

```
ang24@unix1:~/453/lab1 $ ./osh
osh> ls
a.txt  in.txt  Makefile  osh  osh.c  oshv1.c  out.txt  test.txt
osh> cd ..
osh> ls
lab1
osh> cd lab1
osh> ls
a.txt  in.txt  Makefile  osh  osh.c  oshv1.c  out.txt  test.txt
osh> cat in.txt|sort
a
b
g
q
s
z
osh> cat in.txt
g
b
s
a
z
q
osh> sort<in.txt
a
b
g
q
s
z
osh> ls
a.txt  in.txt  Makefile  osh  osh.c  oshv1.c  out.txt  test.txt
osh> ls>out2.txt
osh> cat out2.txt
a.txt
in.txt
Makefile
osh
osh.c
oshv1.c
out2.txt
out.txt
test.txt
osh> ls
a.txt  in.txt  Makefile  osh  osh.c  oshv1.c  out2.txt  out.txt  test.txt
osh> !!
ls
a.txt  in.txt  Makefile  osh  osh.c  oshv1.c  out2.txt  out.txt  test.txt
osh> !!
ls
a.txt  in.txt  Makefile  osh  osh.c  oshv1.c  out2.txt  out.txt  test.txt
osh> exit
exiting program...
ang24@unix1:~/453/lab1 $ ./osh
osh> !!
No commands in history.
```