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#include <iostream>
#include <cstdlib>
#include <cstring>
#include <cerrno>
#include <unistd.h>
#include <fcntl.h>
#include <string>

using std::cout;
using std::endl;
using std::cin;
using std::string;

/**
 *used when the argument is a file, reads in the file and prints it to the
screen
 */
void print(const char* filename)
{
    int fd = open(filename, O_RDONLY); //don's forget to close
    if (fd != -1)
    {
        const int BUFF_SIZE = 1024;
        char buffer [BUFF_SIZE];
        int n = 0;

        while ((n = read(fd, buffer, BUFF_SIZE)) > 0)
        {
            buffer[n] = '\0';
            write(STDOUT_FILENO, buffer, n);
        }
        close(fd);
    }
    else
    {
        cout << "Could not open " << filename << "\nerror: " << strerror(errno) <<
endl;
    }
}

/**
 *main method where every argument is handled.
 */
int main(const int argc, const char * argv[]){

    if(argc == 1)
    {
        const int BUFF_SIZE = 1024;
        char buffer [BUFF_SIZE];
        int n = 0;

        while ((n = read(STDIN_FILENO, buffer, BUFF_SIZE)) > 0)
        {

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        buffer[n] = '\\0';
        write(STDOUT_FILENO, buffer, n);
    }

}

for(int i = 1; i < argc; i++)
{
    const char * filename = argv[i];
    string sentence;
    if (strcmp(filename, "-") == 0)
    {
        const int BUFF_SIZE = 1024;
        char buffer [BUFF_SIZE];
        int n = 0;

        while ((n = read(STDIN_FILENO, buffer, BUFF_SIZE)) > 0)
        {
            buffer[n] = '\\0';
            write(STDOUT_FILENO, buffer, n);

        }
    }
    else
    {
        print(filename);
    }
}

}

```