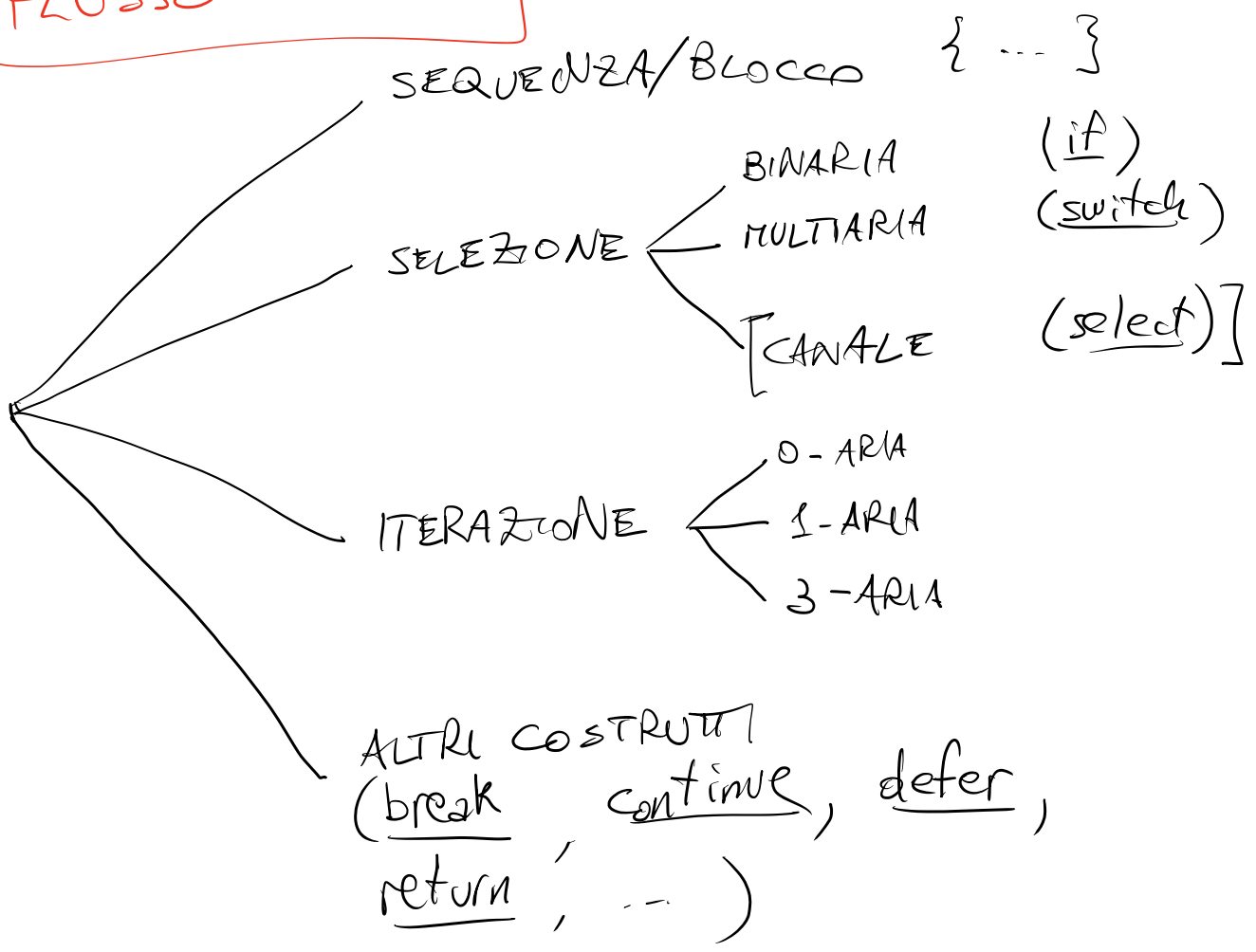
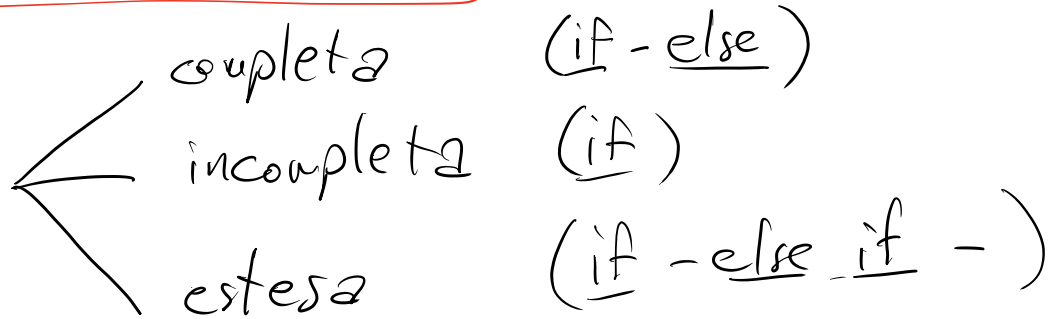


