**NAPREDNI ALGORITMI I STRUKTURE PODATAKA**

![A screenshot of a computer screen

Description automatically 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VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVYU9OBAAAAAAAPJ/bQRVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVy4fTLAAAbMElEQVRVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV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**Savršeno binarno stablo**

Broj čvorova

Broj listova

Broj unutarnjih čvorova

Visina

**Uravnoteženo stablo** – dubina lijevog i desnog podstabla razlikuje se u najmanje jednoj razini.

**Savršeno uravnoteženo binarno stablo** – uravnoteženo i kompletno. Sve razine osim zadnje potpuno su popunjene

**Puno binarno stablo (full)** – svi unutrašnji čvorovi imaju točno dva djeteta

**Kompletno binarno stablo (complete)** – sve razine osim najdonje potpuno popunjene čvorovima. U najdonjoj razini listovi se popunjavaju s lijeve strane.

Broj čvorova

Broj listova

Broj unutarnjih čvorova

Visina

umetanje novog čvora u stablo – lijevo ako je manji, desno ako je veći

brisanje čvora iz stabla :

**DELETE**

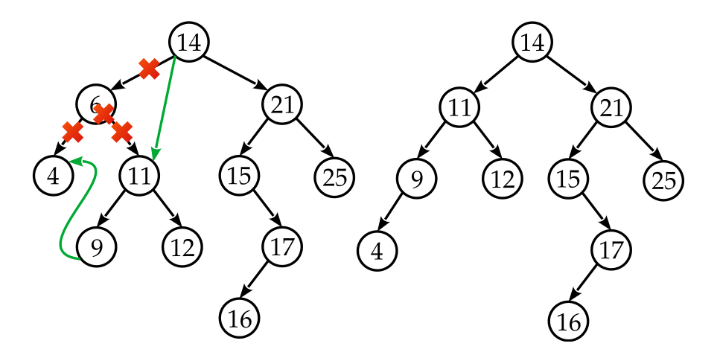
0 (list)

Broj djece

Pronađemo čvor koji brišemo

Čvor se može obrisati, a njegovo djete zauzima njegovo mjesto

1



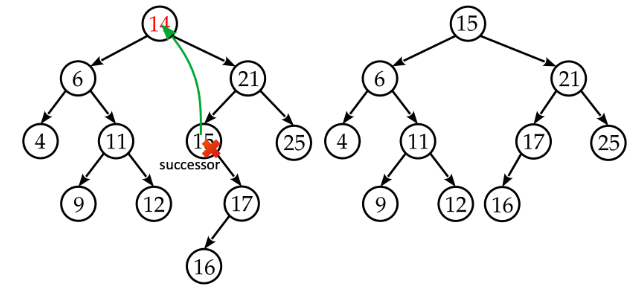
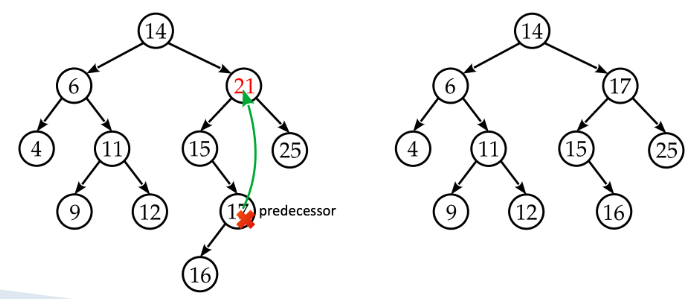
**Brisanje sjedinjenjem** ili **brisanje kopiranjem**

2



**Brisanje sjedinjenjem (*delete by merging*)** – znatno mijenja strukturu.

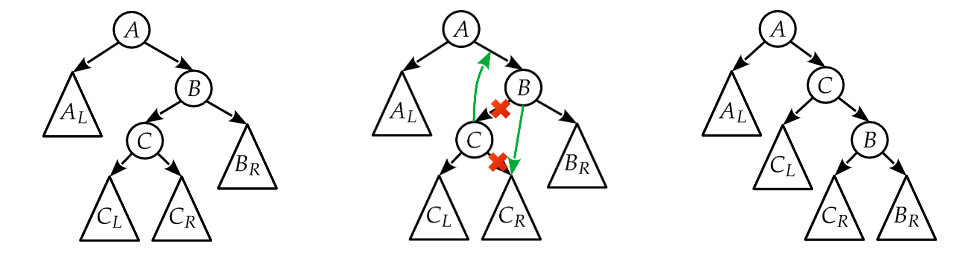
**Brisanje kopiranjem (*delete by copy*)** – struktura se minimalno mijenja.

