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Programming Exercise: Storing All Genes

A PDF copy of this programming exercise can be found in the **Resources** tab.

For files related to this assignment, visit the DukeLearnToProgram Project Resources page for this course: <http://www.dukelearntoprogram.com/course2/files.php> (also linked under **Resources** here in the Coursera course).

You can also find the frequently asked questions page for this course's assignments on DukeLearnToProgram: <http://www.dukelearntoprogram.com/course2/faq.php> (also linked in the **Resources** tab).

Part 1

This assignment is to write the code from the lesson to use a `StorageResource` to store the genes you find instead of printing them out. This will help you see if you really understood how to put the code together, and might identify a part that you did not fully understand. If you get stuck, then you can go back and watch the coding videos that go with this lesson again.

Specifically, you should do the following:

1. Create a new Java project named `StringsThirdAssignments`. You can put all the classes for this programming exercise in this project.
2. Create a new Java Class named `Part1`. Copy and paste the code from your `Part1` class in your `StringsSecondAssignments` project into this class.
3. Make a copy of the `printAllGenes` method called `getAllGenes`. Instead of printing the genes found, this method should create and return a `StorageResource` containing the genes found. Remember to import the `edu.duke` libraries otherwise you will get an error message cannot find the class `StorageResource`.
4. Make sure you test your `getAllGenes` method.

Part 2

Write the method `cgRatio` that has one `String` parameter `dna`, and returns the ratio of C's and G's in `dna` as