

Website has not been updated (other than What's New? daily) so the question may be what is due and when. This is a brief review and summary of that as we get ready for the exam next week.

Homework One: Apache running

Homework Two: CGI/Perl or CGI/Python client-side state program

Homework Three: (take a look in the book, although it's not that).

Homework Four: rewrite Homework Two in PHP with/without sessions

Homework Five: server-side state version of Homework Two (keep the language Python or Perl whatever you used and find a way to store session data in MySQL). Perl/DBI might be something you need to learn, as well as new and creative ways to generate, associate and properly remember/use IDs

<http://www.cs.indiana.edu/classes/a348-dger/fall2004/notes/Eleven.html>

<http://www.cs.indiana.edu/classes/a348-dger/fall2004/notes/Ten.html>

Chapter 11 in the .pdf also works towards that.

Anything needed to make Homework Five work with MySQL is your Homework Three.

That means:

- a) design a table to hold the state variables of the problem
- b) design the SQL for populating and updating this table with data

So for the exam you need to be able to solve problems like you've seen so far (Hangman, guess the secret number, addition quiz, flag quiz, cardgame etc.) in one of three ways used in Homework Two and Four. More information will be send by e-mail individually during the weekend with the feedback from the test on Thu. The exam will be a combination of take-home with closed-book as explained. The notes below show a progression of problems you should be able to think of, write, in PHP or CGI/Python or CGI/Perl with client-side state or server-side state.

Problems (indexed by stages of complexity, I suppose)

Stage One: The Big Bang

Welcome, you have clicked the button 0 times.

Proceed

Stage Two: Two Buttons

Welcome, you have clicked the button 0 times

Up Down

Stage Three: Bigger State

Now you have clicked the button 8 times. Balance is 2

Up Down

Stage Four: More Complicated Input

Now you have clicked the button 4 times. Balance is 3

Enter here the amount: 5

Up Down

Stage Five: More Complicated State

(4, 3) Dilbert's hand

Deck: 1,6,1,12,12,3,11,11,1,9,0,3,0,4,10,7,4,3,6,2,6,5,5,10,7,10

Player	Current score	Hand	Player Deck
Dilbert:	47	4	3,4,2,10,4,9,7,8,
Ratbert:	116	3	12,0,2,1,9,8,8,0,12,5,11,2,11,8,7,6,9,5,

Press to move on.

Stage Six: A Reasonable Problem

Write a program that asks random addition questions:

Welcome. What is $44 + -18$?

Please enter your answer here:

Press

If I answer correctly I get a point and a new question:

Welcome. What is $44 + -18$?

Please enter your answer here:

Press

When I press Proceed I see that:

You won.

User: 1, Computer: 0

What is $9 + -12$?

Please enter your answer here:

Press

If I miss the answer I am given two more chances on the same problem:

Keep going. You have 2 more attempts.

What is $9 + -12$?

Please enter your answer here:

Press

If I answer it correctly before the last allowed try I get a point and lose nothing:

You won.

User: 2, Computer: 0

What is $48 + -39$?

Please enter your answer here:

Press

If you miss three times in a row you lose the point:

You just lost.

User: 2, Computer: 1

What is $22 + 26$?

Please enter your answer here:

Press

This last program is available for you to play with it at:

<http://www.cs.indiana.edu/classes/a290-web/sum2008/a290/example.html>

It's written in Javascript but still follows the template we've been working on so far.