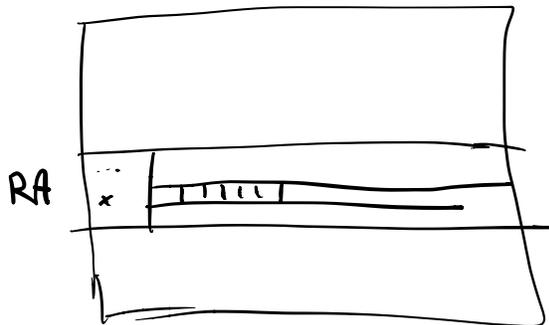


LEZIONE EXTRA

- VENERDI' 15/1
DALE 8:30 (PONTUAKI)
ALE 10:00

int x [10];
int x [n];
↑



stdlib.h
stdint.h

int *p;
int x[10];

x ≡ &(x[0])



p = x

x[0] = 15

*p = 15

void f(int x[], int n) (I)

void f(int *x, int n) (II)

- FUNZIONE CHE DATO UN
 ARRAY DI INTERI E DATO
 UN INTERO k , CONTA
 QUANTI SONO I MULTIPLI
 DI k NELL'ARRAY

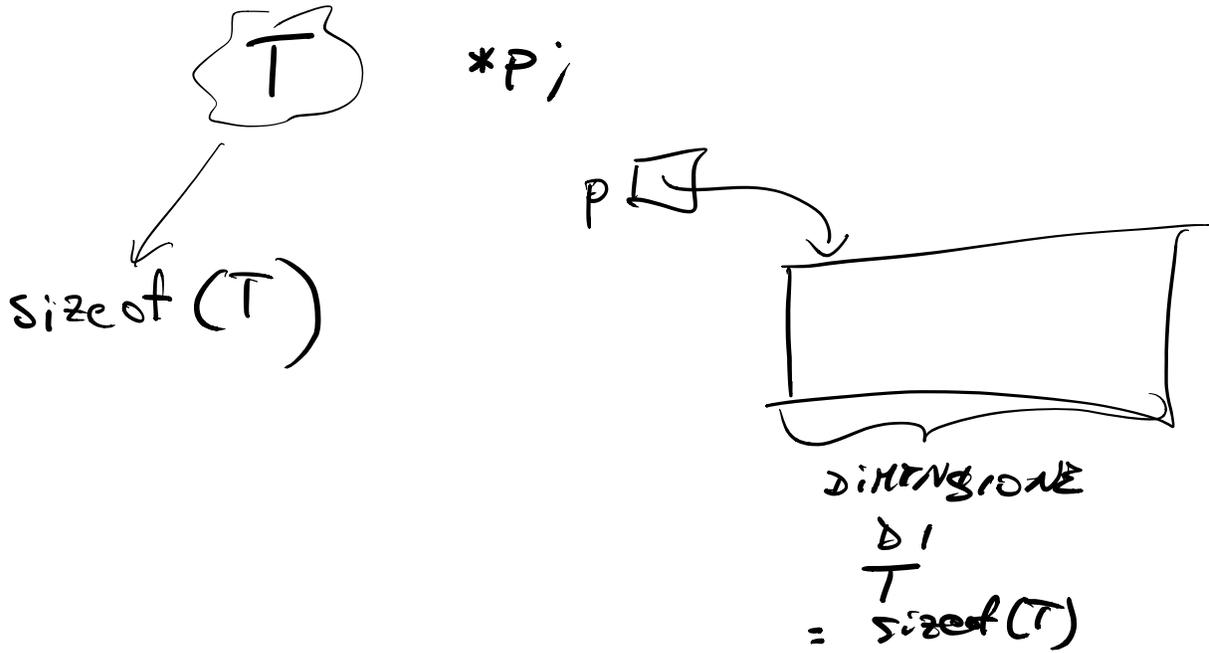
```

int conta (int a[], int n, int k) {
  int i, c;
  c = 0;
  for (i = 0; i < n; i++)
    if (a[i] % k == 0)
      c++;
  return c;
}
  
