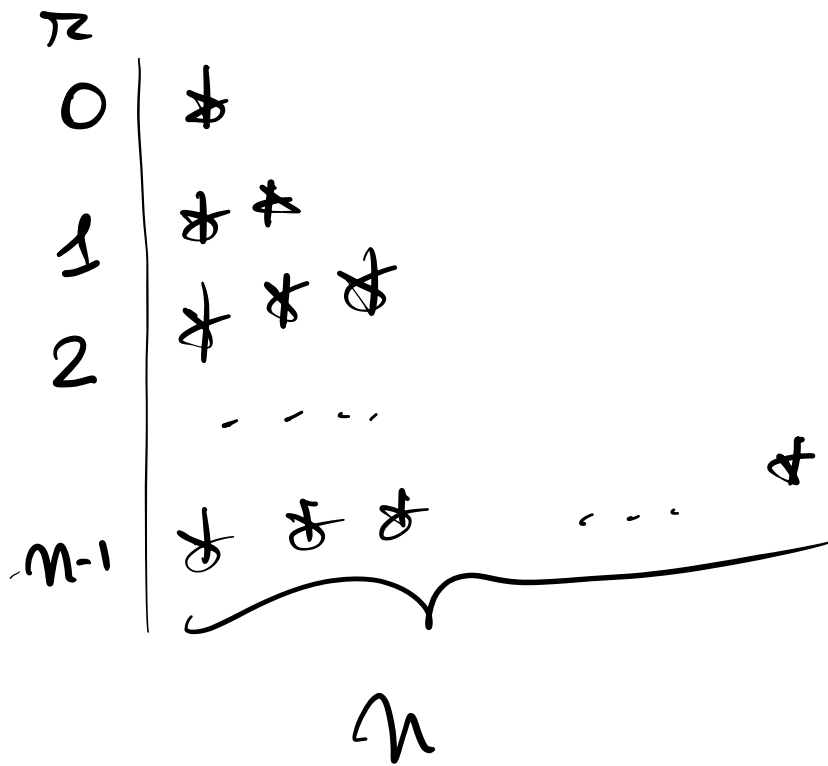
for  $c := 0; c < n; c++$  {  
        fun.Print ("\*")  
    }

fun.Print("\n")

func. PrintInC)

}

Data ~ stapabe



var      int  
n      n  
func. Scan (&n)

for       $n := 0; n < n; n++$  }  
             $c = 0; c < n; c++$  }

```
for i := 0; i < n; i++  
    fmt.Println("*")
```

```
}
```

```
fmt.Println
```

```
}
```

