Jeudyl Robles Pidiache
Exercise Sheet 2
Gruppe 4

7/10 Punkte

Exercise 1: 2/2 P.

a)

$11000000110100000000000000000000_2 = (-6,5)_{10}$ ✓

b)

$20,5_{10} = 0100\ 0001\ 1010\ 0100\ 0000\ 0000\ 0000\ 0000_2$ ✓

Exercise 2: 1/1P.

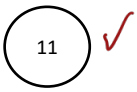
a) **SkI** =

$0101\ 0011\ 0110\ 1011\ 0100\ 1001_2$

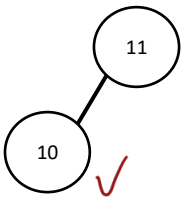
Exercise 3: 1/2P.

a)

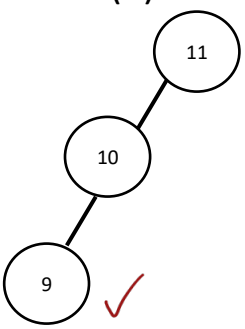
insert(11):



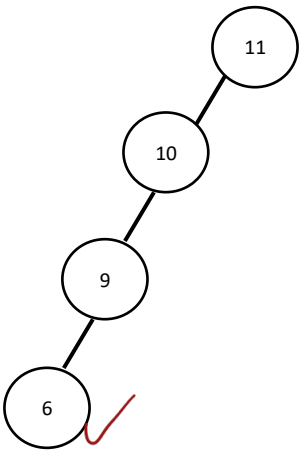
insert(10):



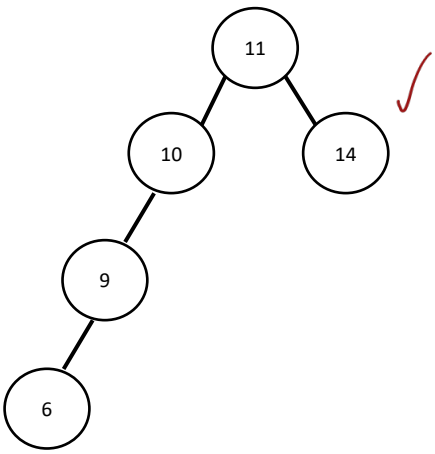
insert(9):



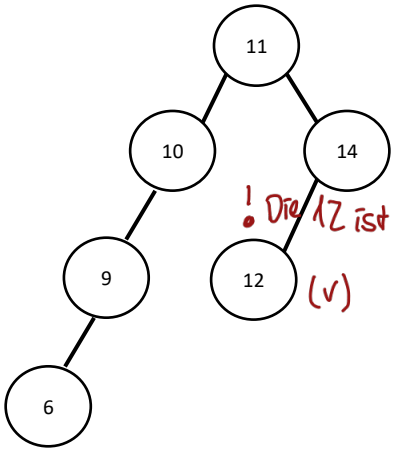
insert(6):



insert(14):



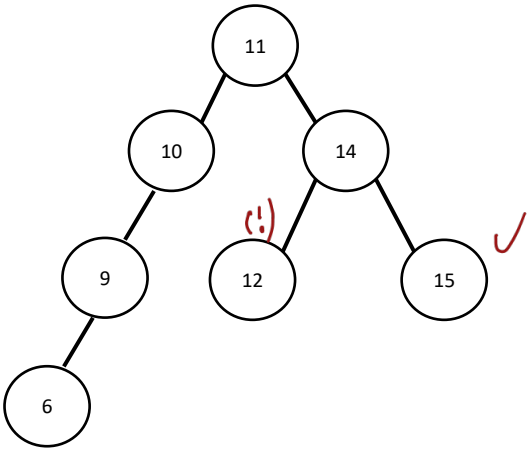
insert(12):



! Die 12 ist direkt unter der 11 !

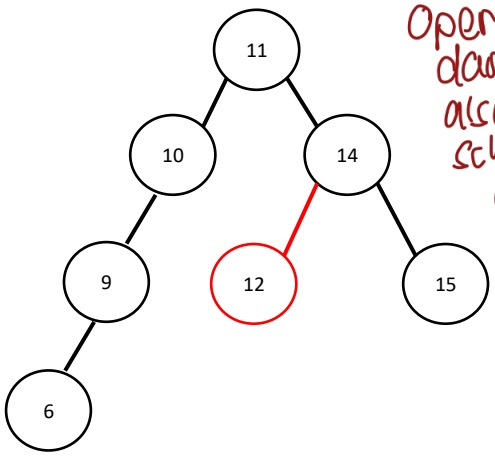
(v)

insert(15):

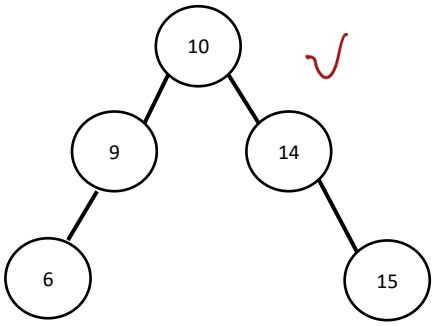


(!) ✓

remove(12): nach der Operation darstellen, also eigentlich schon ganz ohne die 12!



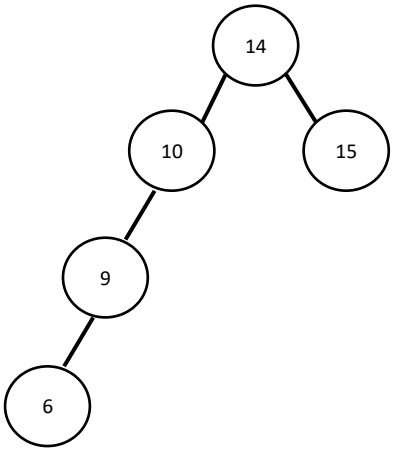
remove(11):



✓

Oder

remove(11):



✓

Exercise 4: 3/5 P.

a)

20 % 13 = 7
19 % 13 = 6
05 % 13 = 5
21 % 13 = 8
07 % 13 = 7
40 % 13 = 1
23 % 13 = 10
31 % 13 = 5
12 % 13 = 12
16 % 13 = 3
27 % 13 = 1
34 % 13 = 8

Der Wert von „m“ ist in diesem Fall 13. ✓

b)

0	→
1	→ 40 → 27
2	→
3	→ 16
4	→
5	→ 5 → 31
6	→ 19
7	→ 20 → 7
8	→ 21 → 34
9	→
10	→ 23
11	→
12	→ 12