Purpose: This assignment provides experience with the Unix protection mechanisms.

You will need a partner for the last part of this assignment.

Make a copy of homework 2 `copy.c` called `copy2.c`.

1) Remove the use of `argv[2]`, the destination file name should always be `xfer.tmp` in your home directory (To determine your home directory use `pwd`.) Make sure you start the path name with a `/`

2) Compile the program, test it from your account.

3) Modify the protections of your home directory with `chmod 711 ~`

4) Add `getuid` and `geteuid` calls to the front of your code. Print the two numbers.

Now do the following two tests with a partner.

5) Have the partner run your program `~yourlogin/copy.out`
It should fail.

6) Change the mode of your `copy.out` to `4711` Have your partner run the program again. It should work.

Demo: The Instructor would like to see a demo of the last 2 tests. Make sure to test them first before the demo.