Apply the following algorithms to perform classification on the 2 data sets, D1 and D2. Compare the accuracies using confusion matrices.

Algorithms
- Ridge Regression
- Logistic Regression
- Fisher's Linear Discriminant

Data Sets
      D1:   BF345.mat
      D2:   TrussDataForClass.mat
              TrussLabelsForClass.mat

Data Set D1 consists of 4 classes of spectra acquired from an airplane: Grass, Red Roofs, Trees, and Gray Roofs.

The spectra are stored in the file TrussDataForClass.mat and you can think of them as a set of 51-dimensional vectors. When you load the file, you will have a cell array with 4 elements. Each element is an array of size Nc x 51, where Nc is the number of samples in the class.

The class labels are stored in a cell array in the file TrussLabelsForClass