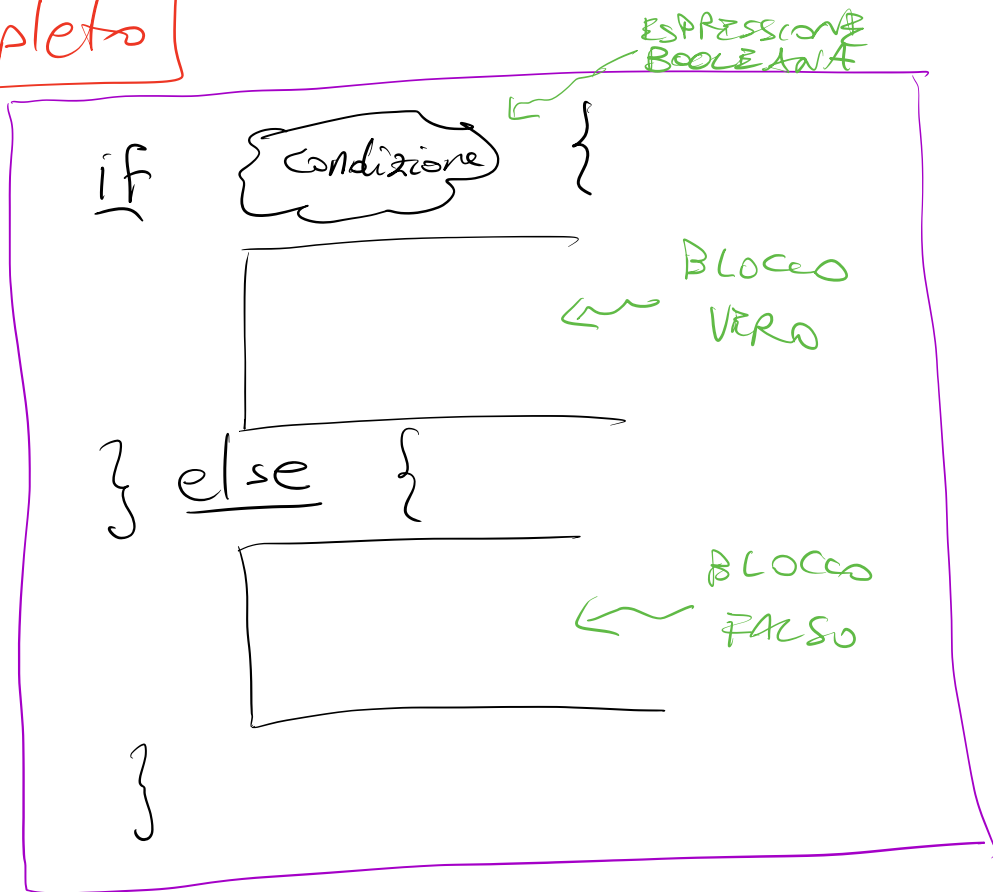
STRUTTURE DI CONTROLLO DEL FLUSSO



SELEZIONE BINARIA



IF completo



if incompleto

```
if { condiz }  
    {
```



← blocco vero

```
}  
}
```

```

Var annoNasc, annoCorr int
fut. Print("In che anno sei nato? ")
fut. Scan (&annoNasc)
fut. Print("In che anno sei? ")
fut. Scan (&annoCorr)
if annoCorr - annoNasc >= 18
    fut. Println("Sei maggiorenne!")
} else {
    fut. Println("Sei minorenni!")
}

