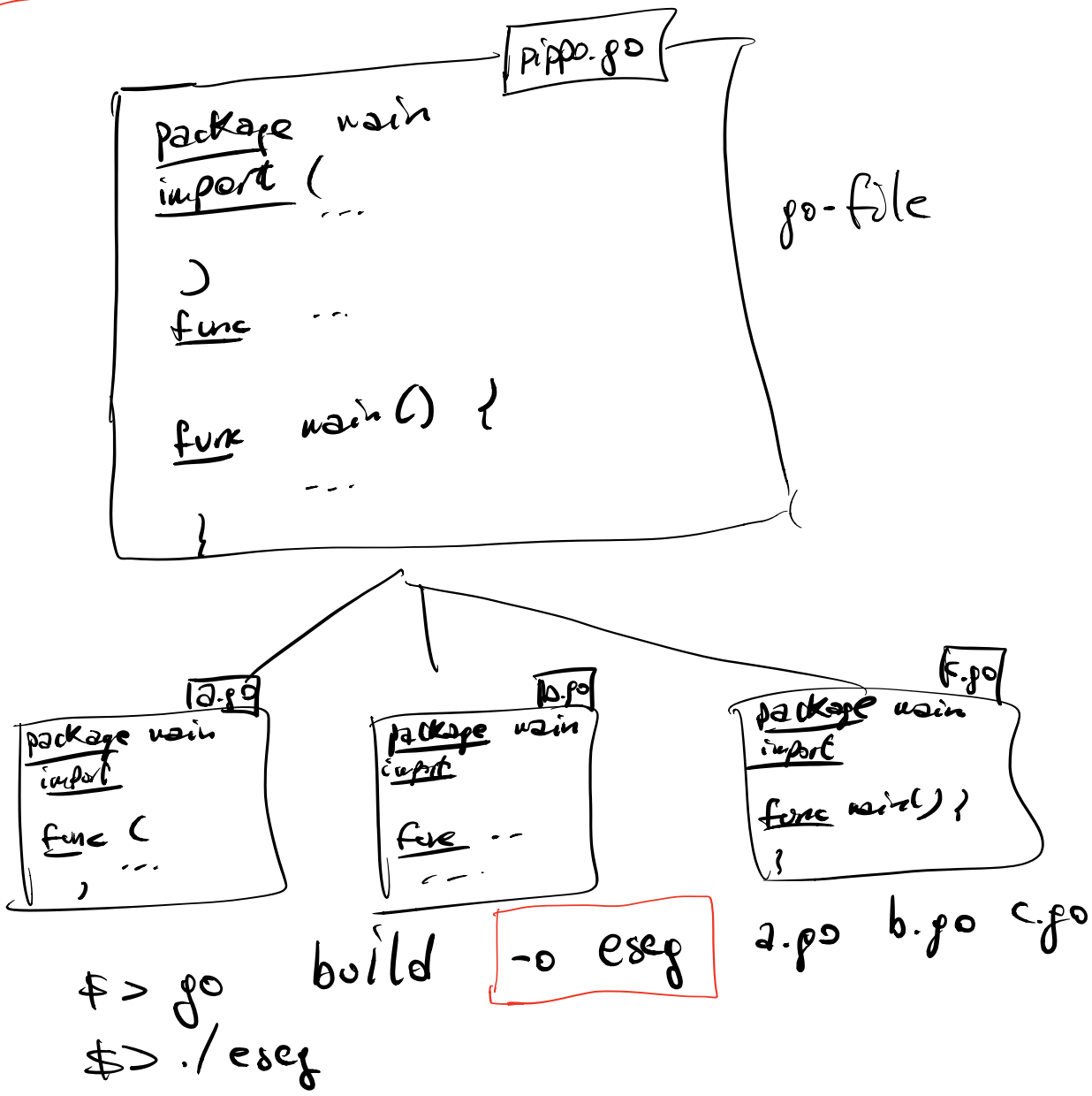
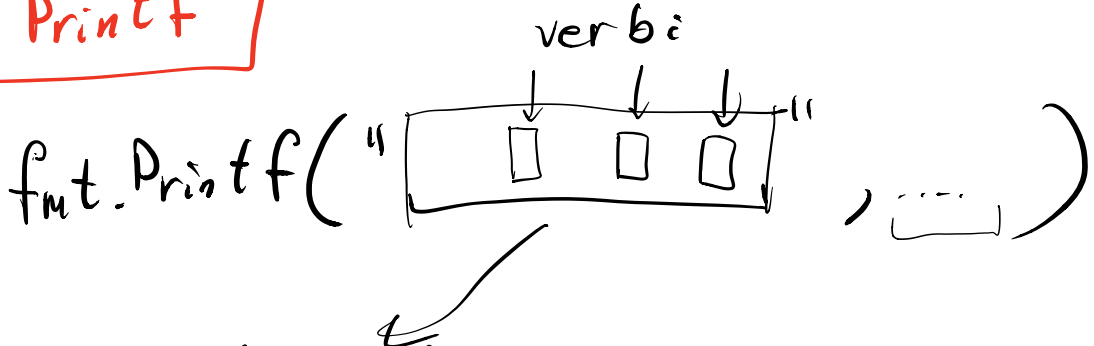
FILE SORGENTE MULTIPLI



