**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**

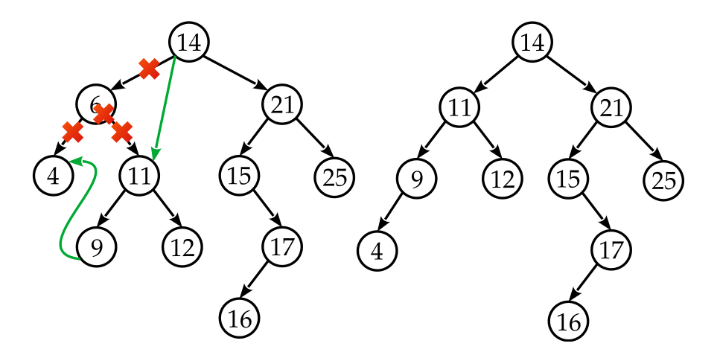
0 (list)

Broj djece

Pronađemo čvor koji brišemo

Čvor se može obrisati, a njegovo djete zauzima njegovo mjesto

1



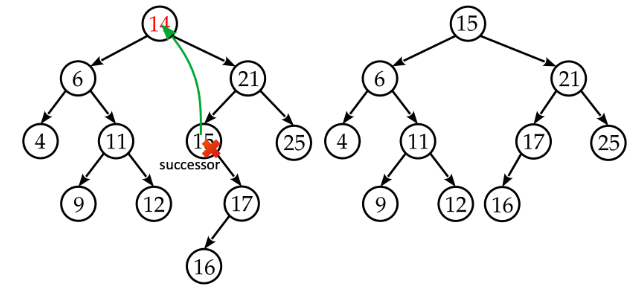
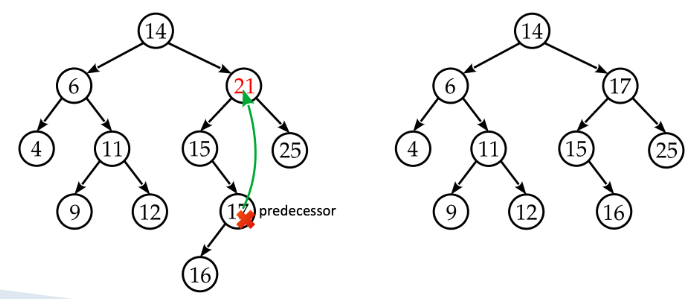
**Brisanje sjedinjenjem** ili **brisanje kopiranjem**

2



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

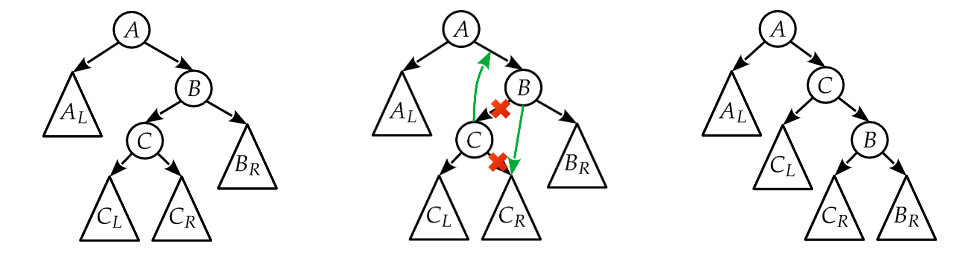
**Brisanje kopiranjem (*delete by copy*)** – struktura se minimalno mijenja.

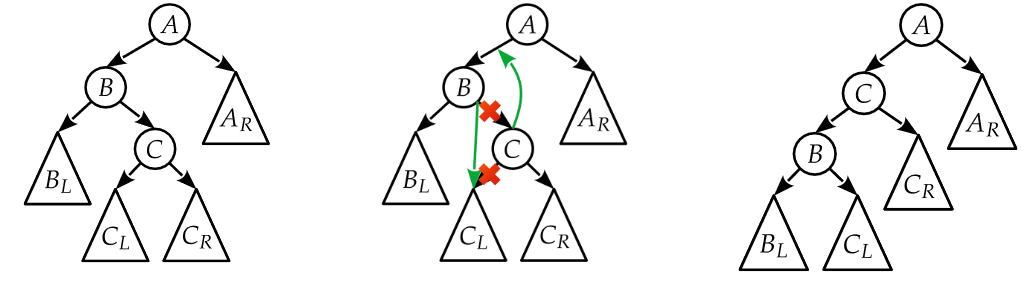
1. **Identifikacija čvora za brisanje**: Pronađite čvor A koji želite obrisati.
2. **Pronađite zamjenski čvor**:
   * **Direktni prethodnik**: To je **najdesniji** čvor u lijevom podstablu čvora A.
   * **Direktni sljedbenik**: To je **najljeviji** čvor u desnom podstablu čvora A.
3. **Kopiranje vrijednosti**: 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.

