Important

There are a few guidelines you must follow in this homework. If you fail to follow any of the following guidelines you will receive a **0** for the entire assignment.

1. All submitted code must compile under **JDK 7**. This includes unused code, don't submit extra files that don't compile. (Java is backwards compatabile so if it compiles under JDK 6 it *should* compile under JDK 7)

2. Don't include any package declarations in your classes.

3. Don't change any *existing* class headers, constructors, or method signatures. (It is fine to add extra methods and classes)

4. Don't import anything that would trivialize the assignment. (e.g. don't import `java.util.LinkedList` for a Linked List assignment. Ask if you are unsure.)

5. You must submit your source code, the `.java` files, not the compiled `.class` files.

After you submit your files redownload them and run them to make sure they are what you intended to submit. We are not responsible if you submit the wrong files.

Assignment

For this assignment you will be implementing the huffman encoding algorithm described in lecture and recitation. An outline of everthing has been provided for you to fill out. Instructions on what each method does is in the javadocs.

You do not need to worry about nulls, and every string will have at least 1 character. (there are still some very tricky cases though)

Deliverables

You must submit all of the following files.

1. `Huffman.java`

You may attach them each individually, or submit them in a zip archive.