

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