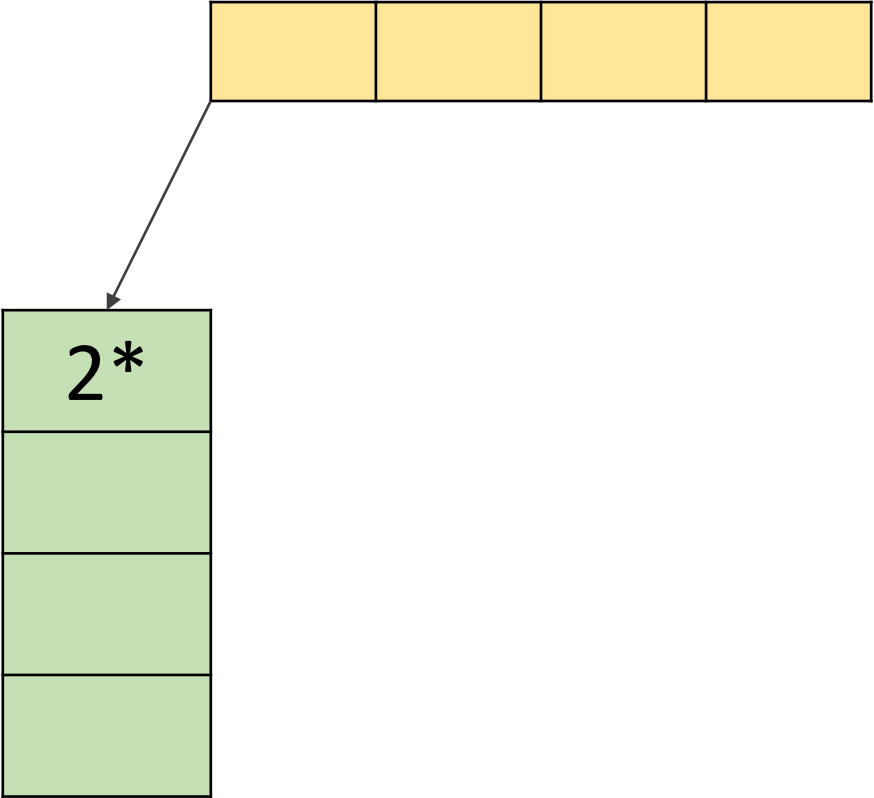


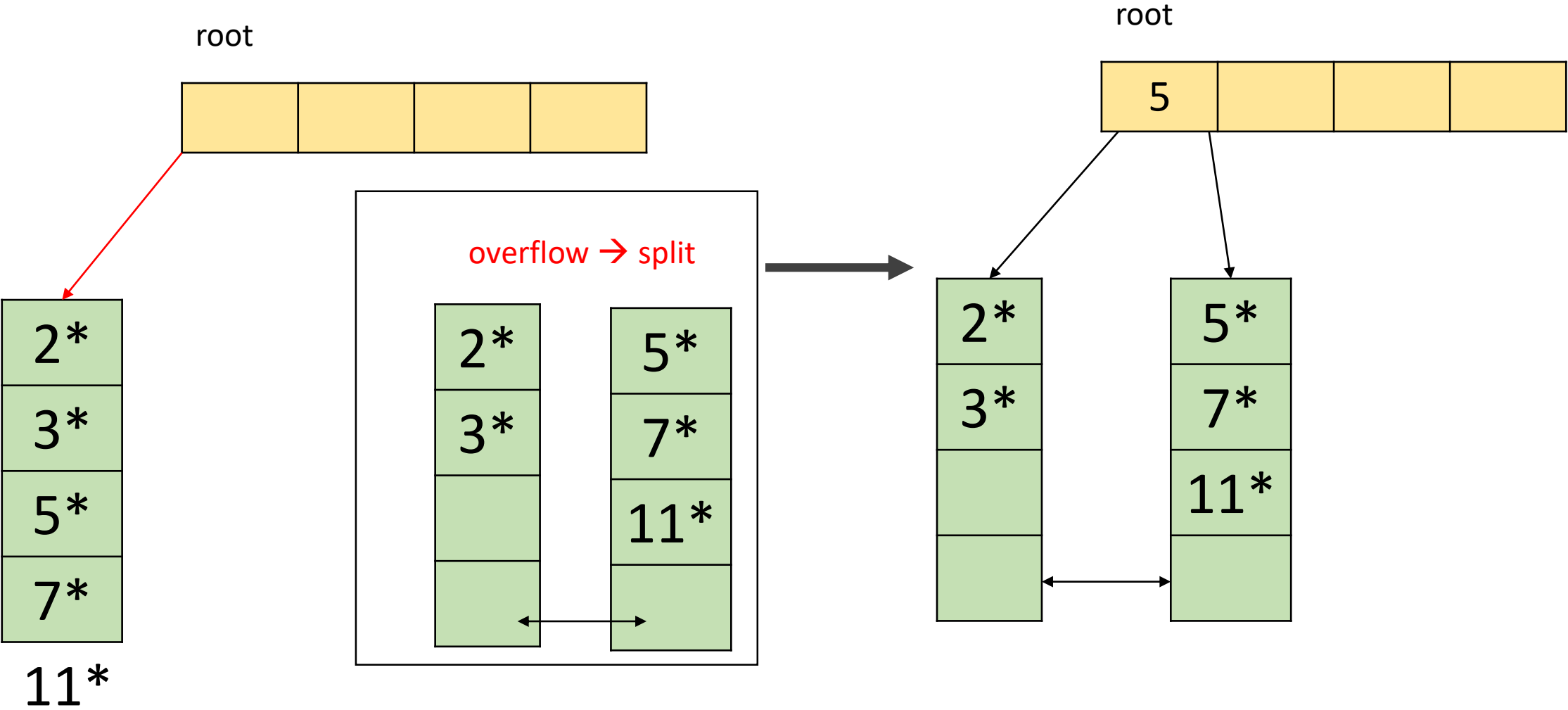
D1

insert2

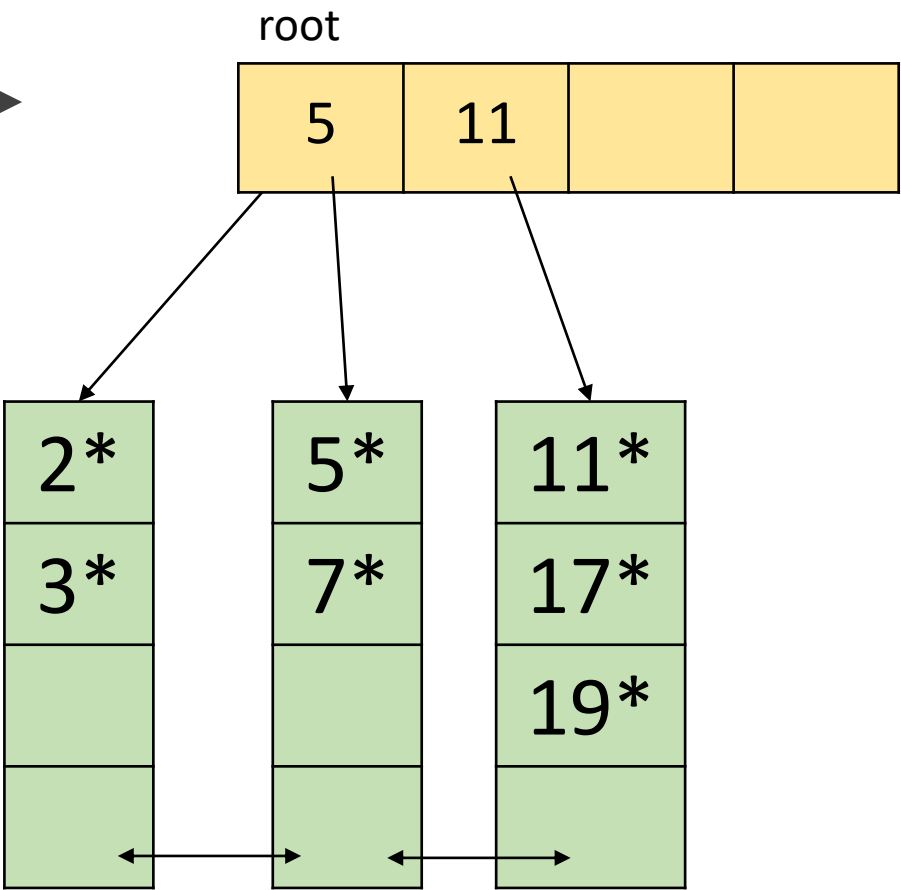
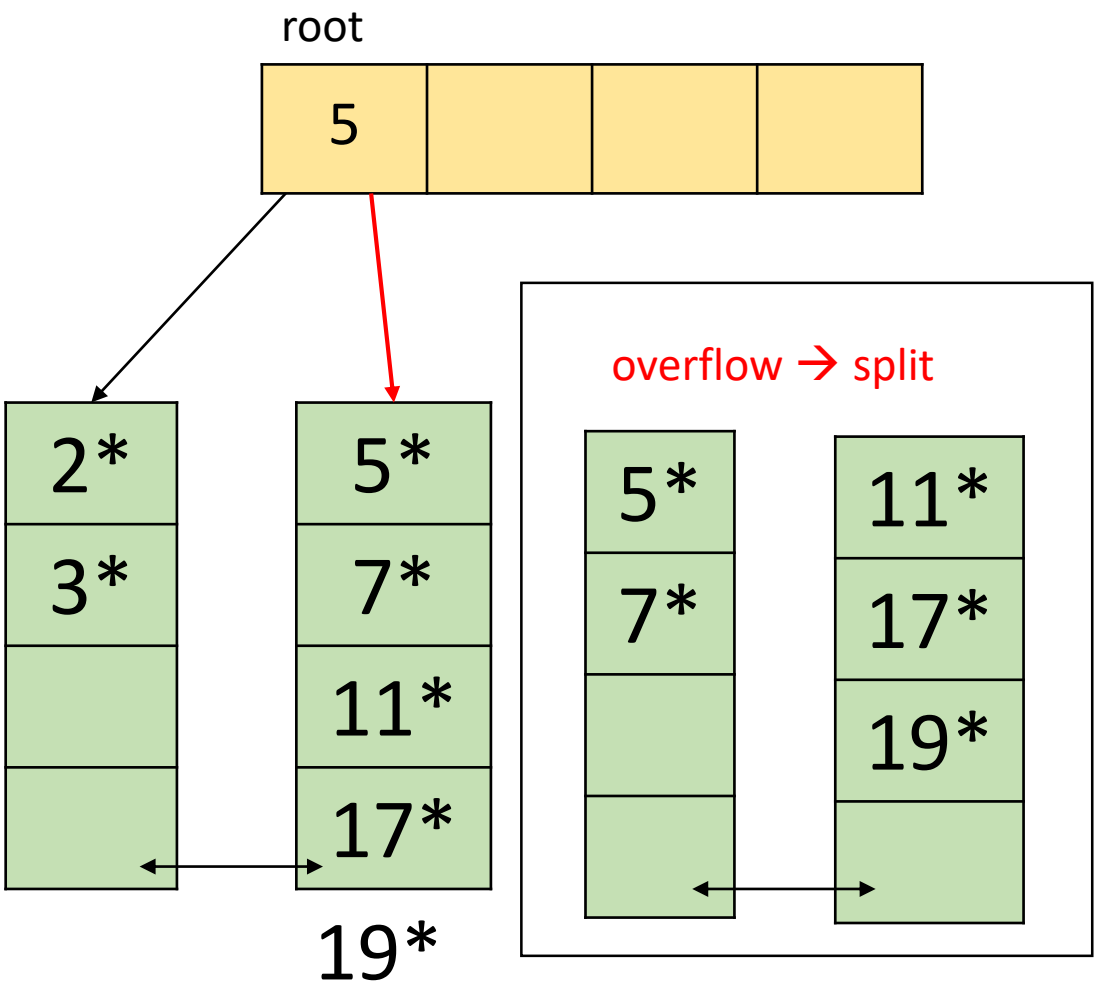
root



