TIPI FLOATING POINT

			3.	1	4	2	8
...	10^2	10^1	10^0	10^{-1}	10^{-2}	10^{-3}	10^{-4}

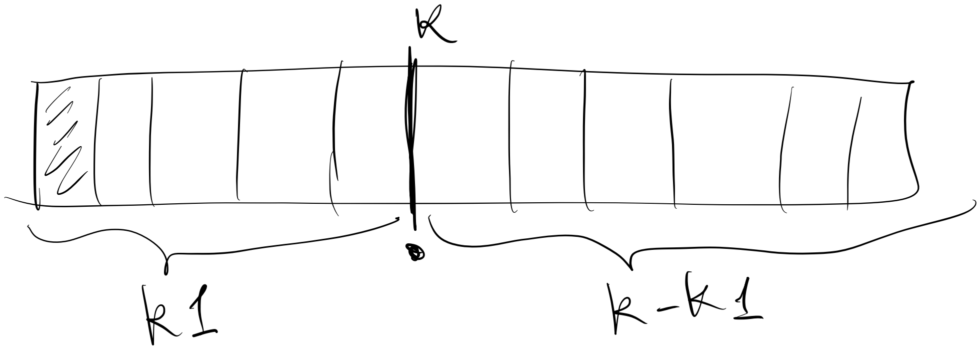
→	1	0	.	1	1	0	1	$_2 = ?_{10}$
	2^1	2^0		2^{-1}	2^{-2}	2^{-3}	2^{-4}	

