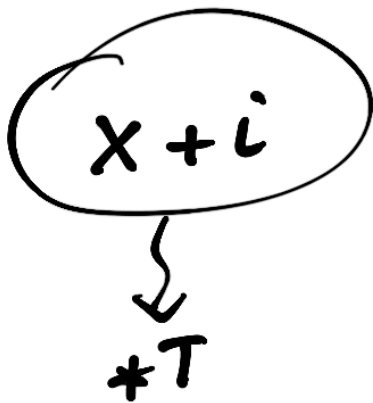


# ARITMETICA DEI PUNTORI

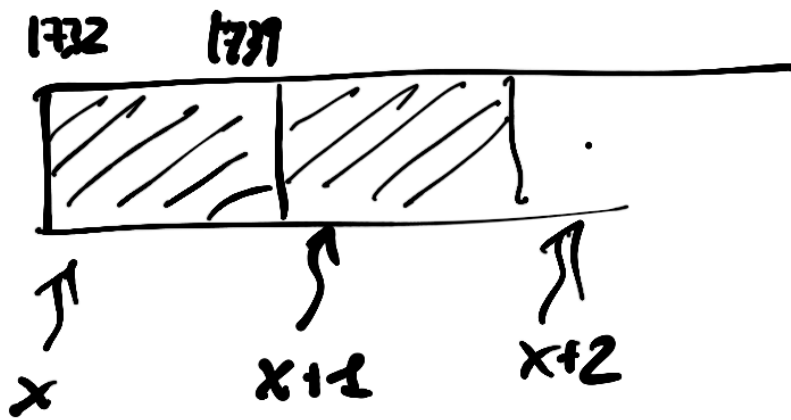
T \*x;  
int i;

var x \*T



x = 1732  
 i = 12

$$x + i * \text{sizeof}(T)$$



T \*x, \*y  
 (x-y) → int

$$\frac{x-y}{\text{sizeof}(T)}$$

int x[10];

\* (x+1) = 3

x[1] = 3

## STRINGHE IN C

= ARRAY DI CARATTERI  
CON UN CARATTERE SPECIALE  
(0) CHE INDICA LA  
FINE

char x[10];

x[0] = 'c';

x[1] = 'i';

x[2] = 'a';

x[3] = 'o';

x[4] = '\0';

∅      '∅'

c	i	a	∅	∅	∅	∅	∅	∅	∅
---	---	---	---	---	---	---	---	---	---

printf("%s", x);  
ciao 1 2 ..

char x [40];

~~x = "ciao";~~

---

strcpy(x, "ciao")

void strcpy (char \*dest, char \*src) {

while (\*src)

\* (dest++) = \*(src++);

\*dest = 0;

}

---

a = ((b=5)+1);

↑

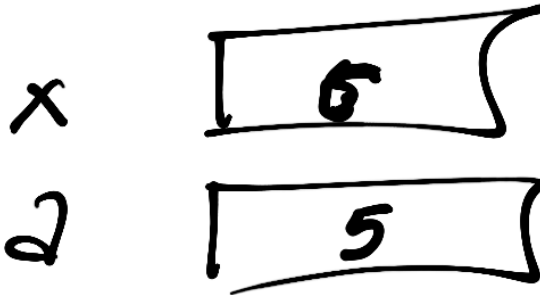
(x+1)\*3

while  $((a = x + 1) - 3)$

...

$x++$   
valore di  $x$   
prima dell'incr.

$++x$   
valore di  $x$   
dopo l'incr.



$a = x++$

$x = x++$

$x = ++x$

```
int strlen (char *x) {  
    char *y;  
    for (y=x; *y; y++);  
    return y-x;
```

3 } if (!strcmp(x,y)) ...  
if (x==y)

```
int strcmp (char *x, char *y) {  
    while (*x && *y) {  
        if (*x - *y)  
            return *x - *y;  
        x++; y++;
```

```
    }  
    if (*x) return +1;  
    if (*y) return -1;  
    return 0;
```

5

# PREPROCESSORE

```
#include <stdio.h>
```

```
#define MAX 1000
```

```
char x[MAX];
```

```
#define max(a,b) a>b?a:b
```

max(a,b)  $\rightarrow$   $a > b ? a : b$

```
x = (a > b ? a : b) + c;
```

```
x = (a > b ? a++ : ++b);
```

#define       $\text{sqr}(a)$        $((a)*(a))$

$x = \text{sqr}(4)$        $\rightsquigarrow$        $x = (4)*(4)$

$x = \text{sqr}(y+1)$        $\rightsquigarrow$        $x = (y+1)*(y+1)$

$x = 1 + \text{sqr}$

```
void main () {  
    ..  
}
```

---

```
int main()  
    ..  
    return 0;  
}
```

---

```
int main (int argc, char **argv)  
    char *argv[]
```



go test ~~ov~~profile out

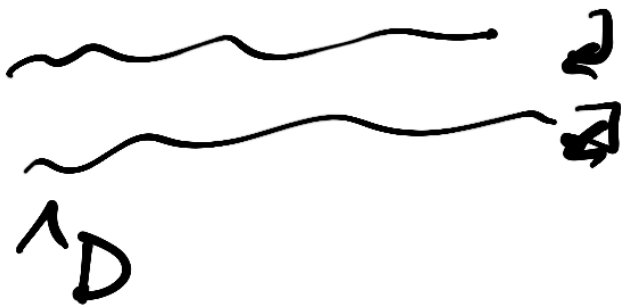
go fool cover ~~htul~~ out

```
Scanner := bufio.NewReader(  
    os.Stdin)
```

```
for scanner.Scan() {
```

```
    ...  
    line := scanner.Text()  
    ...
```

```
}
```



```
f, - := os.Open(...)
```

17 planes

$$2^{16}$$

$$2^{20} < 2^{16} \cdot 17 \leq 2^{21}$$

"stazza"

"stazza"  
↑

[ ]one(st)



line := scanner.

line((os.Args[1])[0]) == '2'