fmt.Printf



fmt.Printf("Sei nato nell'anno %d quindi hai %d anni\n", annoNascita, anni)

%d intero

%f floating point

%.2f

%5.2f

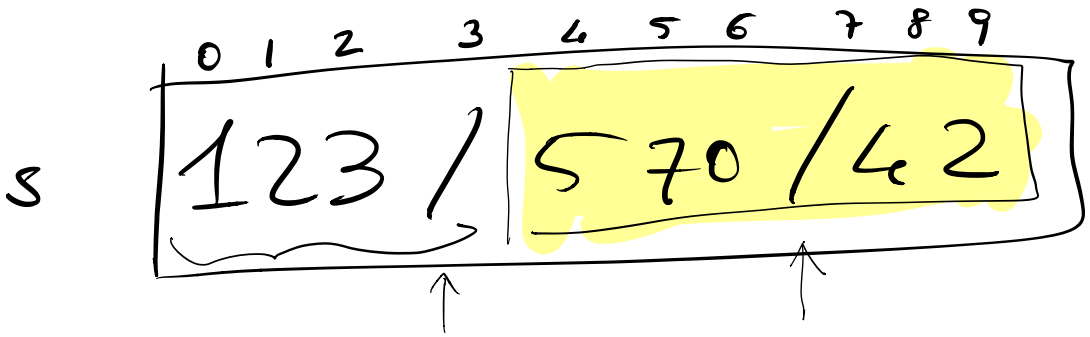
%7d

%s stringhe

%v stampa come fmt.Print lo stesso

fmt.Sprintf

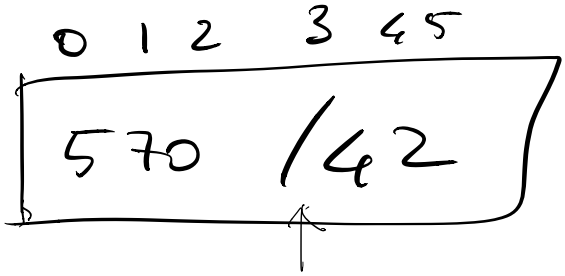
s := fmt.Sprintf("%d? ciao %s %d", x+1, t, x%4)



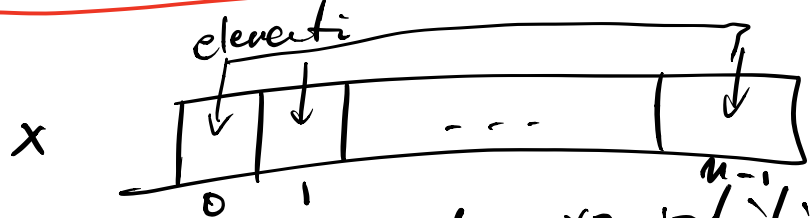
barra1 | 3 |

barra2 | 3 | + 4

s[barra1+1:]



