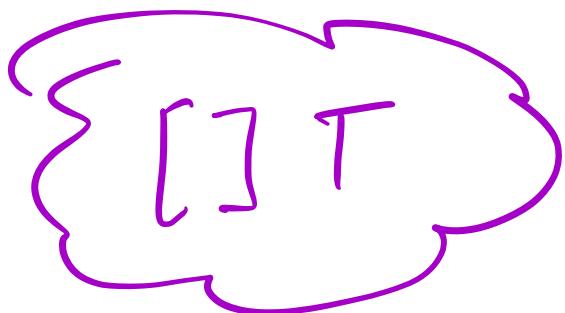


SLICE

DICHIARAZIONE



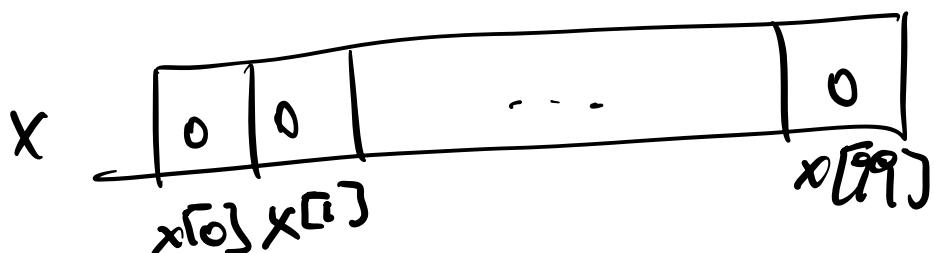
Var x []int

CREAZIONE

capac.

$x = \text{make}([\cdot]T, \{ \text{lung.} \})$

espressione
intera



CALCOLO DELLA VARIANZA

$$N = \frac{x_1 + \dots + x_n}{n}$$

$$\sigma = \sqrt{\frac{(x_1 - N)^2 + \dots + (x_n - N)^2}{n}}$$

Var a $[] \text{int}$
n int

fat. Print ("Quante persone ci sono?")

fat. Scan (&n)

a = make ($[] \text{int}$, n)

for $i := \underline{\text{range}}_2$ {
 fkt. Scan (& $a[i]$)
}

{

Somme := 0

for $- , x := \underline{\text{range}}_2$ {
 Somme += x

{

media := float64(Somme) /
 float64(n)

Somme Scatti := 0.0

for $:- , x := \underline{\text{range}}_2$ {

Somme Scatti +=
(float64(x) - media) *

float

}

APPEND

$x = \text{append}(x, \{ \text{elec}, \dots \})$

slice

CALCOLO DELLA VARIANZA

$$N = \frac{x_1 + \dots + x_n}{n}$$

$$\sigma = \sqrt{\frac{(x_1 - N)^2 + \dots + (x_n - N)^2}{n}}$$

var a [] int
n int

for q

var h int
fat. Scan (&h)
if h == 0 {

break

$\} \quad z = \text{append}(z, h)$

$}$

$n = \text{len}(a)$

$\text{sum} := 0$

for $- , x := \text{range } a \quad \{$

$\text{sum} += x$

$}$

$\text{med} := \text{float64}(\text{sum}) /$
 $\text{float64}(n)$

$\text{sum} \text{ sum} := 0.0$

for $- , x := \text{range } a \quad \{$

$\text{sum} \text{ sum} +=$

$(\text{float64}(x) - \text{med}) * ($

$(\text{float64}(x) - \text{med}))$

(216(1) mas)

IN PRATICA...



DICHARAZ

make

append

a



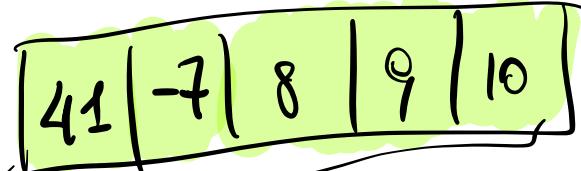
BACKSTAGE SLICE

SULLE

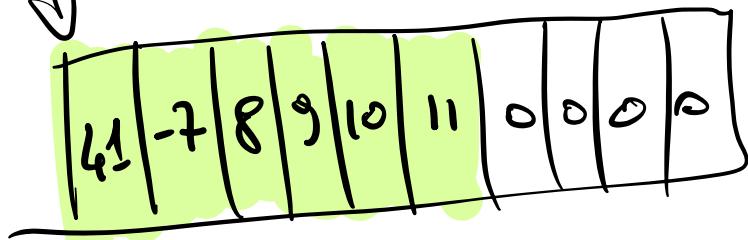
```
var x [ ]int  
x = append(x, 41)  
x = append(x, -7)  
x = append(x, 8)  
x = append(x, 9)  
x = append(x, 10)  
  
x = append(x, 11)
```

x

len	cap	data
5	10)



