Dashboard ► NGIT-2021-22 ► FS-2023 ► FS ELITE-2023 ► Topic 13 ► MCQ-10-03-2022 ► Preview

Started on Thursday, 10 March 2022, 10:45 AM

**State** Finished

Completed on Thursday, 10 March 2022, 10:46 AM

Time taken 1 min 38 secs

Marks 5.00/5.00

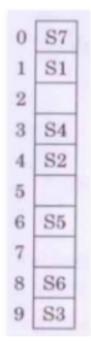
Grade 100.00 out of 100.00

# Question 1

Complete

Mark 1.00 out of 1.00

A hash table with ten buckets with one slot per bucket is shown in the following figure. The symbols S1 to S7 initially entered using a hashing function with linear probing.



The maximum number of comparisons needed in searching an item that is not present is

## Select one:

- a. 3
- b. 6
- o. 4
- d. 5

### Question 2

Complete

Mark 1.00 out of 1.00

A hash function h defined h(key)=key mod 7, with linear probing, is used to insert the keys 44, 45, 79, 55, 91, 18, 63 into a table indexed from 0 to 6. What will be the location of key 18?

# Select one:

- a. 6
- O b. 3
- c. 4
- d. 5

# Question $\bf 3$

Complete

Mark 1.00 out of 1.00

A hash table of length 10 uses open addressing with hash function  $h(k)=k \mod 10$ , and linear probing. After inserting 6 values into an empty hash table, the table is as shown below.

Which one of the following choices gives a possible order in which the key values could have been inserted in the table?

## Select one:

- a. 46, 34, 42, 23, 52, 33
- b. 34, 42, 23, 52, 33, 46
- o. 42, 46, 33, 23, 34, 52
- o d. 46, 42, 34, 52, 23, 33

## Question 4

Complete

Mark 1.00 out of 1.00

Consider a hash table of size seven, with starting index zero, and a hash function  $(3x + 4) \mod 7$ . Assuming the hash table is initially empty, which of the following is the contents of the table when the sequence 1, 3, 8, 10 is inserted into the table using closed hashing? Note that '\_' denotes an empty location in the table.

#### Select one:

- a. 1, \_, \_, \_, \_, 3
- b. 1, 10, 8, \_, \_, \_, 3
- o c. 1, 8, 10, \_, \_, \_, 3
- od. 8, \_, \_, \_, \_, 10

# Question 5 What will be the cipher text produced by the following cipher function for the plain text KMIT with key k =7. [Consider 'A' = 0, 'B' = Complete 1, ......'Z' = 25]. $Ck(M) = (kM + 13) \mod 26$ Mark 1.00 out of 1.00 Select one: a. GQPM b. RJCH c. XPIN d. FTRQ **QUIZ NAVIGATION** 2 || 3 || Finish review Start a new preview **NAVIGATION** Dashboard Site home Site pages Current course FS ELITE-2023 **Participants Badges** General FS-ELITE-17-01-2022 FS-ELITE-18-01-2022 FS-ELITE-19-01-2022 FS-ELITE-20-01-2022 FS-ELITE-24-01-2022 FS-ELITE-25-01-2022 FS-ELITE-27-01-2022 FS-ELITE-28-01-2022 FS-ELITE-29-01-2022 FS-ELITE-07-03-2022 FS-ELITE-08-03-2022 FS-ELITE-09-03-2022 Topic 13 SQL Query-1 SQL Query-2 SQL Query-3