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NeoColab_REC_CS23231_DATA STRUCTURES

REC_DS using C_Week 7_MCQ_Updated

Attempt : 1
Total Mark : 20
Marks Obtained : 2

Section 1 : MCQ

1. Which of the following statements is TRUE regarding the folding method?

Answer

It is best used with prime number table sizes.

Status : Wrong ***Marks : 0/1***

2. What is the primary disadvantage of linear probing?

Answer

Clustering

Status : Correct ***Marks : 1/1***

3. In the folding method, what is the primary reason for reversing alternate parts before addition?

Answer

To decrease the key size

Status : Wrong ***Marks : 0/1***

4. What would be the result of folding 123456 into three parts and summing: (12 + 34 + 56)?

Answer

102

Status : Correct ***Marks : 1/1***

5. Which of the following best describes linear probing in hashing?

Answer

Status : Skipped ***Marks : 0/1***

6. What is the worst-case time complexity for inserting an element in a hash table with linear probing?

Answer

Status : Skipped ***Marks : 0/1***

7. Which data structure is primarily used in linear probing?

Answer

-

Status : - ***Marks : 0/1***

8. Which C statement is correct for finding the next index in linear probing?

Answer

-

Status : - *Marks : 0/1*

9. What happens if we do not use modular arithmetic in linear probing?

Answer

-

Status : - *Marks : 0/1*

10. In division method, if key = 125 and m = 13, what is the hash index?

Answer

-

Status : - *Marks : 0/1*

11. In the division method of hashing, the hash function is typically written as:

Answer

-

Status : - *Marks : 0/1*

12. Which folding method divides the key into equal parts, reverses some of them, and then adds all parts?

Answer

-

Status : - *Marks : 0/1*

13. Which of the following values of 'm' is recommended for the division method in hashing?

Answer

-

Status : - *Marks : 0/1*

14. What is the output of the mid-square method for a key k = 123 if the hash table size is 10 and you extract the middle two digits of k * k?

Answer

-

Status : - *Marks : 0/1*

15. Which situation causes clustering in linear probing?

Answer

-

Status : - *Marks : 0/1*

16. Which of these hashing methods may result in more uniform distribution with small keys?

Answer

-

Status : - *Marks : 0/1*

17. In linear probing, if a collision occurs at index i, what is the next index checked?

Answer

-

Status : - *Marks : 0/1*

18. In C, how do you calculate the mid-square hash index for a key k, assuming we extract two middle digits and the table size is 100?

Answer

-

Status : - *Marks : 0/1*

19. What does a deleted slot in linear probing typically contain?

Answer

-

Status : - *Marks : 0/1*

20. What is the initial position for a key k in a linear probing hash table?

Answer

-

Status : - *Marks : 0/1*