

1. What do Java Wrapper classes do?
2. List the eight primitive data types in Java.
3. Why do we need Wrapper classes?
4. What is autoboxing?
5. What is unboxing?
6. Explain the purpose of the `valueOf()` method in Wrapper classes.
7. Differentiate between `==` and `equals()` when comparing Wrapper objects.
8. Can you explain the significance of the `hashCode()` method in Wrapper classes?

The `hashCode()` method returns the hash code value for the object, which is crucial for hashing-based data structures like `HashMap`.
9. How can you convert a Wrapper object to a primitive data type?
10. Discuss the `parseInt()` method in the `Integer` class.

The `parseInt()` method is used to convert a `String` to an `int` primitive.

1. `String numStr = "123";`
2. `int num = Integer.parseInt(numStr);`

11. Explain the `compareTo()` method in the `Comparable` interface.

The `compareTo()` method is used to compare two Wrapper objects and returns a negative, zero, or positive value based on their order.

1. `Integer a = 10;`
2. `Integer b = 5;`
3. `System.out.println(a.compareTo(b)); // 1 (a > b)`

12. How do you check if a given string is a valid representation of a particular primitive type?

13. Explain the purpose of the `Boolean` class in Java.

15. How can you convert a boolean primitive to a `Boolean` object?

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16. Explain the `toString()` method in Wrapper classes.

The `toString()` method returns a string representation of the object, which is useful for printing or logging.

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1. `Integer num = 42;`
2. `System.out.println(num.toString()); // "42"`

20. How can you convert a Wrapper object to a String?

We can use the `toString()` method or simply concatenate it with an empty string.

1. `Integer num = 42;`
2. `String numStr = num.toString();`
3. `// or`
4. `String numStr2 = num + "";`

21. Explain the `toBinaryString()` method in the Integer class.

The `toBinaryString()` method converts an `int` to a binary string representation.

1. `int num = 42;`
2. `String binaryStr = Integer.toBinaryString(num);`

22. What is the purpose of the `MAX_VALUE` and `MIN_VALUE` constants in Wrapper classes?

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These constants represent the maximum and minimum values of the primitive data types.

1. `System.out.println(Integer.MAX_VALUE); // 2147483647`
2. `System.out.println(Integer.MIN_VALUE); // -2147483648`

23. Discuss the `parseXxx()` methods in Wrapper classes.

The `parseXxx()` methods (e.g., `parseInt()`, `parseDouble()`) are used to convert a String to the corresponding primitive type.

1. `String numStr = "42";`
2. `int num = Integer.parseInt(numStr);`

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24. How can you create a BigInteger object from a String?

26. Explain the valueOf() method in the BigDecimal class.

28. Can you use Wrapper classes in a switch statement?

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