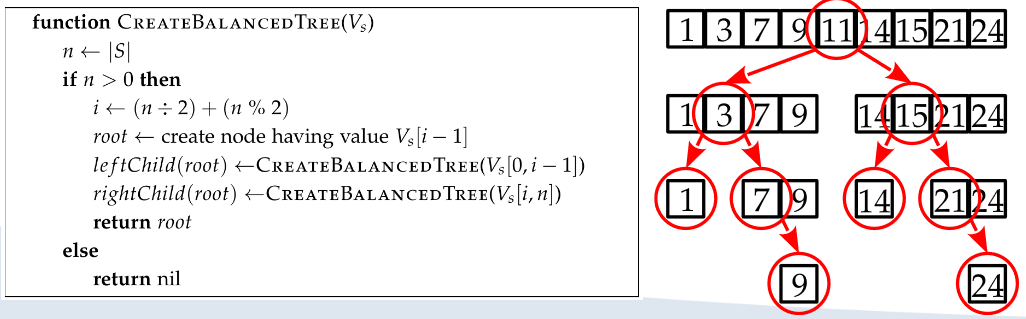


Lijeva rotacija (na početku C **desno dijete** čvora B) – B postaje lijevo dijete čvora C.

**STVARANJE BINARNOG STABLA**

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

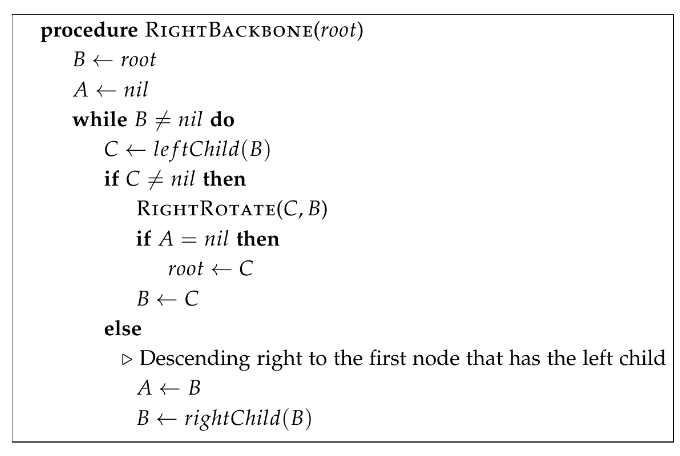
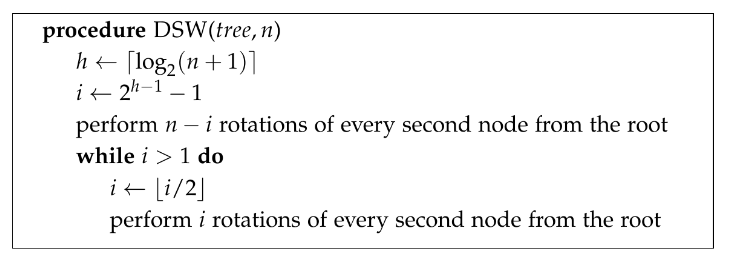
* Pronađemo pozicijski srednju vrijednost polja. Stvorimo korijenski čvor *v*. Za podpolje lijevo od *v* se rekurzivno stvara lijevo podstablo. Za podpolje desno od *v* se rekurzivno stvara desno podstablo. Ponavljamo dok možemo stvoriti nova podtabla.
* Kompleksnost – sortiranje polja + obilazak po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



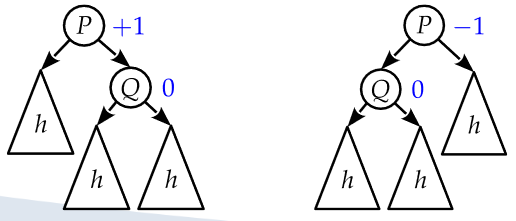
1. **Day-Stout-Warren algoritmom DSW (offline)**

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

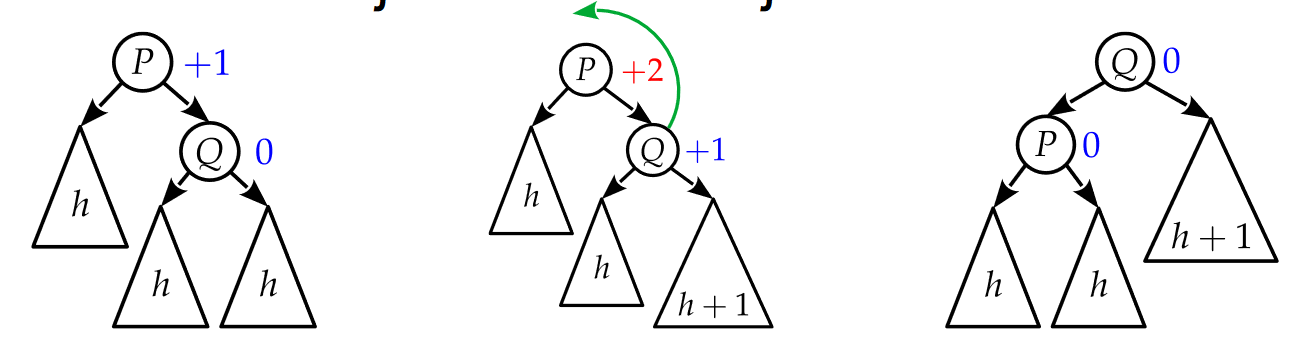
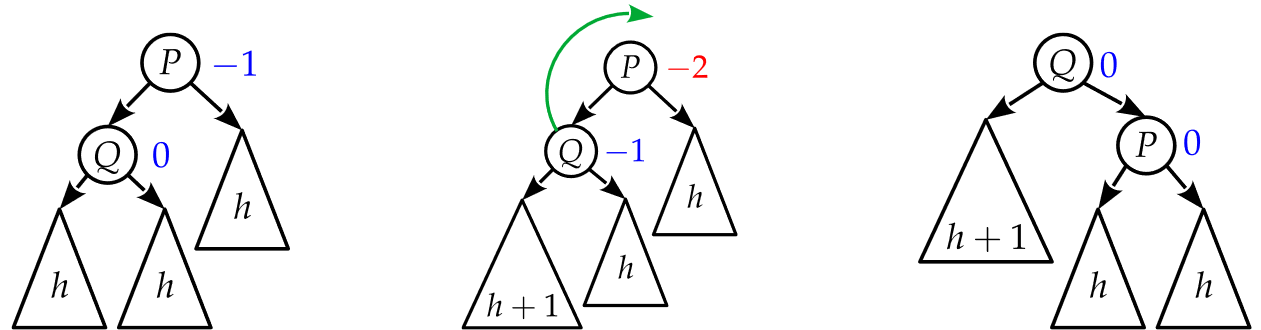
* + Rekurzivno lomljenje kralježnice nazad u kompletno stablo
    - strateški pozicionirane lijeve rotacije za savršeno uravnotežano binarno stablo
    - za desnu kralježnicu radimo lijeve rotacije, za lijevu kralježnicu desne rotacije



