One vs. all

The goal of the exercise today is to implement the one-vs-all approach to classification for logistic regression.

1. Review the one-vs-all classification technique in the Week 5 slides.
2. Construct a function `one_vs_all_logistic = function(trainY, trainX, testX)` that outputs the “one-vs-all” classifier for logistic regression.

Some useful functions to help you:

- `yvals = unique(trainY)` returns the unique values in `trainY`.
- What does the following command do?

```r
train_Y_cpy = factor(ifelse(trainY == yvals[i], 1, 0))
```