**Question 1 of 10**

While implementing Depth First Search on a Stack Data Structure, what would be the maximum distance between two nodes in the Stack?

1. Can be anything.
2. 0
3. 4
4. 2

**Question 2 of 10**

What does the following *git* command do?

#git commit -m “[ Type message here]”

1. Captures a snapshot of currently staged changes. The m flag is used for communicating a message to the owner of the repository that changes were done.
2. Captures a snapshot of currently staged changes. The m flag is used for connecting a commit message to your commit.
3. Captures a snapshot of currently staged changes. The m flag is used for communicating a message to all the collaborators that changes to that repository were done.
4. Captures a snapshot of currently staged changes. The m flag is used logging a message in the *readme* file about the changes made to that repository.

**Question 3 of 10**

How many times is a node visited when you use a Depth First Search algorithm?

1. Exactly thrice.
2. Exactly twice.
3. Exactly once.
4. Equivalent to number of indegree of the node.

**Question 4 of 10**

Which of the following statements is not true about Exponential Search?

1. Exponential Search transforms input using no auxiliary data structure. It usually overwrites the output as the algorithm executes.
2. Exponential Search performs better than binary search when the element being searched is present near the starting point of the array.
3. Exponential Search has lower time complexity than Binary Search when performing a search on decimal values, but higher time complexity than Binary Search when performing a search on characters.
4. Jump Search has greater time complexity than an Exponential Search.

**Question 5 of 10**

What does the following *git* command do?

#git config -global user.email “[email address]”

1. Configures user.email as a global variable to be used with all functions in the program.
2. Assigns the value global to the variable user.email.
3. Sets the author’s email address to be used with commits.
4. Replaces all email addresses in the program with the variable global

**Question 6 of 10**

What does the following *git* command do?

#git checkout -b [branch name] master

1. Creates a checkout for an e-commerce website.
2. Creates a new branch from *master*.
3. Puts 2 or more branches in the checkout and merges them into *master*.
4. Deletes the branch by checking it out from *master*.

**Question 7 of 10**

Which of the following data structures is suitable of LIFO [Last In First Out] Branch and Bound algorithm?

1. Array
2. Stack
3. Linked List
4. Queue

**Question 8 of 10**

You have this array – arr = {1, 3, 42, 65, 74}

You are asked to locate the element 65 using Binary Search. How many iterations would the algorithm take to locate the element in the list?

1. 2
2. 1
3. 3
4. 4

**Question 9 of 10**

Which of the following statement is true?

1. Branch and Bound is more efficient than backtracking.
2. Branch and Bound is not suitable where a greedy algorithm is not applicable.
3. Branch and Bound is not suitable where it’s difficult to apply Recursion.
4. Branch and Bound divides a problem into at least 2 new restricted sub-problems.

**Question 10 of 10**

When should you not use Binary Search?

1. When asked to identify the upper bound in an ordered list.
2. When asked to search for an item in an ordered list.
3. When asked to identify the lower bound in an ordered list.
4. When asked to search for an item in an unordered list.