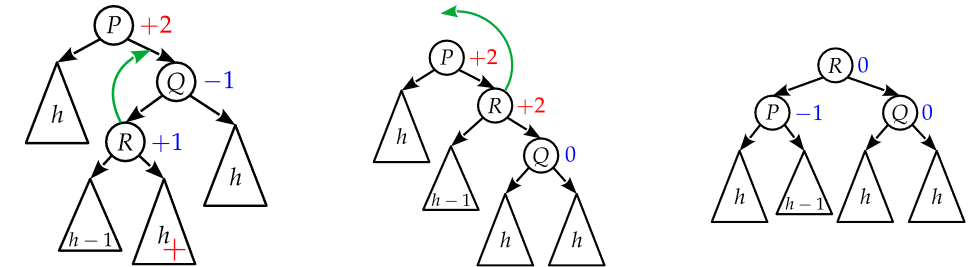
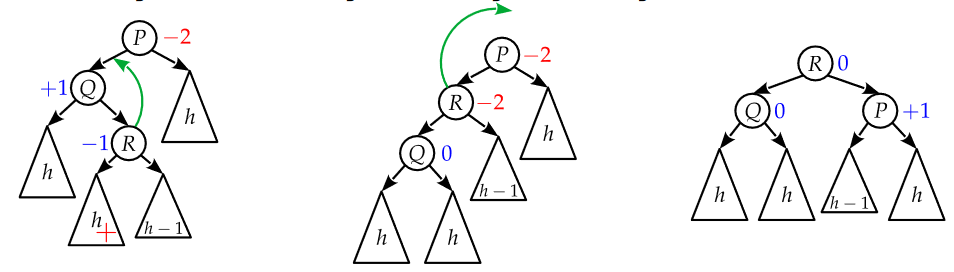
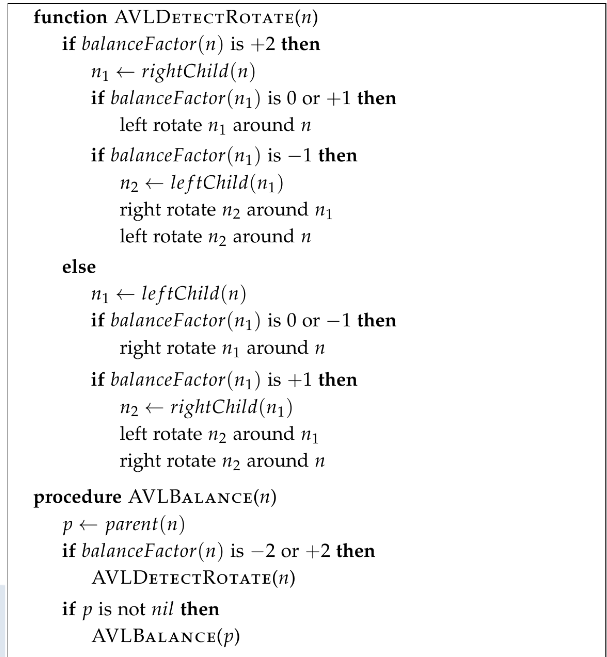
1. **Adelson-Velski-Landis algoritmom ADL (online)**

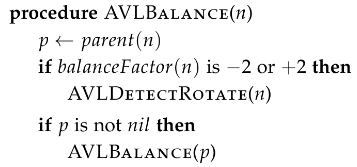
* Za binarno stablo definiramo ***faktor ravnoteže*** (*balance factor*) kao **.** Za sve čvorove kojima je smatramo da su njihova podstabla uravnotežena.
* Nakon dodavanja ažuriramo faktore ravnoteže na **vertikalnoj putanji**. Ako postoji čvor S sa , potrebno je **lokalno uravnotežavanje.**

**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.



M STABLA– *engl. Multiway tree* – stabla s proizvoljnim brojem djece

Svojstva :

1. Svako stablo ima njaviše m-1 djece i m podataka (ključeva)
2. Ključevi u čvorovima su sortirani
3. Ključevi u prvih i djece su manji od i-tog ključa promatranog čvora
4. Ključevi u zadnjih m-1 djece su veći od i-tog ključa promatranog čvora

B STABLO M-TOG REDA - B stablo s dodatnim svojstvima:

1. Korijen ima najmanje dvoje djece osim ako je ujedno i list
2. Svaki čvor osim korijena i listova, sadrži **barem** k-1 ključeva i k pokazivača na podstabla.

