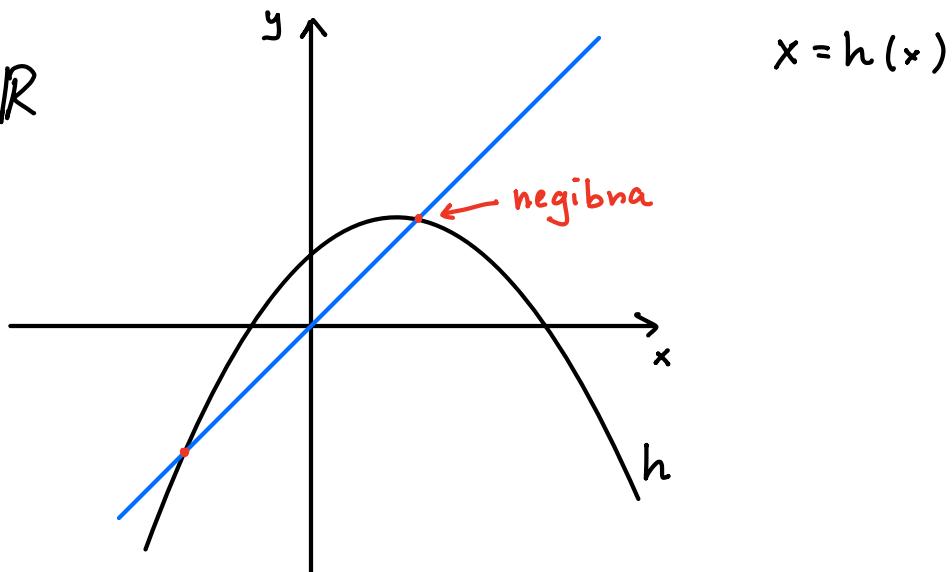


Rekurzija

$$h: \mathbb{R} \rightarrow \mathbb{R}$$



$$x^2 = \frac{1}{2}$$

$$x = \pm \sqrt{\frac{1}{2}} = 0,70\cdots$$

$$x = h(x)$$

$$0 = \frac{1}{2} - x^2$$

$$\begin{aligned} x_0 &= 1 \\ x_1 &= h(x_0) = \frac{1}{2} \end{aligned}$$

$$x = \underbrace{\frac{1}{2} - x^2 + x}_{h(x)}$$

$$\begin{aligned} x_2 &= h(x_1) \approx \frac{3}{4} \\ &\vdots \end{aligned}$$

$\binom{n}{k}$ = št. podmnožic s k elem. množice z n elementi

$$\binom{n}{0} = 1$$

$$\binom{n}{n} = 1$$

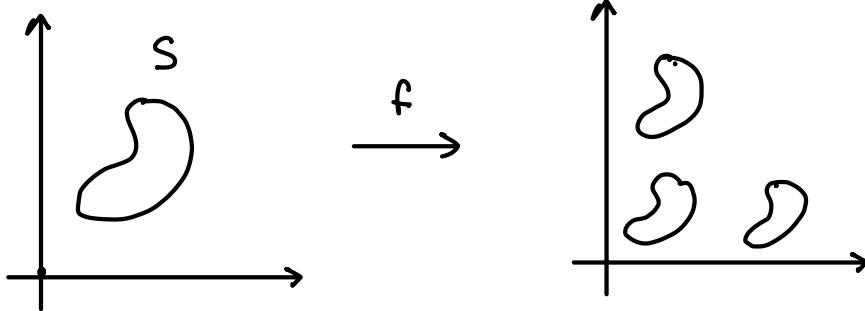
$$\binom{n}{k} = \binom{n-1}{k-1} + \binom{n-1}{k}$$

$$\{1, \dots, n\}$$

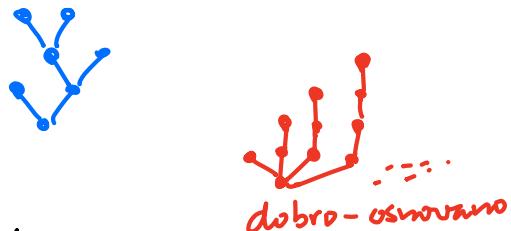
$$[1, 2, 1, 2, 1, 2, \dots]$$

Fraktali

$$f(S) :=$$



Induktivni tip : samo končni podatki
(seznami, drevesa)

