Learning Perl

Exercises 13

https://github.com/onevcat/LearningPerl
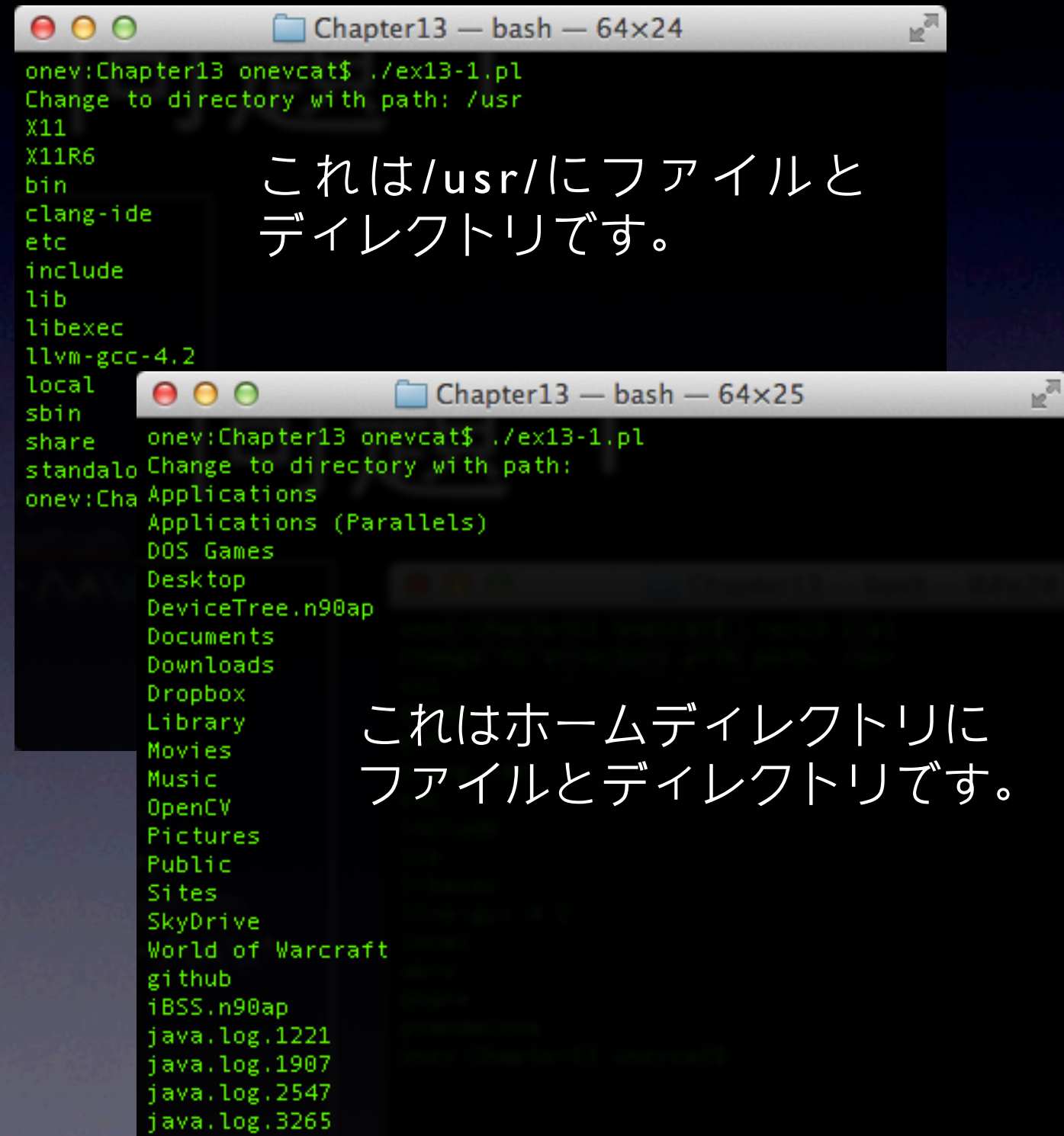
王巍

問題 1

ソースコード:

```perl
#! /usr/bin/perl
use strict;

print "Change to directory with path: ";
chomp ( my $folederPath = <STDIN>);
### Try to change the dir to $folederPath
my $dirChanged = ($folederPath =~ /\A\s*
\z/) ? chdir : chdir $folederPath;

if ($dirChanged) {
    foreach (sort glob '*') {
        print "$_\n";
    }
}
else {
    die "Change DIR Failed! $!";
}
```

```
● ● ●            Chapter13 — bash — 64×24
onev:Chapter13 onevcat$ ./ex13-1.pl
Change to directory with path: /usr
X11
X11R6
bin
clang-ide
etc
include
lib
libexec
llvm-gcc-4.2
local
sbin
share
standalo
onev:Cha
```

