

Arbori Binari Echilibrați. Optimi

Căutare perfect echilibrat degenerat în listă
 $O(\log_2 n)$ $O(n)$

Arbori $A \sqrt{2}$

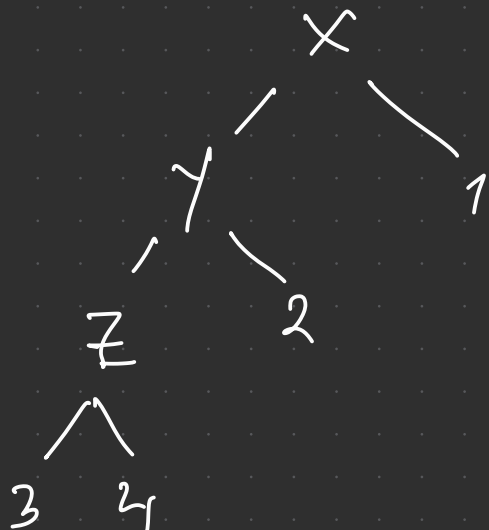
$$|h_s - h_d| \leq 1 \quad h \text{ subarbor stâng}$$

Binari, Ordonați, Echilibrați

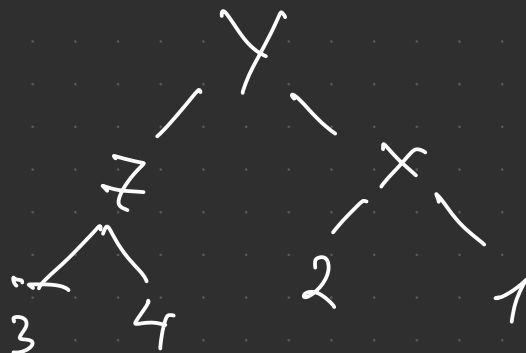
Echilibrare \rightarrow căutare nod nou adăugat

S	S	\rightarrow	1 S	1	1	\rightarrow	1 1
S	1	\rightarrow	2 S	1	S	\rightarrow	2 1

(1) S S 1 stanga

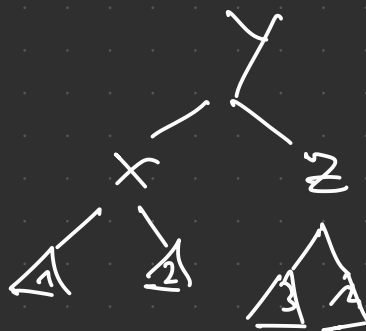


$x > y > z$



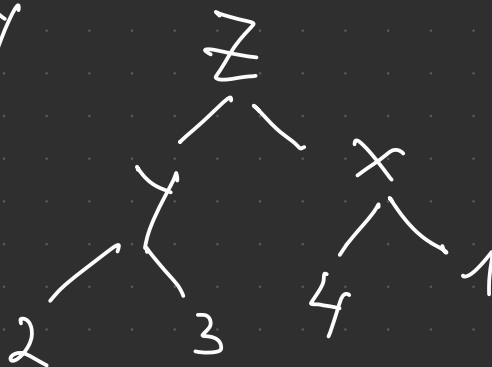
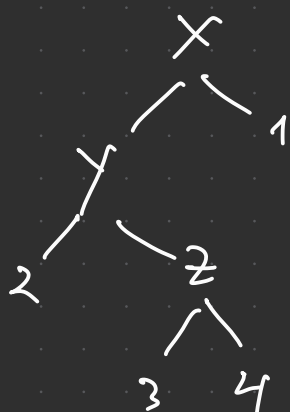
(2) S S 1 dreapta

$x < y < z$



(3) S S 2 stanga

$x > z > y$



(4)

1 5

2 depths

$$x < z < y$$