ARRAY & SLICE

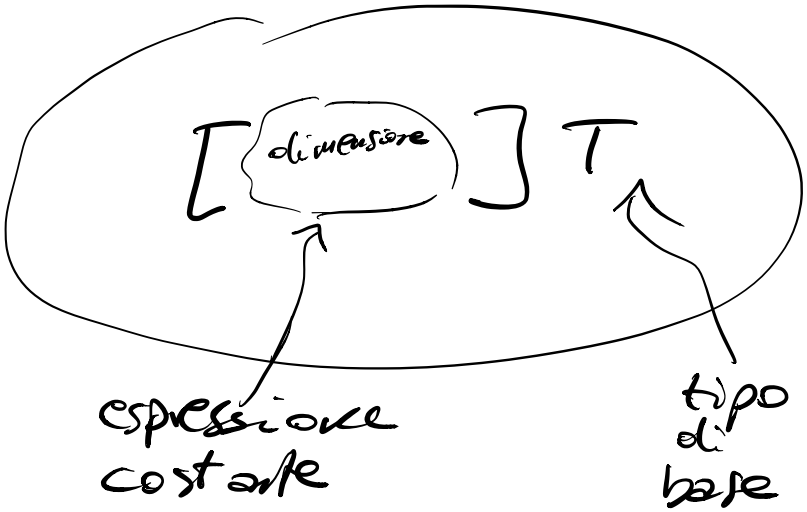


vettore di variabili
tutte dello stesso tipo
(tipo di base)

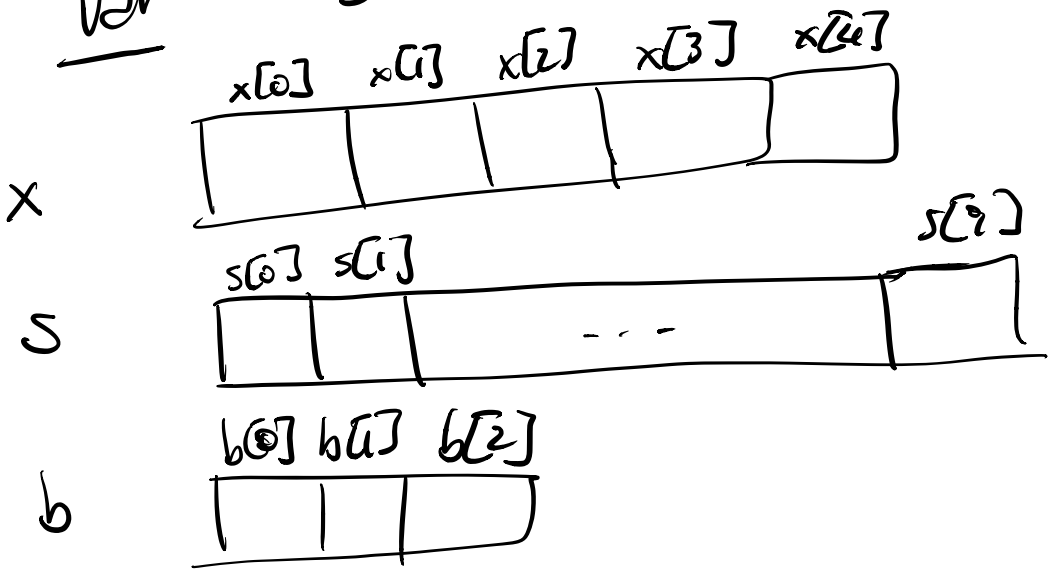
$x_0, x_1, x_2, \ldots, x_{n-1}$

x[0] x[1] ... x[n-1]