Insert 11

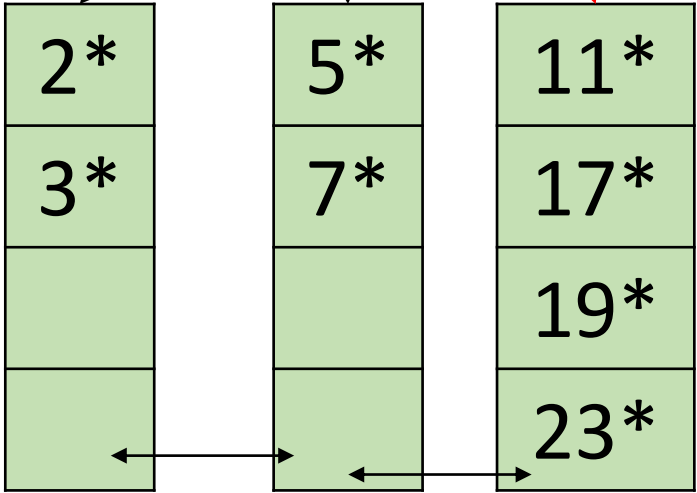
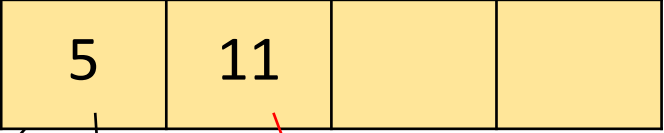


Insert 19



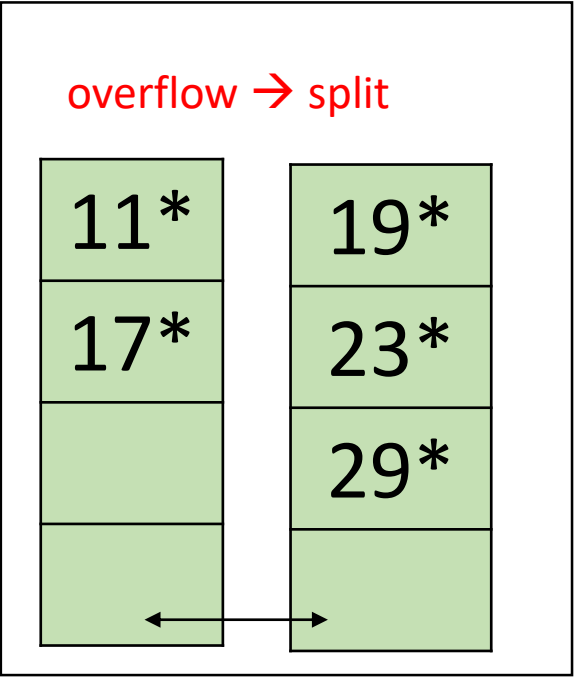
Insert 29

root

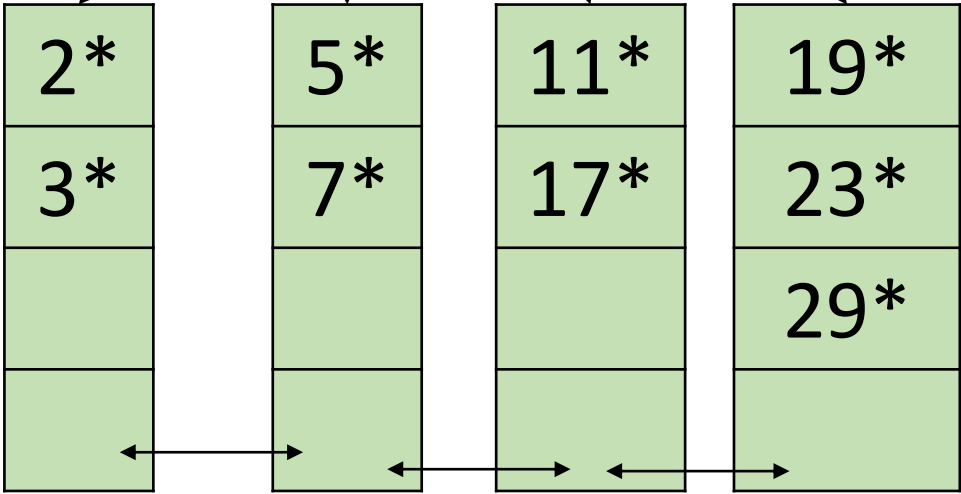
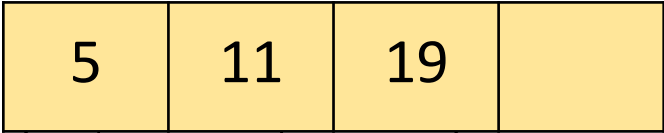


