

IL RAPPORTO FRA FIB. E SEZIONE AUREA

$$\begin{aligned}\alpha &= \lim_{n \rightarrow \infty} \frac{\Phi_{n+1}}{\Phi_n} = \\&= \lim_{n \rightarrow \infty} \frac{\Phi_n + \Phi_{n-1}}{\Phi_n} = \\&= \lim_{n \rightarrow \infty} \frac{1 + \frac{\Phi_{n-1}}{\Phi_n}}{1} = \\&= \lim_{n \rightarrow \infty} \left(1 + \frac{\Phi_{n-1}}{\Phi_n} \right) = \\&= 1 + \lim_{n \rightarrow \infty} \frac{1}{\frac{\Phi_n}{\Phi_{n-1}}} = \\&= 1 + \frac{1}{\lim_{n \rightarrow \infty} \frac{\Phi_n}{\Phi_{n-1}}} = 1 + \frac{1}{\alpha}\end{aligned}$$

$$\alpha = 1 + \frac{1}{\alpha}$$

$$\alpha^2 = \alpha + 1$$

$$\alpha^2 - \alpha - 1 = 0$$

$$\alpha_{1,2} = \frac{1 \pm \sqrt{1+4}}{2} = \frac{1 \pm \sqrt{5}}{2}$$

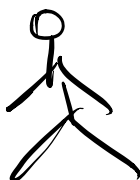
$$\frac{1 + \sqrt{5}}{2}$$

ESERCIZI

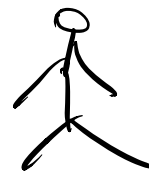
1) Implementare la versione
con ripetizioni
anche per le
stringhe non ASCII

2) A B A C O

ANTRO 20
ABOTE 21



Anna



Beppe

- Implementare Anna
- Implementare Beppe

CAO
CAIO

CAO
CAO

C	I	C	A	N	O
C	C	O	A	N	I

3

3

~~I~~ ~~C~~ ~~O~~
~~C~~ ~~O~~ ~~I~~