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Assignment Number 2
Instructor: Dr. Pablo Rivas

Math 404L-111: Artifical Intelligence
Due: 2016-09-27

Chapter 3 Section 2

#: 2.1, 2.11, 2.12, 3.1

Exercise 1. *Explain which works better in terms of both E_{out} and computation required.*

Proof. In terms of computational requirements I believe that the second data set requires more computation because of increased area. Because of this more iterations must be run to determine whether something is $+1$ or -1. This is further backed up by the fact that it took more iterations to run through with the second data set than with the first. □

Exercise 2.12. *Write a Python program that solves Problem 2.12 in an iterative manner. If you are feeling adventurous, plot the values of N as the program converges to a steady value of N.*

Proof. You need at least 452957.0 samples. □
