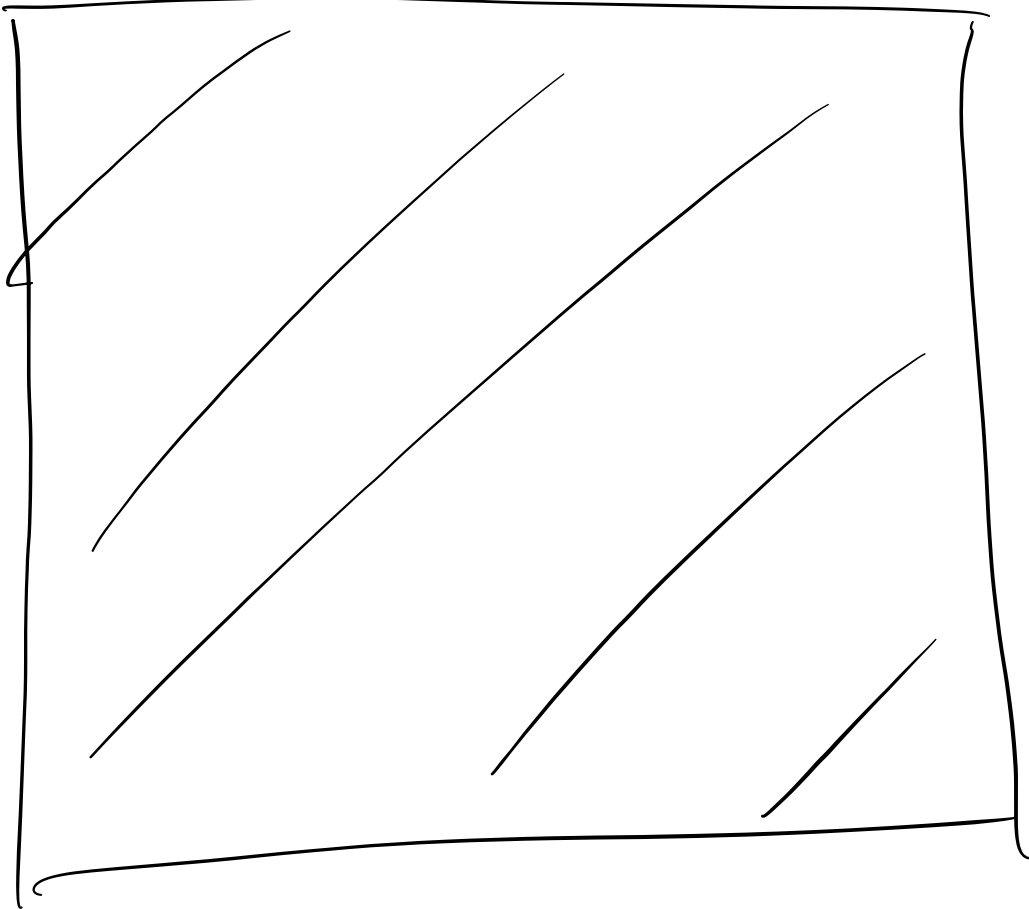


package main

import

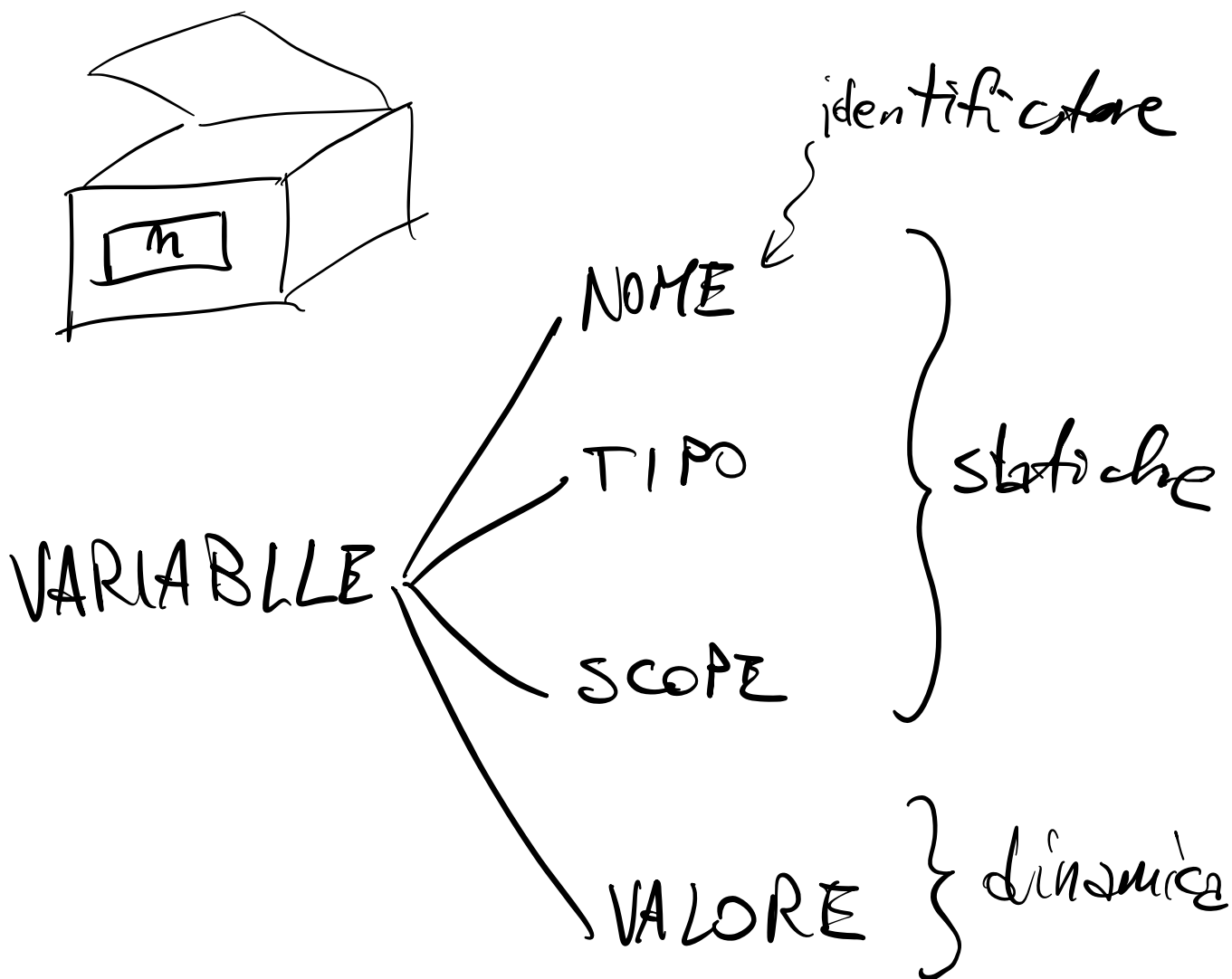
(  
"fmt"  
"  
...  
)

func main() {



}

# VARIABILI



DICHIARAZIONE DI  
VARIABLE

var id, id, id

tipo

(A) var x, y int  
var f float 64

---

(B) var x int  
var y int  
var f float 64

---

(C) var ( x, y int  
