This is the graph of the perceptron being trained over 100 linearly-separable points. Most of the learning happens at the beginning, with the last half or so of the iterations used to fine-tune the line. Because the points are generated so as to be linearly separable, the perceptron does end up classifying all the data perfectly.

This is the graph of the perceptron working to solve cancer itself. Like the previous graph, the upper error begins high and lowers over the first part of the iterations, then plateaus for the remaining iterations. Unlike the previous graph, the error does not eventually reach zero, because we only run it 1000 iterations, under the assumption that it is not likely to be linearly separable if it does not reach zero within that many attempts. With this in mind, we conclude that these data are not linearly separable.