

CompSciStudyGuide - 20 Trivia Questions

1. JSON File

- Question: Which library is commonly used in Java to parse JSON data?
- A) org.json
- B) Java.io
- C) JSON.Parse
- D) Java.util
- Answer: A) org.json

2. JSON File

- Question: What data structure does JSON primarily use to represent data?
- A) ArrayList
- B) Key-Value Pairs
- C) LinkedList
- D) Tree
- Answer: B) Key-Value Pairs

3. ArrayList / LinkedList

- Question: Which operation is faster in a LinkedList than in an ArrayList?
- A) Random Access
- B) Insertion at the beginning
- C) Removal from the end
- D) Accessing the middle element
- Answer: B) Insertion at the beginning

4. ArrayList / LinkedList

- Question: Which collection type allows random access in Java?
- A) LinkedList
- B) ArrayList
- C) HashMap
- D) TreeSet
- Answer: B) ArrayList

5. API

- Question: What HTTP method is commonly used to retrieve data from an API?
- A) POST
- B) GET
- C) PUT
- D) DELETE
- Answer: B) GET

6. API

- Question: What does API stand for?
- A) Application Programming Interface
- B) Automated Program Interface
- C) Application Parsing Interface
- D) Automated Parsing Integration
- Answer: A) Application Programming Interface

7. Examples of 3rd Party Libraries

- Question: Which library would you use to simplify JSON parsing in Java?

- A) Gson
- B) Log4j
- C) Swing
- D) JUnit
- Answer: A) Gson

8. Examples of 3rd Party Libraries

- Question: Which Java library is commonly used for logging?
- A) JUnit
- B) Log4j
- C) Gson
- D) Swing
- Answer: B) Log4j

9. Java Collections Framework

- Question: Which interface does HashMap implement in the Java Collections Framework?
- A) Set
- B) List
- C) Map
- D) Collection
- Answer: C) Map

10. Java Collections Framework

- Question: Which class is part of the Set interface in Java?
- A) ArrayList
- B) TreeSet

- C) HashMap
- D) LinkedList
- Answer: B) TreeSet

11. Text-Based Adventure Games

- Question: Which OOP principle allows an object to take on many forms?
- A) Inheritance
- B) Encapsulation
- C) Polymorphism
- D) Abstraction
- Answer: C) Polymorphism

12. Text-Based Adventure Games

- Question: In Java, which keyword is used to create a subclass?
- A) subclass
- B) super
- C) extends
- D) class
- Answer: C) extends

13. LeetCode Problems - TwoSum

- Question: Which data structure is used to optimize the TwoSum solution?
- A) ArrayList
- B) Stack
- C) HashMap
- D) Queue

- Answer: C) HashMap

14. LeetCode Problems - Roman Integer

- Question: What is the integer value of the Roman numeral "IX"?
- A) 7
- B) 9
- C) 11
- D) 10
- Answer: B) 9

15. LeetCode Problems - Longest Common Prefix

- Question: What is the longest common prefix of ["flower", "flow", "flight"]?
- A) "f"
- B) "flo"
- C) "fl"
- D) "flower"
- Answer: C) "fl"

16. LeetCode Problems - Merge Two Sorted Lists

- Question: What is the purpose of the dummy node in the solution?
- A) It stores the final answer
- B) It initializes the list
- C) It simplifies pointer manipulation
- D) It is not necessary
- Answer: C) It simplifies pointer manipulation

17. JSON File

- Question: What is JSON commonly used for in web development?
- A) CSS Styling
- B) Data Exchange
- C) Image Compression
- D) Database Management
- Answer: B) Data Exchange

18. ArrayList / LinkedList

- Question: Which Java collection allows duplicate elements?
- A) Set
- B) List
- C) Map
- D) TreeSet
- Answer: B) List

19. API

- Question: In REST API, which method is used to update data on a server?
- A) GET
- B) POST
- C) PUT
- D) DELETE
- Answer: C) PUT

20. Java Collections Framework

- Question: Which collection type is ordered but does not allow duplicate elements?

- A) HashSet
- B) ArrayList
- C) LinkedHashSet
- D) TreeMap
- Answer: C) LinkedHashSet