

CSCI-7645: Practice Problem Set 4

Fairleigh Dickinson University Vancouver
Fall 2023

Problems

1. Implement a program in which a parent process writes a string of any length (up to a maximum) to a pipe, and a child process reads that string from the pipe and prints out the length of the string. Test this program out with the following strings:
 - (a) `Hello World!` The length should be 12.
 - (b) `Linux Programming` The length should be 17.
2. Implement a program in which a parent process writes a string of any length (up to a maximum) to a “request” pipe, and a child process reads the string from the pipe, converts it to uppercase, and sends the result to the parent using a “response” pipe. Test this program out with the same test cases as the previous problem.