Pri čemu je

1. Svi listovi sadrže **barem** k-1 ključeva pri čemu je
2. Svi listovi su na istoj razini.

B stablo je bar 50% popunjeno i savršeno je uravnoteženo.

**Algoritam pretraživanja :**

1. Ući u čvor i redom pregledavati ključeve sve dok je trenutni manji od traženog, a još ima neprovjerenih.
2. Ako je 1. korak završio zbog nailska na ključ veći od traženog ili zbog dolaska do kraja čvora, spusti se na razinu niže i ponovi prvi korak. Ako nema niže razine, nema traženog ključa.

def BtreeSearch(n, vs):

nv = starting value of node n

**while** (value(nv) < vs **&&** next(nv) != NULL):

nv = next(nv)

**if** value(nv) = vs:

**return** n

**else if** (next(nv) == NULL **&&** value(nv) < vs)

**if** (rightChild(nv) != NULL):

**return** BtreeSearch(rightChild(nv),vs)

**else:**

**return** no searched key

**else**

**if** (leftChild(nv) != NULL):

**return** BtreeSearch(leftChild(nv),vs)

**else**

**return** no searched key

**Algoritam dodavanja podataka u B-stablo**

1. Pronaći list u koji bi trebalo smjestiti novi podatak
2. Ako ima mjesta upisati novi podatak
3. Ako je list pun *„rascijepati“* (split) ga. Napraviti novi list, ravnomjerno raspodijeliti elemente između dva čvora, a središnji element upisati u roditelja
4. Ako je i roditelj pun korak 1.b
5. Ako je i korijen pun racijepati ga i napraviti novi korijen

tri su moguća scenarija :

1. List u koji stavljamo novi element nije pun.
   * Ubaciti novi element na odgovarajuće mjesto
2. List u koji stavljamo novi element je pun.
   * List se dijeli i stvara se novi čvor
   * List u koji stavljamo novi element je pun, a isto tako i korijen stabla
   * Kad se razdjeli korijen nastaju dva B-stabla koja treba sjediniti

def BtreeInsert(bTree, vN):

n, nV = BtreeSearch(root, vN)

insert vN into node n

BtreeSplit(btree, n)

def BtreeSplit(Btree, n):

**if** (n.size() == m):

nL = new Node #(m/2)-1 vrijednosti

nMV = next value in node n

nR = new Node # rest of the values

nLAST = value of n1

**if** (parent(n) == NULL):

nROOT = new Node()

nMV = insert value(nMV) into nROOT

rootBTree = nROOT

leftChild(nMV') = nL

rightChild(nMV') = nR

**else**:

nMW = insertValue(nMV) into parent node of n

leftChild(nMV') = nL

rightChild(nMV') = nR

BtreeSplit(bTree, parent of n)

**Brisanje podataka u B-stablu**

1. Brisanje elementa iz lista
2. Brisanje elementa u čvoru

* Svodi se na brisanje elementa iz lista
* Na mjesto elementa koji se treba izbrisati upisuje se njegov neposredni prethodnik.
  + Najdesniji element lijevog podstabla

1. List nakon brisanja elementa ima ključeva
2. List nakon brisanja elementa ima ključeva
   1. Ako lijevo ili desno postoji susjed s ključeva
   * Elemente lista, elemente susjeda i središnji element iz roditelja ravnomjerno rasporediti u list i susjeda.

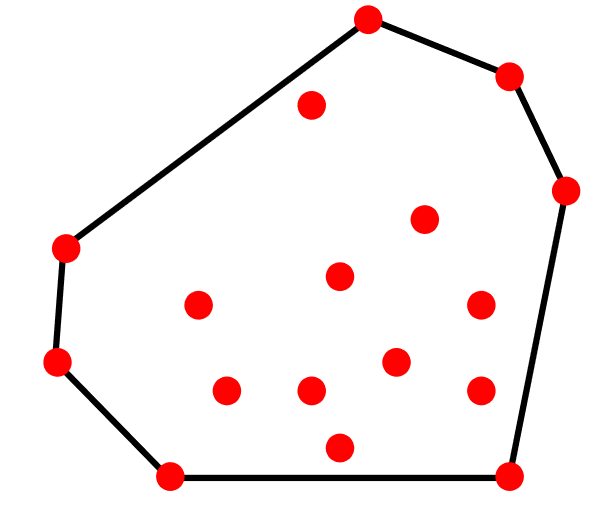
**GEOMETRIJSKI ALGORITMI**

Točka – infinitezimalni element prostora.

