Unit 09_010 – .readLine() Revisited (Part 1)

Video Length : 9:00

1. What does the .trim() method do?

2. The following snippet of code counts the number of lines in a file. There are two blanks. Fill in the blanks in the code.

```
int count = \rule{20mm}{0.15mm};
while(input.hasNextLine()){
    String line = input.nextLine();
    \rule{20mm}{0.15mm}
}
```

Unit 09_010 – .readLine() Revisited (Part 2)

Video Length : 25:27

3. The term "regex" is short for _____

4. What is the problem with using a comma as a field separator?

5. What does the `String[]` indicate?

6. What does the split() method return?

7. Assume there is an array of Strings called "tokens." It was generated by the following statement. Write a for loop that prints each of the tokens in the array.

```
String[] tokens = line.split(",");
```

8. True or False: Split always returns one item in the array, even if the line is empty.

9. Explain how to determine if a line is empty.

10. What data type does the .split() method return?

Unit 09_020 – Wrapper Classes

Video Length 12:15

11. What is a Wrapper Class?

12. Whare are the two purposes that Wrapper Classes serve?

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    $\rightarrow$

13. Write the Wrapper type for each of the following primitive types

    - boolean

    - char

    - byte

    - short

    - int

    - long

    - float

    - double

14. What does "deprecated" mean when it appears in the Java API?

15. In Java 17, can you instantiate objects of Wrapper classes using the `new` operator? Should you? Explain your answer.

16. Look at the following two lines of code. The video demonstrated that the first line did not work because we needed to make 7 into a double literal as 7.0. Fire up Idea. Does the declaration of the Long work? Fix the literal so that it does work.

```
Double x = 7;  //An error because 7 is an integer literal, not a double lite
Long big = 1234  ;  //what does it take to make this work?
```

Unit 09_030 – Integer Wrapper

Video Length :

17. What is the constant that represents the largest int value in Java? Write the command to print the largest Integer value.

18. What is the constant that represents the smallest int value in Java? Write the command to print the smallest Integer value.

19. What is the method that Java uses to find the maximum of two integer values? Write the command to print the larger of a and b if a and b are ints.

20. Write a Java statement to print "+123" as an integer value.

21. What does Java do if you call Integer.parseInt("Two")? Note that Two is not a valid integer.

Unit 09_040 – Double Wrapper

Video Length :

22. What is the constant that represents the largest double value in Java? Write the command to print the largest double value.

23. If a number is represented in scientific notation, what constant represents the largest exponent allowed in Java.

24. How does Java represent the concept of infinity? How does it represent ∞?

25. Can the values for POSITIVE_INFINITY, NEGATIVE_INFINITY and NaN be stored in regular variables in Java?

26. What value would be stored in x if the following Java statement was executed?

```
x = 5.0 / 0.0;
```

27. Write the code needed to parse a String containing a real number. Return Double.Nan if the String cannot be parsed into a double.

Unit 09_045 – Pseudo Wrapper Classes

Video Length :

Unit 09_050 – Declaring Arrays

Video Length :

Unit 09_060 – Returning Arrays from Methods

Video Length :

Unit 09_070 – Call by Value

Video Length :

Unit 09_080 – Arrays as Parameters

Video Length :

Unit 09_090 – Common Task: Print an Array

Video Length :

Unit 09_100 – Common Task: Filling an Array

Video Length :

Unit 09_110 – Common Task: Read from File into Array

Video Length :

Unit 09_120 – Common Task: Sum an Array and Find the Average

Video Length :

Unit 09_010 –

Video Length :