29*

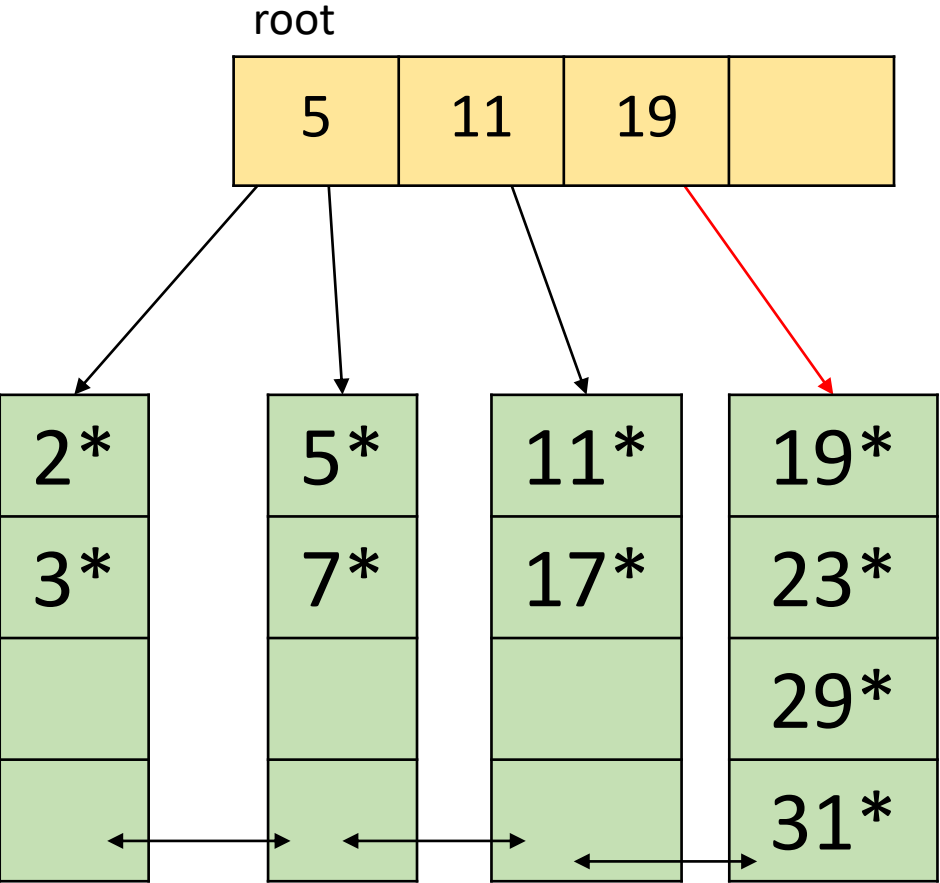
overflow → split



root



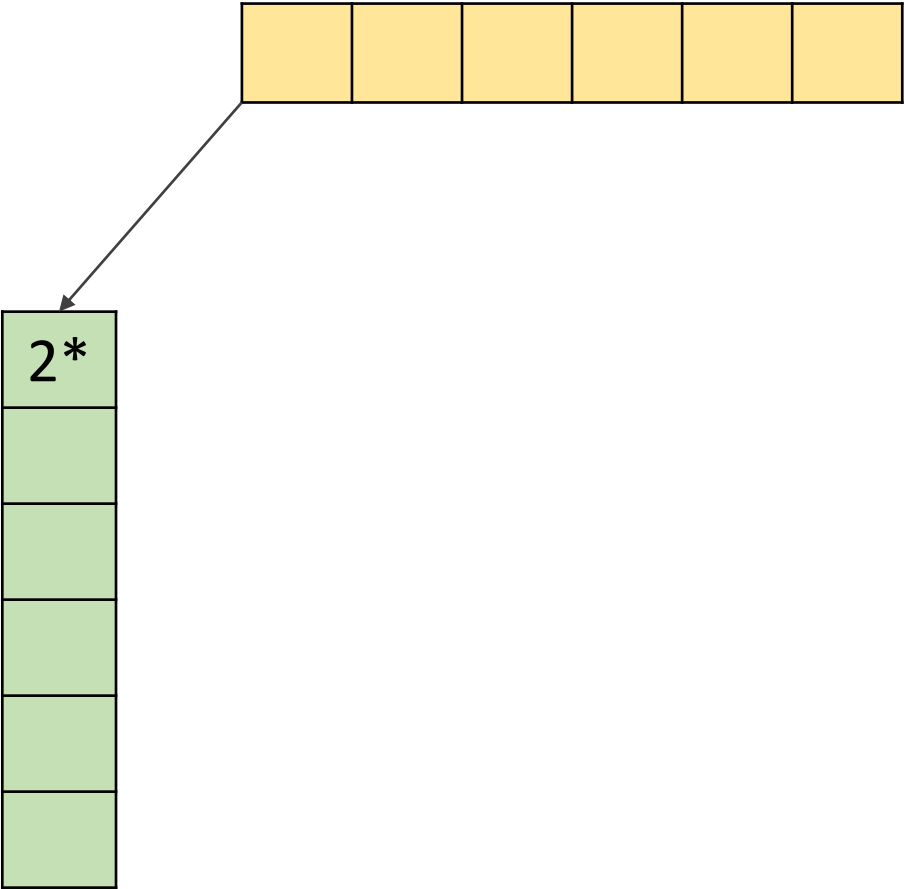
Insert 31



D2

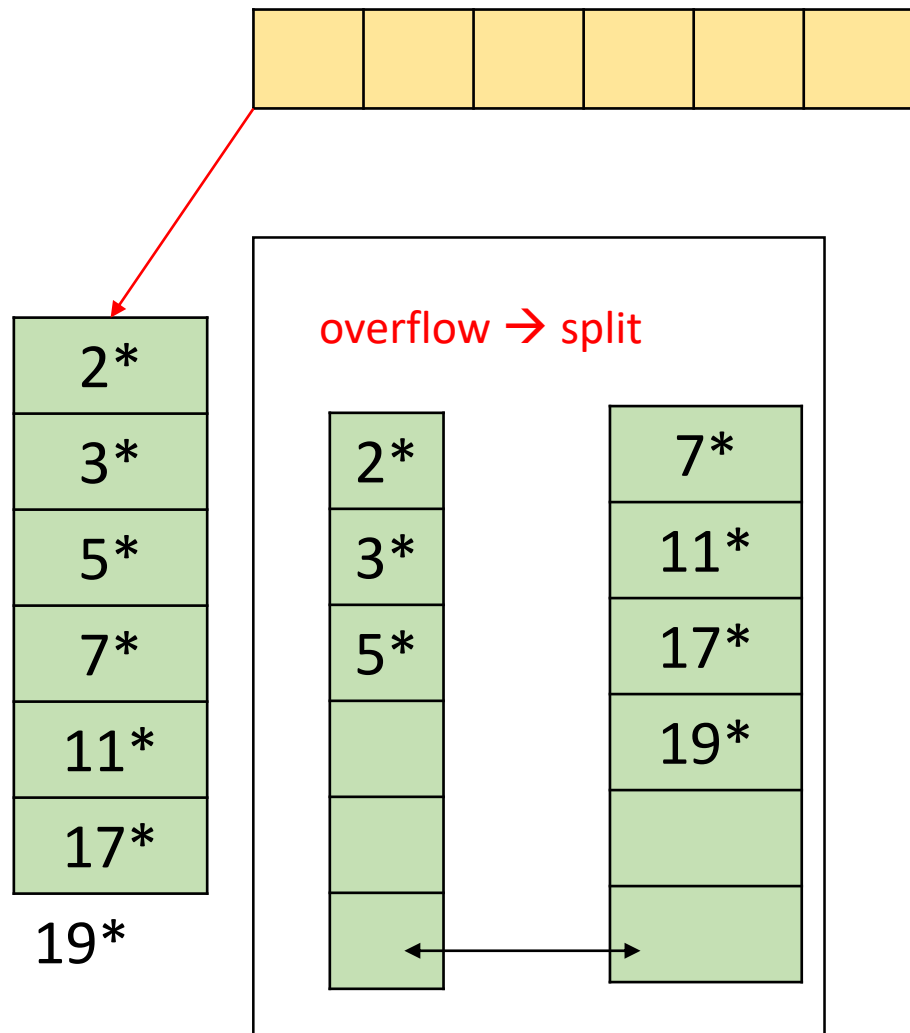
insert2

root

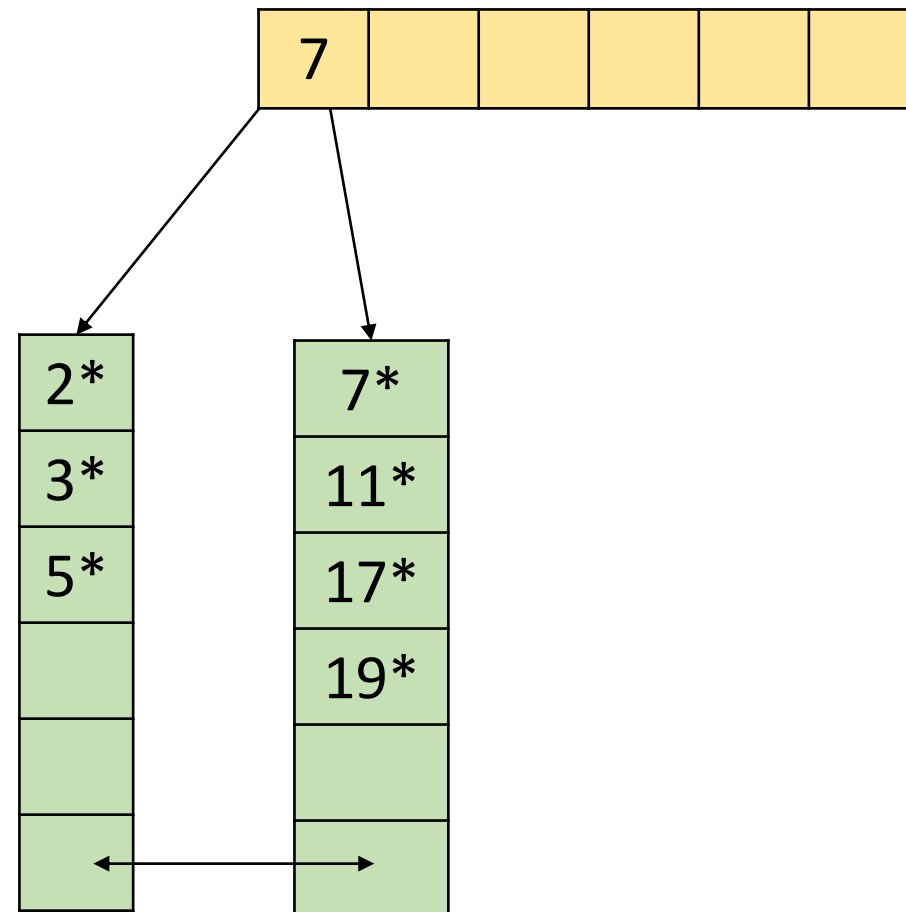


insert19

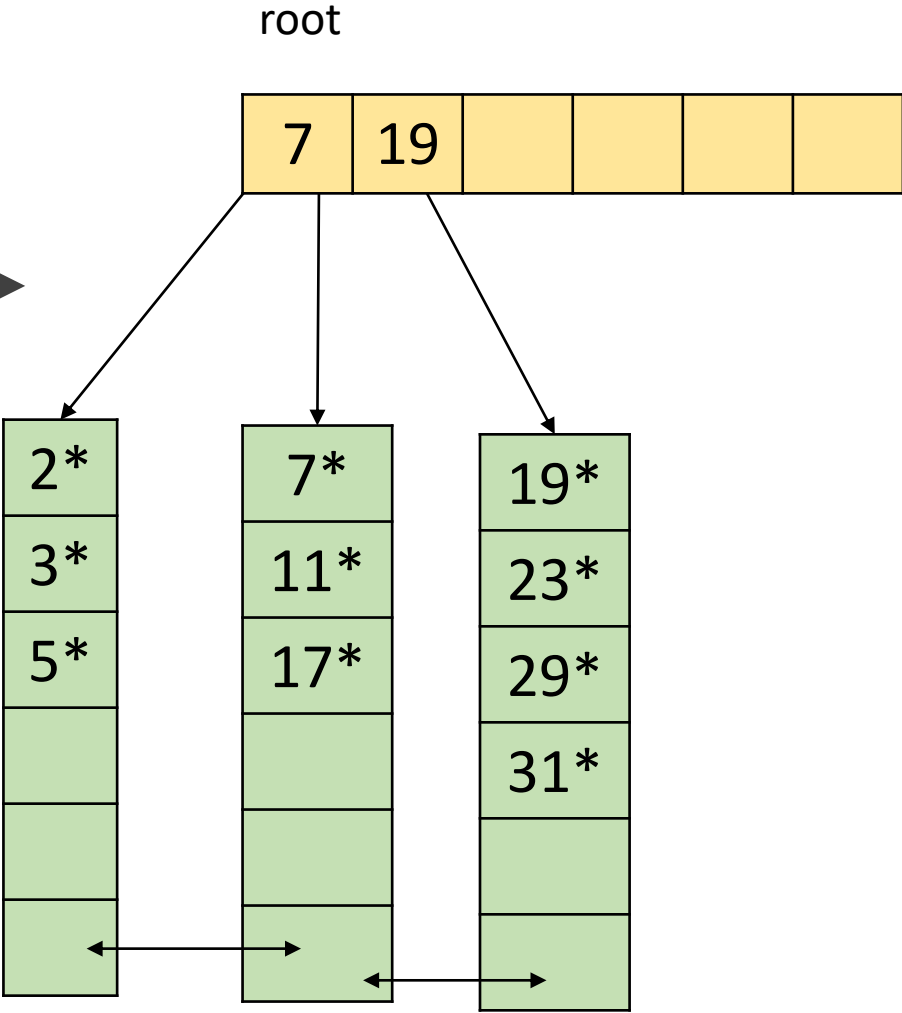
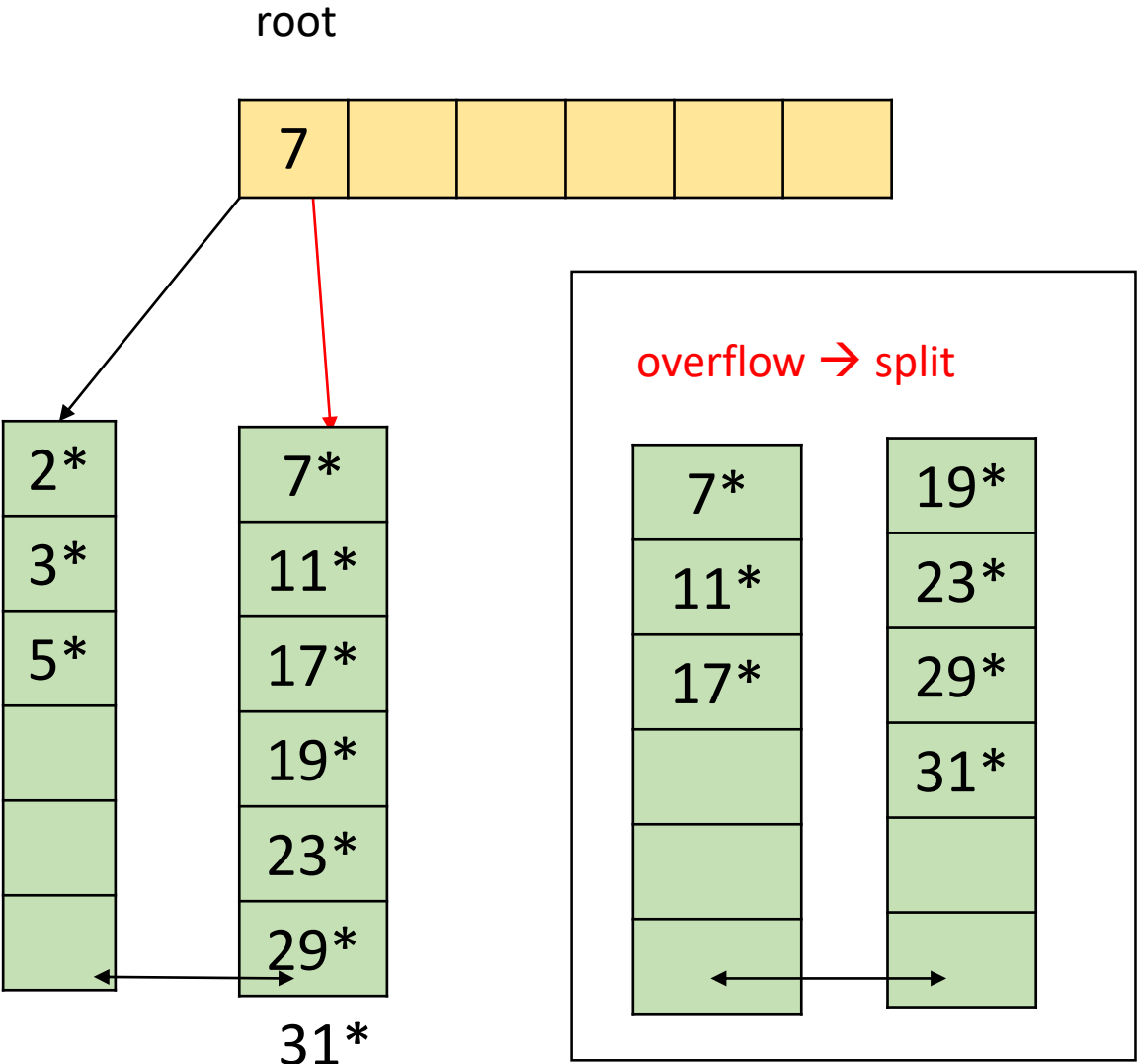
root