これは/usr/にファイルと
ディレクトリです。

```
● ● ●            Chapter13 — bash — 64×25
onev:Chapter13 onevcat$ ./ex13-1.pl
Change to directory with path:
Applications
Applications (Parallels)
DOS Games
Desktop
DeviceTree.n90ap
Documents
Downloads
Dropbox
Library
Movies
Music
OpenCV
Pictures
Public
Sites
SkyDrive
World of Warcraft
github
iBSS.n90ap
java.log.1221
java.log.1907
java.log.2547
java.log.3265
```
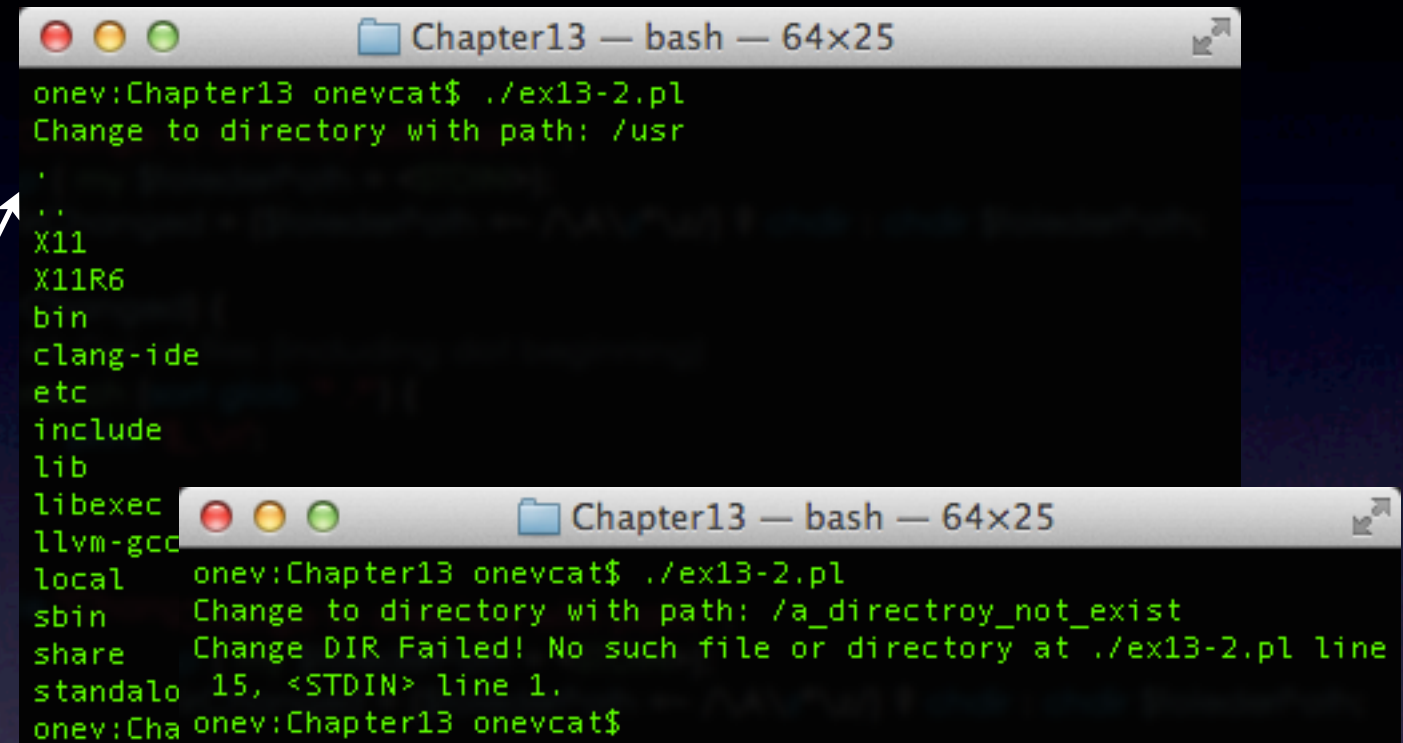
これはホームディレクトリに
ファイルとディレクトリです。

