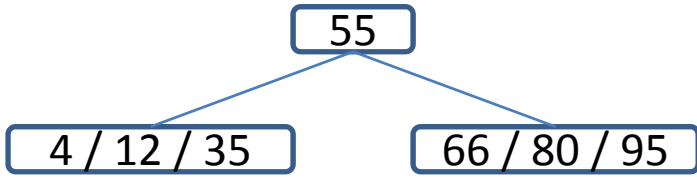


Evolution of B and B*-Tree

$$m = 3$$

B-Tree

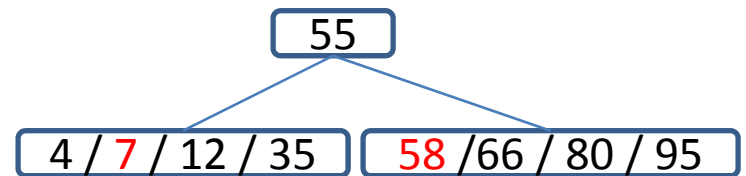
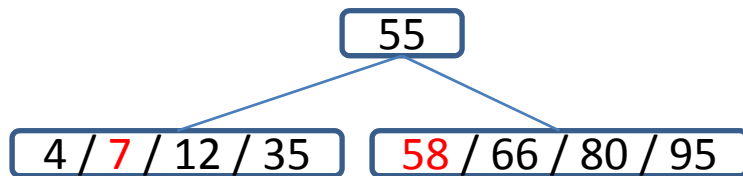
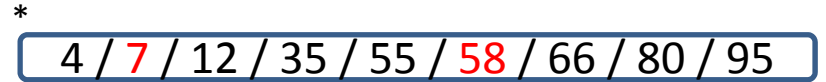
(+) 4, 12, 35, 55, 66, 80, 95