f float 64  
)

# DICHIARAZIONE PRIMA ~~DE~~'USO

```
func main () {  
    _____  
    _____  
    _____  
    var x int  
    _____  
    _____  
    _____  
    _____  
}
```

func

main ( ) {  
var x, i int

scope di  
x

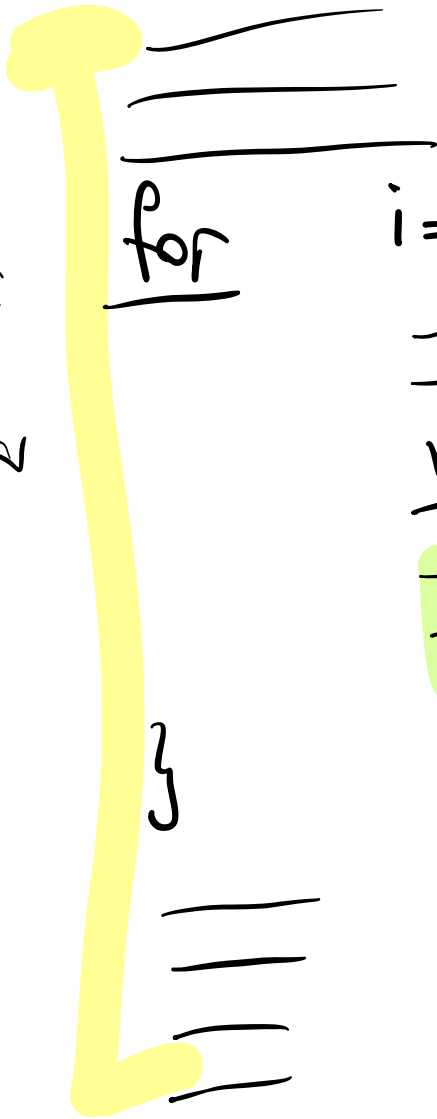
for i=0; i < n; i++ {

var y int



scope di  
y

}



func

main

( )

{

var

x, i

int

shadowing

for

i = 0; i < n; i++ }

scope di  
x

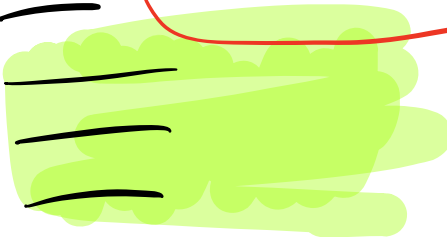
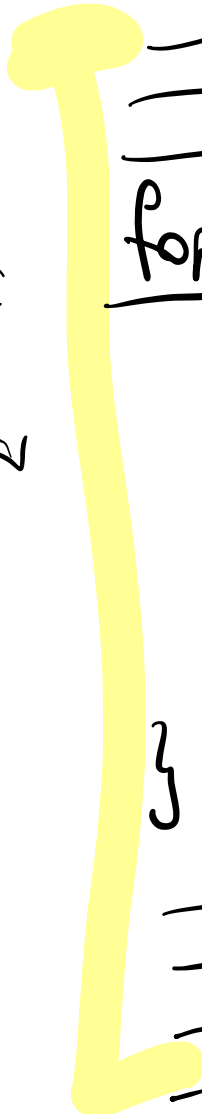
var

x

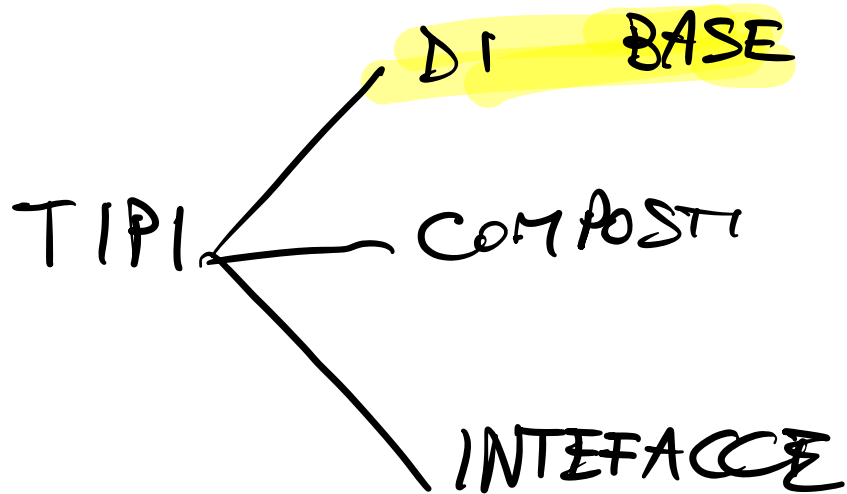
int

scope di  
y

}



# TIPPI IN GO



int

var x, y int

VALORE ZERO DI int è 0

a.go

```
[ var x, y int
  fnt. Println (x, y)
```

```
$> go run a.go
```

```
0 0
```

```
$>
```

b.go

```
[ var x, y int
  fnt. Print (x, y)
```

```
$> go run b.go
```

```
00 $>
```



OUTPUT

funct. Print( — , — , — )  
funct. Printf( — , — , — )

INPUT

funct. Scan (&x )

---

## ASSEGNAZIONE

variabile = espressione

var x, y int

$$x = 3$$

$$y = x$$

$$y = (x + 1) * 4$$

$$x = (x + 1) * (x + 1)$$

var x, y, z int

$$x = 5$$

$$\rightarrow y = (x + 1) + z * 3$$

$$x = y * x$$

$$z = x + y$$

fact. Println(x, z)

x 30

y 6

z 36

30   36

1 CFU = 25 h LAVORO  
12 CFU = 300 h LAVORO

72  
50  

---

122

ESPRESSIONI int

- COSTANTI int  
37, -2, -15, 1257

- VARIABILI int

- OPERATORI

+

-

\*

/ ← divisione intera

% ← resto della  
divisione

- PARENTESI ( )

$$3 * 7 + 4$$

$$4 + 3 * 7$$

$$(4 + 3) * 7$$

$$((4 + 3) * 7) / 3$$

$$(((4 + 3) * 7) \% 3)$$

```

var   x, y   int
fut. Scan (&x)
y = x / 10
fut. Print ln (y)

```

Steps  
units

$$\frac{1}{2} \rightarrow 2$$

```

var   x, y   int
fut. Scan (&x)
y = (x / 10) / 10
fut. Print ln (y)

```

Steps  
divide

$$\frac{1}{2} \rightarrow 4$$

$$(x / 100$$

$$) / 10$$

# ASSEGNAMENTI MULTIPLI

$id_1, id_2, \dots, id_n = espr_1, \dots, espr_n$

The diagram shows a sequence of identifiers  $id_1, id_2, \dots, id_n$  followed by an equals sign and a sequence of expressions  $espr_1, \dots, espr_n$ . A horizontal line is drawn below the identifiers and expressions. From the end of this line, an arrow points up to  $id_1$ . From the start of this line, an arrow points up to  $id_n$ . From the middle of this line, an arrow points up to  $espr_1$ . From the end of this line, an arrow points up to  $espr_n$ .

$x, y = y, x$

# SHORT ASSIGNMENT

variable := espressione

dichiarare + assegnare una  
variabile

var    x    int

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

for - . . .

x := 7

‘  
‘  
‘

}

}