CSC209H Worksheet: Compiling and Running Programs

To make sure you understand the terminology we have been using, answer the following questions and then discuss your answers with two or three people sitting nearby.

1. Suppose you have a program named prog.c. What is the instruction you would type on the command line to compile this program and create an executable named prog?
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2. For each of the arguments you gave to the gcc command, write down what it means.
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2. For each of the arguments you gave to the gcc command, write down what it means. Printall warnings give the
executable flethename prog
3. Now that you have an executable named prog in your current working directory give the command to run that executable will something expect executable will be something the command to run that
-/prog -k 3 mystle https://powcoder.com
- https://powcoder.com
4. Assume that the executable is in your parent directory, give the command to run this executable without any

4. Assume that the executable is in volvered different give the command by the this executable without any command-line arguments.

··/prog

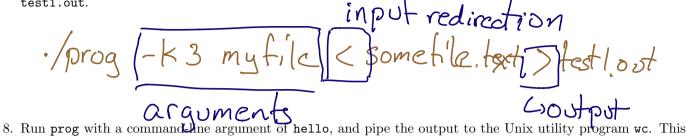
5. Assume you have changed back into the same directory as the executable. Give the command to run the executable where the resulting output is redirected to a file named test1.out.

·/prog > test.ost

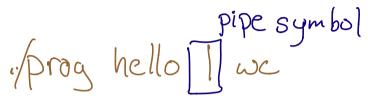
6. When you run the program, it interacts with the user expecting the user to type input. Imagine that up until now you've been providing input from the keyboard. Give the command to run the program and redirect the input so that the executable reads from the file somefile.txt.

· / Prog < somefile.txt

7. Put it all together. Show the command to run the executable prog with the command-line arguments -k 3 myfile, reading input from standard input redirected from somefile.txt and redirecting the output to test1.out.



allows you to count the number of lines, words, and characters this program outputs.



9. Write a shell command to remove all the files in the current working directory that end in .o

Assignment Project Exam Help

10. Suppose you have a directory with a bunch of C source code files. You would like to print out all the unique #include files there are indicated in the pomorphic discharge programment, sort, uniq and pipes to display the unique list of include lines.

For example, when I run the full pipeline of commands on the files in /u/csc209h/winter/pub/bin, the output is:

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#include <dirent.h> #include "helper.h" #include <stdio.h> #include <stdlib.h> #include <string.h> #include <sys/stat.h> #include <sys/types.h> #include <sys/wait.h> #include <unistd.h>

- grep should look only in files that end in .c
- Look at the output of your grep command. Which character could you use as a field delimiter to isolate the include part of the line from the filename that grep also outputs?
- If you haven't used cut before, you will want to look at the man page. Run man cut to read how this command works.
- Build up each component of the pipeline one command at a time and see if the output is what you would expect.

grep include /v.../bin/x.c | cot-d":11-f2 I sort I uniq (all on one line)