

Review QUIZ 1 of 2

Advanced MwayST - 23Trees, 234Trees & B-Trees

(All questions are based on Lecture Notes. Go to the Lecture Notes and fully understand the topics!)

Q1. M-way Search Tree? 2-3 Tree? 2-3-4 Tree? B-Tree of degree m?

[\[GO TO Lecture Note Slide #5, #8, #10, #12, #77, #146, #147, #150\]](#)

Q2. Insert 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10 into an empty 2-3 Tree.

[\[GO TO Lecture Note Slide #42, #62, #63\]](#)

Q3. Insert 20, 30, 40, 10, 50, 60 and 70 into an empty **2-3-4 Tree without Pre-Split (Two-pass insertion).**

[\[GO TO Lecture Note Slide #83, #84, #85, #86, #87\]](#)

Q4. Insert 20, 30, 40, 10, 50, 60 and 70 into an empty **2-3-4 Tree with Pre-Split (One-pass insertion).**

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Q5. Insert 10, 20, 30, 40, 50, 60, 70 and 80 into an empty **B-Tree of degree 3**.
[\[GO TO Lecture Note Slide #150, #151, #152, #153, #154\]](#)

Q6. Insert 10, 20, 30, 40, 50, 60, 70 and 80 into an empty **B-Tree of degree 4**.
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Q7. Insert 20, 30, 40, 10, 50, 60 and 70 into an empty **2-3-4 Tree with Pre-Split**.
[GO TO Lecture Note Slide #88, #97, #108, #109, #110, #111, #112]

Q8. Red-Black tree? Draw an equivalent **Red-Black tree** of the 2-3-4 tree in Q7.
[GO TO Lecture Note Slide 120, #121, #122, #123, #133, #134]