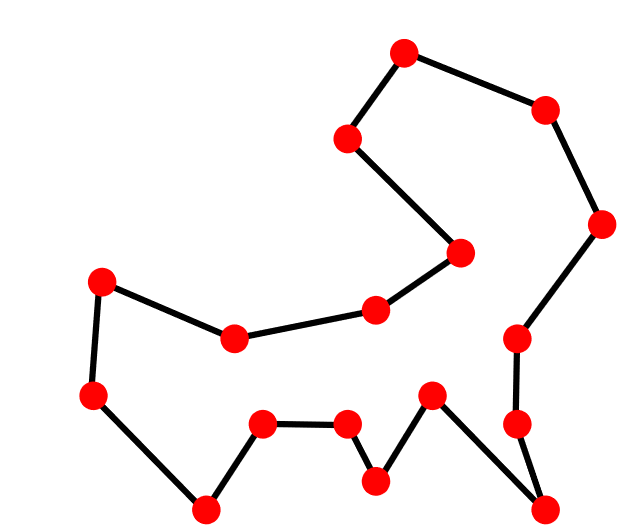
Linija – -||- i parametrizacija

Segment –

Ploha –

Poligoni – podskup točke P ograničen skupom točaka i linijskim segmentima između tih točaka. Poligon od n točaka naziva se n-gon. Suma unutarnjiv kutova je S = (n-2) \* 180. poligon se smatra **konveksnim** ako za svaki par točaka p1p2 dužina p1p2 prolazi unutar poligona. Poligon se smatra **jednostavnim** ako nema interakcije sa samim sobom, na primjer križanje s vlastitim bridom. **Regularni** poligoni su ***ekviangularni*** i ***ekvilateralni*** (svi kutevi i duljine su jednaki).

Plošna konveksna ljuska (Convex Hull) –

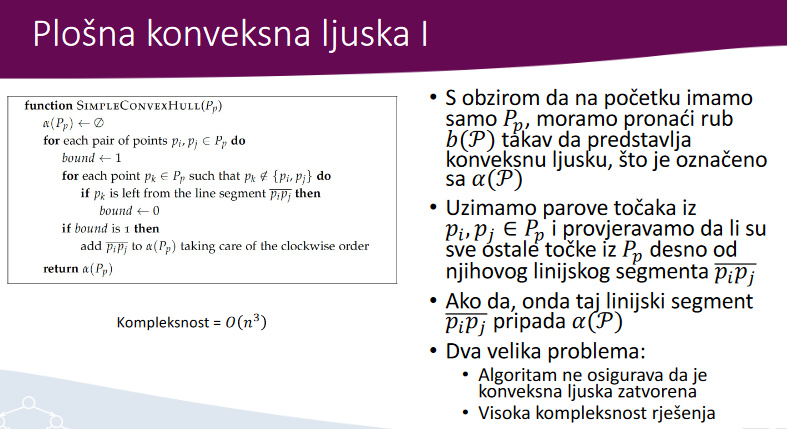


Način utvrđivanja da je b(P) konveksna ljuska:

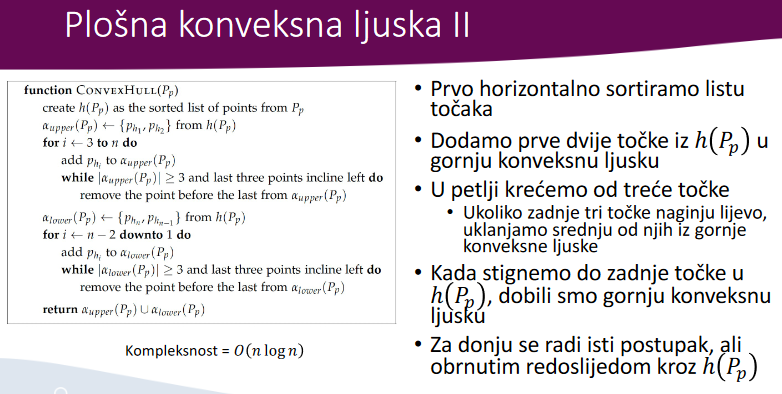
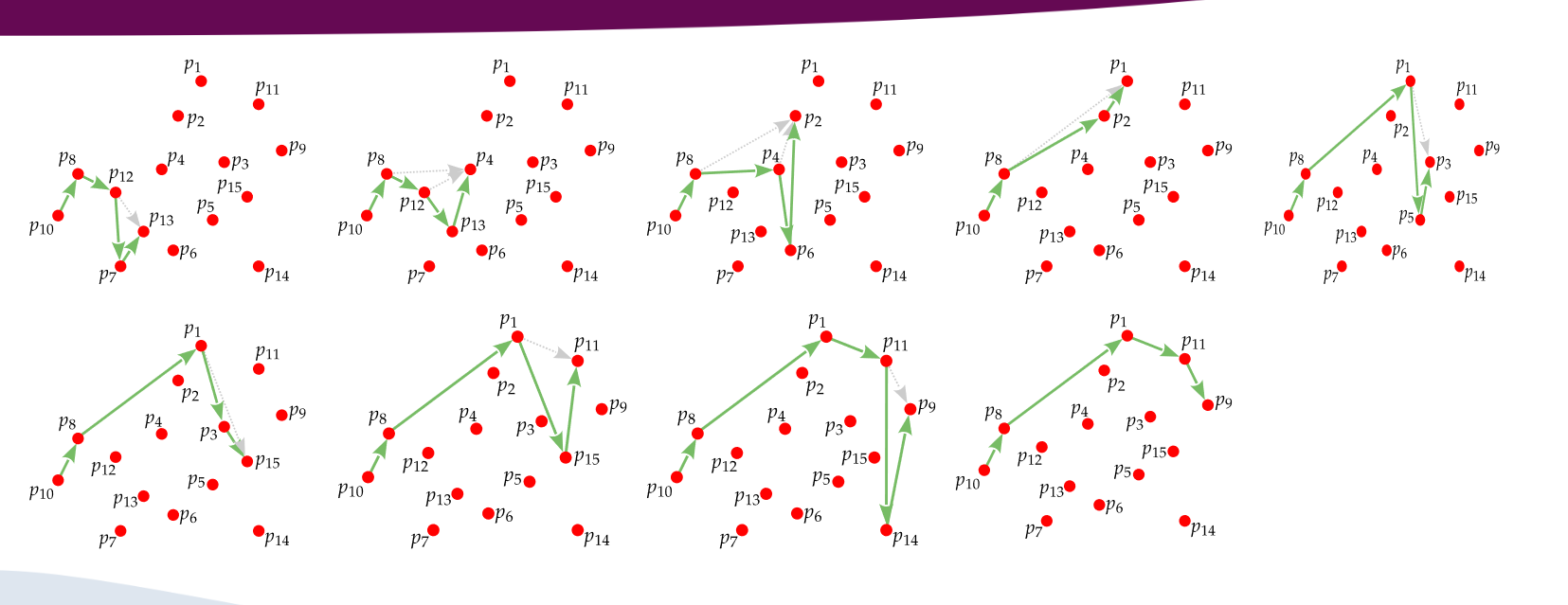
* + Uzmemo svaki linijski segment ruba poligona i gledamo da li su sve ostale točke u poligonu **desno** od njegove linije
  + Ako da, radi se o konveksnoj ljusci
  + Ako imamo dvije točke A i B i njihov linijski segment, tada se može definirati faktor

