Unit 9 - Week 8 : Hash Tables & Graph Algorithms

Quiz 8

The due date for submitting this assignment has passed. Due on 2018-04-04, 23:59 IST.
As per our records you have not submitted this assignment.

1) Consider the below graph: ***1 point***

How many MST does this graph have?

- 0
- 1
- 2
- 3

No, the answer is incorrect.
Score: 0

Accepted Answers:
1

2) If MST is obtained using Prim's algorithm, what is the order in which the edges are added to the MST? ***1 point***

- B-E;F-E;C-D;A-F;D-E
- B-E;F-E;A-F;C-D;D-E
- B-E;F-E;A-F;D-E;C-D
- B-E;F-E;D-E;A-F;C-D

No, the answer is incorrect.
Score: 0

Accepted Answers:
B-E;F-E;A-F;D-E;C-D

3) What is the total cost of the edges added to the MST? ***1 point***

- 9
- 19
- 29
- 39

No, the answer is incorrect.
Score: 0

Accepted Answers:
19

4) Let the keys 75,12,8,62,83,91,15 be hashed to a hash table of size 10 using a hash function h(x) = x mod 10. How many collisions shall occur during the hashing process? ***1 point***

- 0
- 1
- 2
- 3

No, the answer is incorrect.
Score: 0

Accepted Answers:
2

5) Which of the following pairs of keys hash to the same location if a hash table of size 5 is used and the hash function used is given by h(x) = x mod 5? ***1 po***

- 11 and 15
- 12 and 37
- 16 and 42
- 25 and 89

No, the answer is incorrect.
Score: 0

Accepted Answers:
12 and 37

6) There is a hash table with 20 slots. 100 elements are stored onto this hash table. Its load factor is: ***1 point***

- 120
- 80
- 2000
- 5

No, the answer is incorrect.
Score: 0

Accepted Answers:
5

7) If the keys 25,17,82,65,18,9,120 are hashed in the given order onto a hash table of size 7 with linear probing as a collision resolution technique and the hash function is given by h(x) = x mod 7, What will be the final contents of the hash table (in the increasing order of its indices) ? ***1 point***

- 9,17,25,18,82,65,120
- 9,65,25,82,18,120,17
- 17,65,9,18,82,25,120
- 9,120,65,17,25,82,18

No, the answer is incorrect.
Score: 0

Accepted Answers:
9,120,65,17,25,82,18

8) If chaining is used as a collision resolution technique for the above question, What is the average chain length? ***1 point***

- 0.5

- 1
- 1.5
- 2

No, the answer is incorrect.
Score: 0

Accepted Answers:
1

9) How many spanning trees are possible for the below unweighted and undirected simple graph? *1 po*

- 1
- 2
- 3
- 4

No, the answer is incorrect.
Score: 0

Accepted Answers:
3

10) How many spanning trees are possible for an unweighted and undirected simple cycle containing ‘n’ vertices? ***1 point***

- 0.25 n
- 0.5 n
- n
- 2 n

No, the answer is incorrect.
Score: 0

Accepted Answers:
n

Previous Page End


Google