Exam	Student	Question	Type	Student Answer	Grade
DS02	1001	Which data structure uses LIFO (Last In, First Out) principle?	MCQ	b) Stack	10
		Which data structure is best suited for implementing a priority queue?	MCQ	c) Heap	10
		In a binary search tree (BST), which traversal method gives the nodes in non-decreasing order?	MCQ	b) In-order	10
		What is the time complexity of accessing an element in a hash table on average?	MCQ	a) O(1)	10
		A stack is based on the FIFO (First In, First Out) principle.	TF	2) False	10
		A binary tree with n nodes has at most n-1 edges.	TF	1) True	10
		In a doubly linked list, each node has pointers to both the next and previous nodes.	TF	1) True	10
		The time complexity for inserting an element into a balanced binary search tree is O(log n).	TF	2) False	0
		A queue can be implemented using two stacks.	TF	2) False	10
		Hash tables are used to implement associative arrays.	TF	2) False	0
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