**1. What is the output of the expression true || false?**

a) true

b) false

c) null

d) 0

**Answer:**

a) true

Explanation:

The || operator is a logical OR. The result of true || false is true.

**2. Which of the following is not a primitive data type in Java?**

a) byte

b) String

c) double

d) short

**Answer:**

b) String

Explanation:

String is a reference data type, not a primitive data type.

**3. What is the default value of the int data type?**

a) 0

b) 1

c) null

d) Undefined

**Answer:**

a) 0

Explanation:

The default value of the int data type is 0. In Java, each primitive data type has a default value.

**4. Which of the following data types can store a floating-point number?**

a) int

b) byte

c) double

d) char

**Answer:**

c) double

Explanation:

The double data type can store floating-point numbers. There's also float, but it wasn't listed among the options.

**5. Which data type can store a single character?**

a) String

b) byte

c) char

d) int

**Answer:**

c) char

Explanation:

The char data type is used to store a single character.

**6. How many bits does the long data type use?**

a) 8

b) 16

c) 32

d) 64

**Answer:**

d) 64

Explanation:

The long data type uses 64 bits to store its values.

**7. What's the main difference between int and Integer in Java?**

a) No difference

b) Integer can store larger values than int

c) int is a primitive data type, while Integer is a class

d) int can be null, while Integer cannot

**Answer:**

c) int is a primitive data type, while Integer is a class

Explanation:

int is a primitive data type, whereas Integer is a wrapper class that provides methods to operate on the int data type.

**8. Which loop construct in Java is best suited when the number of iterations is known?**

a) for loop

b) while loop

c) do-while loop

d) break statement

**Answer:**

a) for loop

Explanation:

The for loop in Java is best suited when the number of iterations is known.

**9. What is the purpose of the continue statement in a loop?**

a) To exit the loop immediately

b) To skip the current iteration and move to the next iteration

c) To terminate the program

d) To execute a specific block of code

**Answer:**

b) To skip the current iteration and move to the next iteration

Explanation:

The continue statement in Java is used to skip the current iteration of a loop and move to the next iteration.

**10. Which loop construct in Java is best suited when the number of iterations is unknown?**

a) for loop

b) while loop

c) do-while loop

d) none

**Answer:**

b) while loop

Explanation:

The while loop in Java is used when the number of iterations is unknown or depends on a certain condition.

**11. What is the key difference between a while loop and a do-while loop in Java?**

a) The syntax used to define the loop

b) The number of iterations performed

c) The condition check timing

d) The ability to use the break statement

**Answer:**

c) The condition check timing

Explanation:

The key difference between a while loop and a do-while loop in Java is the timing of the condition check. In a while loop, the condition is checked before the loop body is executed, whereas in a do-while loop, the condition is checked after the loop body is executed.

**12. Which loop construct guarantees that the loop body is executed at least once?**

a) for loop

b) while loop

c) do-while loop

d) continue statement

**Answer:**

c) do-while loop

Explanation:

The do-while loop in Java guarantees that the loop body is executed at least once, as the condition is checked after the loop body is executed.

**13. What is an infinite loop?**

a) A loop that executes only once

b) A loop that never terminates naturally

c) A loop that contains an unreachable code block

d) A loop that uses the continue statement

**Answer:**

b) A loop that never terminates naturally

Explanation:

An infinite loop in Java is a loop that never terminates naturally unless interrupted externally or using a break statement.

**14. Which statement is used to exit a loop prematurely?**

a) return statement

b) continue statement

c) break statement

d) exit statement

**Answer:**

c) break statement

Explanation:

The break statement in Java is used to exit a loop prematurely and continue with the execution of the code outside the loop.

**15. Which loop construct is best suited for iterating over an array or a collection?**

a) for loop

b) while loop

c) do-while loop

d) continue statement

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**Answer:**

a) for loop

Explanation:

The for loop in Java is best suited for iterating over an array or a collection, as it provides a convenient way to control the iteration using an index or an iterator.

**16. How do you declare an array in Java?**

a) int arrayName;

b) int[] arrayName;

c) int arrayName[];

d) Both b and c

**Answer:**

d) Both b and c