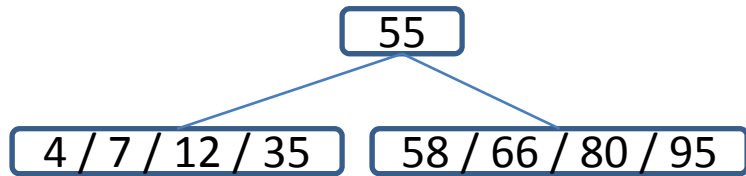
B*-Tree



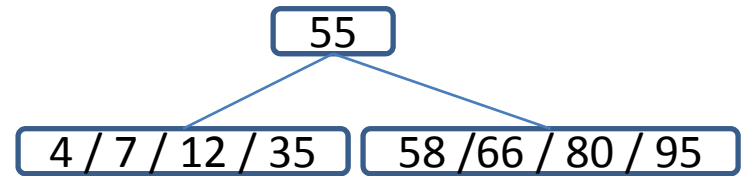
(+) 7, 58



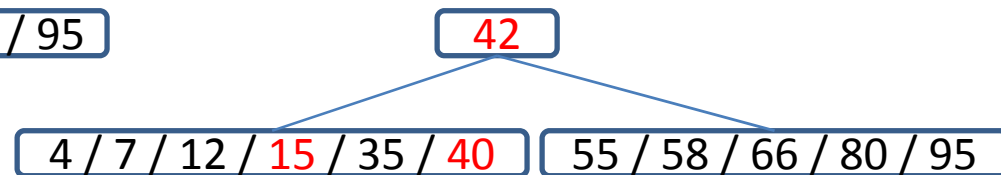
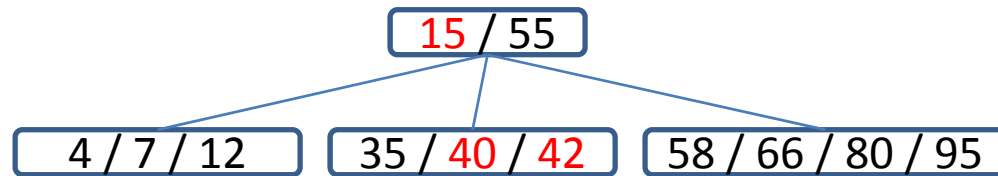
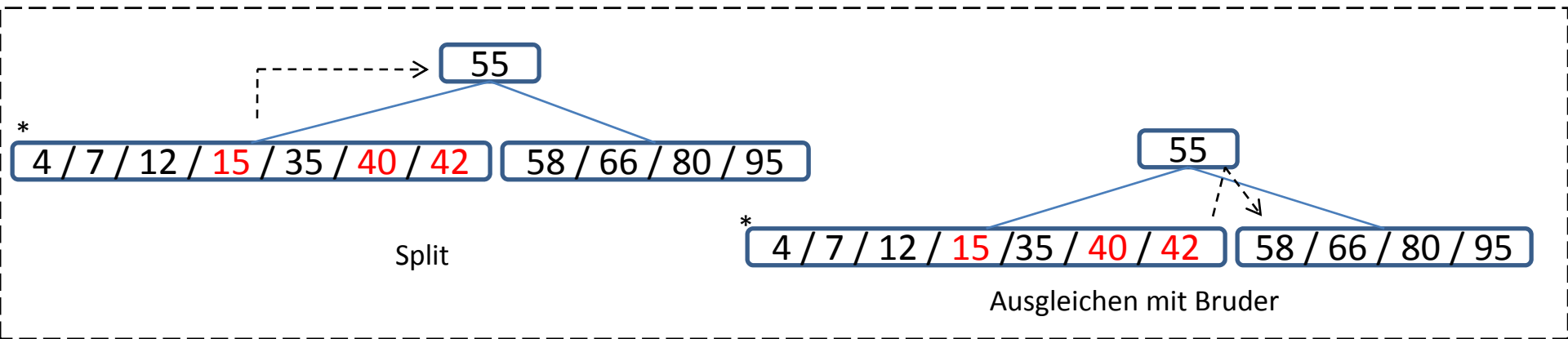
B-Tree



B*-Tree

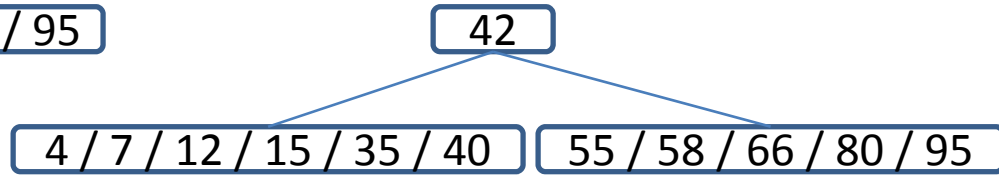
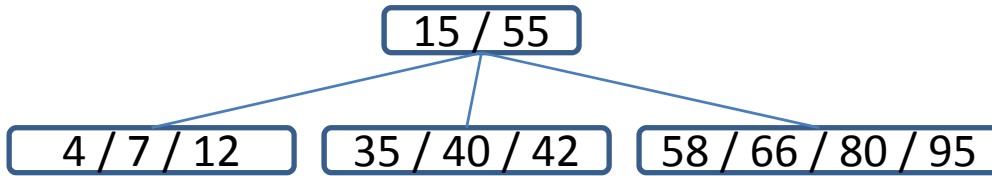


