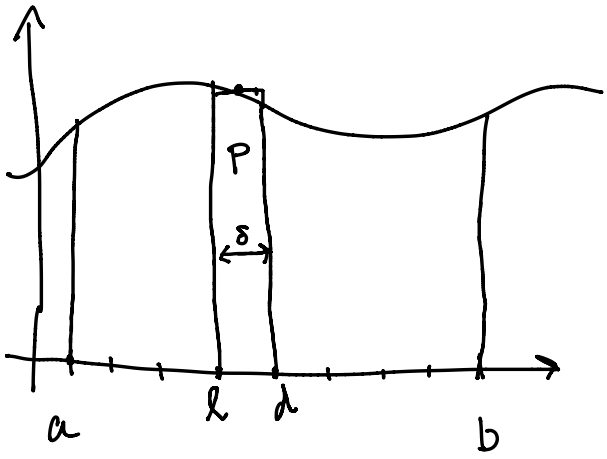


f

$i = 0, \dots, n-1$

i	l	d
0	a	
n-1		b

$$\delta = \frac{b-a}{n} \qquad l = a + \delta \cdot i$$

$$d = a + \delta \cdot (i+1) = l + \delta$$

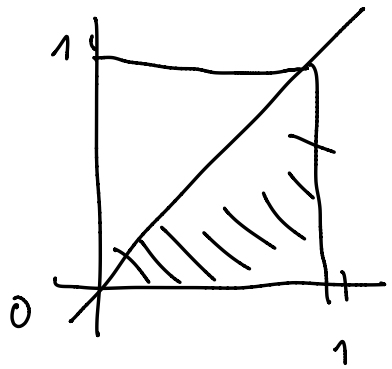
$$P = \delta \cdot f\left(\underbrace{a + \delta \cdot (i + \tfrac{1}{2})}\right)$$

$$a + \frac{b-a}{n}\left(i + \frac{1}{i}\right) =$$

$$\frac{1}{n}\left(na + bi - ai + \frac{b-a}{2}\right)$$

$$\frac{1}{n}\left((n-i)a + ib + \frac{b-a}{i}\right)$$

$$\frac{1}{n}\left((n-i-0.5)a + (i+0.5)b\right)$$



Anonimna funkcija
(funkcijski predpis)

$$f(x) = \frac{x^2+3}{3}$$

$$x \mapsto \frac{x^2+3}{3}$$

$$\lambda x.\ \frac{x^2+3}{3}$$

$\varepsilon x.\ \varphi(x)$
$\iota x.\ \varphi(x)$

fun x -> (x*x+3)/3

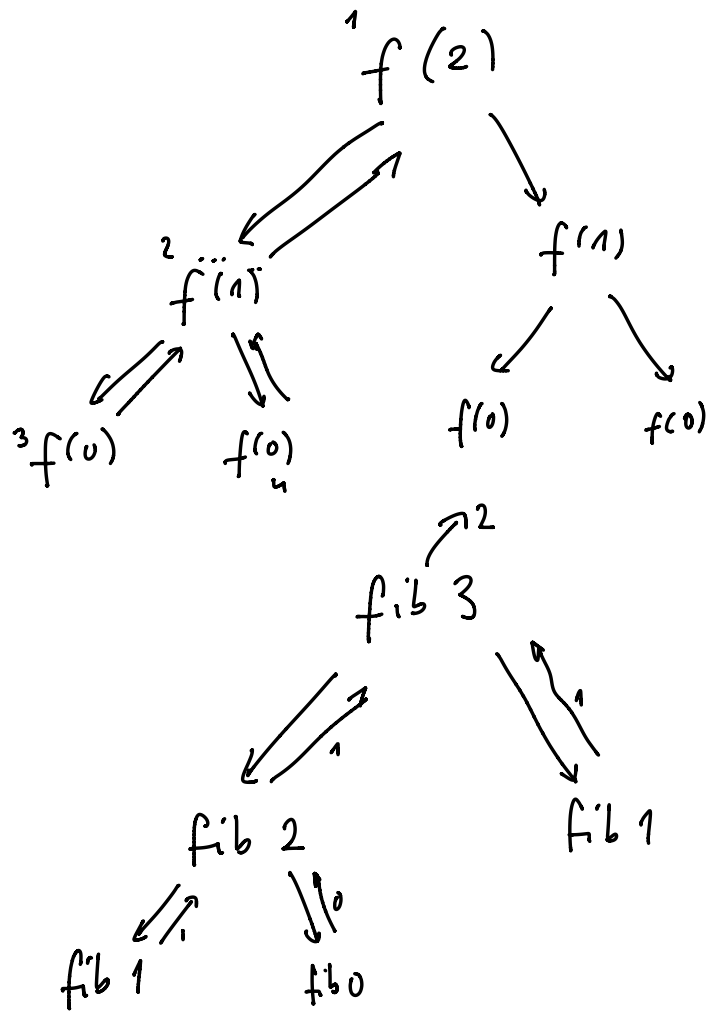
\x -> (x*x+3)/3

lambda x: (x*x+3)/3

REKURZIJA

$x_0 = 3$

$x_{n+1} = \frac{2x_n}{7} + 1$


1
f(2)
2
f(1)
f(1)
3
f(0)
f(0)
f(0)
f(0)
4
2
fib 3
1
1
fib 2
fib 1
1
0
fib 1
fib 0