

Homework 4  
Advanced Python Programming  
Due Date: 10/25

1. (*Count occurrences of numbers*) Write a program that reads an unspecified number of integers and finds the ones that have the most occurrences. For example, if you enter **2 3 40 3 5 4 -3 3 3 2 0**, the number 3 occurs most often. Enter all numbers in one line. If not one but several numbers have the most occurrences, all of them should be reported. For example, since 9 and 3 appear twice in the list **9 30 3 9 3 2 4**, both occurrences should be reported.
2. (*Display nonduplicate words in ascending order*) Write a program that prompts the user to enter a text file, reads words from the file, and displays all the non duplicate words in ascending order.
3. (*Count consonants and vowels*) Write a program that prompts the user to enter a text filename and displays the number of vowels and consonants in the file. Use a set to store the vowels **A, E, I, O**, and **U**.