B-Tree /2-3 Trees
B-Trees always guarantee balanced/ "bushy" tree How dover it wort?

When we insert an item into a tree, we attach it to the proper leaf node if the leaf node has les than 3 values (same procedure as inserting name into binary search tree but instead of attacking as new node, attach onto existing node).


However, if the node jets to 3 values, then we move the center valve up.

Example:


Invariants
(1) All leaves are same distance from root
(2) All non-leaf nodes with $k$ items have $k+1$ child nodes