問題 2

ソースコード :
```perl
#! /usr/bin/perl
use strict;

print "Change to directory with path: ";
chomp ( my $folederPath = <STDIN>);
my $dirChanged = ($folederPath =~ /\A\s*
\z/) ? chdir : chdir $folederPath;

if ($dirChanged) {
    ### Get all files (including dot beginning)
    foreach (sort glob '* .*') {
        print "$_\n";
    }
}
else {
    die "Change DIR Failed! $!";
}
```

'*'マーク

```
● ● ●              Chapter13 — bash — 64×25
onev:Chapter13 onevcat$ ./ex13-2.pl
Change to directory with path: /usr
.
..
X11
X11R6
bin
clang-ide
etc
include
lib
libexec        ● ● ●              Chapter13 — bash — 64×25
llvm-gcc
local          onev:Chapter13 onevcat$ ./ex13-2.pl
sbin           Change to directory with path: /a_directroy_not_exist
share          Change DIR Failed! No such file or directory at ./ex13-2.pl line
standalo       15, <STDIN> line 1.
onev:Cha       onev:Chapter13 onevcat$
```

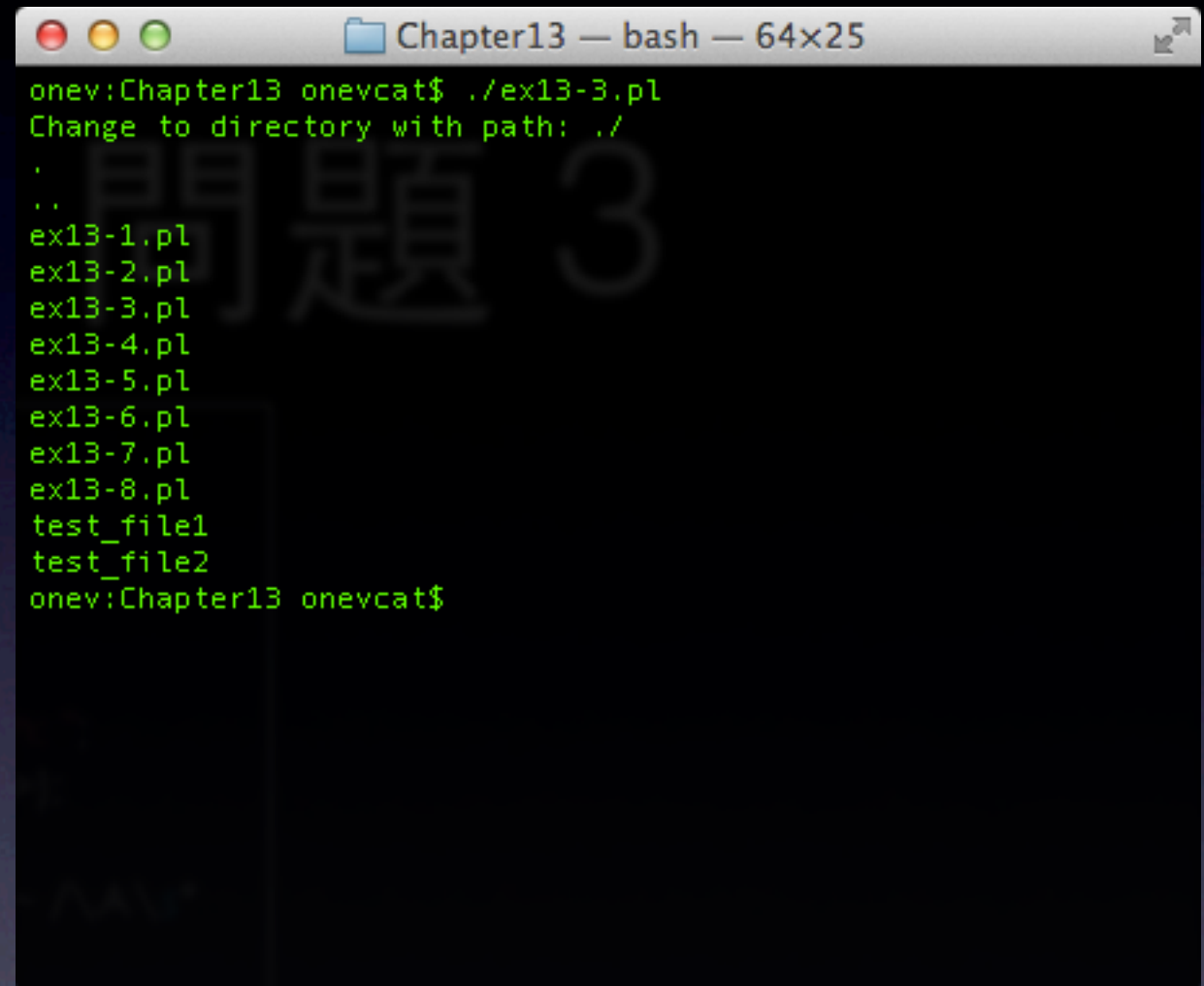ディレクトリが存在しないの場合、
エラーメッセージを表示します

問題 3

ソースコード :

```perl
#! /usr/bin/perl
use strict;

print "Change to directory with path: ";
chomp ( my $folederPath = <STDIN>);

my $dirChanged = ($folederPath =~ /\A\s*
\z/) ? chdir : chdir $folederPath;

### Open current folder
opendir my $folderHandle, "." or die "Change
DIR Failed! $!";
### and read the file list
foreach (sort readdir $folderHandle) {
    print "$_\n";
}
```

```
onev:Chapter13 onevcat$ ./ex13-3.pl
Change to directory with path: ./
.
..
ex13-1.pl
ex13-2.pl
ex13-3.pl
ex13-4.pl
ex13-5.pl
ex13-6.pl
ex13-7.pl
ex13-8.pl
test_file1
test_file2
onev:Chapter13 onevcat$
```
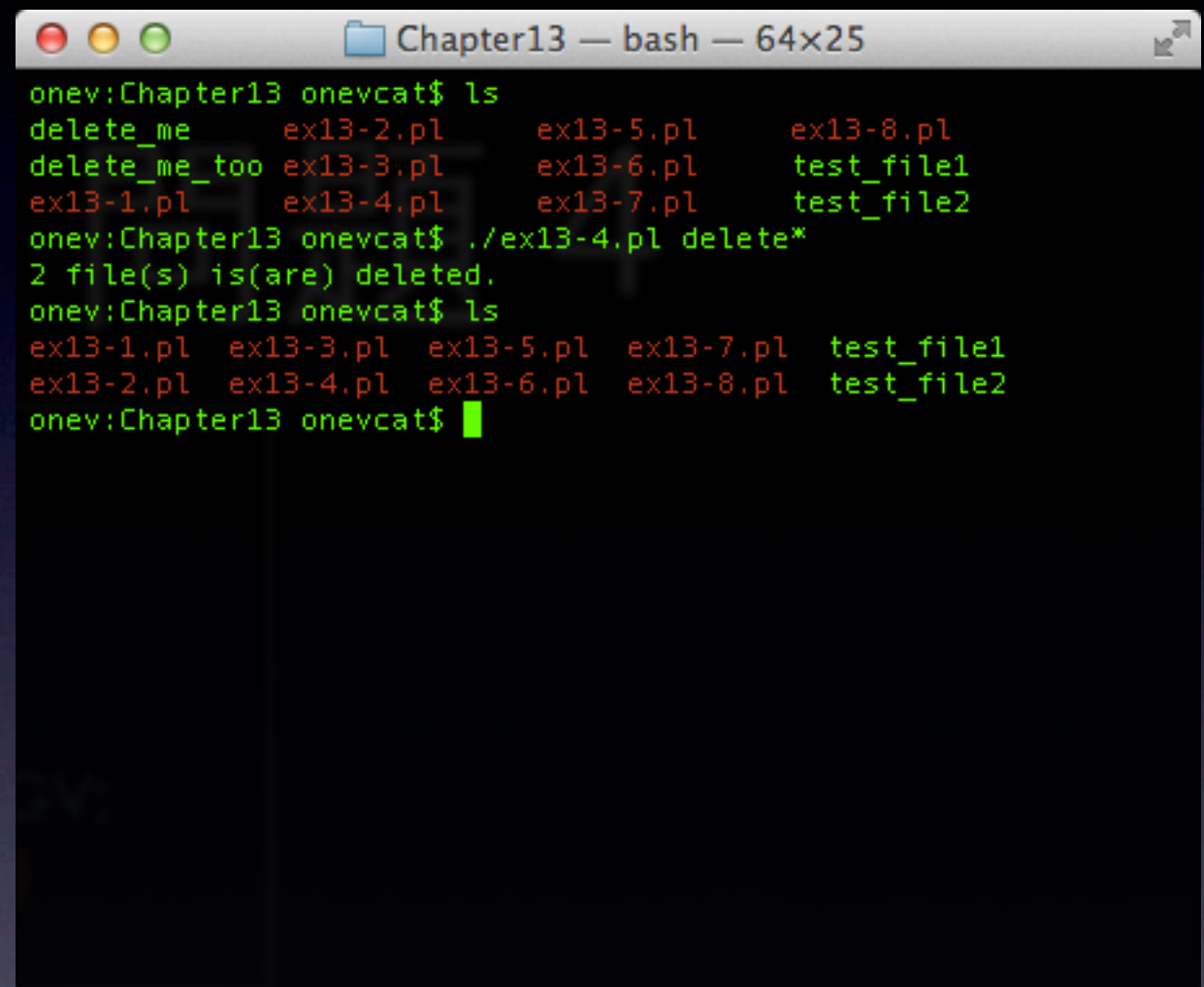
問題 4

