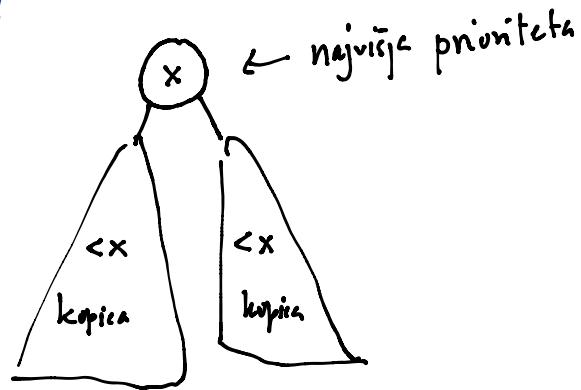
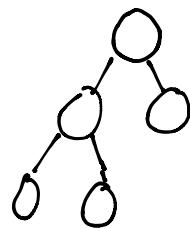
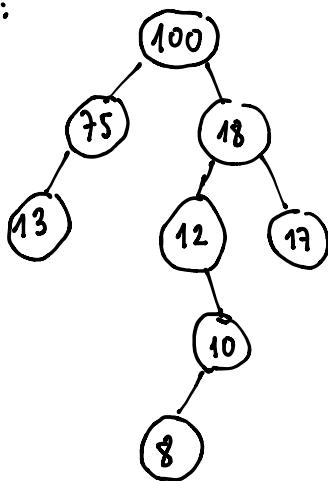


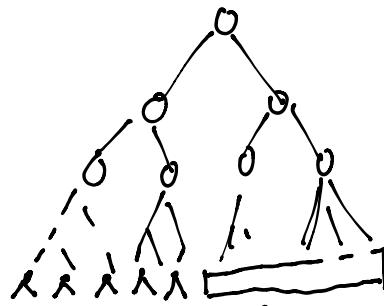
Kopice



Primjer:

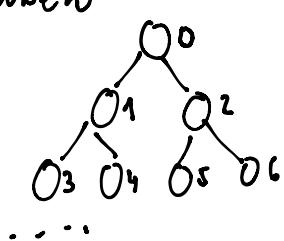


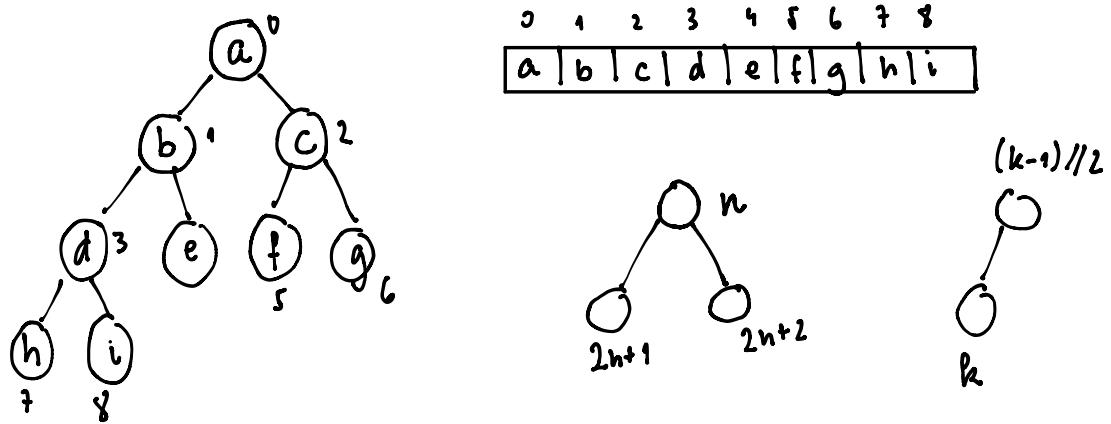
Pozdravimo, da jo kopica "polna"