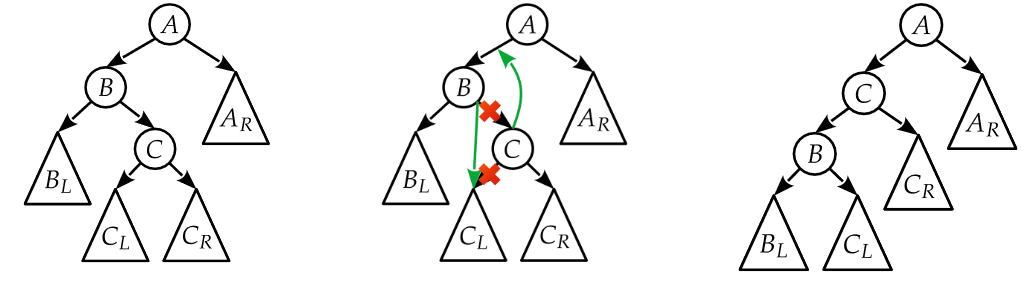
1. **Identifikacija čvora za brisanje**: Pronađite čvor A koji želite obrisati.
2. **Pronađite zamjenski čvor**:
   * **Direktni prethodnik**: To je **najdesniji** čvor u lijevom podstablu čvora A.
   * **Direktni sljedbenik**: To je **najljeviji** čvor u desnom podstablu čvora A.
3. **Kopiranje vrijednosti**: Prekopirajte vrijednost iz čvora X u čvor A. Sada, čvor A ima novu vrijednost, a izvorni čvor s tom vrijednošću (čvor X) treba biti obrisan.
4. **Uklanjanje zamjenskog čvora**: S obzirom da čvor X ima ili nema djece ili samo jedno dijete uklanjanje je prilično izravno.Top of Form

Bottom of Form

**ROTACIJE**

Desna rotacija (na početku C **lijevo dijete** čvora B) – B postaje desno dijete čvora C.

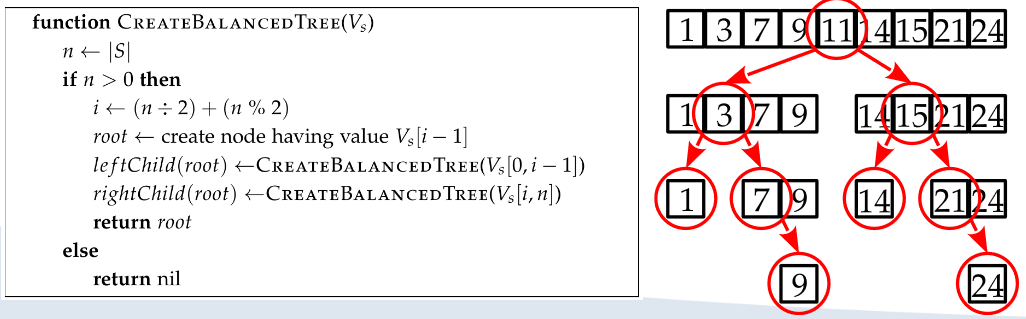


Lijeva rotacija (na početku C **desno dijete** čvora B) – B postaje lijevo dijete čvora C.