ソースコード:

```perl
#! /usr/bin/perl
use strict;

my $number = unlink @ARGV;
print "$number file(s) is(are) deleted.\n";
```
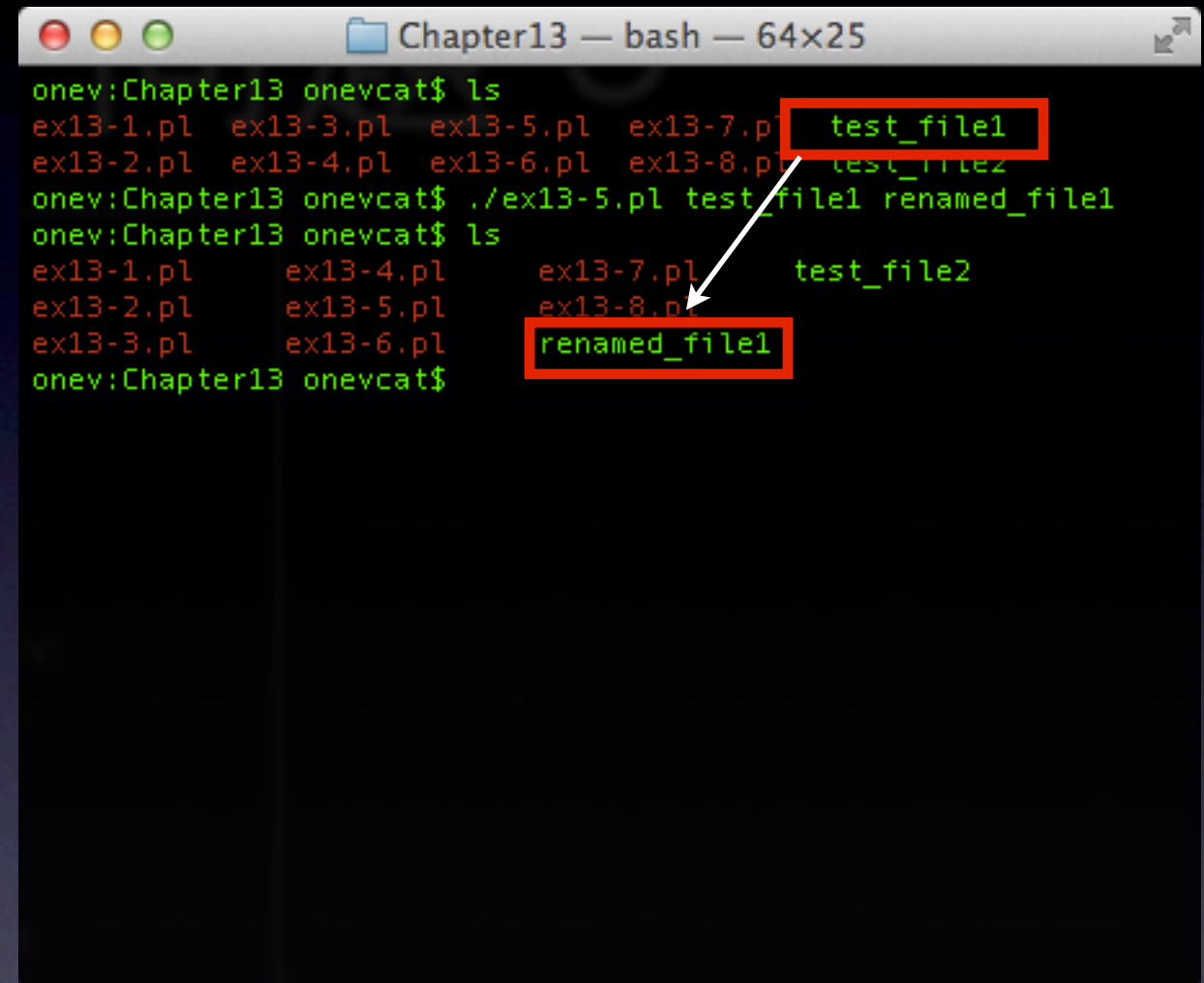
```
onev:Chapter13 onevcat$ ls
delete_me        ex13-2.pl     ex13-5.pl      ex13-8.pl
delete_me_too    ex13-3.pl     ex13-6.pl      test_file1