array sottocreato
array soggiacente

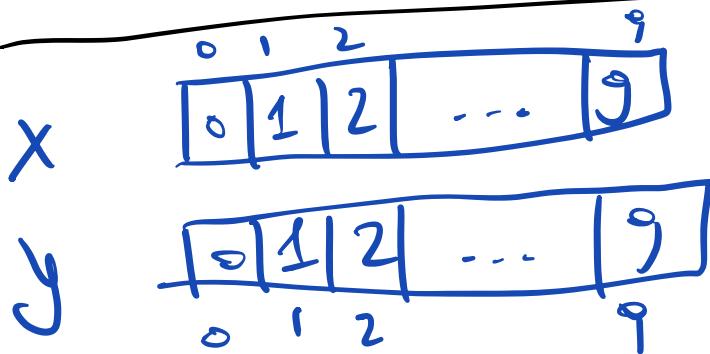


ASSEGNAMENTO: SLICE VS. ARRAY

```

Var x,y [10]int
for i:=0; i<10; i++
    x[i] = i
}
y = x

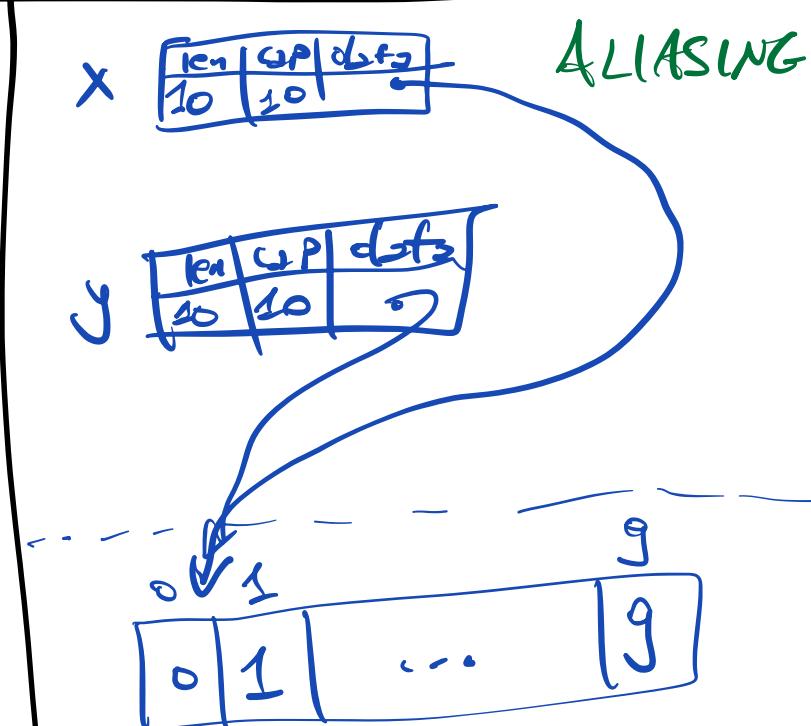
```



```

Var x,y []int
x = make([]int, 10)
for i:=0; i<10; i++ {
    x[i] = i
}
y = x

```



ESEMPIO

var x, y [] int
 $x = \text{make}(\text{[] int}, 3, 10)$
func Println(x)

$x[0] = 7$

$x[1] = 14$

$x[2] = 21$

$x[3] = 28$

/// No!

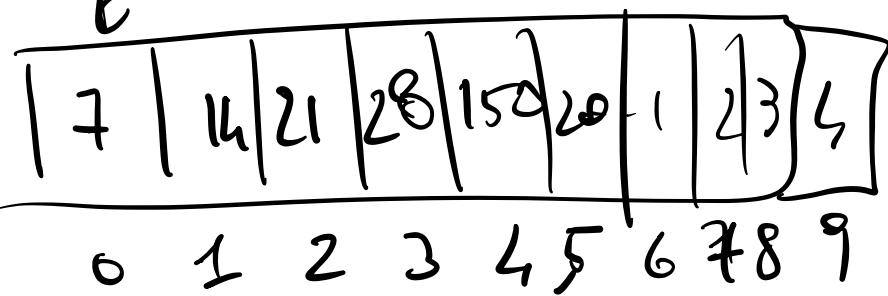
$x = \text{append}(x, 28)$

x

len	cap	data
5	10	

y

len	cap	data
11	20	



$$y = x$$

$x = \text{append}(x, 29)$

$y = \text{append}(y, 150)$

$y = \text{append}(y, 20)$

$y = \text{append}(y, 1, 2, 3, 4)$

$y = \text{append}(y, 5)$

PASSAGGIO DI PARAMETRI

func summa (a [] int) int {
x := 0
for i, v := range 2 }
x += v
a [i] = 0
}
return x

var

$x \in \text{list}$

$x := \text{make}([\text{int}]^n)$ (o)
... (pi capio la slice)

fun. Print la (somma (x))

LETTERAL SLICE

$x = [\text{int}]^n \{3, 4, 5, 6\}$

FUNZIONI

BUILT-IN

len (x)

cap (x)