$$2^1 + 2^{-1} + 2^{-2} + 2^{-4} =$$

$$= 2 + \frac{1}{2} + \frac{1}{4} + \frac{1}{16} =$$

$$= 2 + 0.5 + 0.25 + 0.0625 =$$

$$= 2{,}8125$$



$$\boxed{\frac{1}{4} = 0.250000\ldots}$$

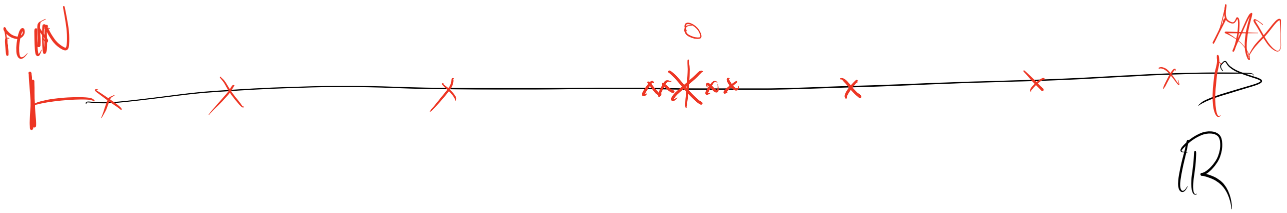
0.01

$$\frac{1}{3} = 0.333333\ldots = 0.\bar{3}$$

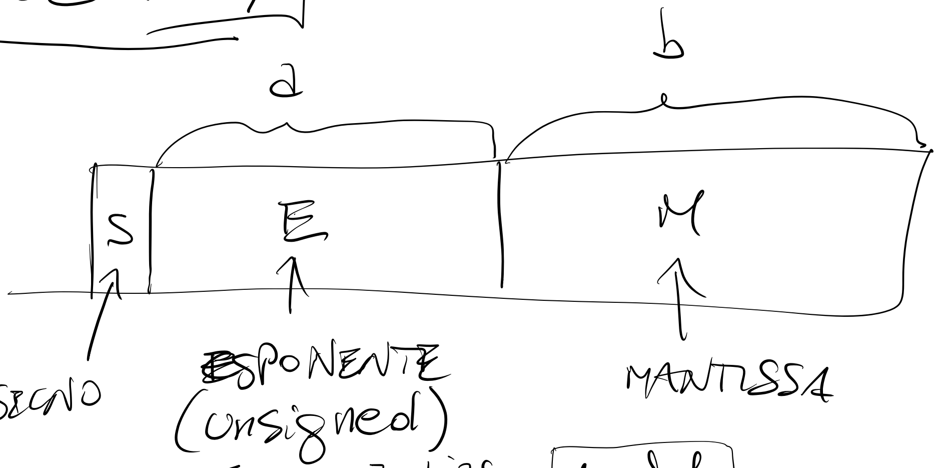
0.333

$$\frac{1}{5} = \underbrace{0.2} = \boxed{0.001100110011}00110011\ldots$$

$$\underbrace{1.1001100110011}_{\text{MANTISSA}} \cdot \underbrace{2^{-2}}_{\text{ESPONENTE}}$$



IEEE 754



$$(-1)^S \cdot 2^{E-bias} \cdot \boxed{1.M} \leftarrow$$

TIPO	BIT	BYTE	
float32	32	4	a=8 b=23 bias=127
float64	64	8	a=11 b=52 bias= 1023

complex64
complex128

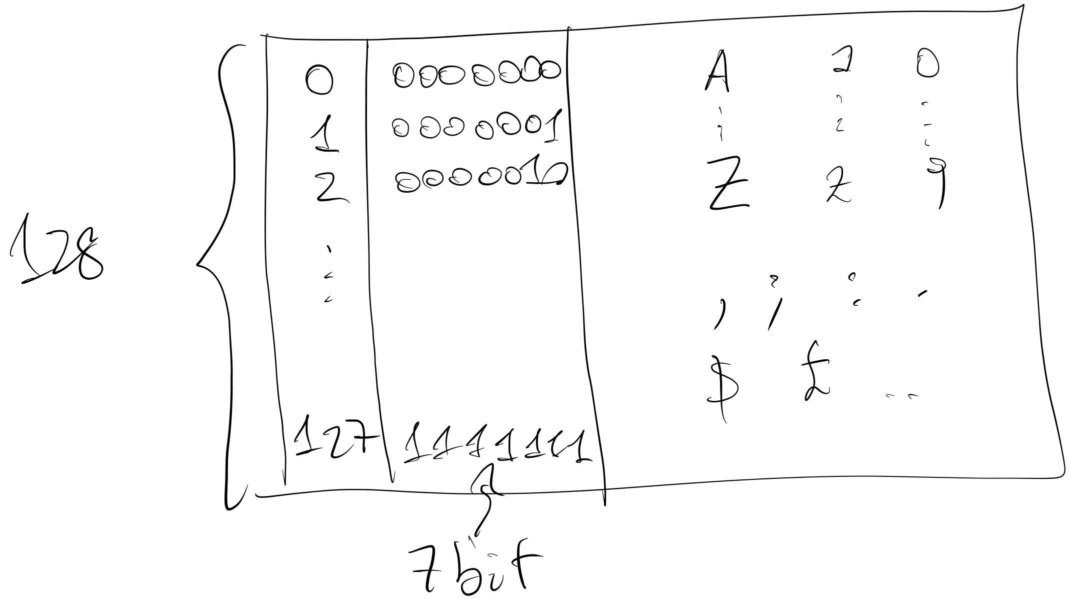
$\underbrace{7}+\underbrace{2.5i}$ $i^2=-1$

```
var x, y, z complex128
x = 7+2.5i
y = 3.5 +4i
z = x*y
```

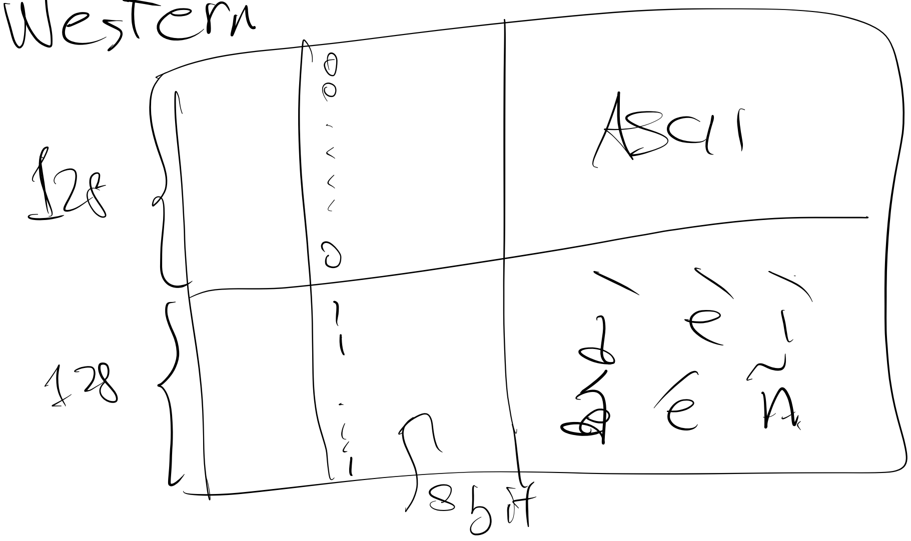
rune

RAPPRESENTAZIONE DEI CARATTERI

- STANDARD US-ASCII



- ISO-8859-1, Latin 1, Western



- Unicode

	PLANE		
BMP	0		2^{16}
	1		2^{16}
	⋮	⋮	2^{16}
	16		

17

$$\underbrace{1'114'112}_{\text{21 bit}}\ \cancel{2}$$

⇝ 32 bit

rune = int32

```
var x rune
```

$\boxed{x = \text{'A'}}$

```
fmt.Println(x)
fmt.Println(string(x))

x = 65
x = 0x ....
```

```
x = 'ஐ'

x = 0x1A93
```

$x = '\underbrace{\backslash u}_{}\underbrace{1A93}_{2}'$

$$x = '\backslash U\underbrace{1A9387A0}'$$

SEQUENZE DI ESCAPE

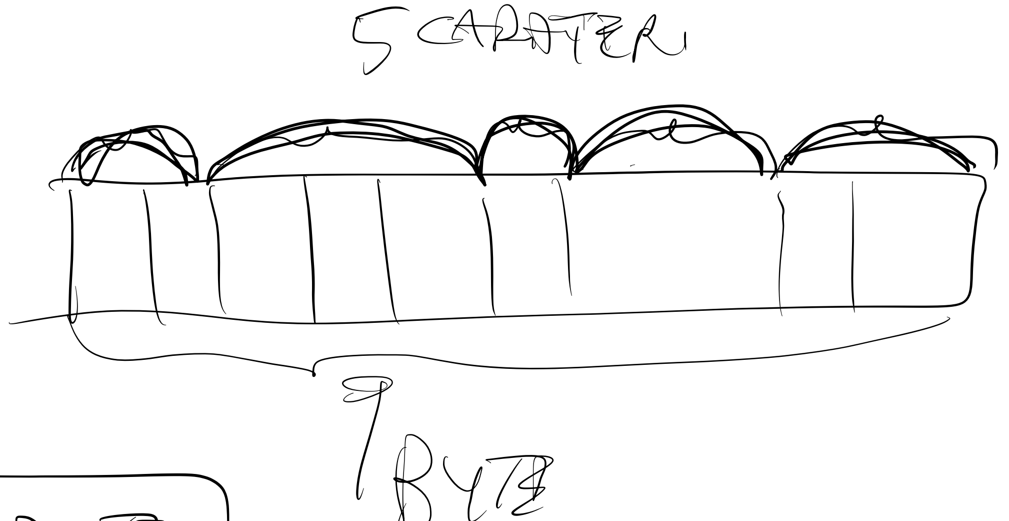
\t	9	TAB
\n	10	NEWLINE
\r	13	CARRIAGE RETURN
\'		'
\"		
\\		

