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19M18CS075
B4

Insertion of B Tree :-

* first initializing x as root
- Then if (x != leaf)
then
find child of x which is going to be traversed next.
Suppose (child = y)
if (y ≠ full), then change x → y
if (y = full)
split it and change x to point to one of two parts of y.
if (k < mid key[y])
set x as first part of y.
else
{
second part of y
}.
while we split y, we move a key from y to its parent x.

Now when (x = leaf)
x must have space for one extra key.
Now simply insert k to @ x.