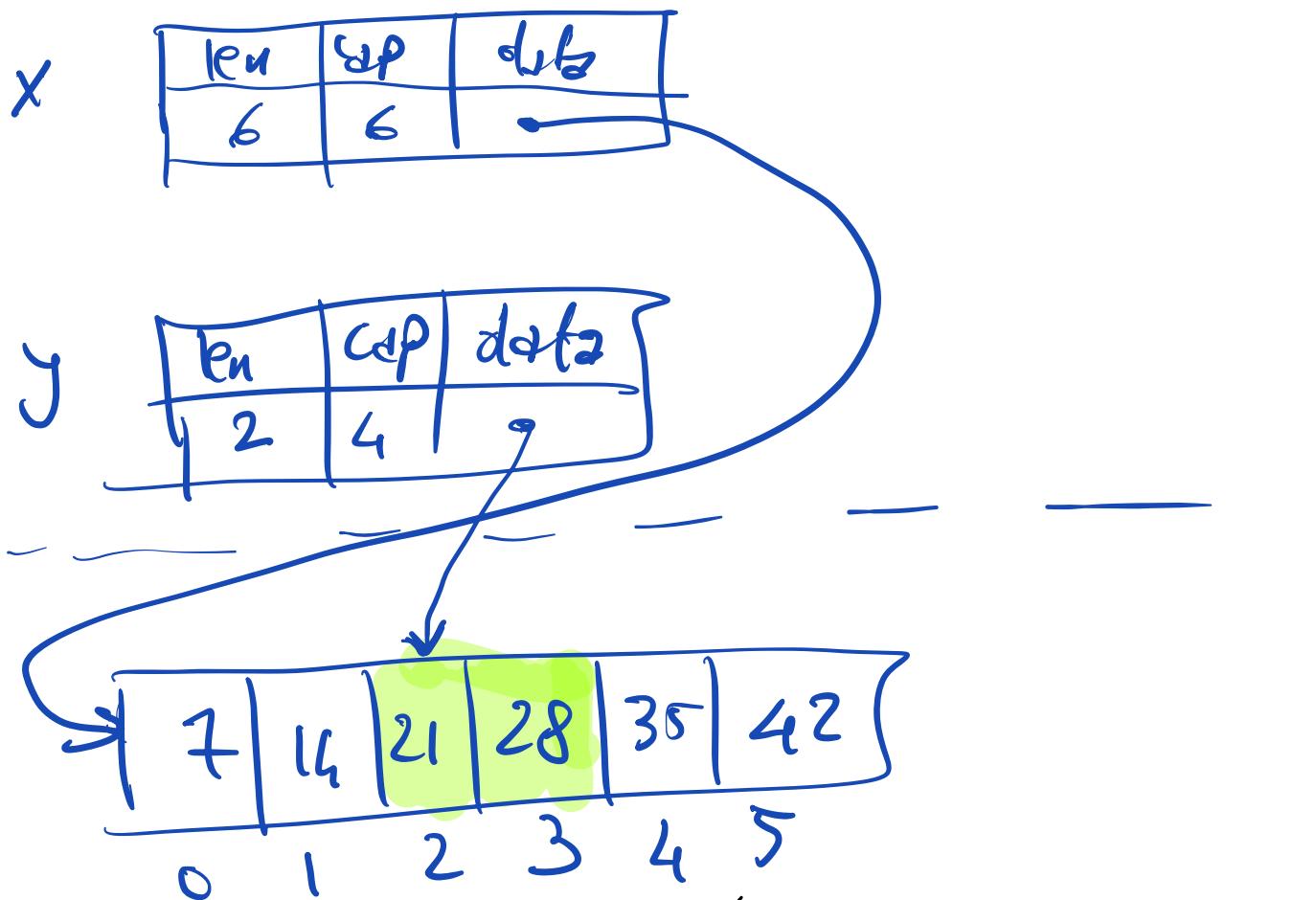
SUBSlicing

- Ottenerne una slice 2
partire da una slicekey
esistente

$x[i:j]$

restituiscere una slice
che ha lo stesso
slicekey soggiacente di x
ma che vede solo
gli elementi de
indice i (compreso) a
chi dice j (escluso)

~~Var~~ x, y $[]int$
 $x = []int \{7, 14, 21, 28, 35, 42\}$
 $y = x[2:4]$



Seconda (x)
 Somma ($x[1:]$)
 Sottrai ($x[:5]$)

Sonata (x [1:5])
Sonata (x [:3])

Var ↳ [Joint]

~~Sonata (a)~~

Sonata (a [:3])

ESERCIZIO

- Scrivete il programma
della varianza ma
permettete all'utente
di inserire, dopo l'input,
l'indice della prima
e dell'ultima persona.

Quante persone? 10

178 ←
191 ←
160 ←

...
172 ←

Indice 1? 1
Indice 2? 7

persone
1, 2, 3,
..., 6

Media:

[Redacted] Variants: ↪