

Q5 (weeks 1-5)

⚠ This is a preview of the published version of the quiz

Started: Oct 13 at 3:55pm

Quiz Instructions



Question 1

0.2 pts

Suppose two distinct methods are called in the following snippet:

```
obj1.drive(obj2)
obj3.drive(obj4)
```

What do you infer about the types involved?

- ☐ obj2 and obj4 are different types
- ☐ obj1 and obj2 are different types
- ☐ obj1 and obj3 are different types
- ☐ obj2 and obj4 have the same type



Question 2

0.2 pts

How many parents could a node in a binary tree possibly have? Check all that apply.

- ☐ 4
- ☐ 0
- ☐ 1
- ☐ 3

☐ 2**Question 3****0.2 pts**

What can you say about the following?

A.left = B

A.right = C

B.right = D

C.left = D

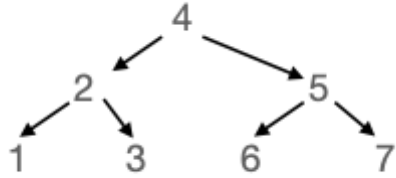
☐ it is a tree☐ it is weakly connected☐ it is a binary tree☐ it is acyclic☐ it is strongly connected**Question 4****0.2 pts**

If you forget to use a visited set when writing code for DFS, what might happen when searching a graph with cycles?

☐ it might return False (no path found) even though a path to the destination exists☐ there could be an exception☐ the code could run forever☐ it might return True (path found) even though no path to the destination exists

**Question 5****0.2 pts**

Is it a BST?



- ☐ no, because 1 must be the root
- ☐ no, because 1 is in the wrong place
- ☐ no, because 2 is in the wrong place
- ☐ yes
- ☐ no, because 7 must be the root
- ☐ no, because 3 is in the wrong place
- ☐ no, because 6 is in the wrong place
- ☐ no, because 7 is in the wrong place

Quiz saved at 3:55pm

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