(+) 40, 15, 42

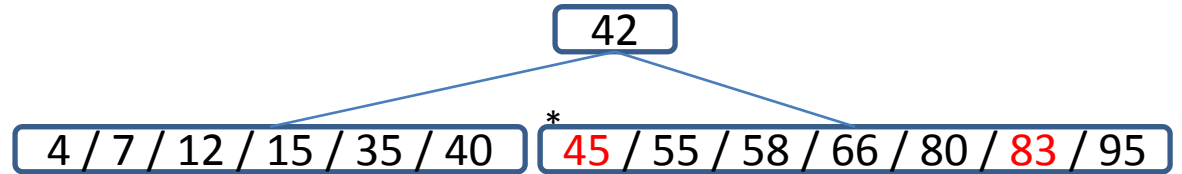


B-Tree

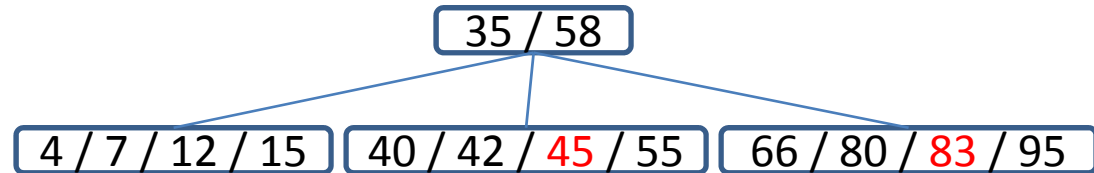
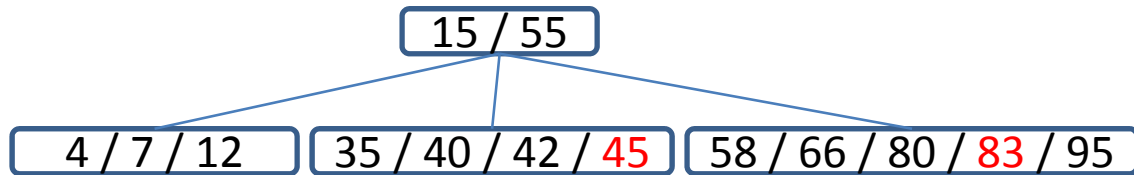
B*-Tree



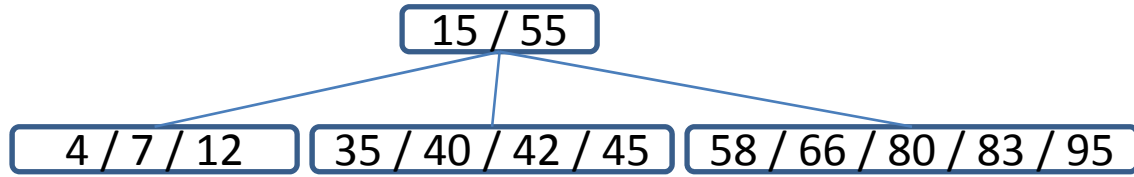
(+) 45, 83



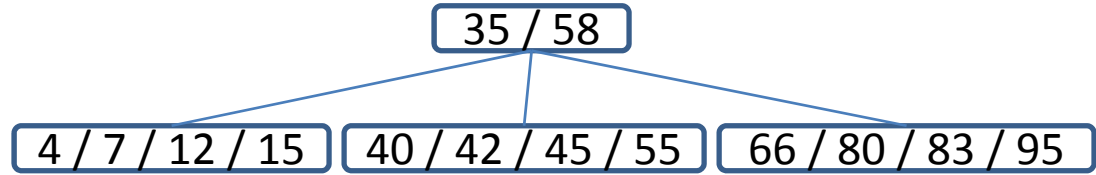
Split mit neuer Wurzel 35/58



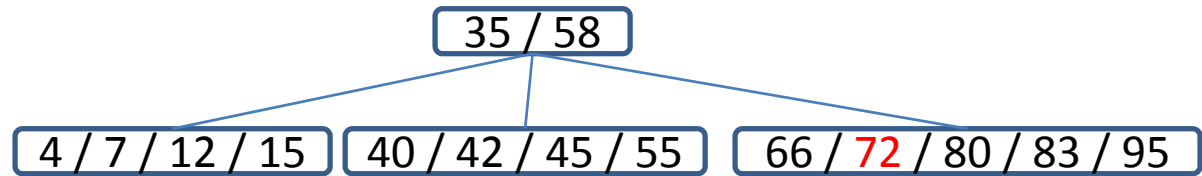
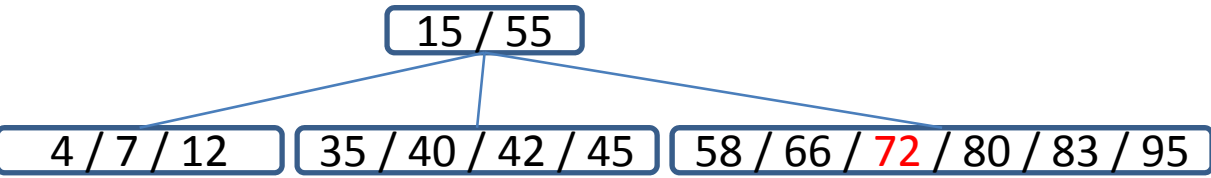
B-Tree



