

CS306 – Introduction to Perl

Fall 2005

Homework Assignment #2

Due: Sep 26th, 2005

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, @school and @mascot. The first element of @school should hold the name of a school and the first element of @mascot should hold the mascot of that school. Then, write a loop to go through the arrays, printing phrases like “The Blazers of UAB.”. You should have at least four different schools. (5 pts)

2. Re-implement #1 using one hash instead of two arrays. Also, sort output by the school names. (5 pts)

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3. A local gas station wants to allow its customers to maintain a tab instead of having to pay for their gas each time. Write a program to track customer tabs. The program should prompt the gas station attendant "Customer name:" to which the attendant will enter a name. Then the program will prompt "Cost of gas purchase: " and the attendant will enter a dollar amount like "17.52". The program should keep track of how much gas each person has bought, and enforce a "\$50 maximum" for any one user's tab. (10 pts)

The input should loop like this:

Customer name: Fran

Cost of gas purchase: \$17.52

Fran's tab is now \$17.52

Customer name: Lisa

Cost of gas purchase: \$32.50

Lisa's tab is now \$32.50

Customer name: Lisa

Cost of gas purchase: \$27.19

Sorry, that would exceed the \$50 limit.

If the attendant enters "list", they should get a full list of everyone's tab. To exit the program, the user should enter "quit" at the prompt.

Note: "Fran", "fran" and "fran " should be considered the same user.

Bonus: Build in a payment mode where a user can make a payment to reduce their tab account. (4 pts)