root



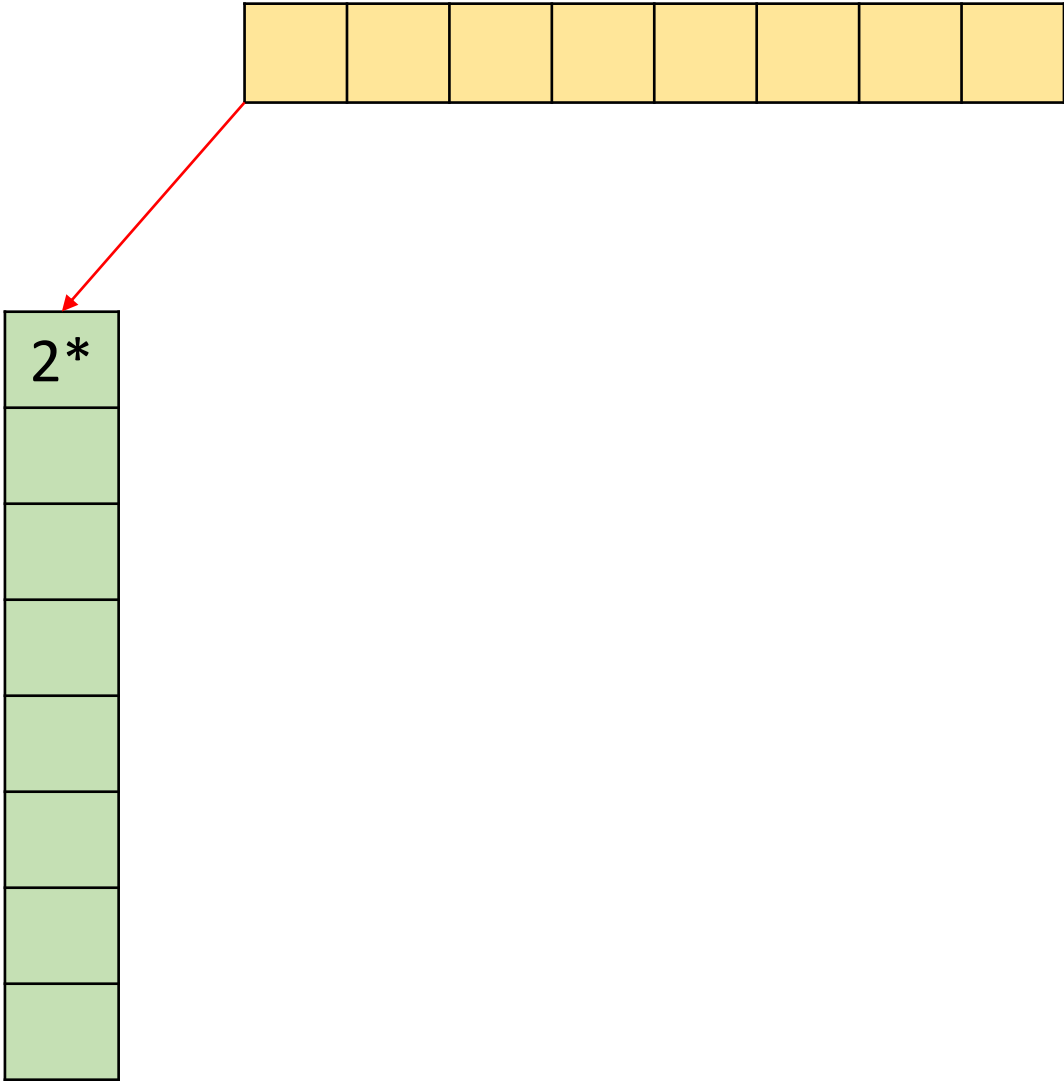
insert31



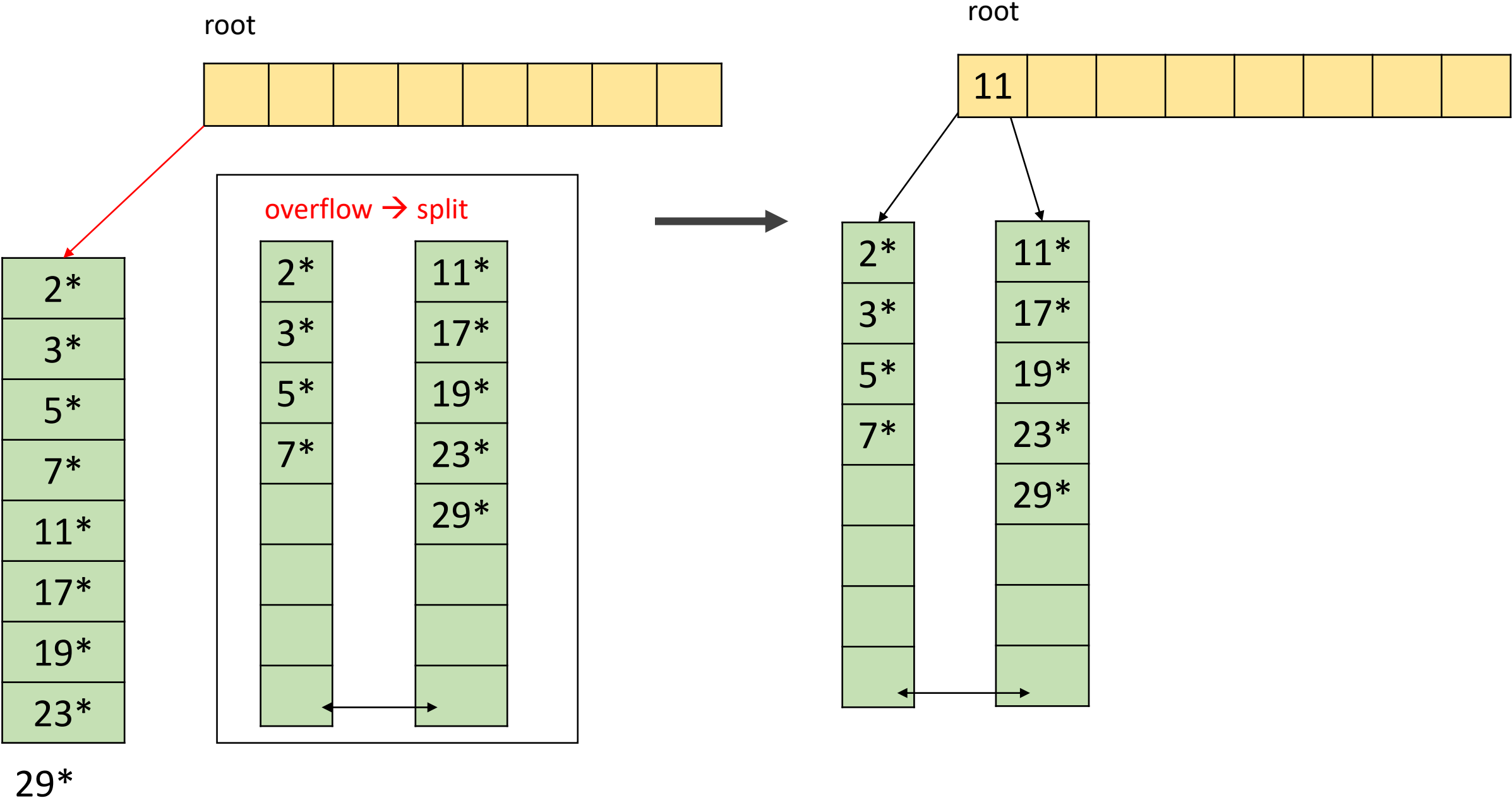
D3

insert2

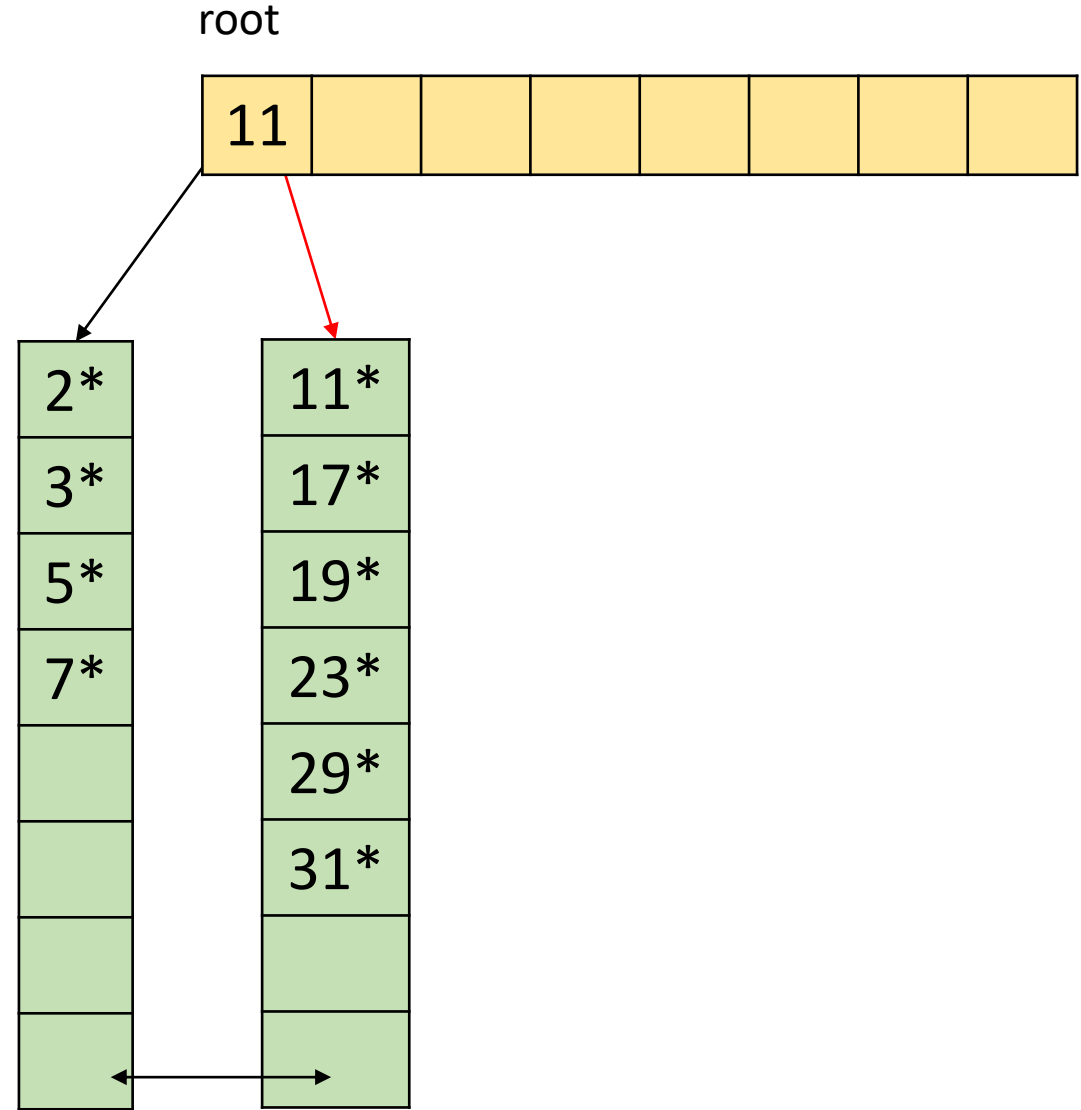
root



insert29

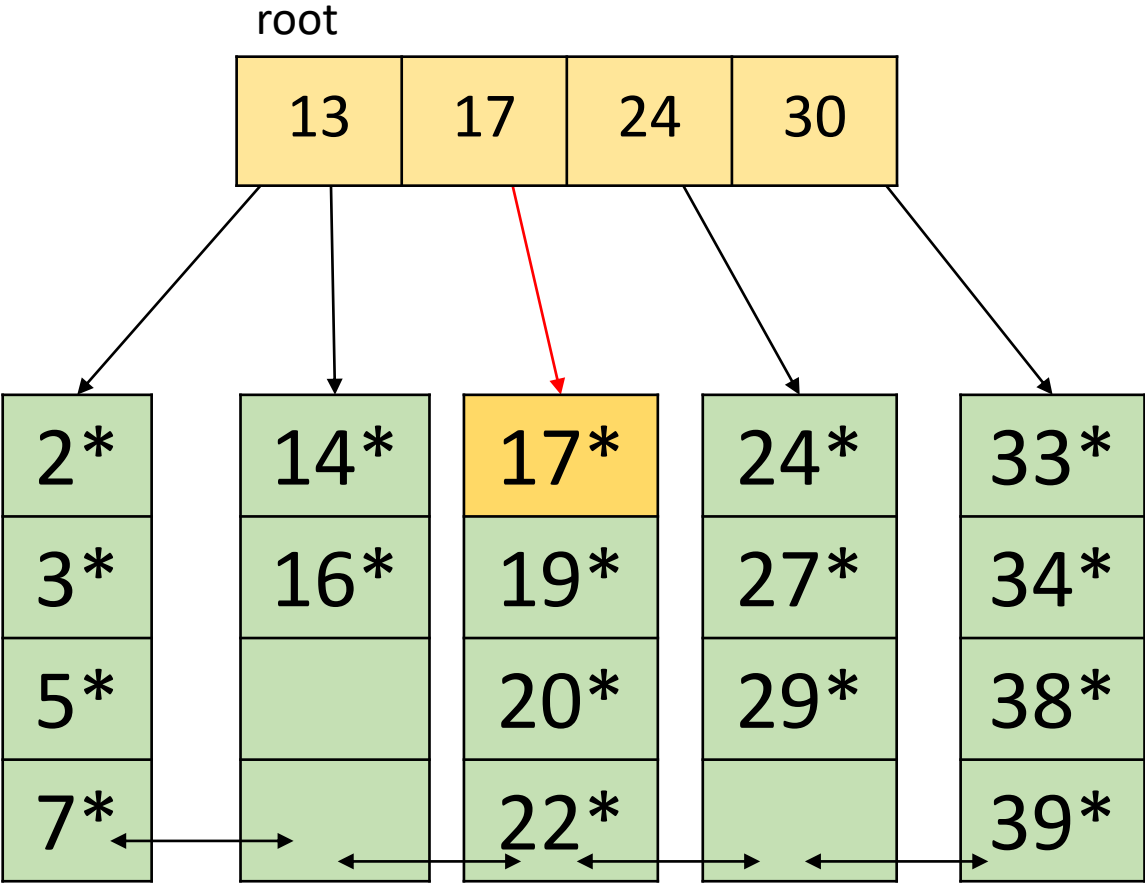