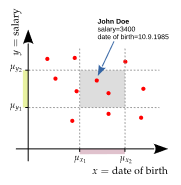
Za sve D > 0 smatramo da je točka p **desno** od linijskog segmenta AB

Loš algoritam –



Plošna konveksna ljuska II. –

* Razdjelimo konveksnu ljusku na gornji i donji dio
* Horizontalno sortiramo točke u P
* I dalje oba dijela konveksne ljuske obilazimo u smjeru kazaljke na satu
  + To znaći da je konveksna ljuska, a time i njena oba dijela **desno naginjuća**
* 
* 
* Algoritam prolazi kroz n točaka O(n). Koristimo sortiranje za stvaranje h(p) O(n log(n)).

Geometrijsko pretraživanje –

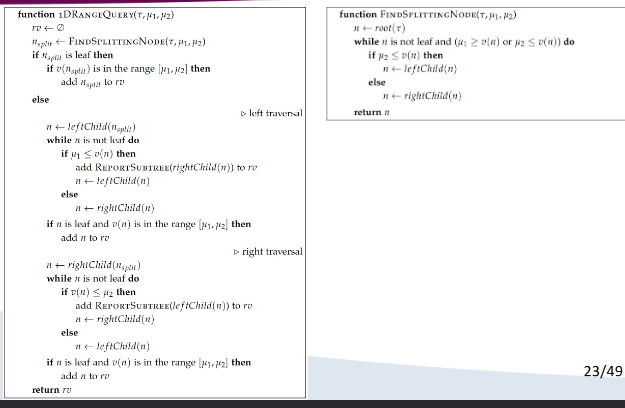
* Kako dohvatiti skup podataka koji ima određeni atribut u određenom rasponu vrijednosti?
* Generalno imamo skup (1D) iz kojeg što je brže moguće želimo pronaći te vrijednosti

Pretraživanje raspona 1D –

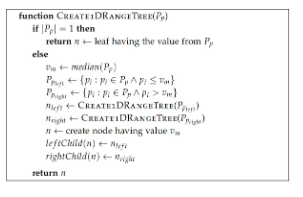
* Pribjegavamo korištenju binarnih stabala koja u **listovima imaju konkretne vrijednosti** – **stabla raspona**
  + Listovi imaju vrijednosti iz P
  + Unutarnji čvorovi su *guiding*
  + Princip kao u b^+ stablima

1. Krenemo od korijenskog čvora tražeći prvi čvor koji je u traženom rasponu [1,2], tzv. *razdvajajući čvor* n-split
2. Od razdvajajućeg čvora n-split krećemo se na lijevu i na desnu stranu, tako dobivamo dvije vertikalne putanje od čvora do lista Vl i Vr
3. Krećući se lijevo, znamo da su čvorovi manji od n-split te imamo dvije opcije
   1. Čvor je unutar traženog raspona:
      * Njegovo desno podstablo je sigurno u traženom rasponu i sve njegove vrijednosti automatski dodajemo rezultatu. (pruning)
      * Za njegovo lijevo podstablo nismo sigurni pa se krećemo na lijevo dijete
   2. Cvor nije unutar traženog raspona:
      * Njegovo lijevo stablo sigurno nije u rasponu i ignoriramo ga
      * Za njegovo desno podstablo nismo sigurni pa se krećemo na desno dijete
4. Kretanjem u desno izvodimo zrcalne operacije

* Kompleksnost pretraživanja je O(k + logn) gdje je k broj automatski dodanih vrijedosti a log n su dva prolaska kroz binarno stablo.