```

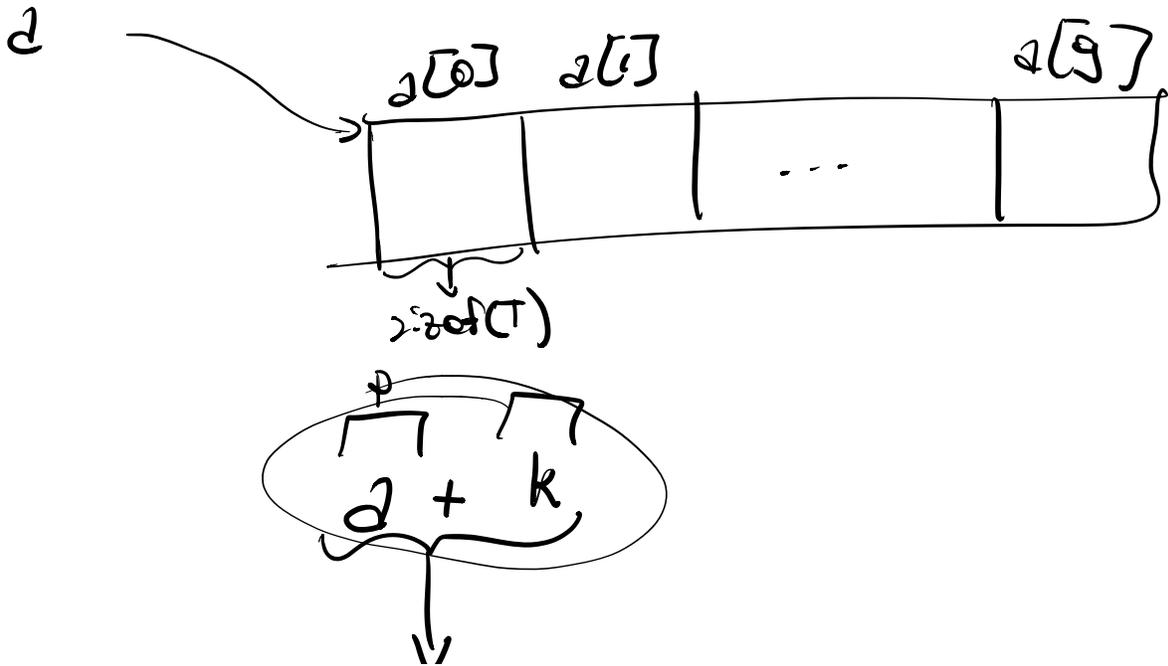
```

func conta (a [int, k int) int {
  c := 0
  for i := 0; i < len(a); i++ {
    if a[i] % k == 0 {
      c++
    }
  }
  return c
}
  
```

ARITMETICA DEI PUNTORI



T $a[10]$;



posizione che si
trova $k * \text{sizeof}(T)$ byte
dopo a

$$\underline{a+3} \equiv \&(a[3])$$

$$\underline{a[5]} = 7 \quad \rightsquigarrow \quad \underbrace{* (a+5) = 7}$$

```
int conta (int a[], int n, int k) {  
    int i, c;  
    c = 0;  
    for (i=0; i<n; i++)  
        if (a[i] % k == 0)  
            c++;  
    return c  
}
```

}



```
int count (int *a, int n, int k) {  
    int c = 0;  
    int *p;  
    for (p = a; p - a < n; p++)  
        if (*p % k == 0) c++;  
    return c;  
}
```

STRINGHE IN C

char

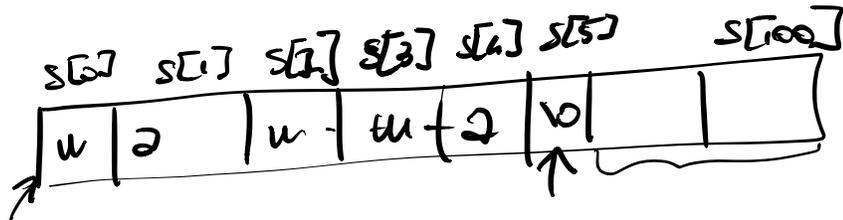


1 byte

char c;
c = 'A';

rune r;
r = 'A';

char s[100]; ←



printf("%s", s);

string.h

strlen (-)

strcpy

strcat

strchr

strrchr

⋮

man

string

man

stdio

man

strchr

strlen

int

strlen (char *s) {

int *p;

for (p=s; *p; p++); ←

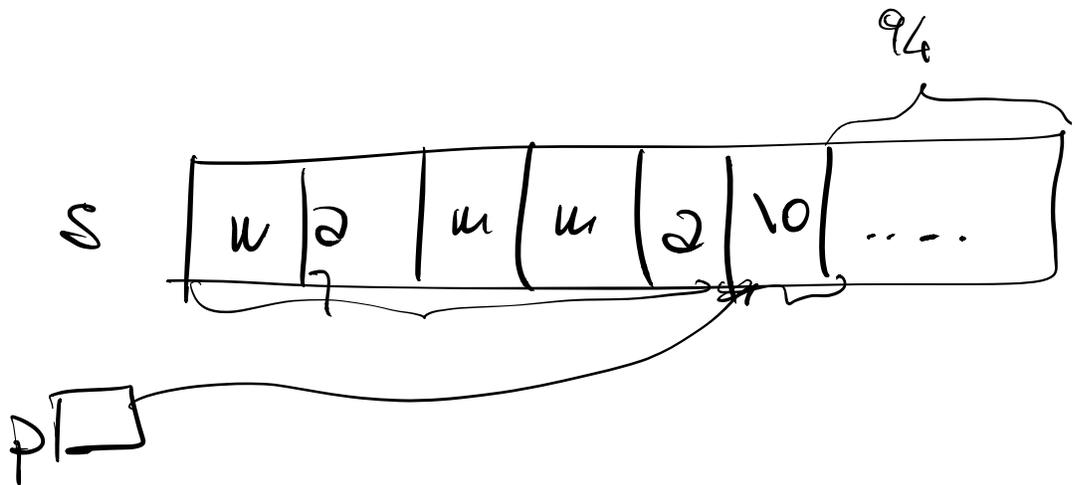
return p-s;

