BCH 571 Bioinformatics for Life Scientists

Lab 5

Program 1- (call this lab5.1.py)

Program 1 is designed to give experience with sets. Use the dataset of 100 yeast ORFs from last week (Scer_100genes.nt.txt). Use a set to track all codon pairs that are found in these ORFs. Note that this is a chance to reuse much of the code that you used in lab 4.1. It is quite common that you will reuse parts of programs from prior projects.

Print the set to the screen.

Program 2- (call this lab 5.2.py)

It is important to experiment with Python syntax. In lecture, the question arose as to whether array unpacking copies the information in the array or points to the same memory location as the information in the array. (The distinction is important because we want to know if we change the value in the array if it will change the value in the variable to which we unpacked.) Write a program to determine the answer to this question.