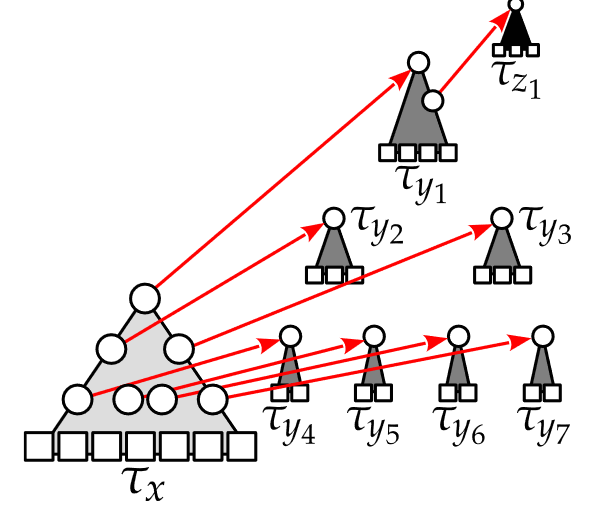
* Stvaranje uravnoteženog stabla:
  + Stvoreni čvor je medijan svih vrijednosti u njegovom podstablu
  + Lijevo stablo <=
  + Desno stablo >
  + Rekurzivnim postupkom stvaramo binarno stablo sve do njegovih listova – **konkretnih vrijednosti**

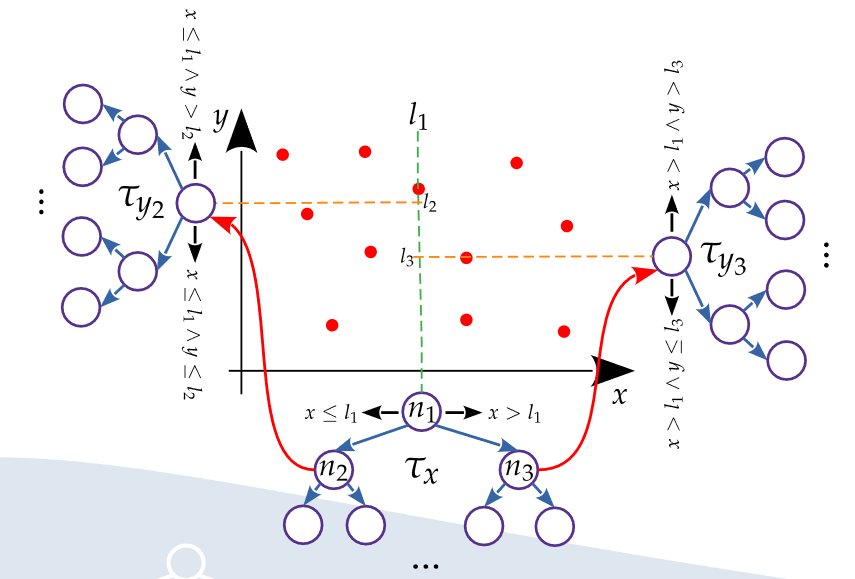
1. Ako smo dobili samo jednu vrijednost:
   1. Vratimo čvor s jednom vrijednošću (list)
2. Više vrijednosti :
   1. Izračunamo medijan
   2. Podijelimo vrijednosti na lijeve i desne
   3. Rekurzivno stvaramo lijevo i desno podstablo
   4. Postavimo stvorena podstabla kao lijevo i desno dijete korijena

* Kompleksnost stvaranja stabla O(n log n) radi sortiranja zbog traženja medijana

Pretraživanje raspona 2D –

Svakom čvoru **stabla raspona** dodajemo podstablo tau-assoc za dodatnu dimenziju (y)

* Ovo ulančavanje može se nastaviti za ostale dimenzije
* Tau-assoc predstavlja stablo raspona za sve točke koje predstavlja čvor ni, ali za višu dimenziju
* Kompleksnost **pretraživanja** za dvije dimenzije je O(k + log^2n) radi ulančavanja stabala
* Kompleksnost **stvaranja** O(n log n)



Pretraživanje intervala 1D –

Želja nam je imati strukturu u koju spremamo skup intervala, tako da brzo i efikasno možemo pronaći intervale koji se nalaze u prostoru upita -> kompozitna binarna stabla koje vrijednosti sprema u čvorovima – **stabla intervala**

Izračunamo medijan vm svih **krajnjih točaka** intervala iz skupa intervala za koji stvaramo stablo

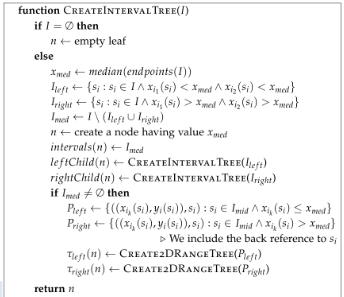
* Za korijenski čvor skup intervala je l
* Za svaki čvor ispod korijenskog to je podskup od l-skupa intervala spremljenog u roditelja

