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Lab 5 Problem 2

Two custom shell commands:

1. My first custom command is used to calculate the length of a string entered through the shell by the user. The command is in the format "len <string>", where <string> is the string that the user wants to measure. In my code, I check for the user input "len" and set my option variable a to 2. In the if-else statement, I first set the value of j = 2. Then, if a ==2, then I increment a counter j for each position after "len " until I reach the end of the line ("\0" null character). I then print the length of the string entry with a parameter of j-4, which represents the string length.

2. My second custom command is used as a shortcut to access grades. The command is simply in the format "grade", thus, when the user enters "grade" on the command line, I set my option variable a to 3. In the if-else statement, I run: system("xdg-open /u/data/u3/park/pub/cs240/grades/kahlonr/"); This is useful because, whenever I need to check my grades, I don't need to enter the full url, which can become a hassle. Instead, I simply enter "grade" and have complete access to my grades with a concise one-word command.