}

int

```
main() {  
  char s[100];  
  → scanf("%s", &s);  
  n = strlen(s);  
  printf("%d\n", n);  
}
```

}



strcat (s1, s2)
concatena s2 in
fondo a s1

s1 | c | i | a | \0 | \0 | ... |

s2 | m | a | u | u | a | \0 | ... |



s1 | c | i | a | m | a | u | u | a | \0 | ... |

```

void strcpy (char *s1, char *s2){
    char *p, *p2;
    for (p=s1; *p; p++);
    for (p2=s2; *p2; p2++, p++)
        *p = *p2;
    *p = 0;
}

```

```

char * strchr (char *s, char c){
    for (; *s; s++)
        if (*s == c)
            return s;
    return NULL;
}

```

char s1[100];

char *p;

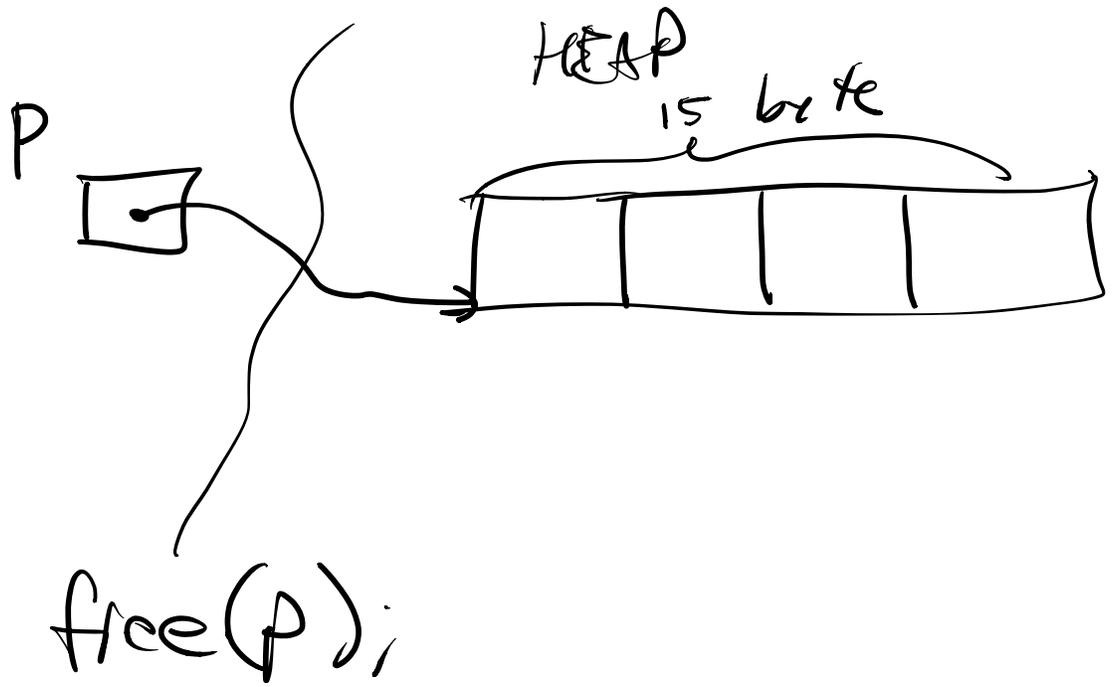
→ p = strchr(s1, '/');
printf("%s", p+1);

ALLOCAZIONE DINAMICA (stdlib.h)

void * malloc (no byte)
int *p; int p[5];

p = (int *) malloc (15 * sizeof(int));

p[0] = 7;



```

char *strdup (char *s) {
    int n, i;
    n = strlen (s);
    char *p;
    p = (char *) walloc (n+1);
    for (i=0; i<=n; i++)
        p[i] = s[i];

    return p;
}

```

}

```

char *p;

```

p = ...

⋮

p = ...

```

char p[10];

```

p = ...