This assignment contains **??** pages (including this page) and **??** questions. Check to see if any pages are missing.

Video 10.010 About Arrays

1. What is an array?

2. In Java, all elements in an array must be of the same type.

    • True
    • False
    •

3. What does **n** usually represent

4. What is actually stored in the array variable?

5. Is it easy to make arrays bigger after they are declared in Java?

10.020 Args[]

6. what is `String[] args`?

7. How can you print the physical length of an array? Does it have () after length?

8. Write a for loop to print the args[] array.

9. What would the above loop do if the args array is empty?

10. Assume that the args array has *at least* 1 element. What would the following statement print?

```
System.out.println( args[args.length-1])
```

10.030 Splitting Strings

11. What does the `split()` method return?

12. What is the simplest type of regex?

13. Write the statement needed to split a spring on a symbol and store the results in an array called `things`.

14. if a line is empty, then what is the length of the array that will be returned? Why is this a potential problem? **10.040 Reading from a**

file

15. What is a stream? What are some sources for character streams?

16. What is a relative path?

17. Where should you put a file in Intellij in order to make it as simple as possible to read?

18. What extra steps do we have to do to read from a file that we did not need to do when reading from a keyboard?

10.050 Reading all the lines

19. What data type is returned by the hasNext family of methods?

20. Write a loop that would read and echo print all of the Strings in a file (note that this is not using hasNextLine(). If you need to, look it up in the Scanner api.)

10.060 Declaring an array

21. Declare an array that may hold up to 10 Strings. Set a constant to 10 and be sure to also create a variable that represents the current number of elements in the array (or, the logical size of the array).

10.070 Reading a file into an array

22. Write the `while` statement needed to read all the doubles from a file. The array may hold up to MAXSIZE doubles.

23. The following statement does two important things. What are the two things it does?

    ```
    words[n++] = input.next();
    ```

24. Write a complete method (function) that prints the items in an array. Pass in the array and n to represent the logical size of the array.