B*-Tree

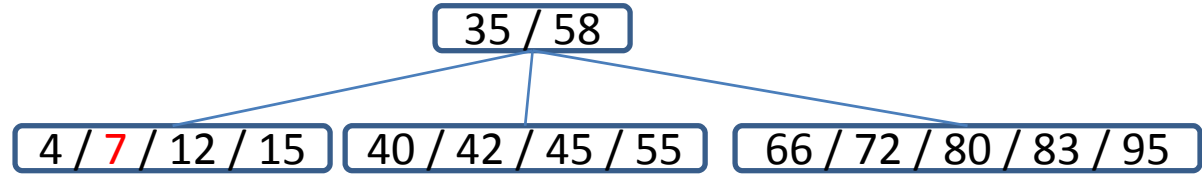
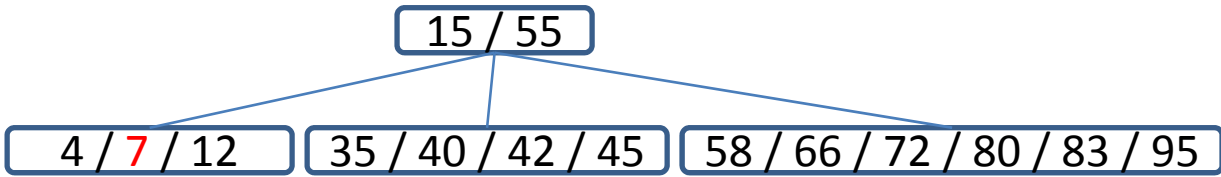


(+) 72

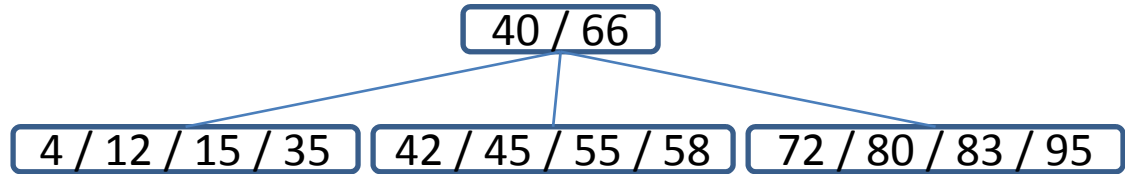
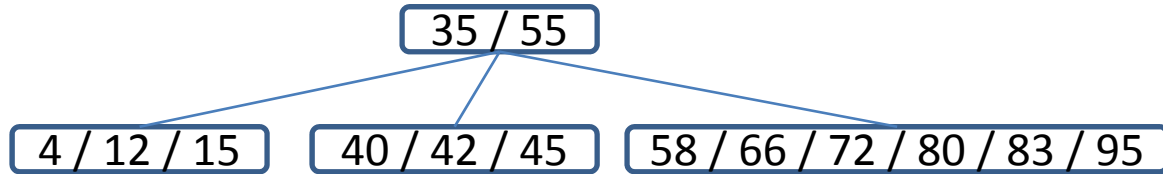
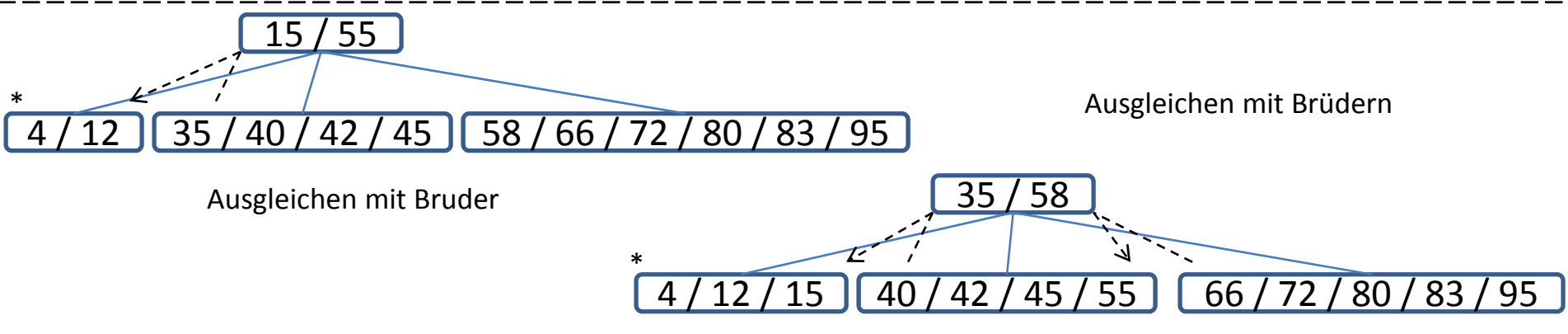


