

## Assignment 4 - Hints and Frequently Asked Questions

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### Q1. When I try to run my part 2 code, I get a heap space error. What can I do?

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It appears that you need to increase the space allocated to the JVM heap on a Mac. To do this, go into the run configuration for your project (where you added the `-Djava.library.path` argument). Add the following argument in the VM arguments field (separate the two by a space):

`-Xmx256m`

If that does not work, try changing 256 to 512.

### Q2. When I try to run my part 2 code, I get an `IllegalArgumentException` stating that `input == null`. What is wrong?

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Make sure that you have added `images.jar` as a library in your project, as discussed in section 8 of the assignment description (step 9).

### Q3. I am getting strange errors when I try to implement the `TrieNodeADT<T>` interface. It is telling me that `TrieNodeADT` cannot be resolved to a type. What do I do?

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It appears that Eclipse on Windows does not like the line endings in the provided code (e.g. `TrieNodeADT`, `TrieADT`, etc.) Open each file in Eclipse, and select **File > Convert Line Delimiters To > Windows**. If you do this for each of the provided Java files, this should resolve your issue. Note: if you are using a Mac, you will need to select **MacOS** instead of **Windows**.

If the above solution does not fix your problem, open each of the provided files in Eclipse (e.g. `TrieADT`, `TrieNodeADT`, `SmartArray`), make a small change to them (e.g. add a space), and then save them. This will fix the issue, guaranteed.

### Q4. In Part 1, when I run the `TrieVisualizer`, I notice in the console window that a `ConcurrentModificationException` is thrown. What am I doing wrong?

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Nothing. This is apparently a known bug in JUNG, and has to do with the code used to animate the trie. It does not affect the operation of the TrieVisualizer, so just ignore it.

## **Q5. How can I add a jar file to my project?**

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You can either refer to instructions on Page 15, section 8 for adding a jar file or watch this youtube video to learn how: [http://youtu.be/Wl0DVK\\_MnYk](http://youtu.be/Wl0DVK_MnYk)