**STVARANJE BINARNOG STABLA**

1. **Iz sortiranog polja vrijednosti (offline)**:

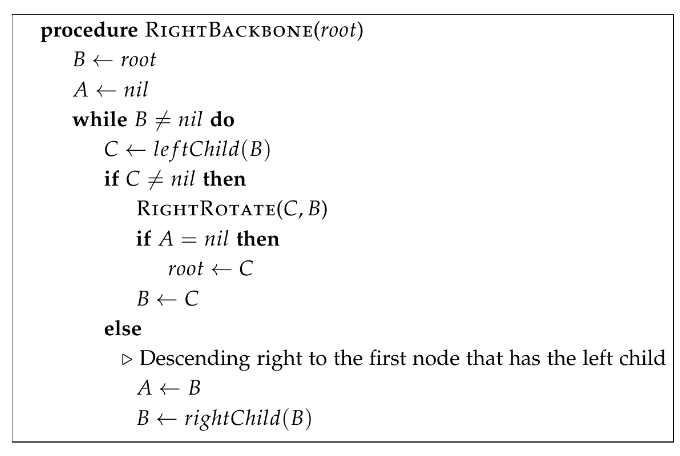
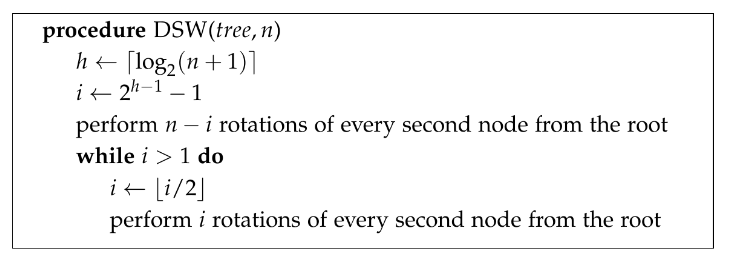
* Pronađemo pozicijski srednju vrijednost polja. Stvorimo korijenski čvor *v*. Za podpolje lijevo od *v* se rekurzivno stvara lijevo podstablo. Za podpolje desno od *v* se rekurzivno stvara desno podstablo. Ponavljamo dok možemo stvoriti nova podtabla.
* Kompleksnost – sortiranje polja + obilazak po elementima
* Uravnoteženo. Koristimo ga samo kad imamo polje vrijednosti i od njega gradimo binarno stablo



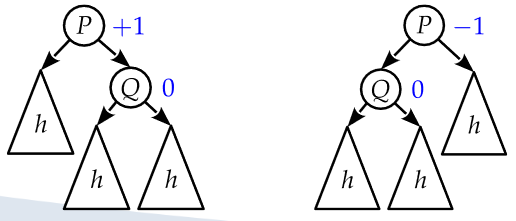
1. **Day-Stout-Warren algoritmom DSW (offline)**

* Kompleksnost
* Dvije faze algoritma:
  + Izrada kralježnice (koso stablo)
    - Npr. desna kralježnica – lijevu djecu čvorova rotiramo desno. Ponavljamo dokle god ima lijeve djece

