Programming in Perl

9/29/2011

Homework assignment (due 10/6/2011,)

Please submit code as well as a sample of the code input and output, if any.

1. Write a program to read in a list of strings into an array until the user types ‘Q’. After the user types ‘Q’ print the total number of lines read as well as the second to last element.
2. Create a list of numbers from 1 to 10. Use foreach() to loop over each number and print the number squared ($num\*\*2)
3. Redo #3, but this time use shift() to print the number cubed ($num\*\*3)
4. Create a list of the letters of the lowercase alphabet and assign it to an array. Then use a foreach loop to print the list in reverse.

Challenge:

Create a program that stores a list of 10 random numbers between 1 and 1000 in an array (hint: rand()). Display the contents of this array, and then allow the user to swap elements of the array by inputting two element indexes until they type ‘Q’ or ‘q’. Redisplay the contents of the array after each swap.

Example input:

Please type the index of first element to swap (Q to quit): 3

Please type the index of the second element to swap: (Q to quit): 8

(This would result in the value in index 3 being put into index 8 and the value in index 8 being put into index 3)