Review QUIZ 1 of 2

Advanced Heaps – Leftist Heaps &Skew Heaps

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

Q1. An array-based representation of **Ternary Heap** (3-Heap)? Insert 5, 4, 3, 2 & 1 into an empty **Ternary min-heap**?

[GO TO Lecture Note Slide #29, #30, #31]

Q2. Top-Down Heap Building? Convert [6, 3, 5, 9, 2, 10] to a binary min-heap. **Worst-case time complexity**?

[GO TO Lecture Note Slide #33, #35, #41, #50, #51, #52]

Q3. Bottom-Up Heap Building? Convert [6, 3, 5, 9, 2, 10] to a binary min-heap.
Worst-case time complexity?

Q4. Why Advanced Heaps? **What** kinds of Advanced Heaps?

Review QUIZ 2 of 2

Advanced Heaps – Leftist Heaps &Skew Heaps

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Q5. Leftist heap? Insert 5, 3, 4, 1 & 2 into an empty **Leftist min-heap**?
[GO TO Lecture Note Slide #67, #68, #69, #70, #75, #84, #90, #114, #115]

Q6. Insert 5, 3, 4, 1 & 2 into an empty **Leftist min-heap**? DeleteRoot?
[GO TO Lecture Note Slide #114, #115, #117, #118]

Q7. Skew heap? Insert 5, 3, 4, 1 & 2 into an empty **Skew min-heap**?

Q8. Compare **Binary Heap, Ternary Heap, Leftist Heap & Skew Heap**?