Stvorimo čvor s vrijednošću izračunatog medijana vm

* U čvor spremimo sve intervale koji presjecaju vm
* U n1 tako spremamo intervale l(n1) = {s1, s2, s3}

Rekutzivno stvaramo lijevo i desno podstablo

U svakom čvoru dodaju se dvije dodatne strukture podataka (2D stabla)

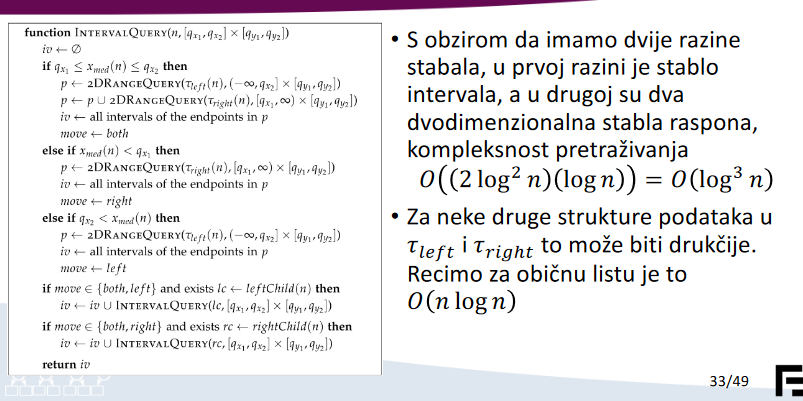
* U lijevom tau-left se čuvaju lijeve krajnje točke intervala spremljenih u taj čvor
* U tau-right desne krajnje točke
* Tau left i right imaju povratne reference

dva scenarija :

1. Interval u potpunosti presjeca -> obje krajnj su izvan
2. Početak ili kraj je izvan
3. Trebamo pazit na y

Osnovno stablo O(nlogn) zbog sortiranja

* Dva stabla raspona po čvoru = O(nlogn)(2logn) = O(nlog^2 n)

Pretrazivanje inetravala – ponovi  


Stablo prioriteta (priority tree) –

heap kao podatkovna struktura. Ukoliko točke sortiramo po x-osi, možemo ih spremiti u gomilu

za y-osi koristimo činjenicu da particioniranje gomile može biti proizvoljno tako dugo dok je gomila sortirana – roditelj < djece

u gomilu ugrađujemo koncept binarnog stabla. **Stablo prioriteta**

dodaj kreiranje priority tree-a !!!

Pretraživanje linijskih segmenata –

Predavanje 5 – **Linearno programiranje -** Uvjet je da je tijelo **konveksni polinom.**

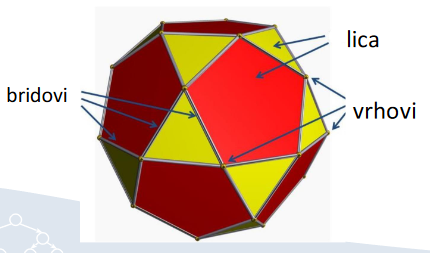
**Konveksni politop** u n-dimenzionalnom prostoru jest skup vektora (točaka):

**LP formulacije:**

* Kanonska forma LP – idealna za geometrijsku perspektivu
* Standardna forma – idealna za algebarsku perspektivu

**Kanonska forma - Minimizirati**  **uz uvjet ,**

**Standardna forma -Minimizirati**  **uz uvjet ,**

Tijela opsana u ograničenjima u LP-u su **konveksni politopi P**

U n-dimenzionalnom prostoru, **vrh politopa** definiran je kao presjecište **barem n** aktivnih linearno nezavisnih ograničenja

**Ekstrem konveksnog skupa**  – svaka točka koja nije na ravnoj spojnici ikojih drugih dviju točaka. Ekstremi u politopu su vrhovi.

**SIMPLEX**

Za simplex metodu koristimo **LP u standardnoj formi**

* **Minimizirati**  **uz uvjet ,**
* **Vrhovi** određeni sa n aktivnih ograničenja

Nalazimo se u n-dimenzionalnom prostoru . M aktivnih rješenja već fiksirano. **Susjedi se razlikuju po samo jednom aktivnom ograničenju**. Aktivna ograničenja imaju jednakost, zato koristimo standardnu formu.

**Bazične varijable** – sve varijable koje nisu fiksirane na 0. Dobivaju se inverzom matrice.

**Bazično rješenje** sustava je vektor **,** gdje jeodabrana baza (stupci u matrici **A**) u sustavu od m jednadžbi s n nepoznanica.

**Teorem LP :**

1. Ako postoji bilo kakvo rješenje, postoji i **izvedivo bazično rješenje.**
2. Ako postoji optimalno rješenje, postoji i **bazično optimalno rješenje**.

PSEUDOKOD

....

* Problem početne baze – **dvofazni simpleks** – rješavaju se 2 LP-a u nizu
  + 1. faza – **pomoćni umjetni korak** za naći početno bazično rješenje. Uvijek ima svoju trivijalnu početnu bazu.
  + 2. Faza – zapravo riješava LP od interesa