ARRAY

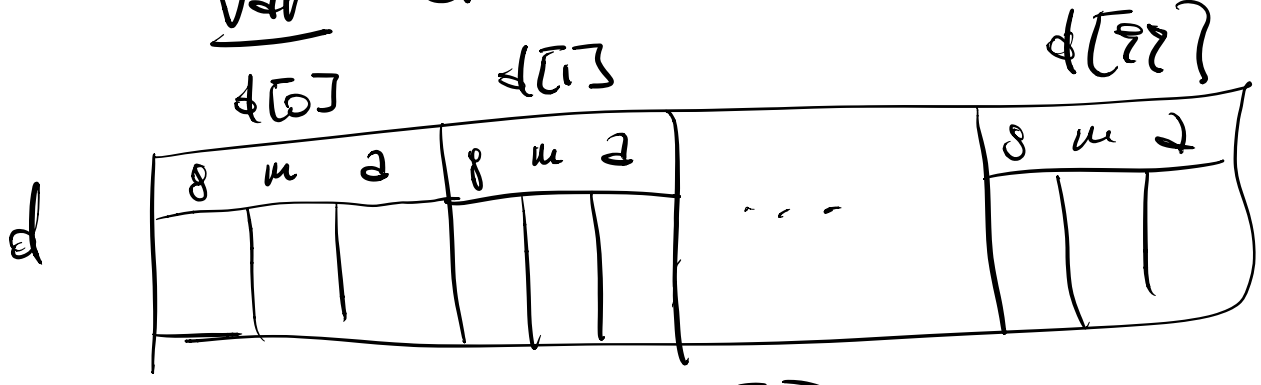


var x [5]int64
var s [10] string
var b [3] bool



type data struct {
    g, m, a int
}

var d [100]data



d[0] d[1] ...

d[0].g

---

len(x) = # elementi dell'array x

var a, b [100]int

...

b = a

VARIANZA

$x_0, x_1, \dots, x_{n-1}$

$$\mu = \frac{x_0 + x_1 + \dots + x_{n-1}}{n}$$

$$var = \frac{(x_0-\mu)^2 + \dots + (x_{n-1}-\mu)^2}{n}$$

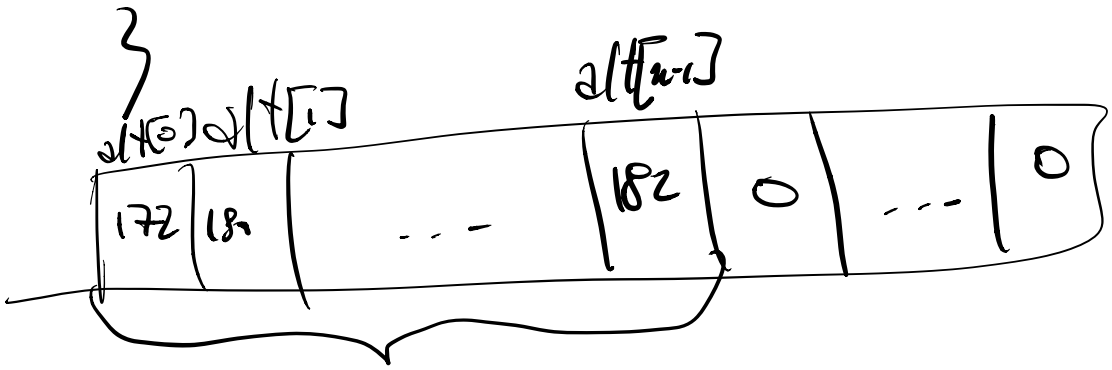
$$\sigma = \sqrt{var}$$

$$\mu = \frac{\sum_{i=0}^{n-1} x_i}{n}$$

$$\sigma = \sqrt{\frac{\sum_{i=0}^{n-1} (x_i-\mu)^2}{n}}$$

const MAX = 1000

```
var alt [MAX] int
fmt.Printf("Quante persone ci sono? ")
var n int
fmt.Scan(&n)
for i:=0; i<n; i++ {
    fmt.Printf("Altezza? ")
    fmt.Scan(&alt[i])
}
```



ESERCIZIO

- Scrivete un programma che legge le altezze delle persone in una stanza e calcola e stampa media, varianza e scarto quadratico medio
  - chiedendo prima quante persone ci sono
  - senza chiedere prima, ma smettendo appena l'utente inserisce un valore speciale