

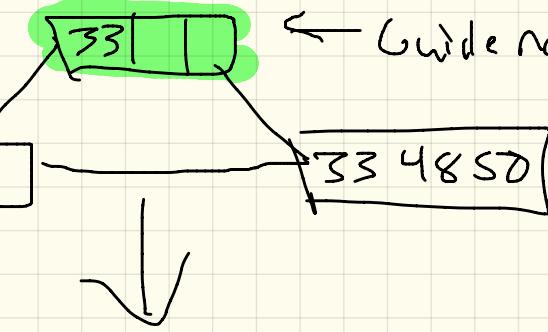
B+ Tree Insertion Notes

Using Schaffer's
Fig. 10.20
PDF pg 380
Actual pg 361

Explanation of
insertions from
 $b \rightarrow c \rightarrow d$

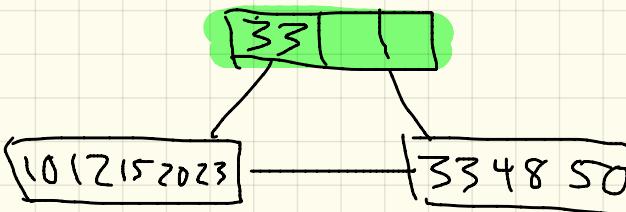
Mike Wendt
3/29/12

B+ tree order 4
Leaf order 5



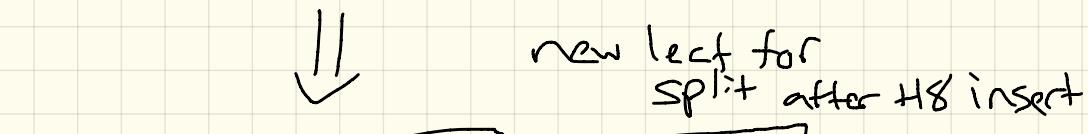
Add 15, 20

Operation ↗



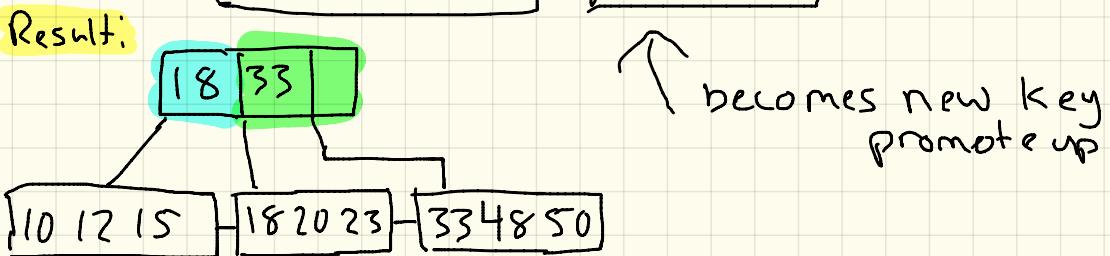
Add 18

Overflow
↓
split

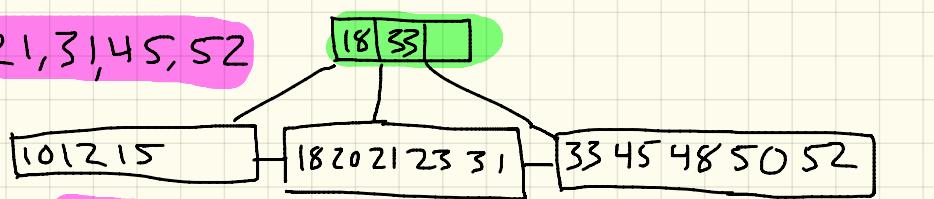


new left for
split after H8 insert

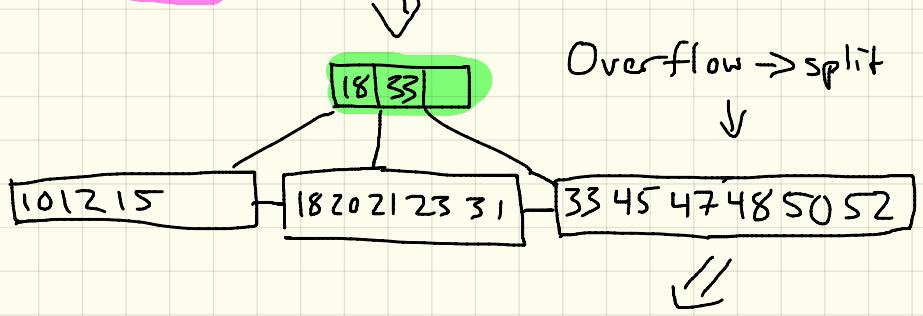
Result:



Add 21, 31, 45, 52

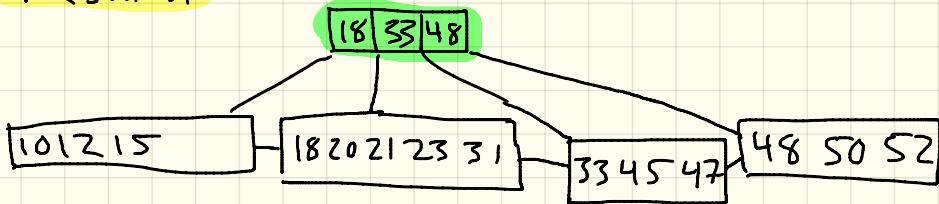


Add 47

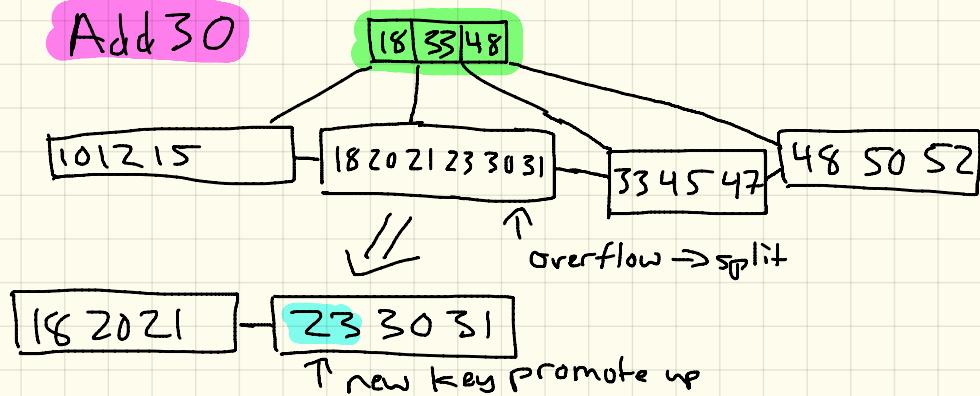


Overflow → split

Results:



Add 30



overflow → split

↑ new key promote up

18	23	33	48
----	----	----	----

new guide
w/promoted key



overflow \rightarrow split
 >3 keys

Result:

