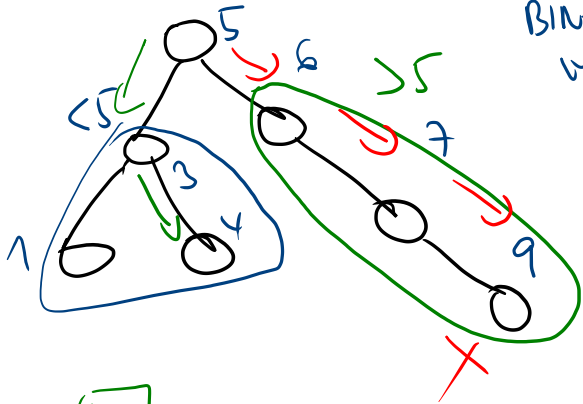
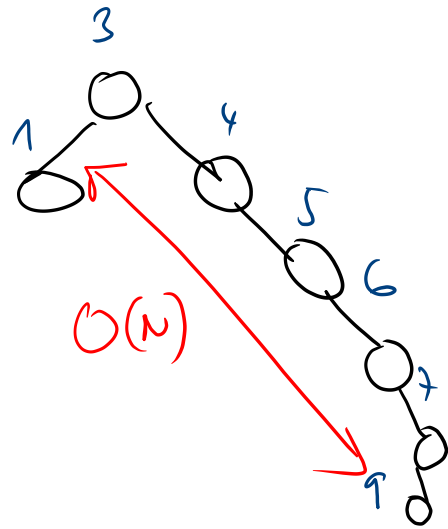


BINA'ENI
VITLEDAVACI
STROM

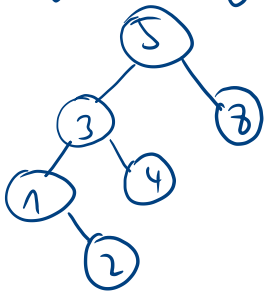


4

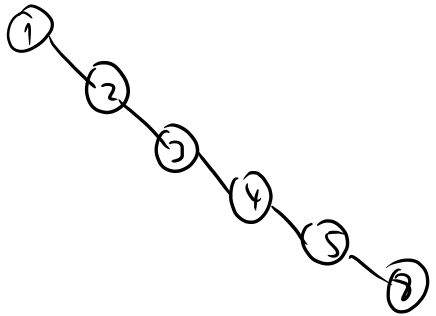
7



5, 3, 8, 1, 2, 4

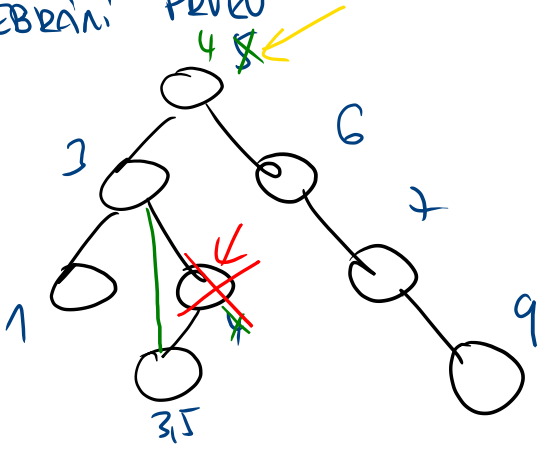


1, 2, 3, 4, 5, 8



ONEBRAIN!

PRVLU

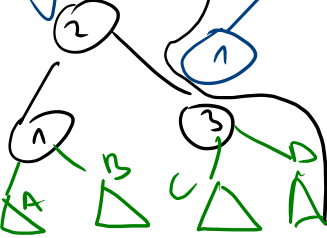
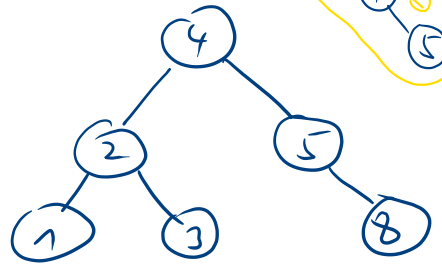
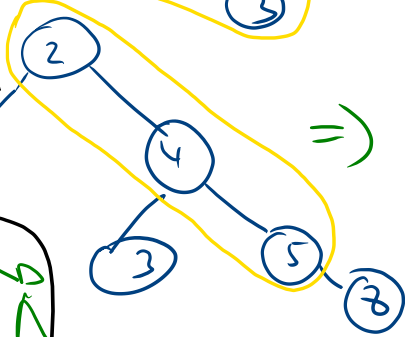
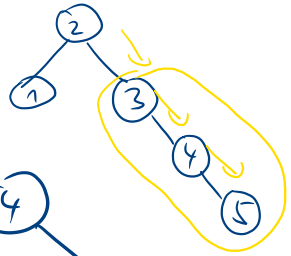
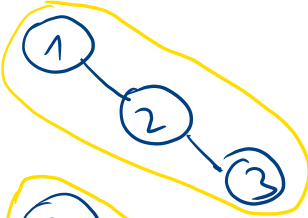
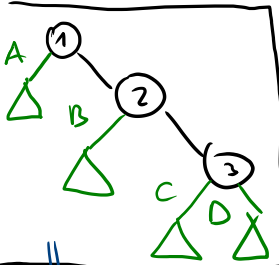


