#include <stdio.h>

#include <sys/stat.h>

#include <sys/types.h>

#include <fcntl.h>

#include <unistd.h>

#include <string.h>

#define FIFO\_FILE "fifo\_twoway"

int main() {

int fd;

int end\_process;

int stringLen;

int read\_bytes;

char read\_buf[80];

char end\_str[5];

printf("FIFO\_CLIENT: Send messages, infinitely, to end enter \"end\"\n");

fd = open(FIFO\_FILE, O\_CREAT|O\_RDWR);

strcpy(end\_str, "end");

while (1) {

printf("Enter a string: ");

fgets(read\_buf, sizeof(read\_buf), stdin);

stringLen = strlen(read\_buf);

read\_buf[stringLen - 1] = '\0';

end\_process = strcmp(read\_buf, end\_str);

if (end\_process != 0) {

write (fd, read\_buf, strlen(read\_buf));

printf("FIFOCLIENT: Sent string: \"%s\" and string length is %d\n", read\_buf, (int)strlen(read\_buf));

read\_bytes = read(fd, read\_buf, sizeof(read\_buf));

read\_buf[read\_bytes] = '\0';

printf("FIFOCLIENT: Received string: \"%s\" and length is %d\n", read\_buf, (int)strlen(read\_buf));

}

else {

write(fd, read\_buf, strlen(read\_buf));

printf("FIFOCLIENT: Sent string: \"%s\" and string length is %d\n", read\_buf, (int)strlen(read\_buf));

close(fd);

break;

}

}

return 0;

}