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BITS WILP Data Structures and Algorithms Design Quiz-2 2017-H1

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Ouestion 1

The following letter sequence was generated by using a postorder traversal of a perfect binary tree T. What is the root of this tree?

debfgch Select one:

a. h

○b. f

Oc. d

Od. None of the above

Feedback

The correct answer is: h

Ouestion 2

The following letter sequence was generated by using a postorder traversal of a perfect binary tree T. What is the preorder traversal?

debfgch

Select one:

a. dbfghce

Ob. debfgch

Oc. dbehfcg

od. hbdecfg

Oe. None of the above

Feedback

The correct answer is: h b d e c f g

Ouestion 3

The following letter sequence was generated by using a postorder traversal of a perfect binary tree T. What is the inorder traversal?

debfgch

Select one:

a. hbdecfg

Ob. dbfghce

oc. dbehfcg

d. None of the above

e. debfgch

Feedback

The correct answer is: d b e h f c g

Question 4

The following letter sequence was generated by using a postorder traversal of a perfect binary tree T.

debfgch

Which of the following is true?

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i. f and e are siblings

ii. f and g are siblings

iii. c is decendent of h

Select one:

a. All of them are false

Ob. i is true and ii, iii are false

oc. ii and iii are true and i is false

Od. All of them are true

e. None of the above

Feedback

The correct answer is: ii and iii are true and i is false

Question 5

The following letter sequence was generated by using a postorder traversal of a perfect binary tree T. What is the depth of node c?

debfgch

Select one:

○a. 0

●b. 1

Oc. None of the above

Od. 2

Feedback

The correct answer is: 1

Question 6

Let T be a binary tree with n nodes. The time required to traverse the tree using in-order traversal is

Select one:

oa. O(n)

○b. O(n2)

c. none of the above

Od. O(nlogn)

Feedback

The correct answer is: O(n)

Question 7

Suppose T is a proper binary tree with 11 internal nodes. What is the size of T?

•a. 23

○b. 12

Oc. None of the above

Od. 22

©e. 21

Feedback

The correct answer is: 23

Question 8

Suppose T is a binary tree with 10 nodes. What is the maximum possible height of T? Select one:

(a. 4)

Ob. None of the above

●c. 10

Od. 5

Feedback

The correct answer is: 10

Question 9

A binary search tree has n internal nodes. The number of external nodes is at most Select one:

a. None of the above

©b. n-1

Oc. log n

●d. 2n

Oe. n

Feedback

The correct answer is: 2n

Ouestion 10

The worst case running time to find a maximum element in a binary search tree with n items is

Select one:

●a. O(n)

b. O(logn)

c. None of the above

Od. O(n2)

©e. O(1)

Feedback

The correct answer is: O(n)

Question 11

Which of the following have O(1) running time for insert operation?

Select one:

•a. Log File, Hash Table

b. Hash Table, Binary Search Tree

Oc. Look-up Table, Hash Table

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- Od. None of the above
- e. Binary Search Tree, Look-up Table

Feedback

The correct answer is: Log File, Hash Table

Ouestion 12

Which of the following has more than O(n) space requirement where n is the number of items stored.

Select one:

- a. Log File
- Ob. None of the above
- Oc. Look-up Table
- Od. Binary Search Tree
- e. Direct Address Table

Feedback

The correct answer is: Direct Address Table

Question 13

Keys "63, 73, 43, 98, 110" are stored in a direct address table. What is the minimum size of the table?

Select one:

a. None of the above

○b. 4

●c. 111

Od. 109

©e. 5

Feedback

The correct answer is: 111

Question 14

Keys "63, 73, 43, 98, 110" are stored in a direct address table. "43" will be stored in the

slot ____

Select one:

•a. 43

○b. 3

©c. 0

Od. None of the above

Oe. 44

Feedback

The correct answer is: 43

Question 15

Keys { 200,205,210,...,600} are stored in a chained hash table. Suppose $h(k) = k \mod 100$ is used, which slot will have maximum number of keys?

Select one:

a. 200

b. 0c. 99

Od. None of the above

©e. 100

Feedback

The correct answer is: 0

Question 16

Keys { 200,205,210,...,600} are stored in a chained hash table. Let $h(k) = k \mod 101$, alpha be the load factor, and v be the maximum number of keys stored in a single slot. Which of the following is true?

Select one:

○a. alpha >v

b. None of the above

●c. alpha < v</p>

Od. alpha =v

e. alpha > 1

Feedback

The correct answer is: alpha < v

Question 17

When using linear probing policy, what is the probability of an empty slot gets filled if it is preceded by i full slots?

Select one:

○a. (i+1)/n

○b. 1/n

©c. (i+1)/m

Od. 1/m

Oe. None of the above

Feedback

The correct answer is: (i+1)/m

Question 18

Assume the keys are inserted in the following order. 1055, 1492, 1776, 1812, 1918, 1945. Find the total number of key comparisons if linear probing policy is used and $h(k) = 5*x \mod 8$ is the auxiliary hash function.

Select one:

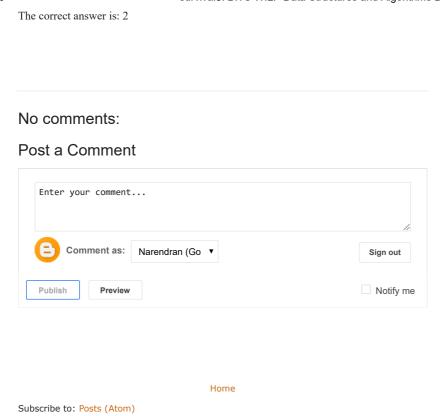
•a. 9

Ob. None of the above

Oc. 7

```
Od. 6
©e. 4
Feedback
The correct answer is: 9
Ouestion 19
Assume the keys are inserted in the following order. 1055, 1492, 1776, 1812, 1918,
1945. 1945 is stored in the slot
                                        if linear probing policy is used and h(k) = 5*x
mod 8 is the auxiliary hash function.
Select one:
○a. 6
○b. 0
●c. 7
Od. None of the above
©e. 5
Feedback
The correct answer is: 7
Question 20
Assume the keys are inserted in the following order. 1055, 1492, 1776, 1812, 1918,
1945. What is the minimum number of nodes in a complete binary tree with height 4?
Select one:
a. None of the above
●b. 8
Oc. 4
Od. 3
©e. 11
Feedback
The correct answer is: 8
Question 21
Consider the following statements.
i) External nodes of heap does not store any keys or elements
ii) Insertion and deletion in heap can be done in O(logn) time
iii) Minimum of a heap can be found in constant time.
Select one:
a. All of them are true
Ob. i is true and ii, iii are false
Oc. None of the above
Od. i, ii are true and iii is false
Oe. All of them are false
Feedback
The correct answer is: All of them are true
Question 22
Queue is empty in the circular array implementation when
Select one:
a. None of the above
●b. f=r
○c. f=0
○d. r=0
Feedback
The correct answer is: f=r
Question 23
Queue is full in the circular array implementation when
Select one:
○a. f-r=0
●b. f-r=1
0c. r-f=1
Od. None of the above
Feedback
The correct answer is: f-r=1
Question 24
Consider an exeperiment of rolling a die and tossing a coin. The size of the sample space
Select one:
a. None of the above
○b. 2
●c. 12
O(n^2)
Od. 36
©e. 6
Feedback
The correct answer is: 12
Question 25
We toss a coin until a head appears. What is the expected number of coin tosses?
Select one:
a. 2
Ob. None of the above
©c. 4
```

Od. 0.5 ©e. 1 **Feedback**



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