38 Lecture - CS301

Important Mcqs

1. **Which data structure is best suited for storing large amounts of data that can be easily searched and sorted?**
   A) Arrays
   B) Tables
   C) Linked lists
   D) Trees

Answer: B) Tables

2. **Which data structure is best suited for storing configuration data or creating lookup tables?**
   A) Arrays
   B) Tables
   C) Linked lists
   D) Trees

Answer: B) Tables

3. **Which data structure is used to store key-value pairs?**
   A) Arrays
   B) Tables
   C) Linked lists
   D) Dictionaries

Answer: D) Dictionaries

4. **In a dictionary, what does the key represent?**
   A) The value being stored
   B) The position in memory where the value is stored
   C) The identifier used to retrieve the value
   D) The data type of the value being stored

Answer: C) The identifier used to retrieve the value

5. **Which of the following is not a common operation performed on a dictionary?**
   A) Adding a new key-value pair
   B) Removing a key-value pair
   C) Sorting the dictionary
   D) Updating the value of an existing key-value pair

Answer: C) Sorting the dictionary

6. **Which of the following is true about tables?**
   A) They can only store numeric data
   B) They are similar to linked lists
   C) They are often used to store large amounts of data
   D) They cannot be searched or sorted

Answer: C) They are often used to store large amounts of data

7. **Which of the following data structures is most similar to a table?**
   A) Arrays
   B) Stacks
   C) Queues
   D) Linked lists

Answer: A) Arrays

8. **Which of the following is an advantage of using a dictionary over a table?**
   A) Dictionaries can store more data than tables
   B) Dictionaries are easier to search and sort than tables
   C) Dictionaries are more efficient for storing numerical data
   D) Dictionaries are more flexible for storing data in key-value pairs

Answer: D) Dictionaries are more flexible for storing data in key-value pairs

9. **Which of the following is an example of a key-value pair in a dictionary?**
   A) "John", "Doe"
   B) "apple", 3.99
   C) "red", "blue", "green"
   D) 123, "456"

Answer: B) "apple", 3.99

10. **Which data structure would be best suited for storing a list of items in the order they were added?**
    A) Arrays
    B) Tables
    C) Linked lists
    D) Dictionaries

Answer: C) Linked lists