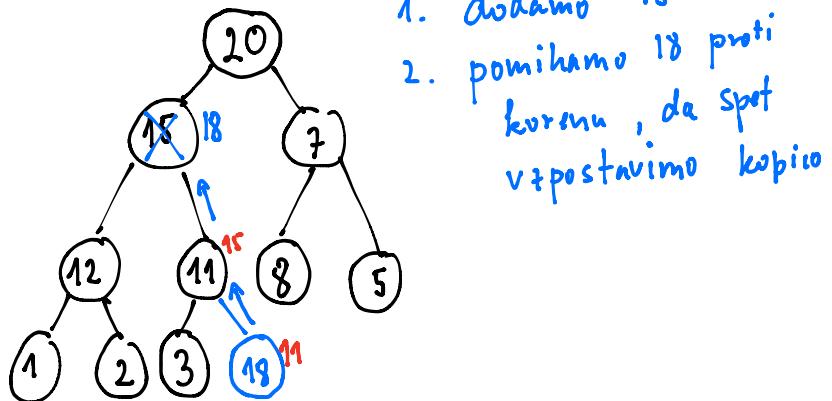
↑
samo v spodnjih
vrsti manjih vo listi

Kopico zbiramo v tabelo

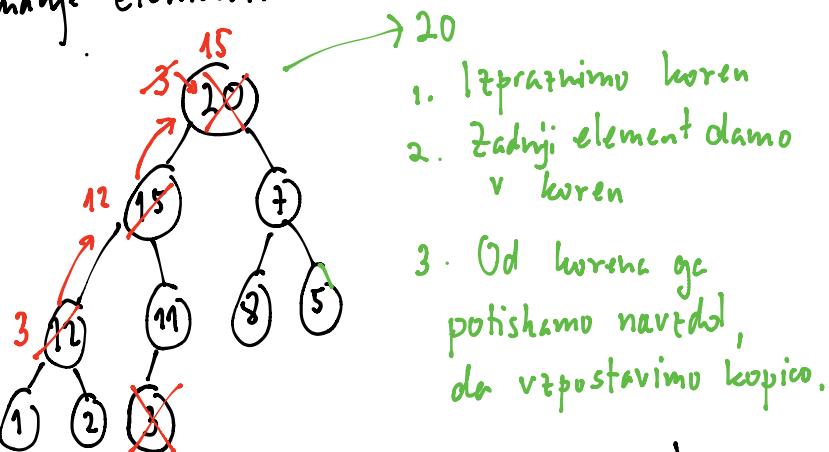




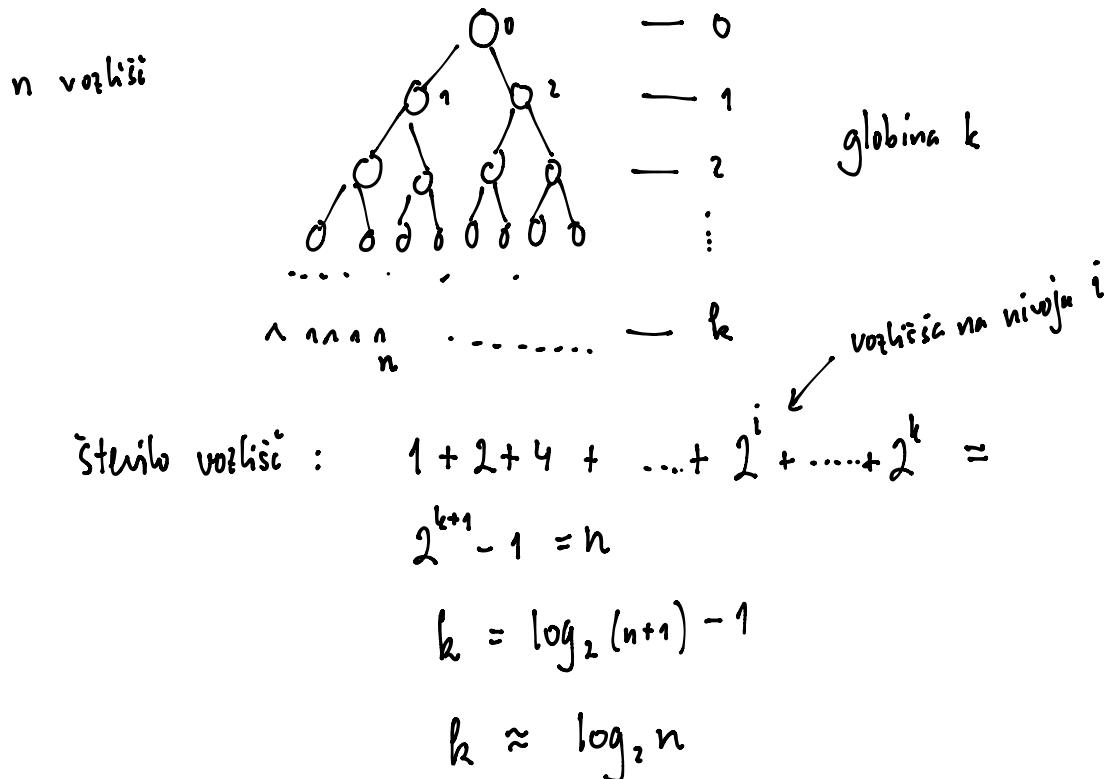
Dodajanje elementa:



Odvzemanje elementa:



Časovna zahtevnost operacij: $\Theta(\text{globina drevesa})$
 Torej: če imamo kopico z n elementi, kolikšna je globina?

