

A Trivial Client-Server Application

Download the starter code for this worksheet from eClass. There are two files: `reader.cpp` and `processor.cpp`. You will edit `processor.cpp`, which is a simple server that performs arithmetic operations on data sent by clients through a pipe. In `reader.cpp`, we use `cin` to read an integer from `stdin` and convert it to string. We then write the resulting string digit-by-digit to a named pipe.

Complete the code given in `processor.cpp` to read this string digit-by-digit from the same pipe, convert to an integer, divide it by two (using integer division), and finally print the result to `stdout`.