

Übungsblatt 7

Truong

Aufgabe 2

- Notiz: R heißt Rot (red node), B heißt Schwarz (black node)
- Add 41

B41

- Add 38

B41
/
R38

- Add 31

B38
/ \
R31 R41

- Add 12

B38
/ \
B31 B41
/
R12

- Add 19

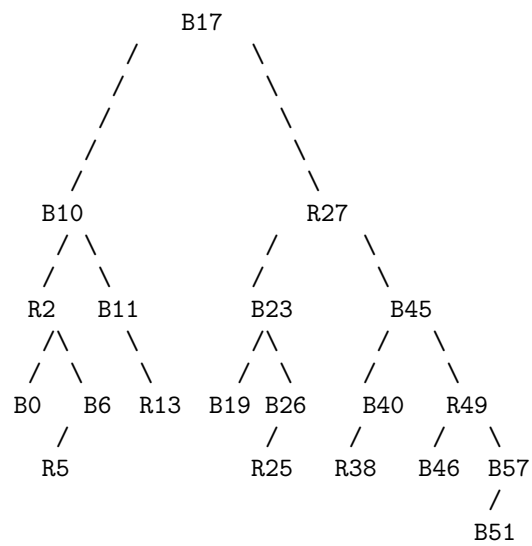
B38
/ \
B19 B41
/ \
R12 R31

- Add 8

B38
/ \
R19 B41
/ \
B12 B31
/
R8

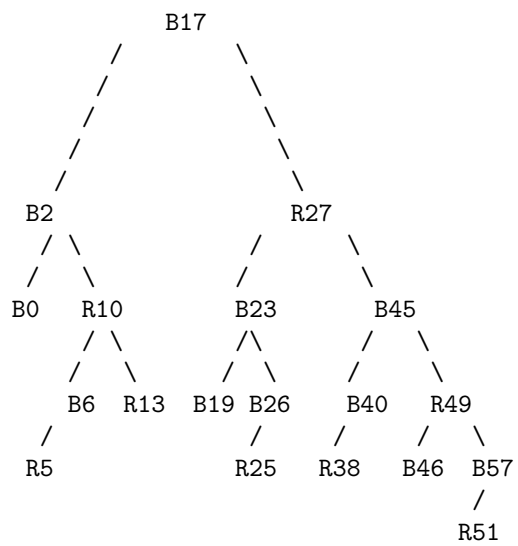
Aufgabe 3

Gegebenen Baum:

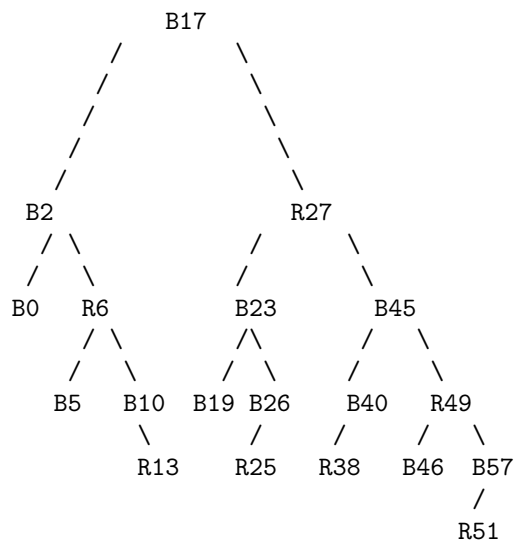


Delete 11

Vor RB-Delete-Fixup

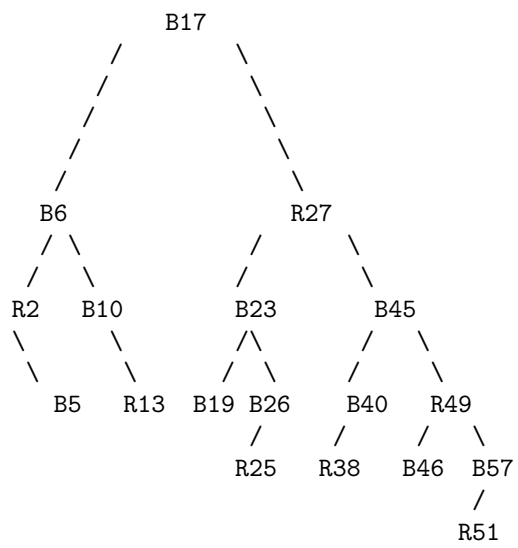


Nach RB-Delete-Fixup

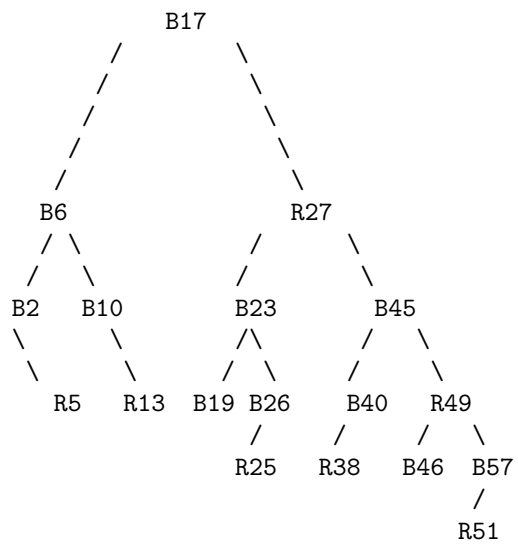


Delete 0

Vor RB-Delete-Fixup

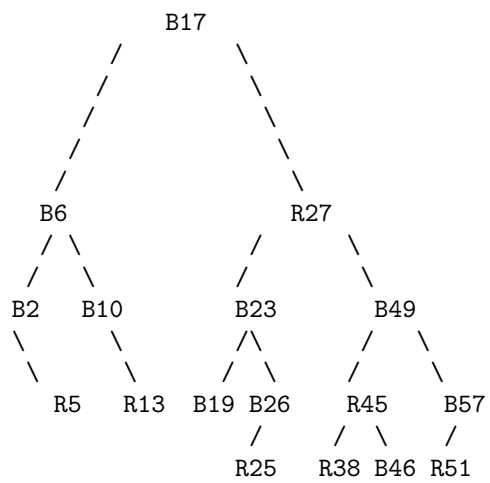


Nach RB-Delete-Fixup

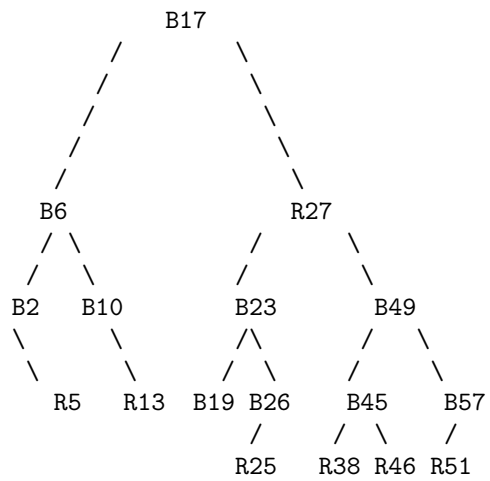


Delete 40

Vor RB-Delete-Fixup

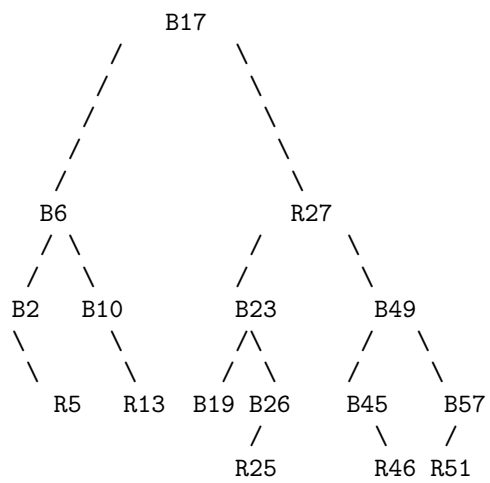


Nach RB-Delete-Fixup

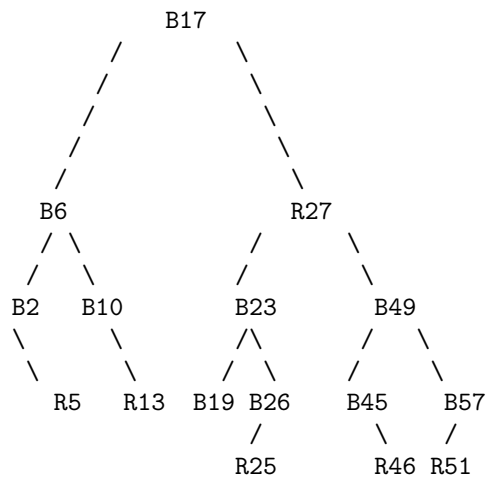


Delete 38

vor RB-Delete-Fixup

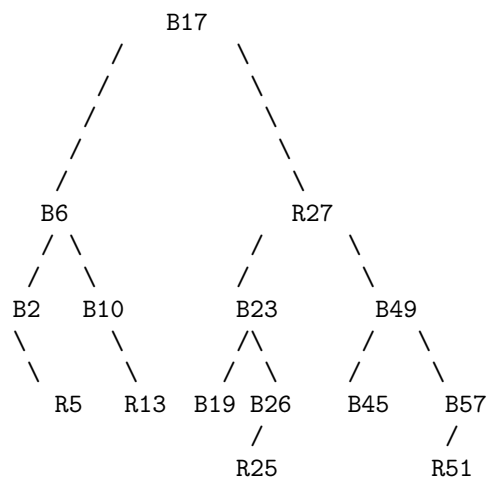


Nach RB-Delete-Fixup

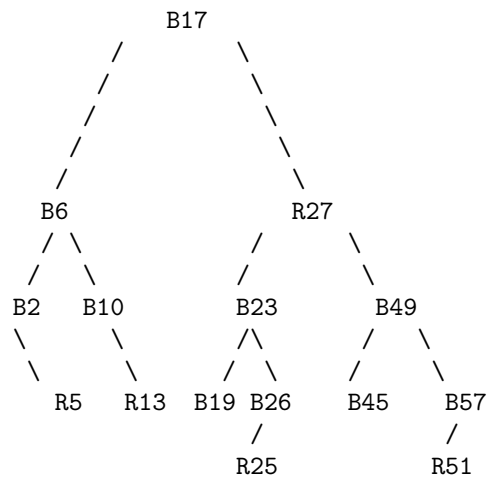


Delete 46

Vor RB-Delete-Fixup

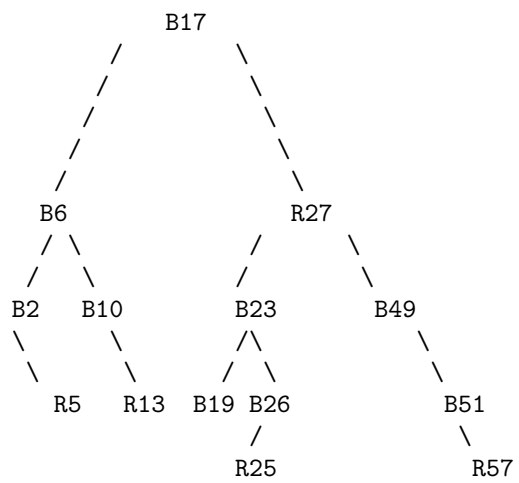


Nach RB-Delete-Fixup



Delete 45

Vor RB-Delete-Fixup



Nach RB-Delete-fixup bzw End-result:

