

Data Structures Practice Test Questions and Answers

1. What is a threaded binary tree?

- A) A tree where each node stores a thread ID
- B) A tree where null pointers are replaced with pointers to in-order successor/predecessor
- C) A tree used for concurrent access
- D) A tree where all nodes are connected in a circular manner

2. Stack can also be referred to ;

- A) First in first out
- B) Last in last out
- C) Last in first out
- D) First in last out

3. What is a segment tree used for?

- A) Storing hierarchical file structures
- B) Answering range queries (sum, min, max) and point updates in $O(\log n)$
- C) Balancing a BST automatically
- D) Representing graph adjacency

4. What is a monotonic stack used for?

- A) Implementing a priority queue
- B) Maintaining elements in strictly increasing or decreasing order to solve next-greater-element problems
- C) Balancing parentheses in expressions
- D) Evaluating postfix expressions

Answers: 1-B 2-C 3-B 4-B

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