

CS306 – Introduction to Perl
Summer 2005
Homework Assignment #2
Due: June 15th, 2005, 5pm

The homework should be submitted in the form of a zip file which contains one program for each question. Your zip file should be named *firstname-lastname-hw1.zip* and should contain files like *hw2q1*, *hw2q2*, *hw2q3*, etc... Email this zip file to cs306@cis.uab.edu.

1. Create two arrays, @fruit and @color. The first element of @fruit should hold the name of a fruit and the first element of @color should hold the color of that fruit. Then, write a loop to go through the arrays, printing sentences like “A banana is yellow.”. You should have at least four different types of fruit.
2. Take one sentence as input, and print out the words in sorted order. e.g. “Larry Wall invented Perl and saved us all.” produces: “Larry Perl Wall all. and invented saved us”
3. Re-implement #1 using one hash instead of two arrays. Sort output by the fruit names.
4. Allow the user to enter as many lines of text as they want. Keep a count of how many times each word appeared in the input. Print out a list indicating the results. Leave out punctuation for simplicity. An example:
Input:
Why did the chicken cross the road
To get to the other side
Output:
the (3) to (2) why (1) did (1) chicken (1) etc.....
(Note that To and to are counted as the same word. Sort highest count first.)
5. Write a simple library book checkout program. The program should prompt the user “Who is checking out this book?” to which the user will enter a name. The program should keep track of how many books are checked out by each person, and enforce a “3 book maximum” for any one user. The input should loop like this:
Who is checking out this book? Fran
Fran has 1 book checked out.
Who is checking out this book? Hari
Hari has 1 book checked out.
...
Who is checking out this book? Fran
Sorry, Fran already has 3 books!

If the user enters “list”, they should get a full list of how many books everyone has checked out. To exit the program, the user should enter “quit” at the prompt.