insert31



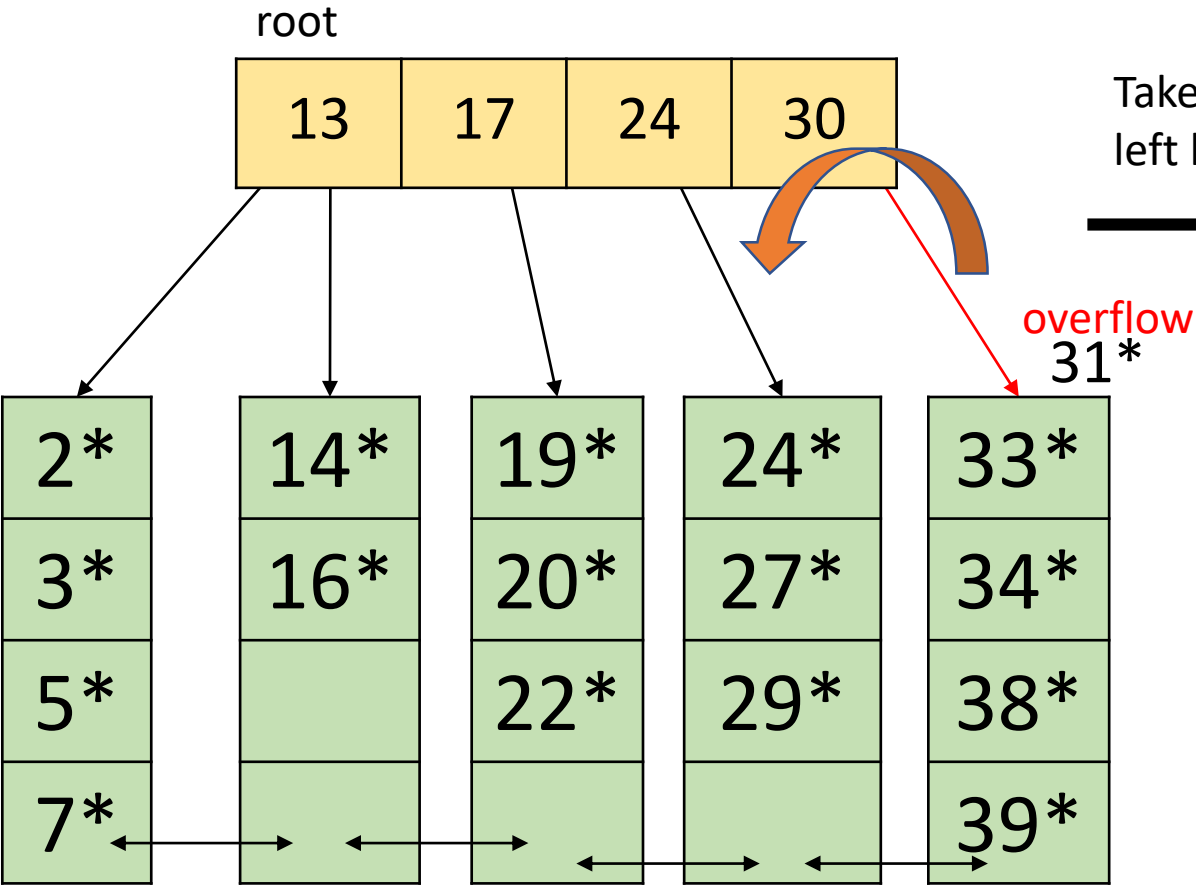
E1

Insert 17*

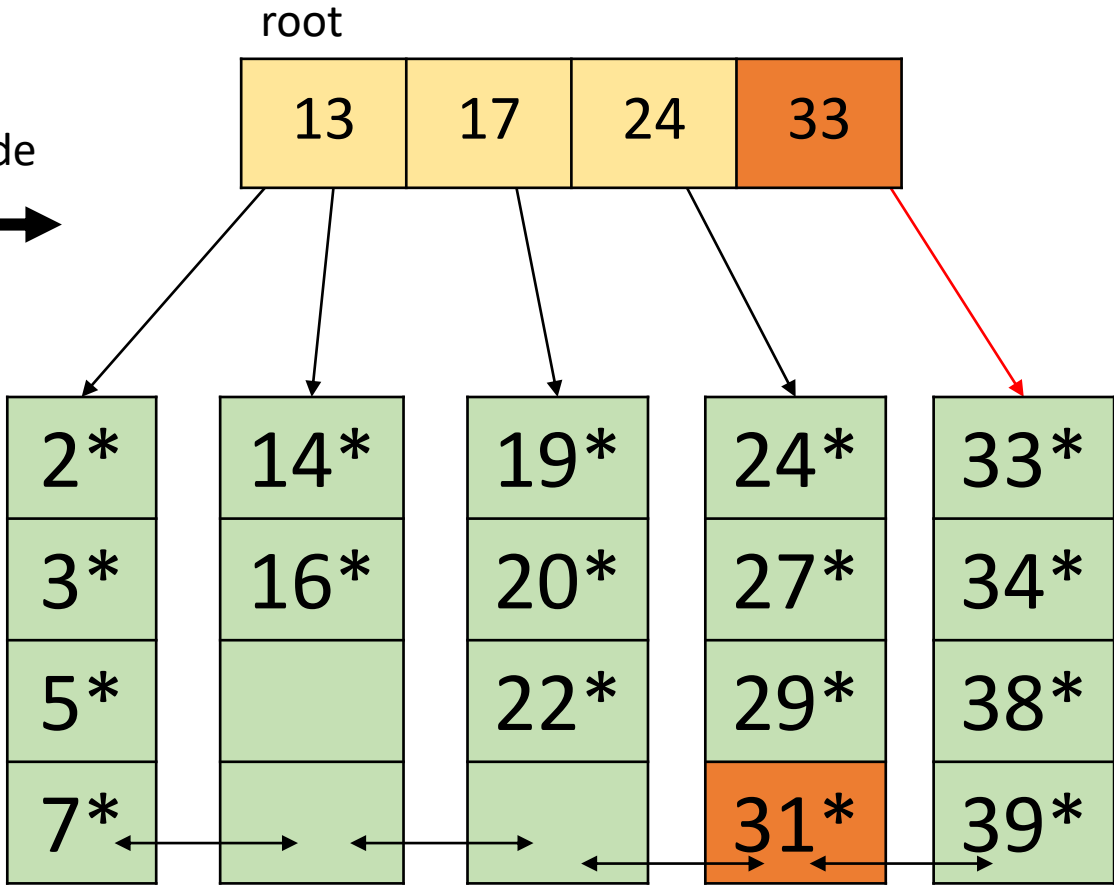


E2

Insert 31*

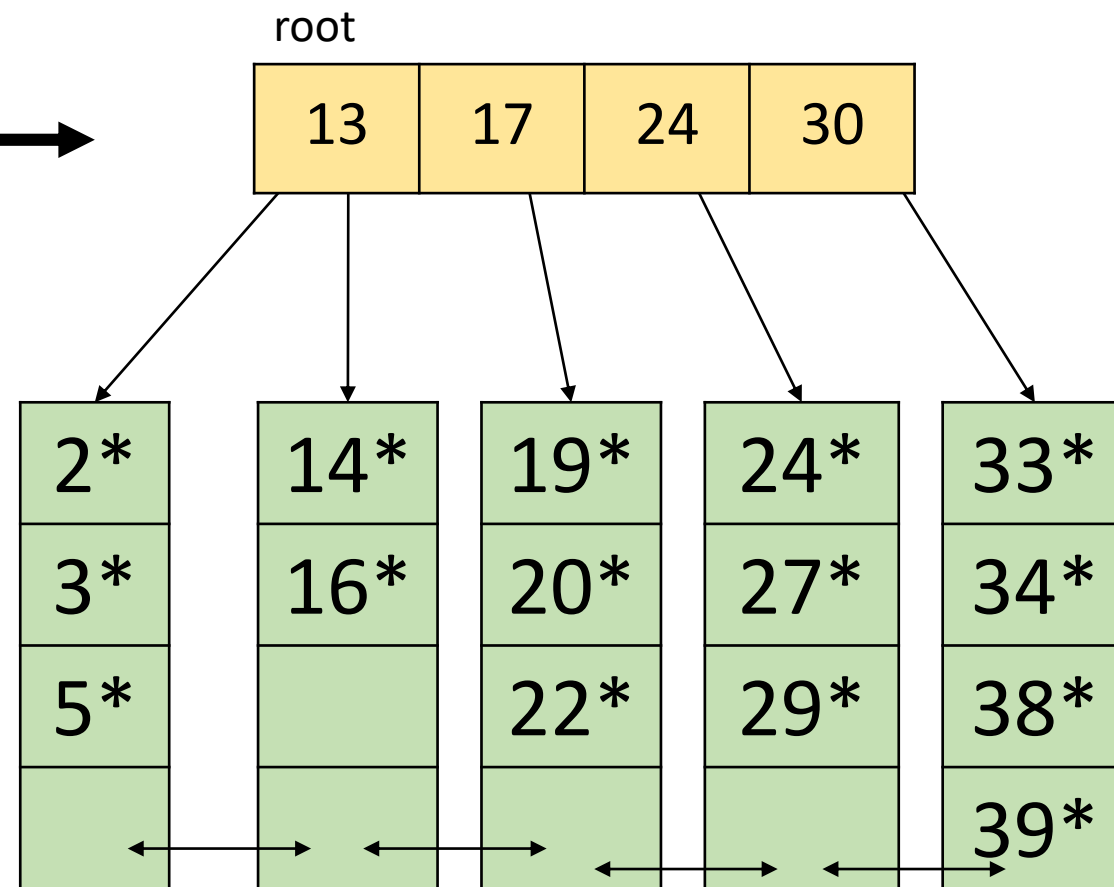
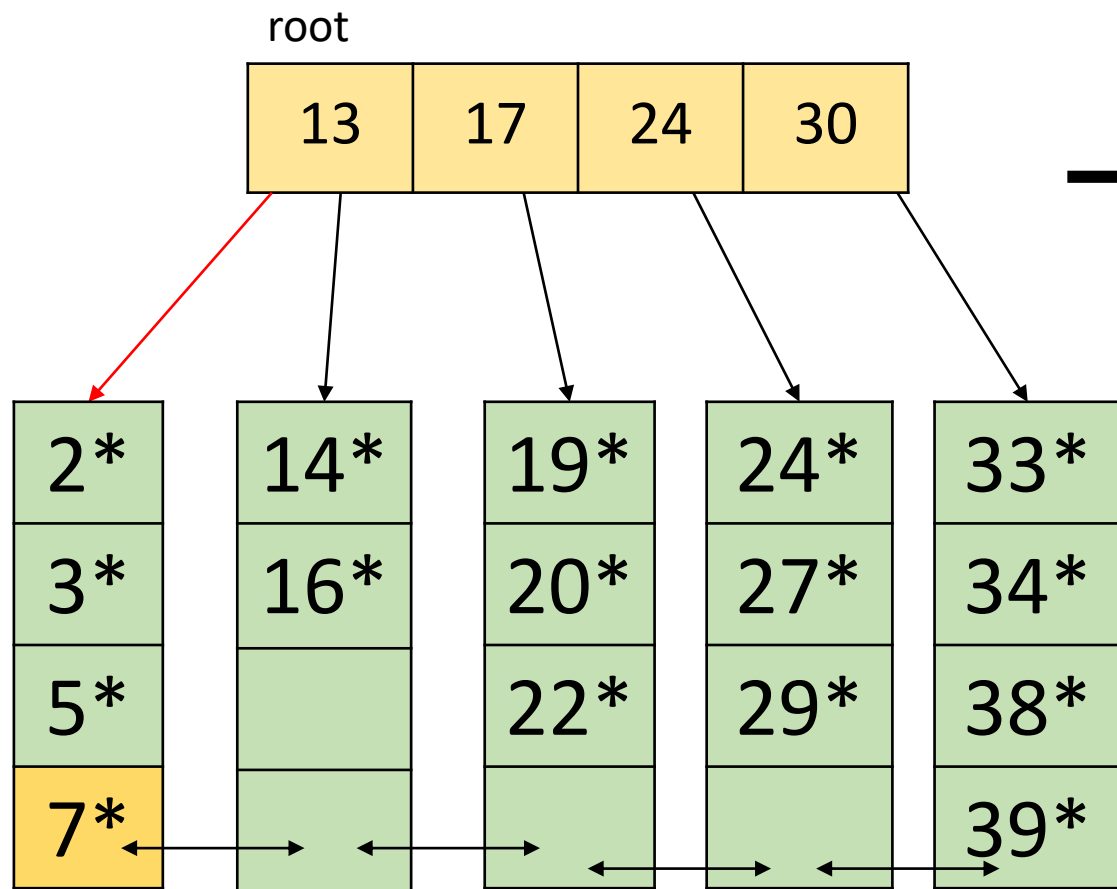


Take 31 to
left leaf node



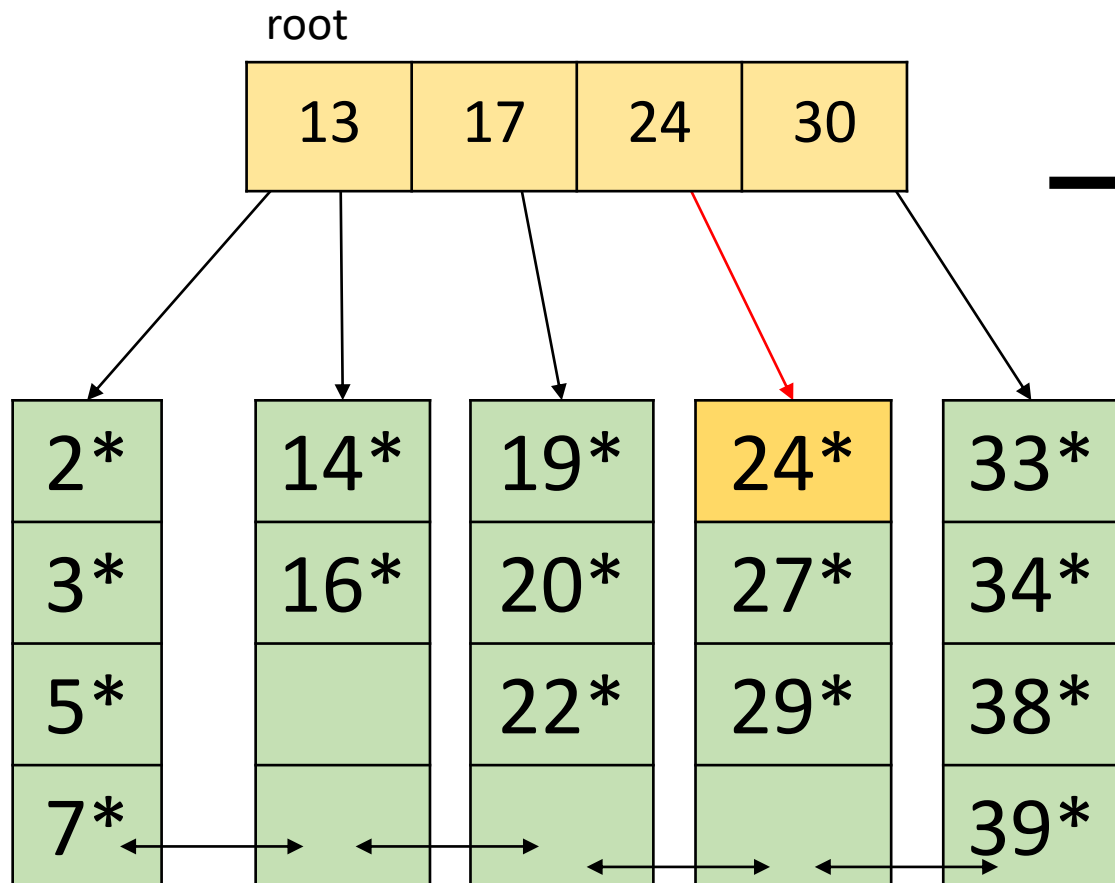
E3

Delete 7*

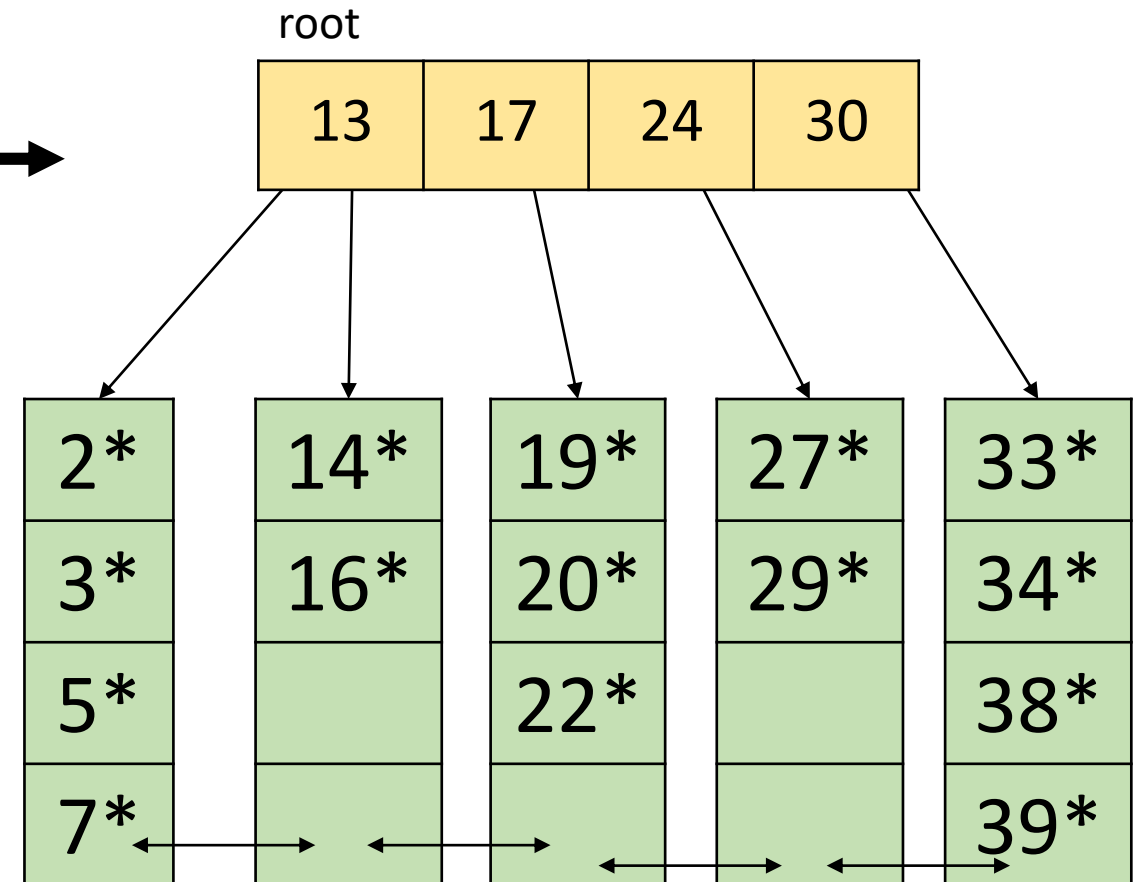


E4

delete 24*

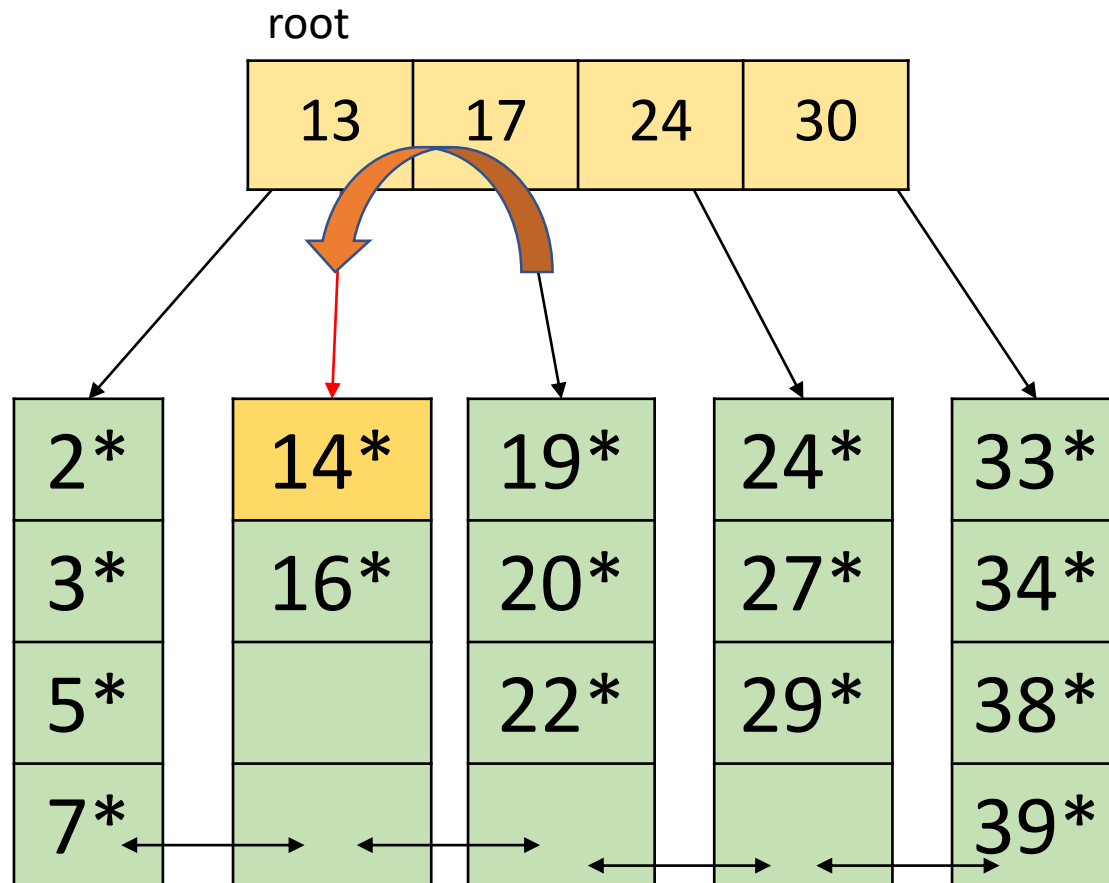


delete 24*



E5

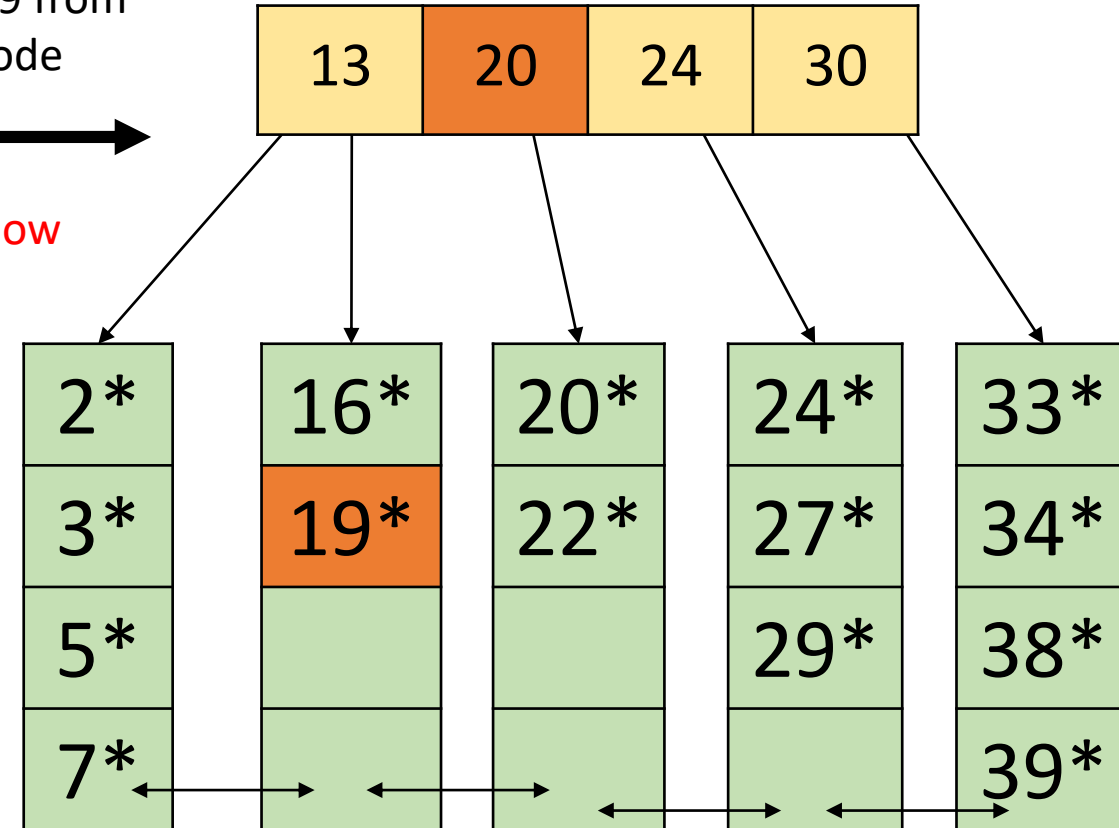
delete14*



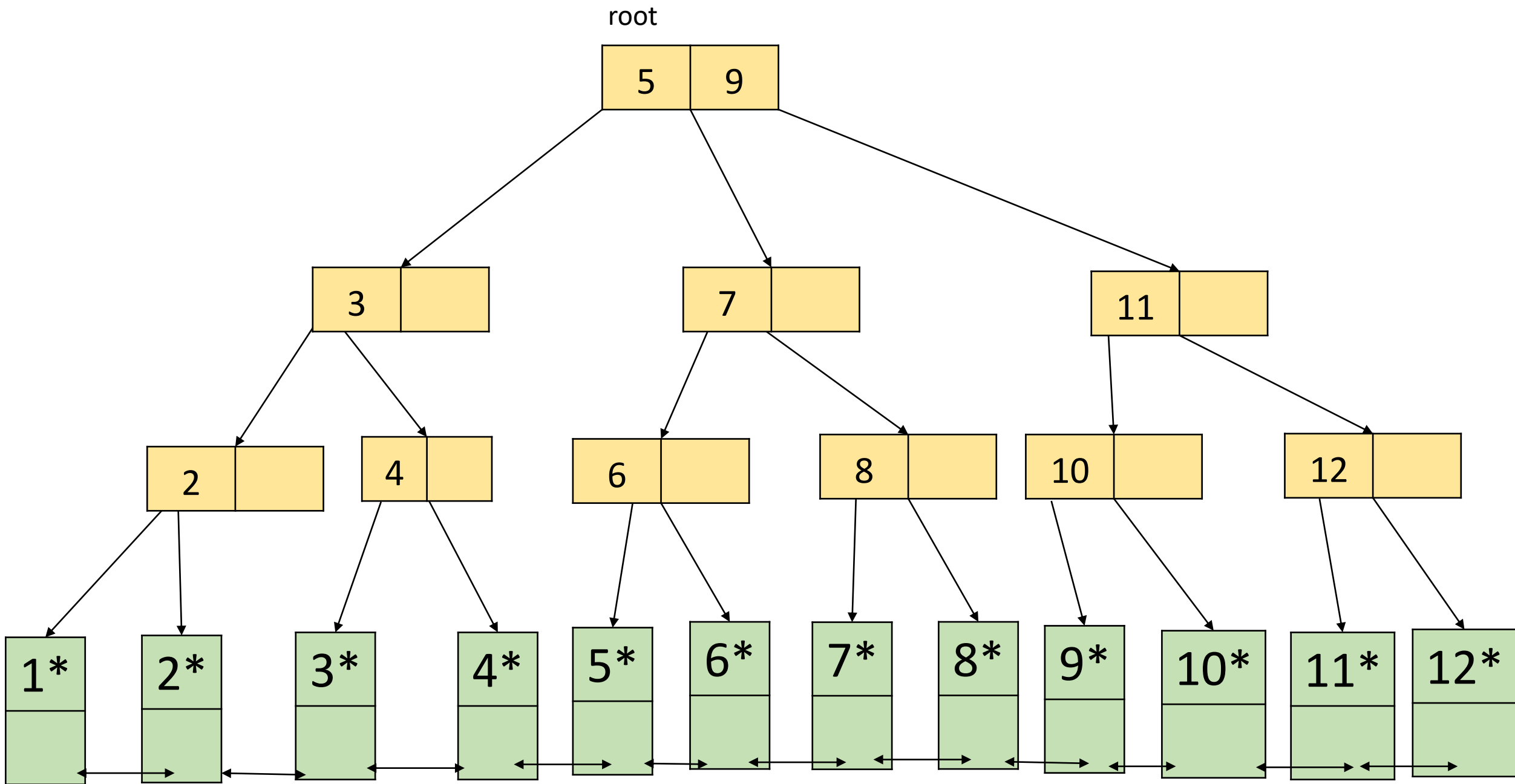
brow 19 from
right node

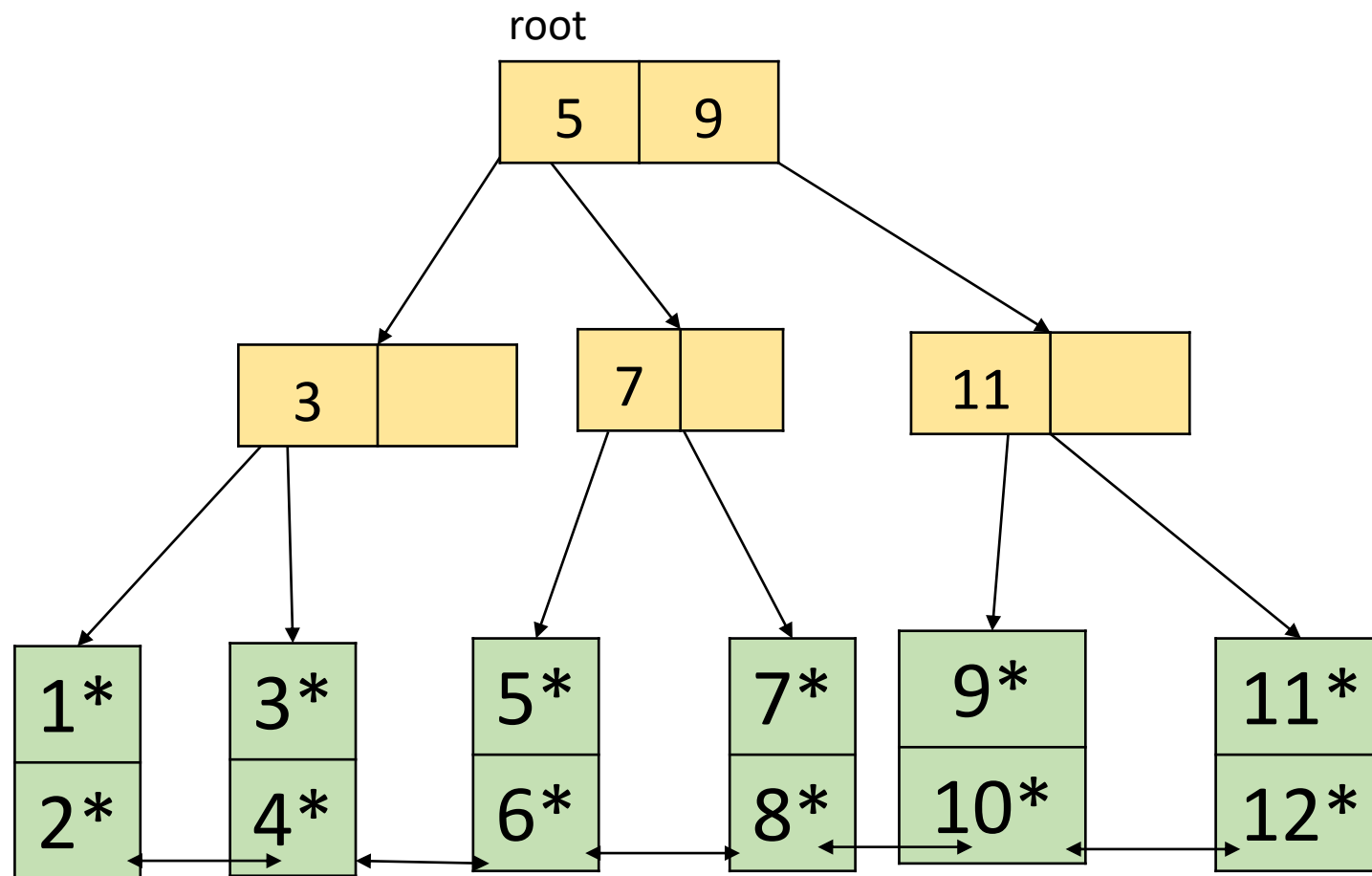


underflow

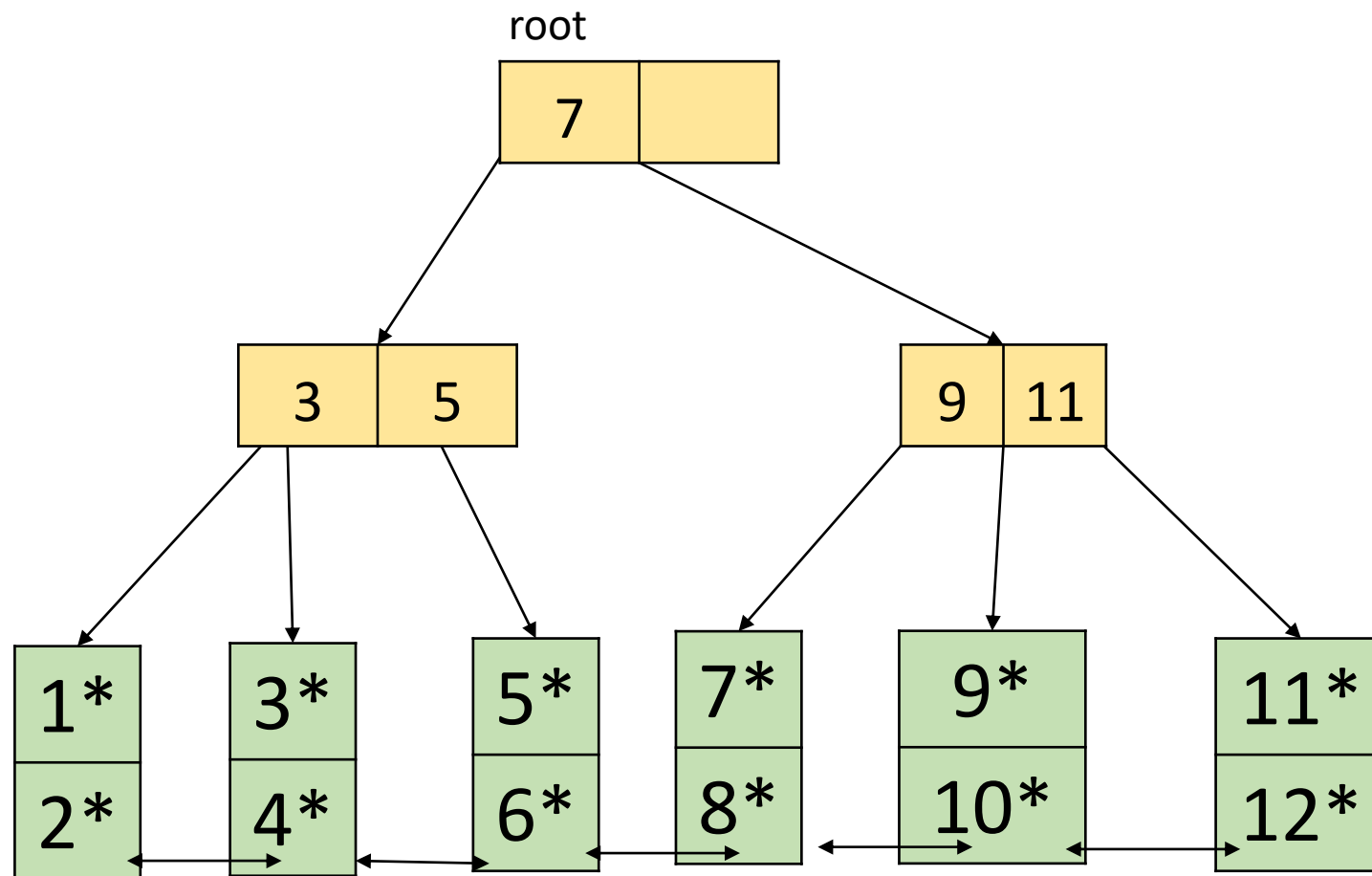


F3

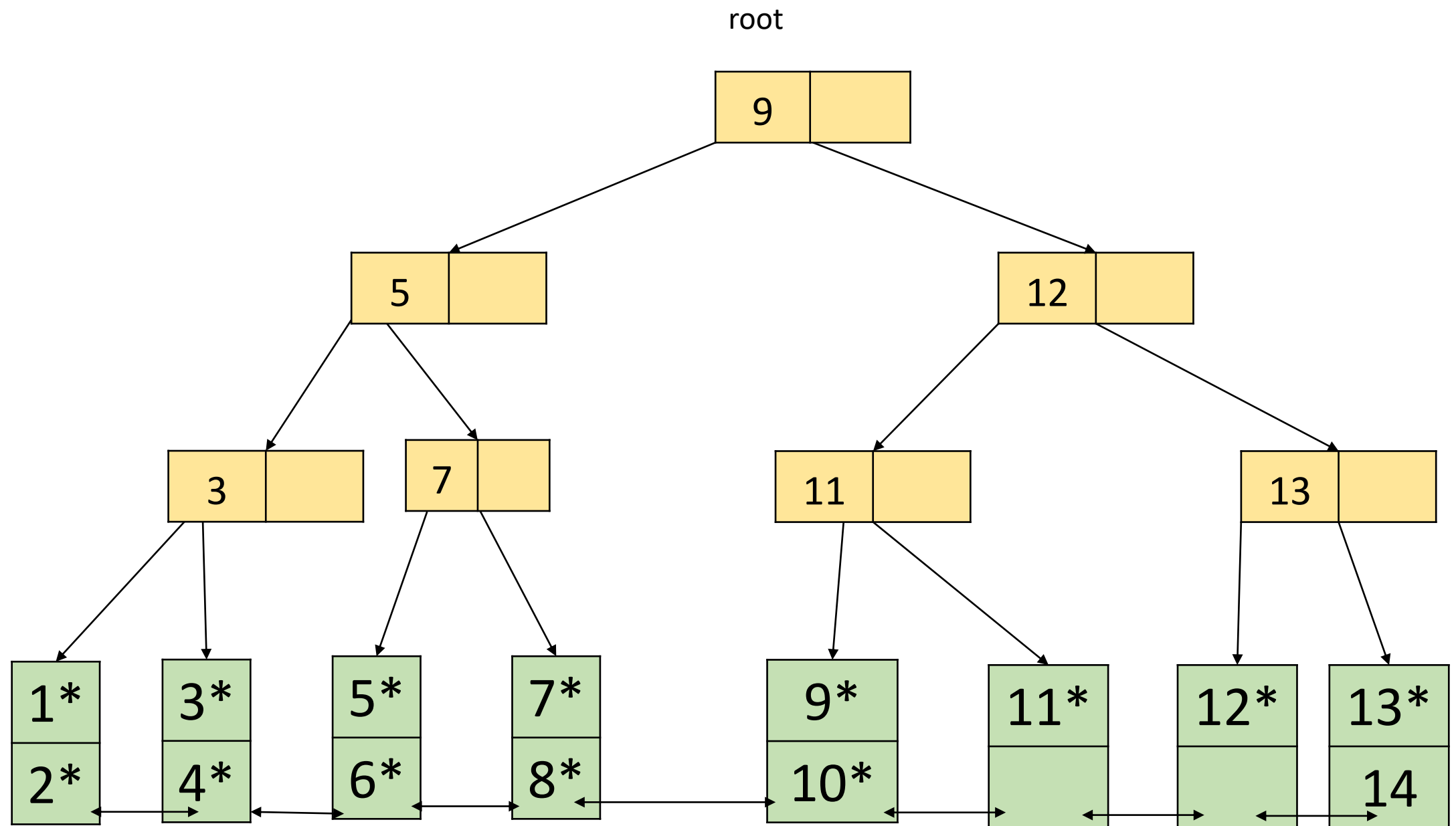




