

CS23021 Computer Science I

Project #1

Due by 11:59pm on Wednesday, September 13, 2006

Objective

This project should be done individually. In this project you will subscribe to the course's mailing list, use `gdb` as well as the versioning system `subversion`. You will use `gdb` to trace a program called `echoinput`. `echoinput` asks user to input a number and then prints this number. The project is worth the total of 20 points.

Project step-by-step

- **set up your account and learn versioning software:** attend the lab session, learn to login to your account and use `subversion`.
- **check out and compile the program:** check out with `subversion` file `echoinput.cpp` from http://classes.cs.kent.edu/svn/cs23021/mikhail/cs23021_shared/Project1/ compile the program with tracing information enabled.
- **trace the program:** as a proof that you successfully traced the program you will submit the transcript of the tracing session. The utility that makes transcripts is called `script`. Start the scripting utility:

```
prompt% script
```

Output:

```
Script started, file is typescript
```

Indicates that the utility has started successfully. Now, everything that appears on the screen will be copied to file `typescript`

Launch the debugger (`gdb`), set a breakpoint at the beginning of the program and trace line-by-line the execution of the program. While tracing print the value of variable `number` **before** and **after** it was assigned user input. Quit the debugger after the program terminates.

Exit from `script` by typing:

```
prompt% exit
```

Output:

```
Script done, file is typescript
```

Indicates that `script` has finished successfully and your tracing session is saved in the file.

- **subscribe to the course's mailing list:** to subscribe to the mailing list follow the link [how to subscribe](#) on the course's webpage. One clarification: when sending your subscription request make sure you put "subscribe" anywhere in the subject or in the body of the message. If your subscription was successful you should receive a message from the automatic subscription system with `Welcome to cs23021` in the subject. Save this message in the file `welcome`.
- **submit your project:** create directory `Project1`. Store files `typescript` and `welcome` there. Check in this directory to <http://classes.cs.kent.edu/svn/cs23021/mikhail/yourlogin/Project1/>
- **check your project submission:** verify your submission on the web at <http://classes.cs.kent.edu/svn/cs23021/mikhail/yourlogin/Project1/>