CS197U: A Hands on Introduction to Unix

Lecture 6: Programming & Scripting Continued!

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Reminders

• Grades for Assignments 1 & 2 will be posted this weekend.
• Assignment 3 should be turned in
• Assignment 4 will be posted Thursday
• Let me know if you’re skipping one of them
• Last time:
  • Sed, awk
  • Scripting!
Outline

• Scripting
• Scripting
  • More scripting
• Today is a Club day!
DON'T GET HIT BY AN ICE CREAM TRUCK

• Be Careful with your system
  – Particularly chmod and rm
Scripting Challenges

• Choose partner wisely
  – Candy on the line
• First team with correct answer wins
• Multiple Solutions
• NO INTERNET!
Platinum Tip

- $# - represents command line arguments
- $1 – represents first argument
Challenge 1

Write a script that will add two numbers (taken as arguments from the command line). If two numbers are not given print an error and the correct usage.
Challenge 2

Write a script to determine if a given file exists.
Be sure to implement error checking.
Challenge 3

Write script to find the biggest number out of three given numbers (taken at command line). Again if numbers are not given, print error message.
Challenge 4

• Write script to print out 11,12,13,14,15 using a while loop
Challenge 5

Write script, using if statements to perform basic math operators
+ - addition
- - subtraction
x- multiplication
/ - division

Sample run
./math.sh 5 * 5
25
Challenge 6

Write a script that prints from a given line number a given number of lines. For example, how do I print the next 5 lines starting at the 5th line?
Challenge 7

- Write a script to print out current user, date, time, and current directory.
Challenge 8

Write a script to print out a given number in reverse order.

Ex ./reverse.sh 1212
2121
Challenge 9

Write a script that performs decimal calculations. i.e \( a = 12.34 \) \( b = 7.16 \) \( c = a+b \)

Hint use Linux's bc command
Challenge 10

Edit your operators shell file to now be able to handle decimal calculations