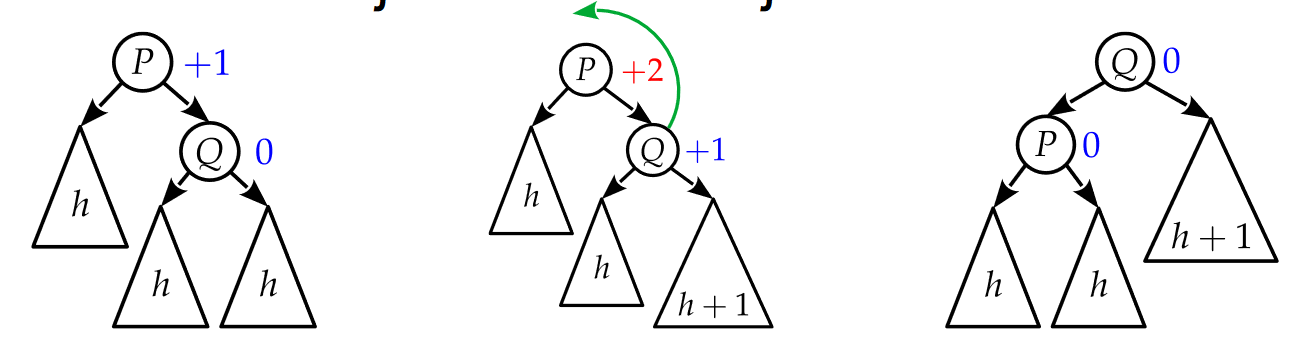
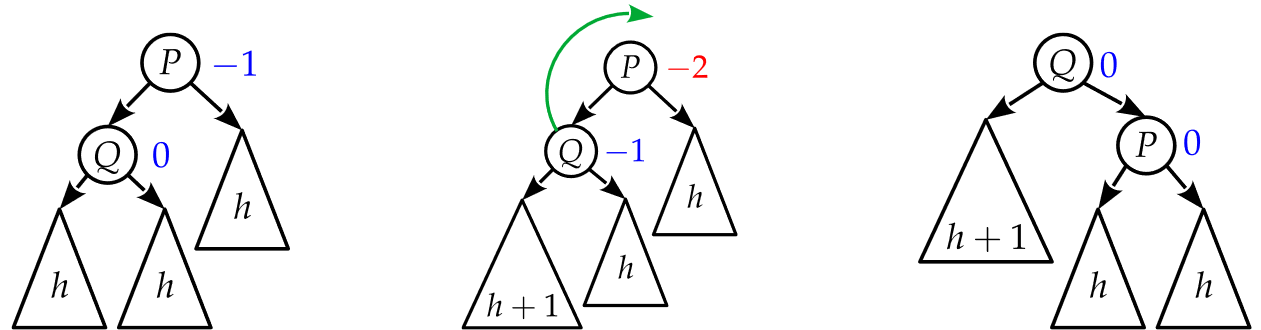
* + Rekurzivno lomljenje kralježnice nazad u kompletno stablo
    - strateški pozicionirane lijeve rotacije za savršeno uravnotežano binarno stablo
    - za desnu kralježnicu radimo lijeve rotacije, za lijevu kralježnicu desne rotacije



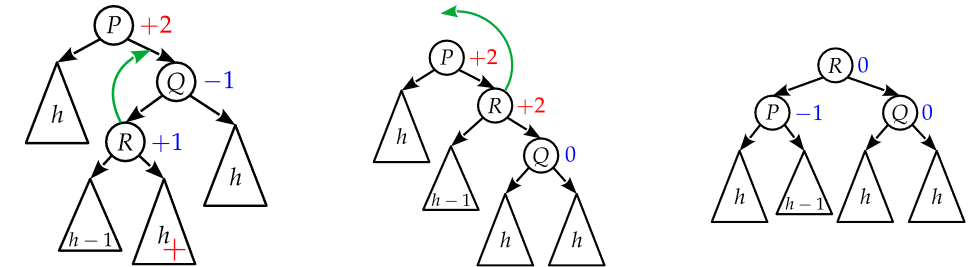
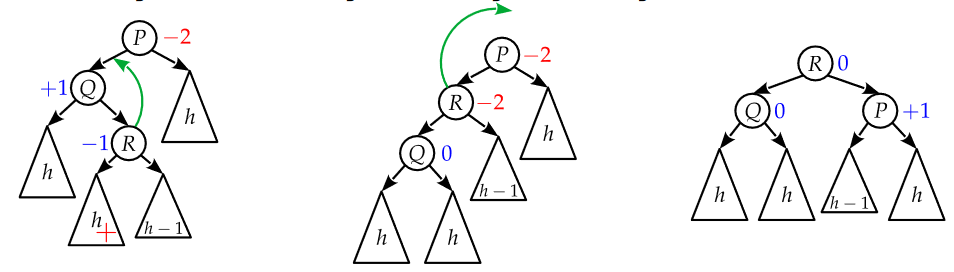
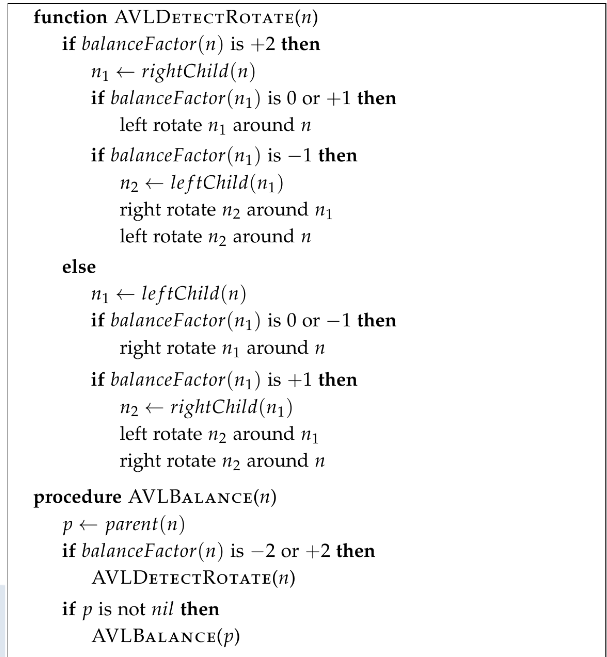
1. **Adelson-Velski-Landis algoritmom ADL (online)**

