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CS1567 Introduction to Machine Learning
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Problem Assignment 6

Problem 1:

(a) N/A

(b) N/A

(c)

Training

	1	0
1	115	40
0	85	299

Misclassification error: 125/539 = .2319
Sensitivity: 115/(115+85) = .575
Specificity: 299/(299+40) = .8820

	1	0
1	35	11
0	33	150

Misclassification error: 44/229 = .1921
Sensitivity: 35/(35+33) = .5147
Specificity: 150(150+11) = .9316

(d) Assuming that my implementation of the previous homework is correct, it appears that the model for this homework is preforming better on this dataset, it has a lower misclassification error as well as a higher specificity. It does seem that the other models have a comparable or even better sensitivity which could be important for some things. All in all it seems that this model performed the best.

(e) I cannot compare this part, because I was slightly behind last week and have no numbers to compare