1) 0 potanku

2) 1 potonek

3) 2 potanky

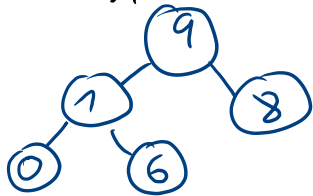
AVL 1, 2, 3, 4, 5, 8



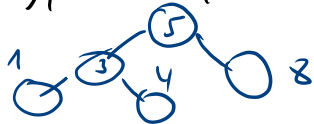
TREE(HODNOTA, LEVI PODSTROM, PRAVI PODSTROM)

A TREE(5, NONE, NONE) → (5)

B TREE(9, TREE(1, TREE(0, NONE, NONE), TREE(6, NONE, NONE)),
TREE(8, NONE, NONE))



C TREE(5, TREE(3, TREE(1, NONE, NONE), TREE(4, NONE, NONE)),
TREE(8, NONE, NONE))



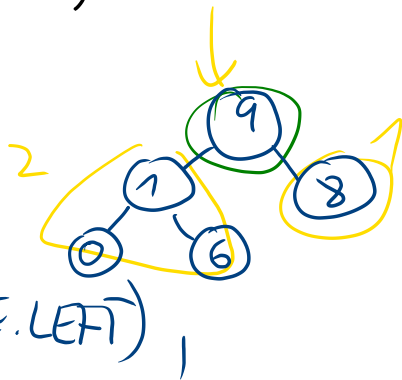
TREE(HODNOVA, LEVI PODSTROM, PRAVI PODSTROM)
VAL LEFT RIGHT

DEF HEIGHT(TREE) → INT:

IF TREE IS NONE:

RETURN 0

RETURN 1 + MAX(HEIGHT(TREE.LEFT),
HEIGHT(TREE.RIGHT))



SEARCH (TREE, VAL) → BOOL:

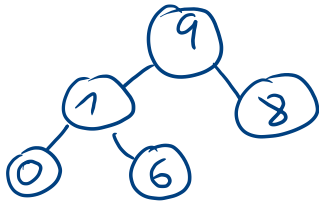
IF TREE IS NONE:
RETURN FALSE

IF TREE.VAL == VAL:
RETURN TRUE

RETURN SEARCH (TREE.LEFT, VAL)

OR

SEARCH (TREE.RIGHT, VAL)



PŘÍKLADY NA DOMA:

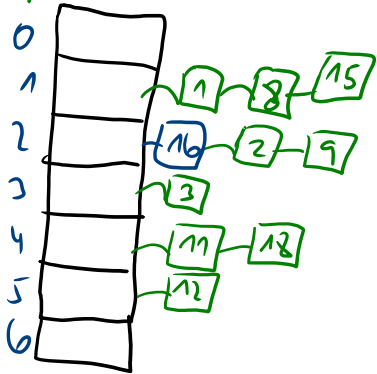
→ NALEZENÍ MIN/MAX V OBEZNEMĚNÉM BIN. STROMĚ

→ NALEZENÍ PRVKU V BST

→ NALEZENÍ MIN/MAX V BST

→ ROZHODNOVAT ZDARÍ JE STROM BST

$M=7$



16

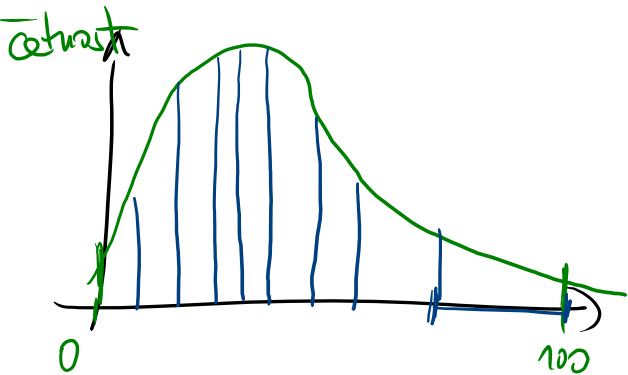
1, 3, 2, 8, 9, 11, 12, 15, 18

$H(k)$ = index do hashovace tabulky

$$H(k) = k \bmod 7$$

$$1 \bmod 7 = 1$$

$$8 \bmod 7 = 1$$



$$\mu = 10$$

