**Homework 4 Log:**

**Assumptions:**

* To clean our auto-data we removed every row with an NA value.
* Step 1: We are going to create a classifier table, like page 27 in the book.
* Step 2: We will create a classifier table similar to step 1.
* Step 3: We will not need to clean the titanic data

**Issues:**

* Step 1: Started trying to make a list of multiple lists to create the classifier table, but then decided to use dictionaries.
* Step 1: Instead of building a table exactly like on page 27, we are partitioning each class by the label values.
* Step 1: The standard data type float was not accurate enough, so we started using decimal
* Step 2: Gaussian distribution not completely understood at first
* Step 3: We noticed that the label listing function get\_categories had a bug, and we fixed it
* Step 3: Creating the confusion matrices takes a long time because of how much data there is in the titanic data set, so for testing purposes we used a portion of the data

**Results:**