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Enthuware Test 2 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?

- In Test 2, the hardest questions were the Java Basics questions. Specifically, I had missed more than one question concerning the main method. Two questions concerning the main method are 4 and 11. I didn’t know the ins and outs of the main method, but I learned more about it with the help of Enthuware’s explanations. The key facts of the standard main method are (1) the standard is to have the public access modifier even though some JDK may allow otherwise, (2) there must be a static keyword but the order of the public and static keywords does not matter, (3) there must be a void return type and it must be right before the method name like every other method, (4) the parameter must be an array of type String, and (5) the square brackets can be followed after the type, array name, or somewhere in between them.

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.)

- The question I answered correctly without solid reasoning is number 7. It is also within the Java Basic category. There are a few facts about the relationship between static and non-static variables/methods that I was unsure of but learned through this question. (1) Static and non-static variables/methods cannot share the same name/signature, (2) to emphasize, adding the static keyword to the exact duplicate of a non-static method is not the same as overloading static methods which can be done between two or more static methods, and (3) static methods cannot call non-static variables/methods.

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.

- Specifically with the last question, I found an article published on Geeks For Geeks that clearly outlines the boundaries among static methods that help me understand what is allowed and the reasoning behind it. <https://www.geeksforgeeks.org/can-we-overload-or-override-static-methods-in-java/> .