Reading Homework 10 (Due Wed March 28, 3:20PM)

Due Mar 28, 2018 at 3:25pm **Points** 12 **Questions** 9 **Time Limit** None

Instructions

This reading homework covers Section 11.3 of your textbook.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	23 minutes	4 out of 12

Score for this quiz: **4** out of 12
Submitted Mar 28, 2018 at 1:53pm
This attempt took 23 minutes.

All these questions ask about the B+ tree algorithms described in your textbook. Other B+ tree algorithms exist in the real world, but please answer these questions only using the algorithms from your textbook.

Question 1

1 / 1 pts

A table has an attribute, called foo, that is a candidate key for that table. A B+ index is created on foo. The find(V) algorithm described in Figure 11.11 of your textbook is performed twice consecutively, for two different V values of foo. No inserts or deletes happened between these searches. True or false: It is impossible for these different searches to visit a different number of nodes.

Correct!

- (•) True
- ( ) False

Question 2

1 / 1 pts

Same question above, but now foo is not a candidate key.

Correct!

- (•) True
- ( ) False

Question 3

0 / 1 pts

In a non-leaf node of a B+tree, if you take the pointer immediately to the left of a key value, it is impossible that the first leaf node that is eventually reached contains that key value.

orrect Answer

- ( ) True

'ou Answered

- (•) False

Question 4

0 / 1 pts

In a leaf node of a B+tree, if you take the pointer immediately to the left of a key value, it is impossible that this pointer does not point to a tuple with that value.

orrect Answer

- ( ) True

'ou Answered

- (•) False

Question 5

0 / 1 pts

Insertion of a new key --- Powell --- into the B+ tree of Figure 11.16 of your textbook will cause a non-leaf key to split.

'ou Answered

- (•) True

orrect Answer

- ( ) False

Question 6

0 / 1 pts

Insertion of a new key --- Powell --- into the B+ tree of Figure 11.18 of your textbook will cause a non-leaf key to split.

orrect Answer

- ( ) True

'ou Answered

- (•) False

Question 7

0 / 2 pts

After insertion of a new key --- Powell --- into the B+ tree of Figure 11.18 of your textbook, what keys will be in the root of the tree? Concatenate all keys into a single word (with no spaces) in your answer. For example, the original root of 11.18 is CalifieriEinsteinGold.

'ou Answered

CalifieriEinsteinKatz

orrect Answers

Einstein

einstein

Gold

gold

Question 8

2 / 2 pts

After insertion of a new key --- Powell --- into the B+ tree of Figure 11.14 of your textbook, the Mozart key is deleted. What keys will be in the root of the tree after these two operations? Concatenate all keys into a single word (with no spaces) in your answer (as above).

Correct!

GoldMozart

orrect Answers

GoldMozart

goldmozart

goldMozart

Goldmozart

Question 9

0 / 2 pts

After deletion of Brandt from the B+ tree of Figure 11.13 of your textbook, what keys will be in the direct parent of the leaf node that contains Adams? Concatenate all keys into a single word (with no spaces) in your answer (as above).

ou Answered

AdamsCalifieriCrick

orrect Answers

EinsteinGold

einsteingold

Einsteingold

einsteinGold

Quiz Score: **4** out of 12