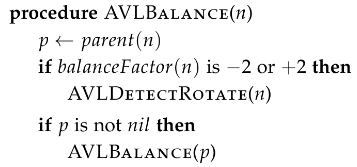
* Za binarno stablo definiramo ***faktor ravnoteže*** (*balance factor*) kao **.** Za sve čvorove kojima je smatramo da su njihova podstabla uravnotežena.
* Nakon dodavanja ažuriramo faktore ravnoteže na **vertikalnoj putanji**. Ako postoji čvor S sa , potrebno je **lokalno uravnotežavanje.**

**Izravnati slučajevi** – slučajevi gdje čvor i njegovo dijete imaju **iste** predznake BF-a

* + Desni izravnati slučaj – ako čvor ima BF = +2 (preteško na desnoj strani) i njegovo desno dijete ima BF = 0 ili 1, koristi se **lijeva rotacija**
  + ****Lijevi izravnati slučaj – ako čvor ima BF = -2 (preteško na lijevoj strani) i njegovo lijevo dijete ima BF = -1 ili 0, koristi se **desna rotacija**

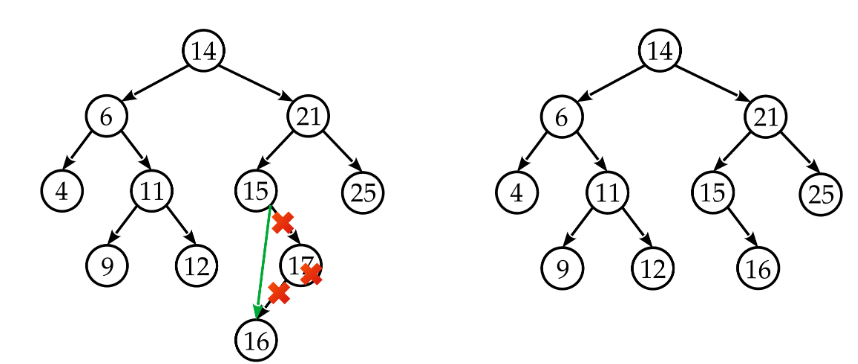
**Izlomljeni slučajevi** – slučajevi gdje čvor i njegovo dijete imaju **suprotne** predznake BF-a

* **Desni izlomljeni slučaj** – ako čvor ima BF = +2 i njegovo desno dijete ima -1 koristi se **dvostruka lijeva rotacija** (prvo desna rotacija na desnom djetetu, zatim lijeva rotacija na izvornom čvoru).
* **Lijevi izlomljeni slučaj** – ako čvor ima BF = -2 i njegovo lijevo dijete BF = +1, koristi se **dvostruka desna rotacija** (prvo lijeva rotacija na lijevom djetetu, zatim desna rotacija na izvornom čvoru
* Uvijek koristimo **brisanje kopiranjem** – moguće je da nastane disbalans
* Složenost pretraživanja -
* Složenost *upisa* ili *brisanja* vrijednosti - zato što se vraćamo nazad vertikalno do korijenskog čvora.