ex13-1.pl        ex13-4.pl     ex13-7.pl      test_file2
onev:Chapter13 onevcat$ ./ex13-4.pl delete*
2 file(s) is(are) deleted.
onev:Chapter13 onevcat$ ls
ex13-1.pl  ex13-3.pl  ex13-5.pl  ex13-7.pl  test_file1
ex13-2.pl  ex13-4.pl  ex13-6.pl  ex13-8.pl  test_file2
onev:Chapter13 onevcat$
```
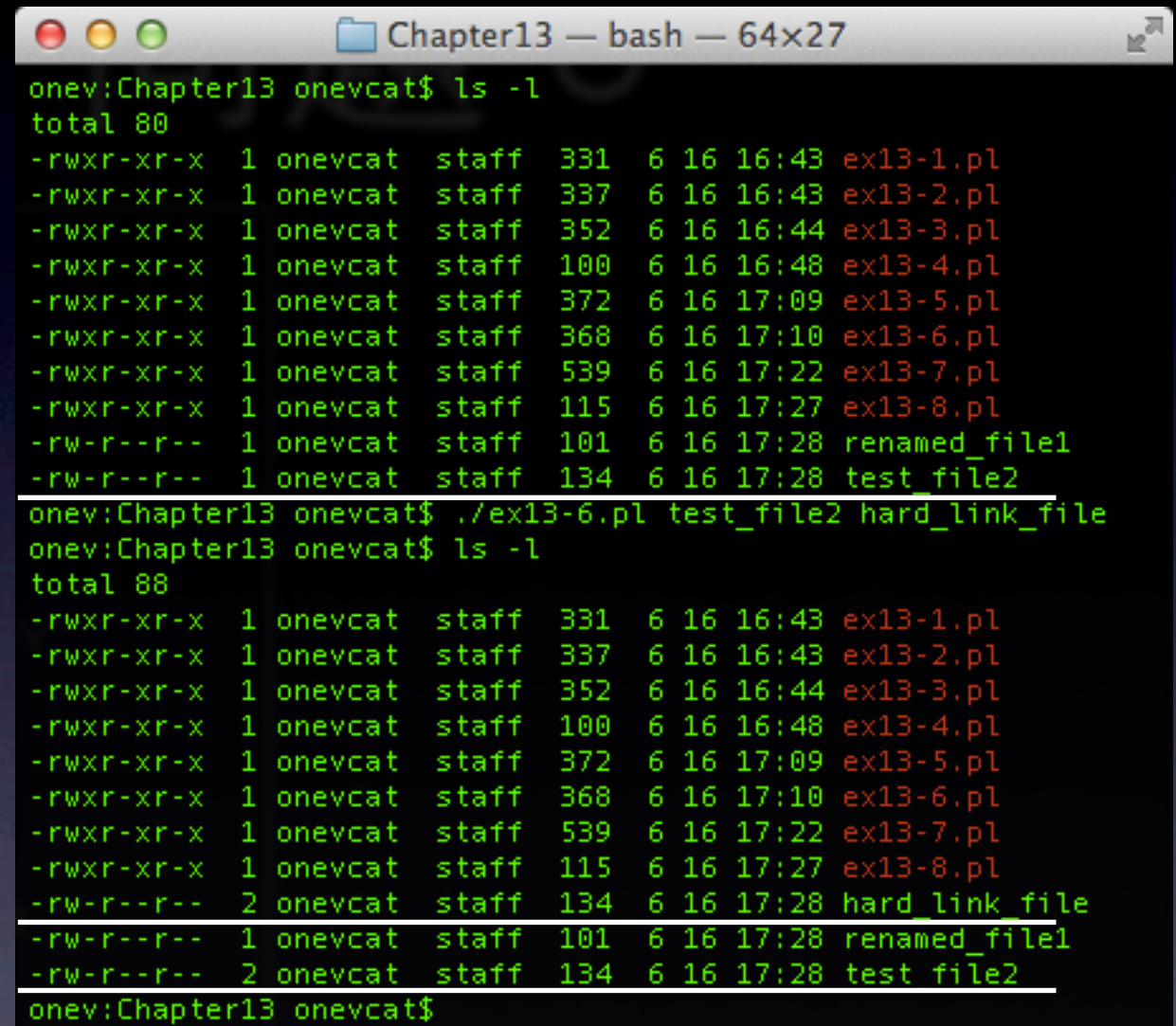
問題 5

ソースコード：

```
#! /usr/bin/perl
use strict;
use File::Basename;
use File::Spec;

my ($source, $destination) = @ARGV;
### source: $source
### destination: $destination
if (-d $destination) {
    ### destination is a directory.
    $destination = File::Spec->catfile
($destination, basename $source);
    ### destination: $destination
}
rename $source, $destination or die "Rename
File error. $!";
```

問題 6

ソースコード :

```perl
#! /usr/bin/perl
use strict;
use File::Basename;
use File::Spec;

my ($source, $destination) = @ARGV;
### source: $source
### destination: $destination
if (-d $destination) {
    ### destination is a directory.
    $destination = File::Spec->catfile
($destination, basename $source);
    ### destination: $destination
}
link $source, $destination or die "Link File error.
$!";
```

```
● ● ●                Chapter13 — bash — 64×27

onev:Chapter13 onevcat$ ls -l
total 80
-rwxr-xr-x  1 onevcat  staff  331  6 16 16:43 ex13-1.pl
-rwxr-xr-x  1 onevcat  staff  337  6 16 16:43 ex13-2.pl
-rwxr-xr-x  1 onevcat  staff  352  6 16 16:44 ex13-3.pl
-rwxr-xr-x  1 onevcat  staff  100  6 16 16:48 ex13-4.pl
-rwxr-xr-x  1 onevcat  staff  372  6 16 17:09 ex13-5.pl
-rwxr-xr-x  1 onevcat  staff  368  6 16 17:10 ex13-6.pl
-rwxr-xr-x  1 onevcat  staff  539  6 16 17:22 ex13-7.pl
-rwxr-xr-x  1 onevcat  staff  115  6 16 17:27 ex13-8.pl
-rw-r--r--  1 onevcat  staff  101  6 16 17:28 renamed_file1
-rw-r--r--  1 onevcat  staff  134  6 16 17:28 test_file2
onev:Chapter13 onevcat$ ./ex13-6.pl test_file2 hard_link_file
onev:Chapter13 onevcat$ ls -l
total 88
-rwxr-xr-x  1 onevcat  staff  331  6 16 16:43 ex13-1.pl
-rwxr-xr-x  1 onevcat  staff  337  6 16 16:43 ex13-2.pl
-rwxr-xr-x  1 onevcat  staff  352  6 16 16:44 ex13-3.pl
-rwxr-xr-x  1 onevcat  staff  100  6 16 16:48 ex13-4.pl
-rwxr-xr-x  1 onevcat  staff  372  6 16 17:09 ex13-5.pl
-rwxr-xr-x  1 onevcat  staff  368  6 16 17:10 ex13-6.pl
-rwxr-xr-x  1 onevcat  staff  539  6 16 17:22 ex13-7.pl
-rwxr-xr-x  1 onevcat  staff  115  6 16 17:27 ex13-8.pl
-rw-r--r--  2 onevcat  staff  134  6 16 17:28 hard_link_file
-rw-r--r--  1 onevcat  staff  101  6 16 17:28 renamed_file1
-rw-r--r--  2 onevcat  staff  134  6 16 17:28 test_file2
onev:Chapter13 onevcat$
```
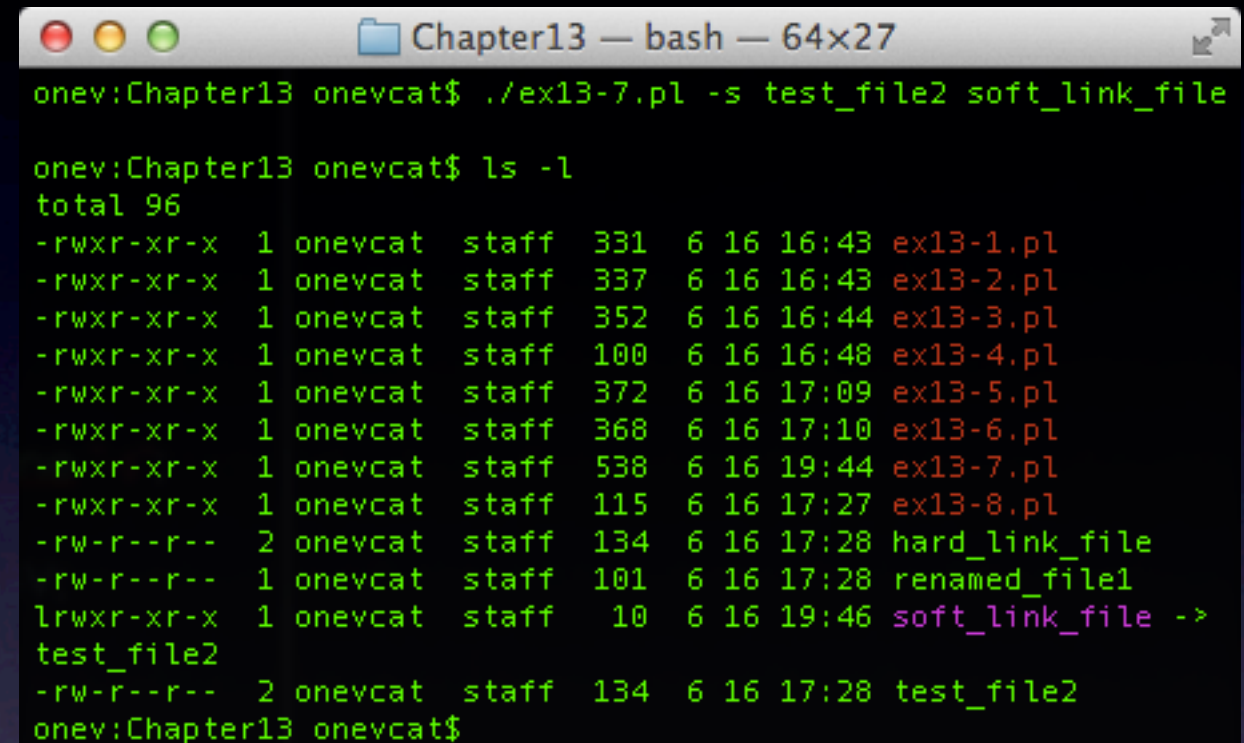
問題 7

