### B-Tree (4 order):

1

that read and write relatively large blacks at data ) Such diess it carried that read and write relatively large blacks at data ).

#### \* Definition

- 1) Every notes has obt most in children
- 2) Evry non-lest note except root hat at myz chils notes.
- 3) The nost has at least two children it it is not a last rade.
- 4) Arm lest note with key children contains kent keys.
- of All least oppose in the some level and carry to infunction.

has different definition. In this bonounce and also our book identify order of the maximum number of children which is one more than the maximum number of children which is one more than the maximum number of keys.

\*if order is the three mix being different child and 3 different

(m=4

my children:  $\frac{1}{2}$ : 2 min keys=cell( $\frac{m}{2}$ .) =  $\frac{1}{2}$  except rest of the children:  $\frac{1}{2}$  my keys=  $\frac{1}{2}$ 

Input = { 20, 30, 8, 42, 39, 18, 40, 243/

[20] (There is only one elever)

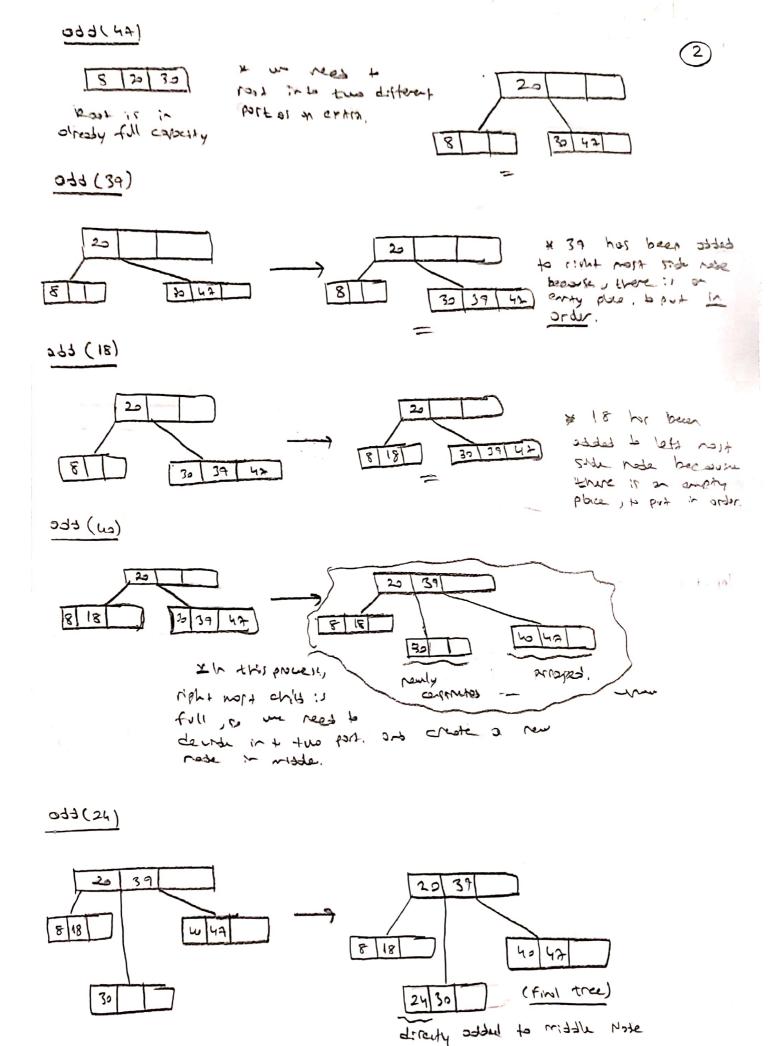
699(30)

[20 [30]] (There is a empty plus which we are put item)

# (8)660

8 20 70

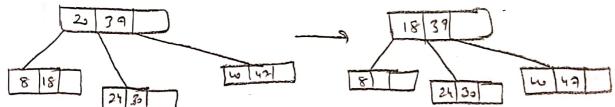
× Be corefl that items in the sine rock with be in order in B tree



the elment is belonging to. If note is led note, there will be differed operation, if note is internal node there will be a different operation.

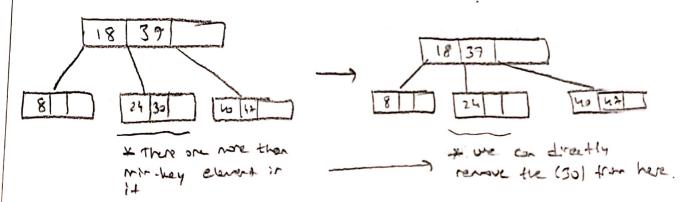
\*\*Removing the internal node bosed or exchanging with inorter predecessor in order successor.

#### remove (20)



while doing that we need to aher out winkey while 15 "1":

#### remove (.30)



## Lawar (8)