```

>	>=	} operatori relazionali (int, float, ...)
<	<=	
==	!=	

var num1, den1, num2, den2 int

fun.Scan (&num1, &den1, ...)

var v1, v2 float64

v1 = float64(num1) / float64(den1)

v2 = float64(num2) / float64(den2)

if v1 > v2 {
fun.Println("La plus grande est")

} else {
...
}

$$\frac{n_1}{d_1} > \frac{n_2}{d_2}$$

$$n_1 d_2 > n_2 d_1$$

```
if { cond2 }  
    if { }  
    } else { }  
} else { }  
}
```

if estejo

```
if { cond1 }  
    { cond1 }  
} else if { cond2 }  
    { cond2 }  
} else if { cond3 }  
    { cond3 }  
} ... else { }  
}
```

```

if num1 * den2 > num2 * den1 {
    fut. Println ("Prima > seconda")
} else if num1 * den2 == num2 * den1 {
    fut. Println ("Prima = seconda")
} else {
    fut. Println ("Prima < seconda")
}

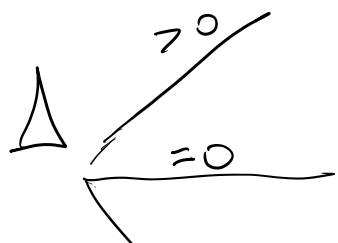
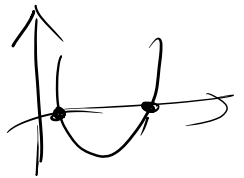
```

$$ax^2 + bx + c = 0$$

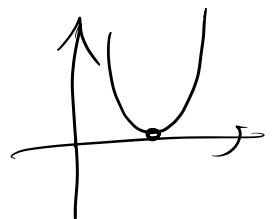
math.Sqrt ()

$$\Delta = b^2 - 4ac$$

$$x_{1,2} = \frac{-b \pm \sqrt{\Delta}}{2a}$$



$$x = \frac{-b}{2a}$$



< 0

NESS. SOL. $\in \mathbb{R}$



Var a, b, c, delta float64

fmt.Scan (&a, &b, &c)

delta = b*b - 4*a*c

if delta > 0 {

x1 := (-b + math.Sqrt(delta)) / (2*a)

x2 := (-b - math.Sqrt(delta)) / (2*a)

fmt.Println (x1, x2)

else if delta == 0 {

x := -b / (2*a)

fmt.Println (x)

else {

fmt.Println ("No n ci sono ...")

}

IL TIPO bool

var a, b, c, d bool

VALORI POSSIBILI true false

a = true

VALORE ZERO false

COME SI PRODUCONO:

> >=

< <=

== !=

Res. var x, y int

a = x > 3

b = x + 3 == y

OPERATORI LOGICI (bool)

&&

||

!

AND

OR

NOT

congiunzione

disgiunzione

negazione

"e"

"o"

"non"

&&

&&	false	true
false	false	false
true	false	true

||

	false	true
false	false	true
true	true	true

!

!	true	false
false	true	false
true	false	true

var x, y, z int

var a, b, c bool

x = 1

y = 2

a	true
b	true
c	false

$$\begin{aligned}
 \checkmark z = 3 \\
 a &= x > y \quad \text{false} \quad \parallel \quad y - x == z - y \quad \text{true} \\
 b &= a \quad \text{true} \quad \&\& \quad (x > 0 \quad \text{true} \quad \parallel \quad z < 4) \\
 c &= (a \quad \&\& \quad !b) \quad \parallel \quad (c \quad \&\& \quad y == z) \\
 &\quad \text{false} \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \text{false}
 \end{aligned}$$

IDENTITY BOOLEANS

$$a \&\& (a \parallel b) = a$$

$$a \&\& !a = \underline{\text{false}}$$