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Enthuware OCA Test 3 Review

It is important to use your study time effectively by identifying your weaknesses. Go through all the explanations for the questions on yesterday's enthuware exam and answer the following questions.

1. What types of questions were the hardest for you? Give the problem number for one of them. Which Test objective does it fall under?

- For test 3, the questions that were the hardest for me were the questions in the “Working with Java API – String, StringBuilder” category. I missed all 4 out of 4: 10, 11, 20, and 45. After reading the explanations, I learned some important facts to remember! (1) The string class’s equals() method is unique and compares value, not references, (2) the append() method exists in the stringbuilder and stringbuffer class, but not in the string class, (3) the name of a class can be used as a variable name, such as String String = “String”; String.length();, and the method can be called from the variable name if variable initialization and method calling are both in the same scope, (4) the charAt() method takes an int as an argument, but a char is also acceptable since it can be wide-casted, and (5) if an int equal to or greater than the length() is given, then the implementation will throw an IndexOutOfBoundsException. As a side note, it can throw StringIndex or ArrayIndex because they inherit from Index.

2. What was a question you got right, but when you read the solution, you realized your reasoning was off? (Give the problem number and explanation.)

- A question I got partially right with incorrect reasoning is question 17. The category of this question is “Working with Java Data Types”. I was confused at first, but I understood the explanation from Enthuware and the video it provided. To answer this question, it is important to know the ArrayList class and its methods. The methods indexOf() and contains() accept an Object type as a parameter. This means that any primitive data type or object is accepted and will be compiled. For the add(), it is unacceptable to give any other data type except a double primitive or Double wrapper. Int, Integer, float, etc. are all not acceptable.

3. Find one resource for learning more about the topic you struggled on such as method overloading [https://www.digitalocean.com/community/tutorials/overriding-vs-overloading-in-javaLinks to an external site.](https://www.digitalocean.com/community/tutorials/overriding-vs-overloading-in-java) and put the link here and share the link with your classmates.

- I learned a lot of good facts from Dr. Kennedy’s videos again. The answers to the OCA questions are very specific, so these focused and short videos help a lot. It is published at: <https://www.youtube.com/watch?v=nbKIzNGtaeY>. Something I got from the video is ALP, which is how he remembers “Arrays have a Length Property”, but ArrayList have a size() method.