STRINGHE

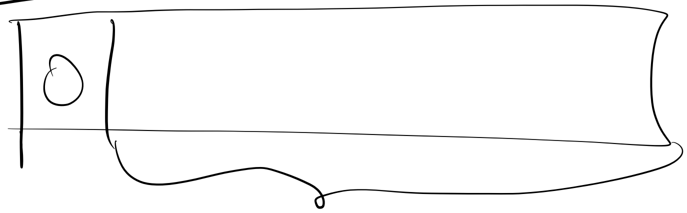
UTF-8

caratteri

1 → 4 byte

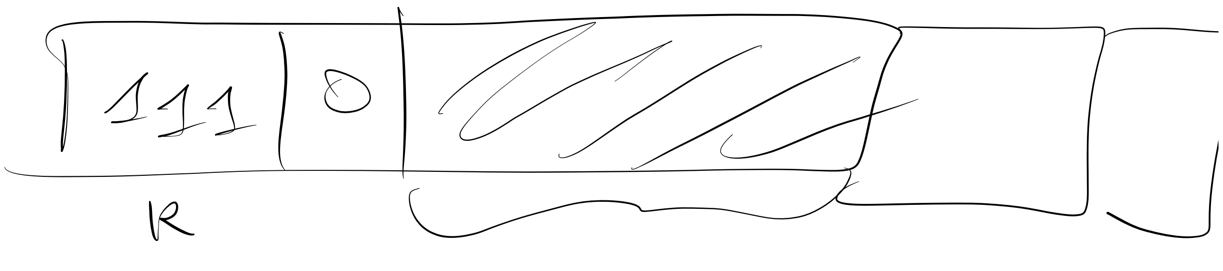


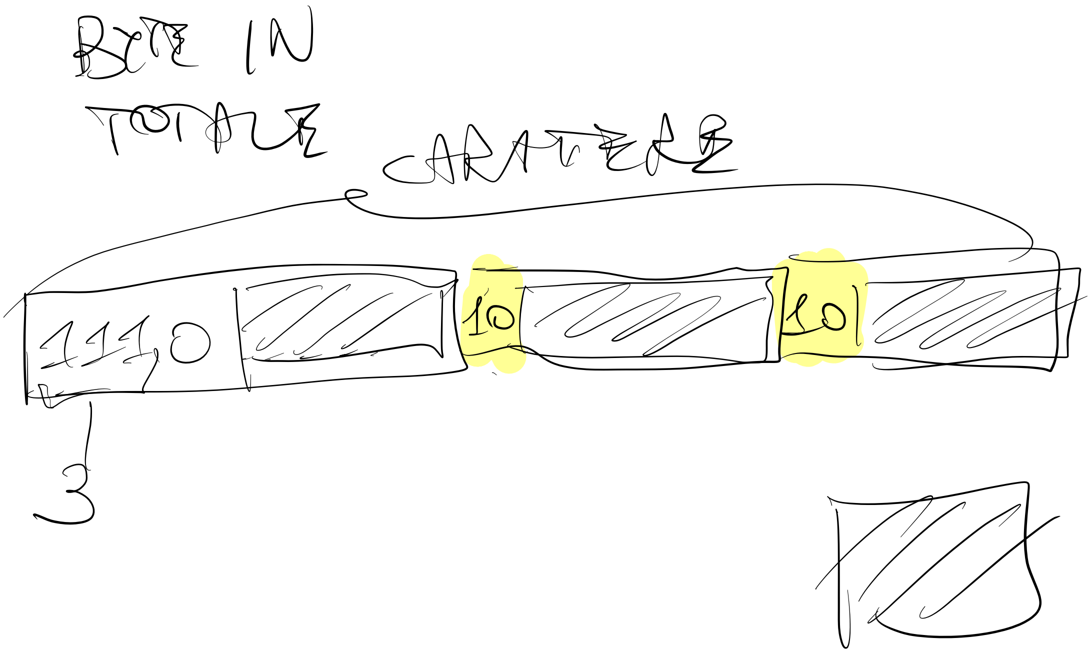
1° BYTE



ASCII

ALTRIMENTI




BYTE IN TOTALE
CARATTERE
1110
10
10
3