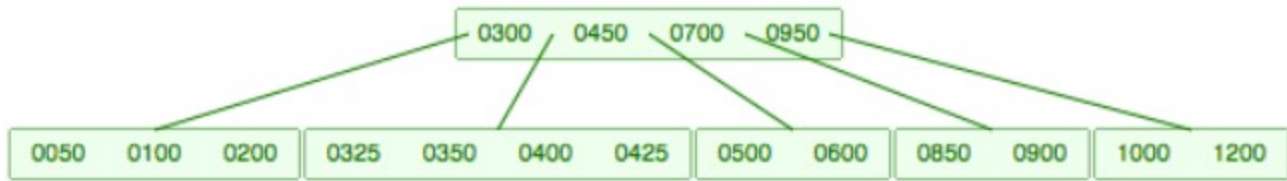
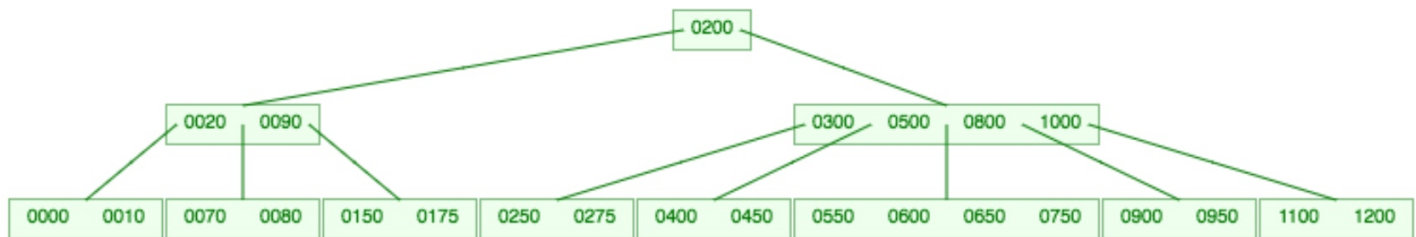


# B-Tree Practice Problems

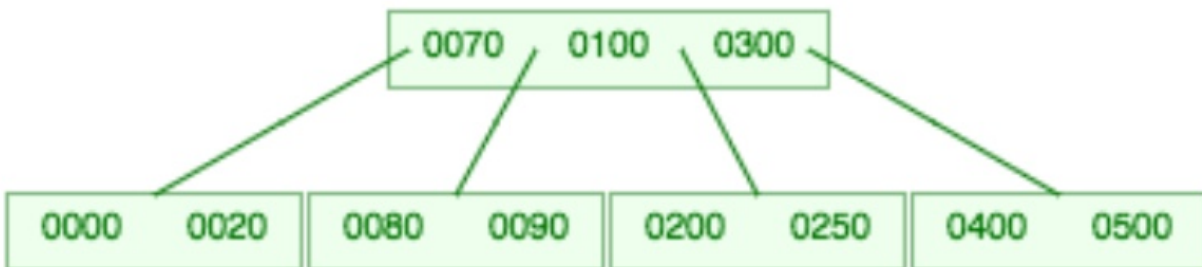
1. Insert 375 into the following B-tree:



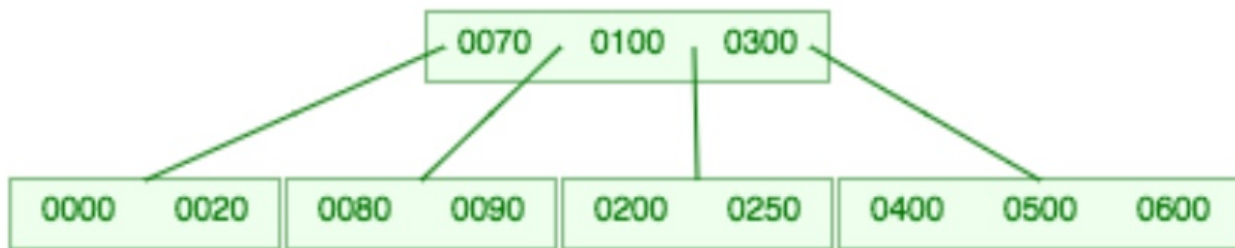
2. Insert 700 into the following:



3. Delete 80 from the following:

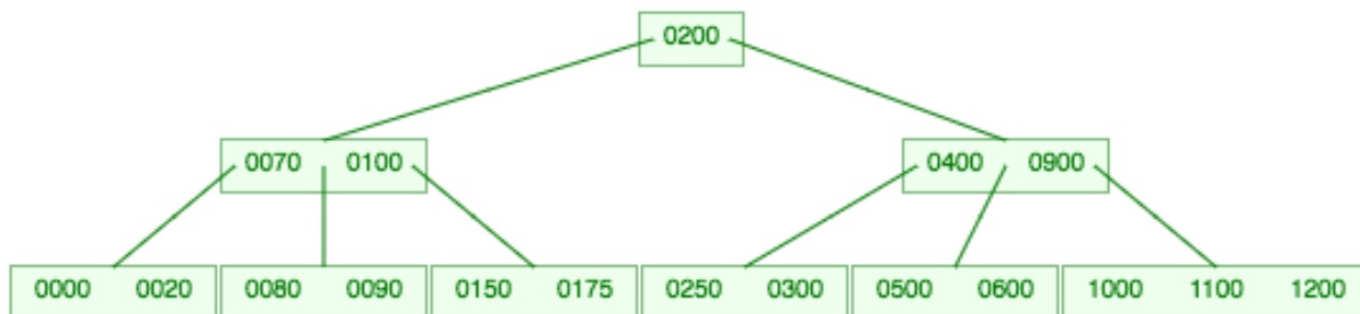


4. Delete 250 from the following:

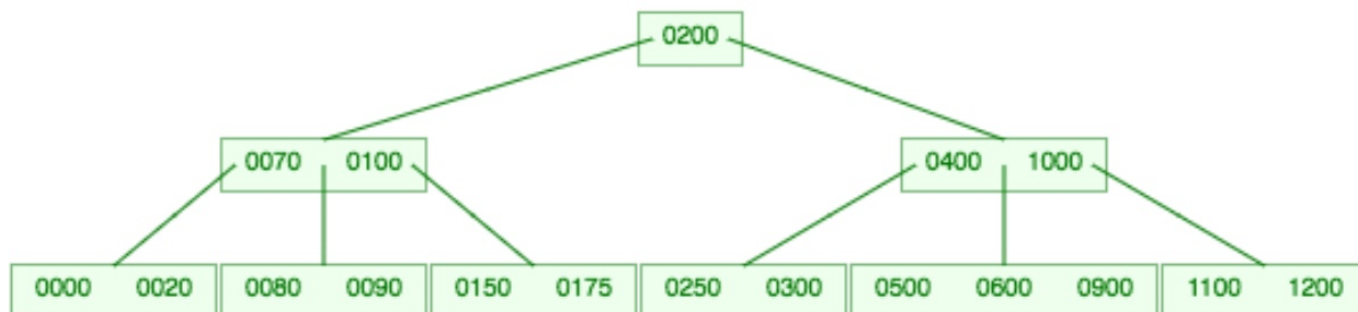


5. Delete 900 from the following:

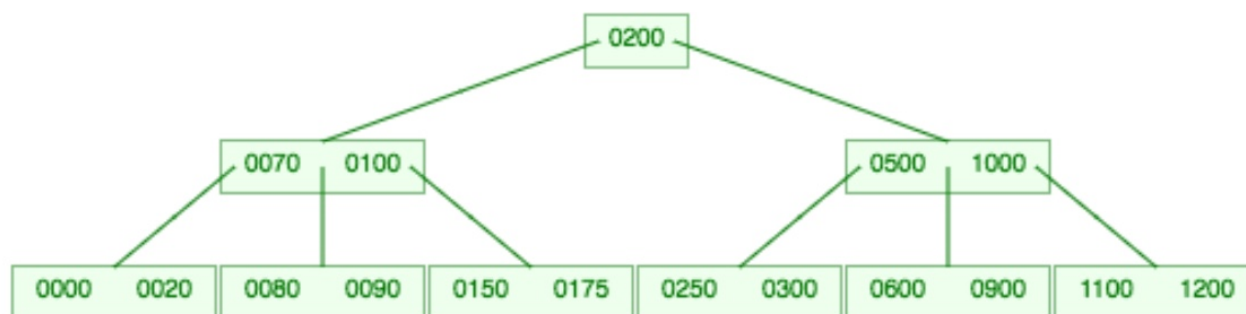
The following problems all involve deleting a key from an interior node. Assume we choose to replace the deleted key with the **largest key from its left subtree** (i.e., its immediate predecessor in sorted order) so please solve the following problems by deleting the immediate predecessor from the appropriate leaf and then re-balancing in the appropriate way.



6. Delete 400 from the following:



7. Delete 100 from the following:




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Adapted from: <https://web.eecs.utk.edu/~bvanderz/teaching/cs140Sp18/BTrees/>