Data Structures & Algorithms using Python

Quiz Answers

Binary Search Tree 2

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1. Which one of the following is the tightest upper bound that represents the time complexity of inserting an object into a binary search tree of n nodes?

O(1)
O(log n)
O(n)
O(n log n)

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2. What are the worst-case complexities of insertion and deletion of a key in a binary search tree?

θ (log(n)) for both insertion and deletion
θ (n) for both insertion and deletion
θ (n) for insertion and θ (log) n for deletion
θ (log (n)) for insertion and θ (n) for deletion