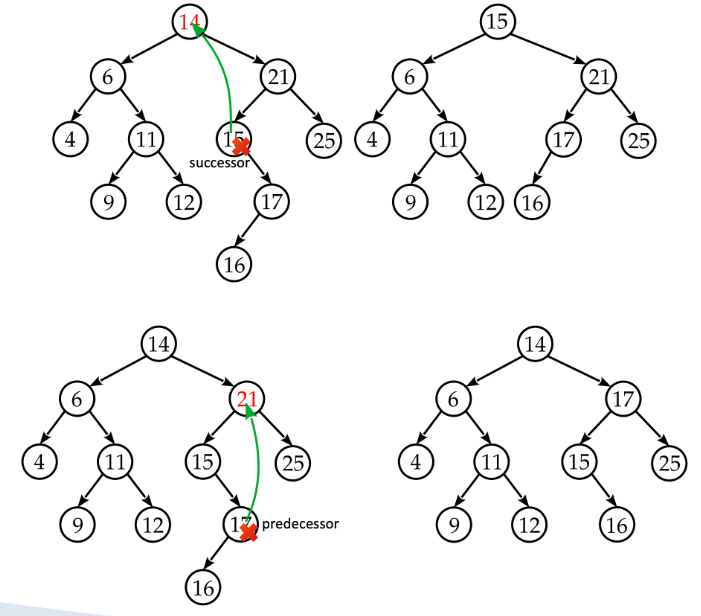


Brisanje čvorova - 3 slučaja :

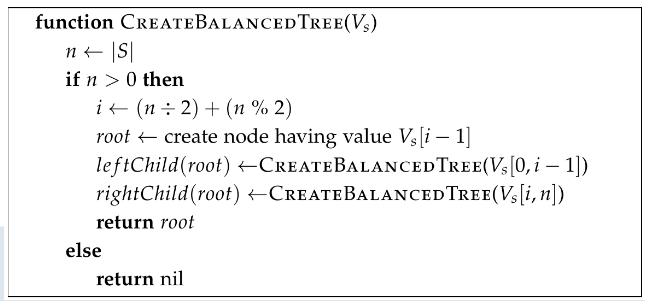
* Čvor je list
  + Samo obrišemo čvor
* Čvor ima jedno dijete
  + To dijete postaje novo dijete roditelja čvora koji se briše



* Čvor ima 2 djeteta
  + Brisanje sjedinjenjem (znatno mijenja strukturu)
    - Naći čvor koji se briše i njegovog roditelja (osim u slučaju brisanja korijena)
    - Utvrdimo na kojoj je strani čvor koji se briše u odnosu na svog roditelja (lijevo ili desno)
      * Ako je korijenski čvor u pitanju nebitno je koju stranu uzimamo za podstablo sjedinjenja
      * Inače imamo 2 opcije:
        + Čvor u lijevom podstablu roditelja -> podstablo ujedninjenja je desno podstablo
        + Čvor u desnom podstablu roditelja -> podstablo ujedninjenja je lijevo podstablo
  + Brisanje kopiranjem – svodi se na brisanje čvor bez djece ili s jednim djetetom
    - Pronađe se zamjenski čvor
      * Prethodnik je najdesniji čvor lijevog podstabla
      * Sljedbenik je najlijeviji čvor desnog podstabla



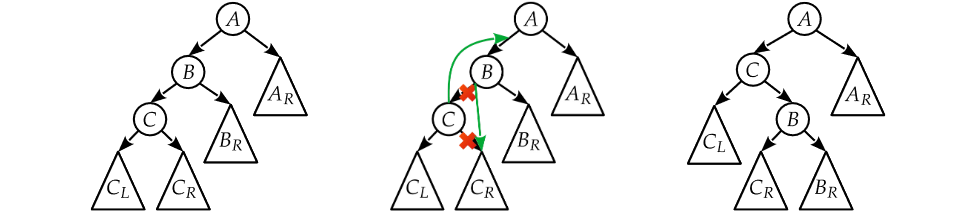
**Stvaranje binarnog stabla iz sortirane liste**

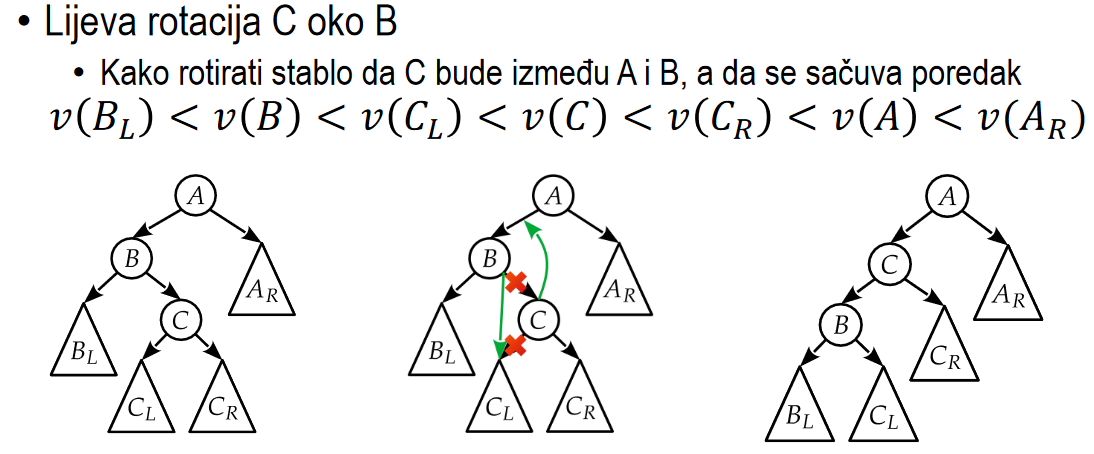
****

**Kompleksnost 𝑂 𝑛 𝑙𝑜𝑔!𝑛 + 𝑛)**

**Rotacije u stablu**

desna



lijeva

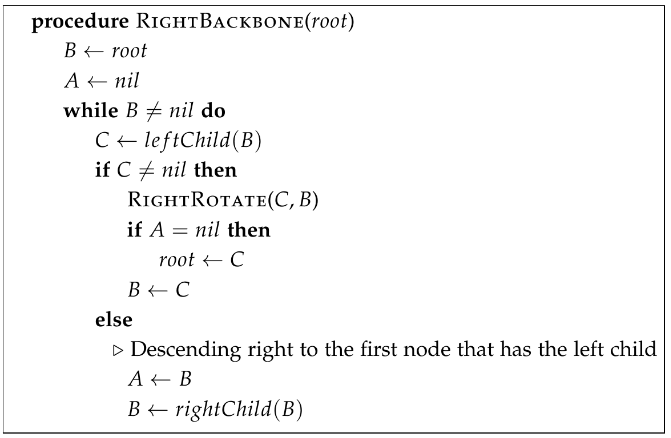
1. sort polje -> stablo (uravnoteženo)
2. DSW stablo -> koso stablo -> savršeno uređeno stablo

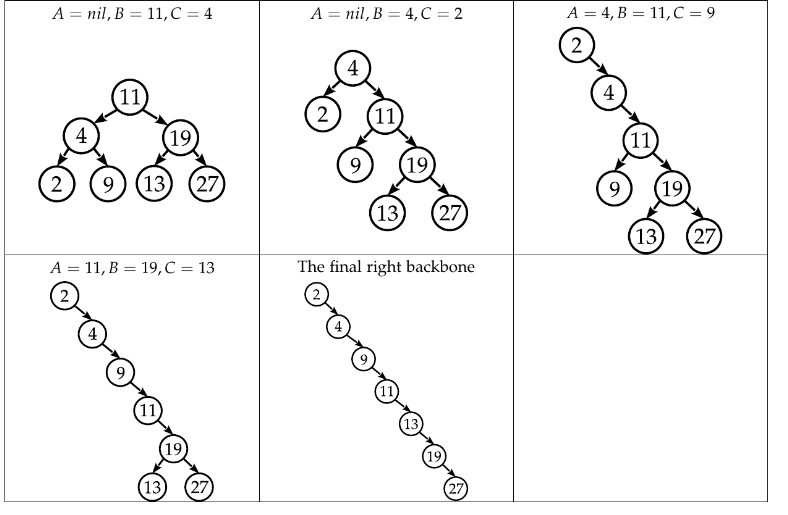
1 i 2 su offline operacije

**Day-Stout-Warren algoritam – DSW**

DVIJE FAZE :

* Izrada kralježnice (koso stablo)
* Rekurzivno lomljenje kralježnice u koso stablo





Lomljenje – lijeve rotacije za formiranje savršenog binarnog stabla