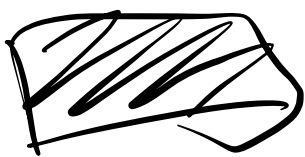
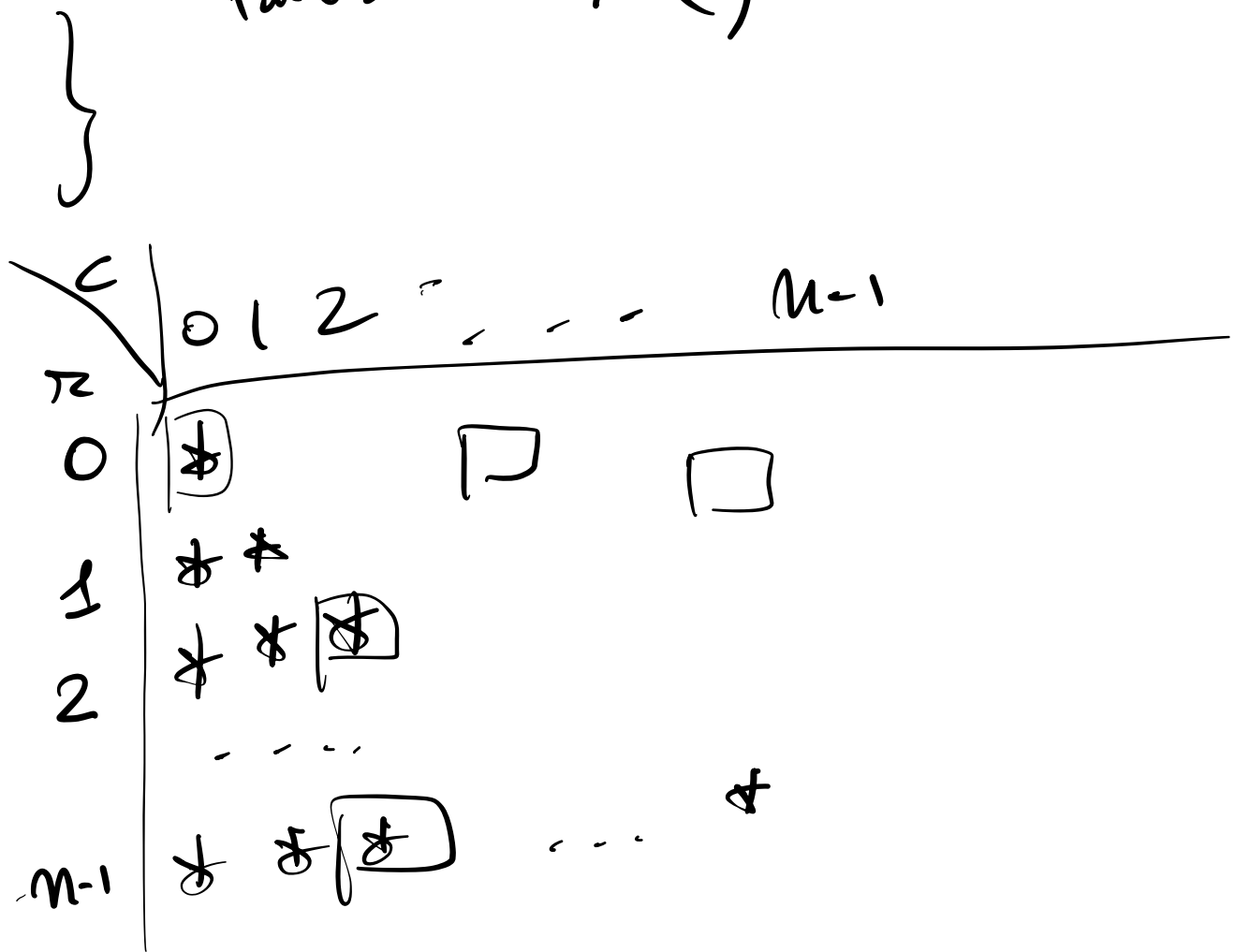
```
var    n    int
```

```
fmt.Scan(&n)
```

```
for r := 0; r < n; r++ {  
    for c := 0; c < n; c++ {  
                  
```

```
    }  
}
```

```
fmt.Println()
```



if

$c \leq r$

fmt.Print(" \* ")

else }

fmt.Print(" ")

}

# LETTURA RIPETUTA DI INPUT

LETTURA	IN	QUANTITA'	NOTA
---------	----	-----------	------

```
var m, h, s int  
fun. Print ("Quante persone?")  
fun. Scan (&m)  
for i:=0; i<m; i++ {  
    fun. Scan (&h)  
    s+=h  
}
```



media :=  $\frac{\text{float64}(s)}{\text{float64}(n)}$   
fmt.Println(media)

LETTURA CON "TAPPO" = 0

```
var n, h, s int  
[fmt.Scan(&n)  
  for h > 0 {  
    n++  
    s += h  
    [fmt.Scan(&h)  
  }  
  media := float64(s) / float64(n)
```

var m, h, s int

for

{

put\_Scan (&h)

if h == 0 {

break

}

s += h

n++

}

mediana := float64(s) / float64(n)

STABILIRE SE UN  
NUMERO È PRIMO

var entered bool  
var n int

fun. Scan (&n)

for d := 2; d < n; d++  
if n % d == 0 {  
    entered = true  
    break  
}

}

if entered {  
    fun. Println("Composite")  
}

Zeiler

font. Printer ("Piano")

5