F4



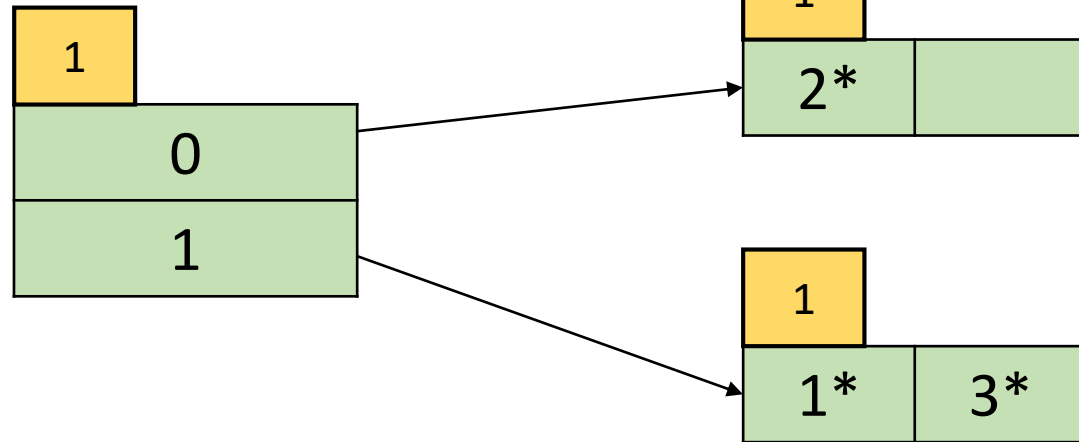
F5



G1

Insert 1, 2, 3

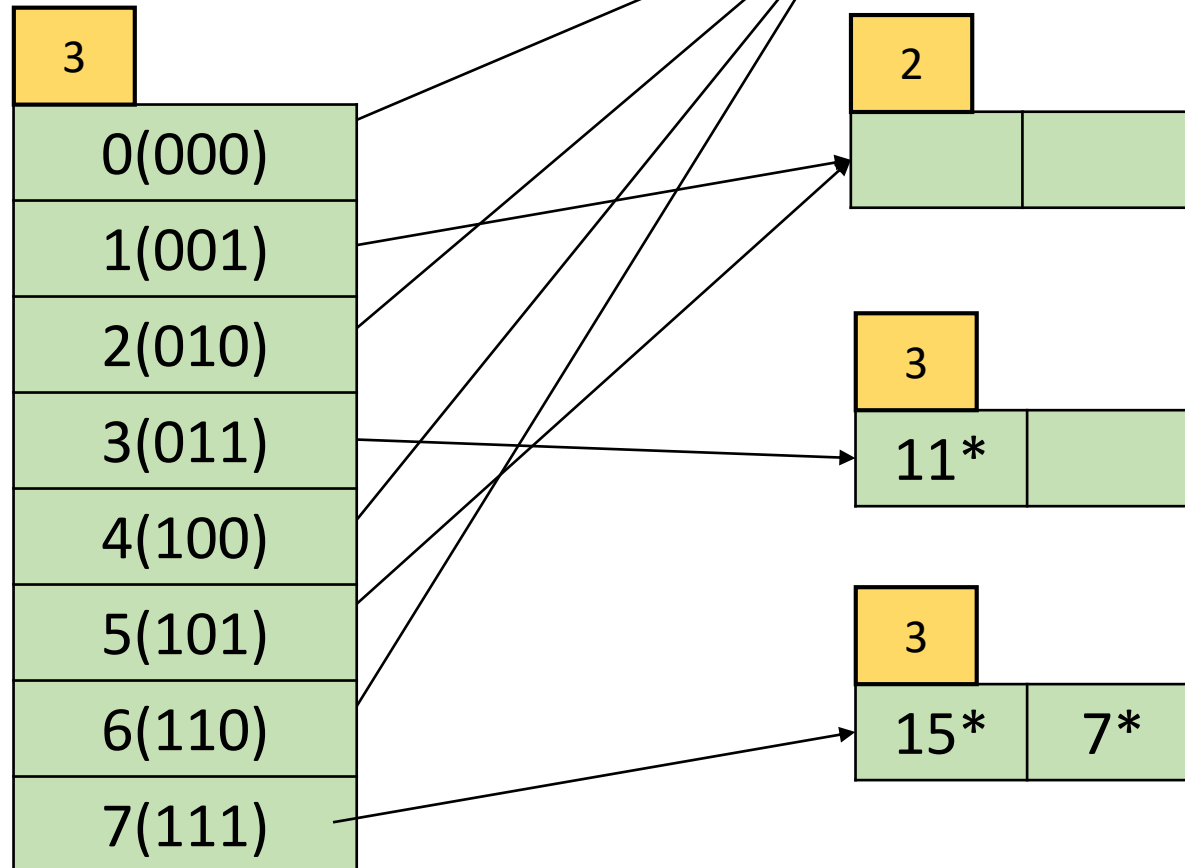
directory



G2

Insert 15, 7, 11

directory



H1/H2

Insert 7, 15, 31, 63,
127, 255

directory