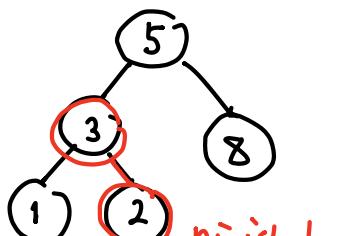
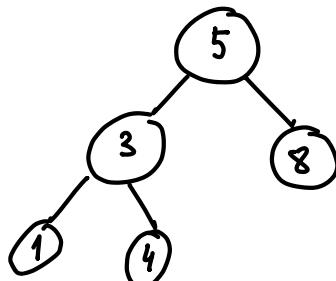
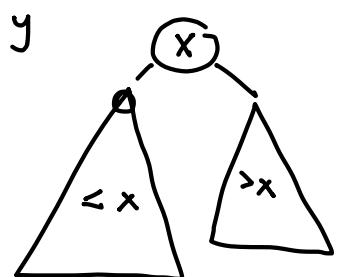


[pravilno: dobro osnovani podatki,
well-founded]

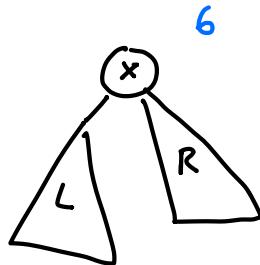
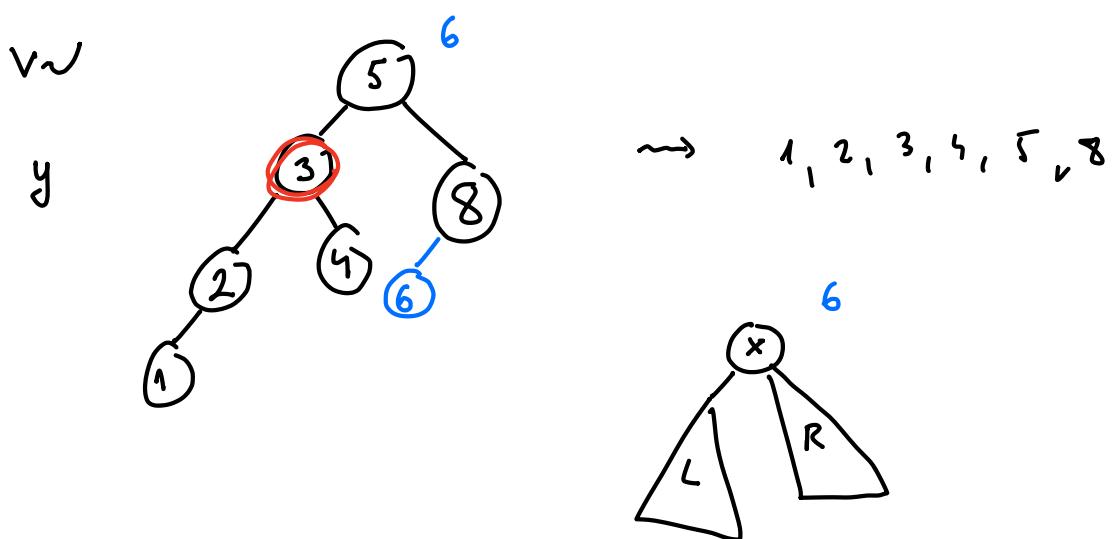
Koinduktivni tip : končni & neskončni podatki

Struktturna rekurzija

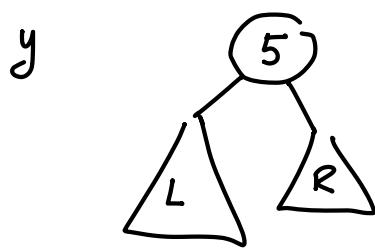
Iskalno drevo



velikost = število vrtihov



Boolean blindness rant



primanjaj y in 5:
 → $y \leq 5$, smo nashi y
 → $y < 5$, išči y v L
 → $y > 5$, išči y v R

Poštovne bata:

spol : BOOL -- Moshi = TRUE
 Čenska = FALSE

type spol = Moshi | Čenska | X ←