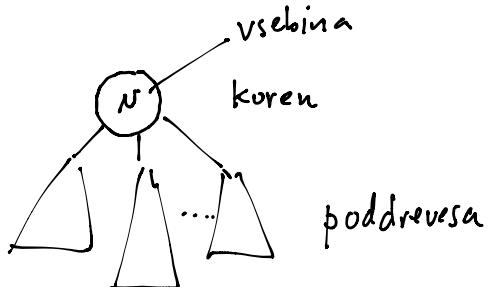


Torej: časovna zahtevnost operacij je $\Theta(\log_2 n)$

Drevesa

Podatkovna struktura:

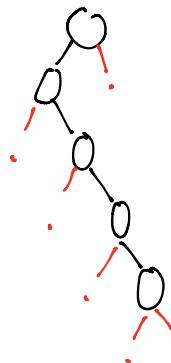
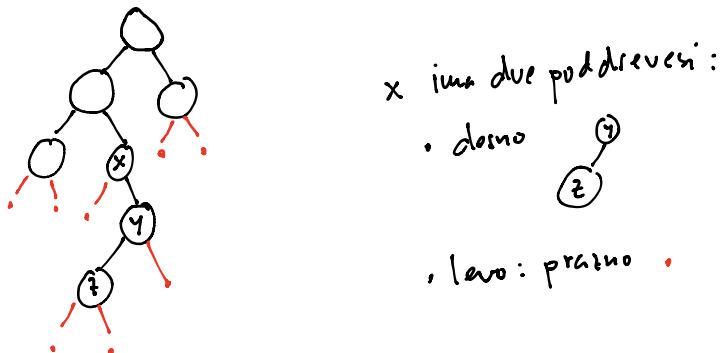
- drevo je lahko pravno ali
- sestavljen:



Rekurtivna struktura:

drevo je sestavljeno iz dreves

Dvojisko drevo: vrtlice imata dve poddrevesi, ali pa jih nima:



Boje: Dvojisko drevo, če ima vsaj 0,1 ali 2 poddrevesi.

Drevo predstavimo z objekti:

class Drevo():

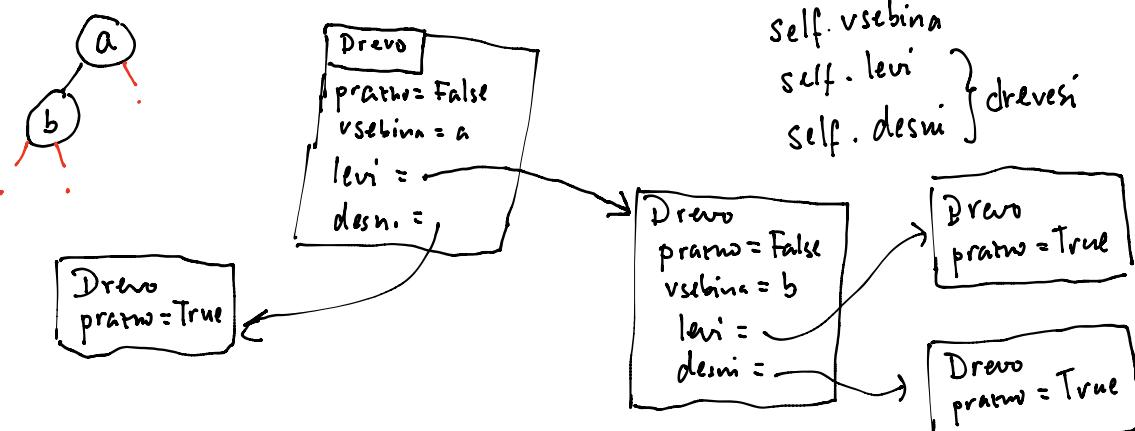
:

atributi?

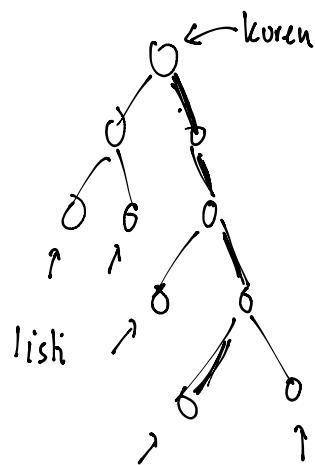
self.pravno = True / False

če ni pravno:

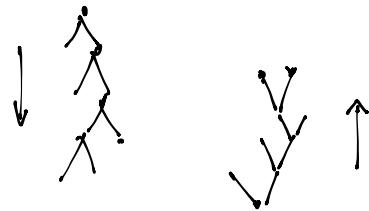
self.vsebina
self.levi
self.desni } drevesi



Globina



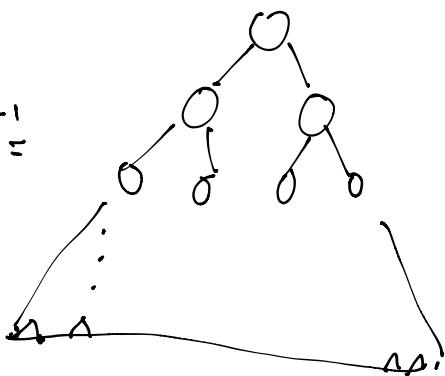
dolzina najdaljje poti
od korena do lista



Polno drvo globine n:

$$2^0 + 2^1 + 2^2 + \dots + 2^{n-1} = 2^n - 1$$

Vozlisc je



Polno drvo:
→ globina 0 prazno
→ globina n > 0:

