

JAVA – TRICKY QUESTIONS & SAFE ANSWERS

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(All Companies | All Fresher Roles)

◆ □JVM / MEMORY TRICKS

Q1. Is Java 100% object-oriented?

✗ Wrong: Yes

SAFE ANSWER:

No. Java is not 100% object-oriented because it uses primitive data types like int, char, etc.

Q2. Where are objects stored in Java?

✗ Wrong: Stack

SAFE ANSWER:

Objects are stored in Heap memory. References are stored in Stack.

Q3. Does Java use pointers?

✗ Wrong: Yes

SAFE ANSWER:

No. Java does not allow direct pointer access. It uses references for safety.

Q4. Is garbage collection guaranteed?

✗ Wrong: Yes

SAFE ANSWER:

No. Garbage collection is automatic, but JVM decides when to run it.

◆ OOP CONCEPT TRICKS

Q5. Can we create object without constructor?

✗ Wrong: No

SAFE ANSWER:

No. Constructor is always called. If not written, default constructor is provided by Java.

Q6. Can constructor be private?

✗ Wrong: No

SAFE ANSWER:

Yes. Private constructors are used in Singleton design pattern.

Q7. Can we override static methods?

✗ Wrong: Yes

SAFE ANSWER:

No. Static methods belong to class, not object. They can be hidden, not overridden.

Q8. Can we overload main method?

✗ Wrong: No

SAFE ANSWER:

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Yes. We can overload main method, but JVM calls only standard main method.

- ◆ `==` vs `equals()` (VERY COMMON TRAP)

Q9. Difference between `==` and `equals()`?

✗ Wrong: Both same

SAFE ANSWER:

`==` compares references. `equals()` compares content of objects.

Q10. Which one to use for String comparison?

✗ Wrong: `==`

SAFE ANSWER:

`equals()` should be used to compare String values.

- ◆ `4 STRING TRICKS`

Q11. Are String objects mutable?

✗ Wrong: Yes

SAFE ANSWER:

No. String objects are immutable in Java.

Q12. Why String is immutable?

✗ Wrong: Just design

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SAFE ANSWER:

For security, thread safety, and performance (String pool).

Q13. Difference between String and StringBuilder?

Wrong: Same

SAFE ANSWER:

String is immutable. StringBuilder is mutable and faster.

◆ 5 EXCEPTION HANDLING TRICKS

Q14. What happens if exception is not handled?

Wrong: Program continues

SAFE ANSWER:

Program terminates abnormally.

Q15. Can we have try without catch?

Wrong: No

SAFE ANSWER:

Yes, if finally block is present.

Q16. Can finally block be skipped?

Wrong: Never

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SAFE ANSWER:

Yes, in rare cases like System.exit().

6 INHERITANCE & INTERFACE TRICKS

Q17. Can Java support multiple inheritance?

Wrong: Yes

SAFE ANSWER:

Java does not support multiple inheritance with classes, but supports it using interfaces.

Q18. Can interface have methods with body?

Wrong: No

SAFE ANSWER:

Yes. From Java 8, interfaces can have default and static methods.

Q19. Can interface have variables?

Wrong: No

SAFE ANSWER:

Yes. Interface variables are public, static, and final by default.

7 MULTITHREADING BASIC TRICKS (FRESHER SAFE)

Q20. What is thread?

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✗ Wrong: Program

SAFE ANSWER:

Thread is a lightweight process that executes tasks independently.

Q21. Difference between process and thread?

✗ Wrong: Same

SAFE ANSWER:

Process is heavy and independent. Thread is lightweight and shares memory.

◆ 8 OUTPUT-BASED TRICK QUESTIONS

Q22.

```
String s1 = "Java";
String s2 = "Java";
System.out.println(s1 == s2);
```

✗ Wrong: False

SAFE ANSWER:

True. Both refer to same String from String pool.

Q23.

```
String s1 = new String("Java");
System.out.println(s1 == "Java");
```

✗ Wrong: True

SAFE ANSWER:

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False. new creates different object.

◆ ☐GENERAL JAVA TRAPS

Q24. Is Java faster than C?

✗ Wrong: Yes

SAFE ANSWER:

No. C is faster due to direct hardware access.

Q25. Is Java only used for backend?

✗ Wrong: Yes

SAFE ANSWER:

No. Java is used in backend, desktop, mobile, and enterprise applications.

● GOLDEN SAFE LINE (Teach Students)

> "I may not remember exact syntax, but conceptually this works like this..."

This line protects students in any company interview.