

630951

Suppose you are writing software for a helpdesk. Each request is entered into the system as it arrives.

Which of the following abstract datatypes would be the best choice to ensure that the requests are handled in exactly the same order in which they arrive?

- a. A Stack
- *b. A Queue
- c. A List
- d. A PriorityQueue
- e. A Dictionary
- f. "
- g. "
- h. "
- i. "
- j. "

General Feedback:

A Queue is the only abstract datatype where elements are removed in exactly the same order that they arrived in.

617450

If an inorder traversal of a complete binary tree visits the nodes in the order ABCDEF (where each letter is the value of a node), which order are the nodes visited during an postorder traversal?

- a. ABDECF
- b. DEBFCA
- c. DBFACE
- d. DBACFE
- *e. ACBEFD
- f. "
- g. "
- h. "
- i. "
- j. "

General Feedback:

DBACFE

633269

What is not true about a binary search tree?

- a. It is a binary tree
- *b. It is a perfect tree
- c. The leftmost node is the smallest node in the tree
- d. When printed with inorder traversal, it will be sorted
- e.
- f. "
- g. "
- h. "
- i. "

General Feedback:

BSTs need not be perfect.