B-Tree

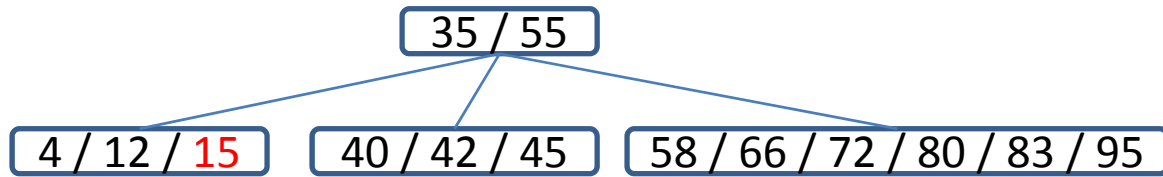
B*-Tree



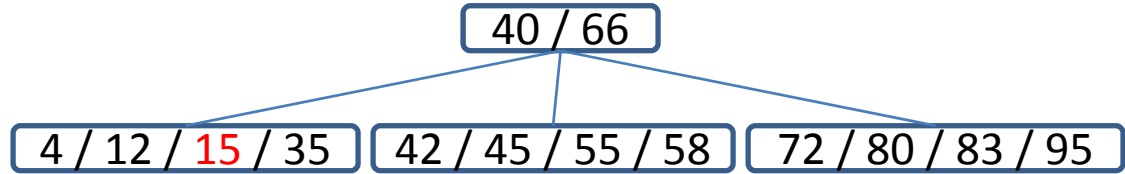
(-)7



B-Tree

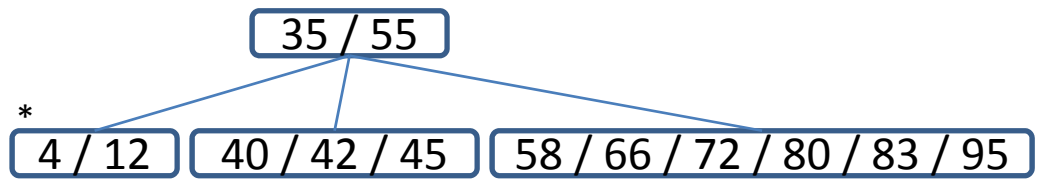


B*-Tree



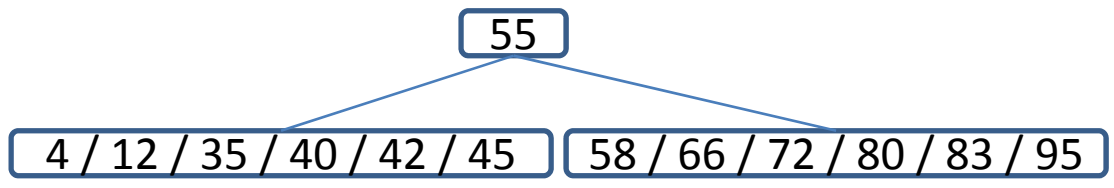
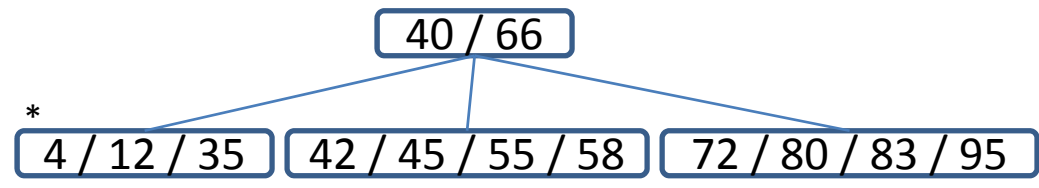
(-) 15

Anm: Entfernen v. 72 => linke Brüder betrachten



Verschmelzen mit Bruder

Verschmelzen mit Brüdern



Anmerkungen

- Vergleichen immer mit dem rechten Bruder, wenn nicht vorhanden, dann linker Bruder (B*-Baum können auch zwei linke Brüder betrachtet werden)
- Entfernen aus einem inneren Knoten.
Rückführung durch Ersetzen durch einen Schlüssel aus einem Blatt.