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PS2

Problem1:

My code runs regression on the data set both linearly and quadratically. My code chose to go with the quadratic form for the learnlogreg function as it gave a slightly better degree of error however it was only by a small margin. Despite the slightly better precision of the quadratic function, I would have to advise using linear regression instead since the computation is much faster and the degree of error is still very precise. The code can be run and checked via the outputs. To allow my code to make the decisions that it did, I had it run both the linear and quadratic sets, had it pick from a small, medium, and large lambda, then find the error for each one. The errors were eliminated to the smallest weights from the linear and quadratic set. From there my code chose the smaller of the two, being quadratic in this case.