Tests & Quizzes

Quiz3

Table of Contents

Part 1 of 3 - True or False

Question 1 of 19 1 Points
Exception e = new Exception("Woops"); is a legal statement.

- A. True
- B. False

Reset Selection

Question 2 of 19 1 Points

Is this catch block legal?

```
catch(NoSuchMethodException nsme){
   System.out.println(nsme.getMessage());
   System.exit(0);
}
```

Time Remaining: 00:57:31

▲ Hide Time Remaining ▲

Reset Selection

Question 3 of 19 1 Points
When a method might throw an exception but not catch it, the exception class usually must be listed in a 'throw' (keyword) clause for the method.

- A. True
- B. False

Reset Selection

Question 4 of 19 1 Points
A try block is followed by one or more catch blocks. In this case, always list the catch block for a more specific exception class before the catch block for a more general exception class.

- A. True
- B. False

Reset Selection

Question 5 of 19 1 Points
Unchecked exceptions must be caught eventually. Otherwise, program execution will terminate.

- A. True
- B. False

Reset Selection

Question 6 of 19 1 Points
Files that are considered to be strings of characters and that look like characters to your program and to a text editor are called text files. All other files are called binary files.

- A. True
- B. False

Reset Selection

Question 7 of 19 1 Points
A stack or a queue often serves as the underlying mechanism on which an ADT array is based.

- A. True
- B. False

Reset Selection

Question 8 of 19 1 Points
Pushing and popping items on a stack and inserting and removing items in a queue all take O(N) time.

- A. True
- B. False

Reset Selection

Question 9 of 19 1 Points
Deleting a node with one child from a binary search tree involves finding that node's successor

- A. True
- B. False

Reset Selection

Part 2 of 3 - Multiple Choice

Question 10 of 19 1 Points

Which of the following is true?

- A. The top of a stack corresponds to the front of a queue.
- B. The contents of a queue can wrap around, while those of a stack cannot.
- C. The pop operation on a stack is considerably simpler than the remove operation on a queue.
- D. In both the stack and the queue, items removed in sequence are taken from increasingly high index cells in the array.

Reset Selection

Question 11 of 19 1 Points

A queue might be used to hold

- A. the items to be sorted in a insertion sort
- B. reports of variety of imminent attacks on the star ship Enterprise.
- C. keystrokes made by a computer user writing a letter.
- D. symbols in a algebraic expression being evaluated.

Reset Selection

Question 12 of 19 1 Points

When you create a reference to a node in a linked list, it

- A. must refer to the first node
- B. can refer to any node you want
- C. must refer to the node pointed to by 'current'
- D. must refer to the node pointed to by 'next'

Reset Selection

Question 13 of 19 1 Points

A binary tree is a search tree if

- A. in the path from the root to every leaf node, the key of each node is greater than the key of its parent
- B. every non-leaf node has children whose key values are less than the parent
- C. every left child has a key less than the parent and every right child has a key greater than the parent
- D. a node can have a maximum of two children

Reset Selection

Question 14 of 19 1 Points

A subtree of a binary tree always has

- A. a root unconnected to the main tree's root
- B. a sibling with the same number of nodes
- C. a root that is a child of the main tree's root
- D. fewer nodes than the main tree

Reset Selection

Part 3 of 3 - Filling the blanks

Question 15 of 19 1 Points

Access to the nodes in a linked list is usually through the First node.

Question 16 of 19 1 Points

A special case often occurs for insertion and deletion routines when a list is empty

Question 17 of 19 1 Points

A hashing transforms a range of key values into a range of index values.

Question 18 of 19 1 Points

Separate chainning involves the use of a linked list at each location.

Question 19 of 19 2 Points

Create a method ListNode reverseList(ListNode head) to reverse a Linked List in Java

```
public class ListNode {

   private int data;
   private ListNode next;

   ListNode(int data) {
      this.data = data;
      this.next = null;
}

// standard getters and setters
}
```

A linked list may contain multiple ListNode objects. For example, we can construct the above sample linked list with a loop:

```
ListNode constructLinkedList() {
   ListNode head = null;
   ListNode tail = null;
   for (int i = 1; i <= 5; i++) {
      ListNode node = new ListNode(i);
      if (head == null) {
         head = node;
      } else {
         tail.setNext(node);
      }
      tail = node;
    }
    return head;
}
```

Maximum number of characters (including HTML tags added by text editor): 32,000

Show Rich-Text Editor (and character count)

Save Submit for Grading

- Gateway
- Accessibility Information
- The Sakai Project
-

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Tue, 14 Dec 2021 10:13:23 CST

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Change Profile Picture

Error removing image
Error uploading image
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You don't have any connnections yet. Search for people above to get started.

You have no pending connections.

←Back to My Connections

Search for people ...

$({cmLoader.getString("connection_manager_no_results")}

Done