ソースコード :

```perl
#! /usr/bin/perl
use strict;
use File::Basename;
use File::Spec;

my $softArg = shift @ARGV;
unshift @ARGV, $softArg if $softArg ne "-s";

my ($source, $destination) = @ARGV;

if (-d $destination) {
    ### destination is a directory.
    $destination = File::Spec->catfile
($destination, basename $source);
}
if ($softArg eq "-s") {
    symlink $source, $destination or die "Link
File error. $!";
}
else {
    link $source, $destination or die "Link File
error. $!";
}
```

```
● ● ●          🗀 Chapter13 — bash — 64×27
onev:Chapter13 onevcat$ ./ex13-7.pl -s test_file2 soft_link_file

onev:Chapter13 onevcat$ ls -l
total 96
-rwxr-xr-x  1 onevcat  staff  331  6 16 16:43 ex13-1.pl
-rwxr-xr-x  1 onevcat  staff  337  6 16 16:43 ex13-2.pl
-rwxr-xr-x  1 onevcat  staff  352  6 16 16:44 ex13-3.pl
-rwxr-xr-x  1 onevcat  staff  100  6 16 16:48 ex13-4.pl
-rwxr-xr-x  1 onevcat  staff  372  6 16 17:09 ex13-5.pl
-rwxr-xr-x  1 onevcat  staff  368  6 16 17:10 ex13-6.pl
-rwxr-xr-x  1 onevcat  staff  538  6 16 19:44 ex13-7.pl
-rwxr-xr-x  1 onevcat  staff  115  6 16 17:27 ex13-8.pl
-rw-r--r--  2 onevcat  staff  134  6 16 17:28 hard_link_file
-rw-r--r--  1 onevcat  staff  101  6 16 17:28 renamed_file1
lrwxr-xr-x  1 onevcat  staff   10  6 16 19:46 soft_link_file ->
test_file2
-rw-r--r--  2 onevcat  staff  134  6 16 17:28 test_file2
onev:Chapter13 onevcat$
```
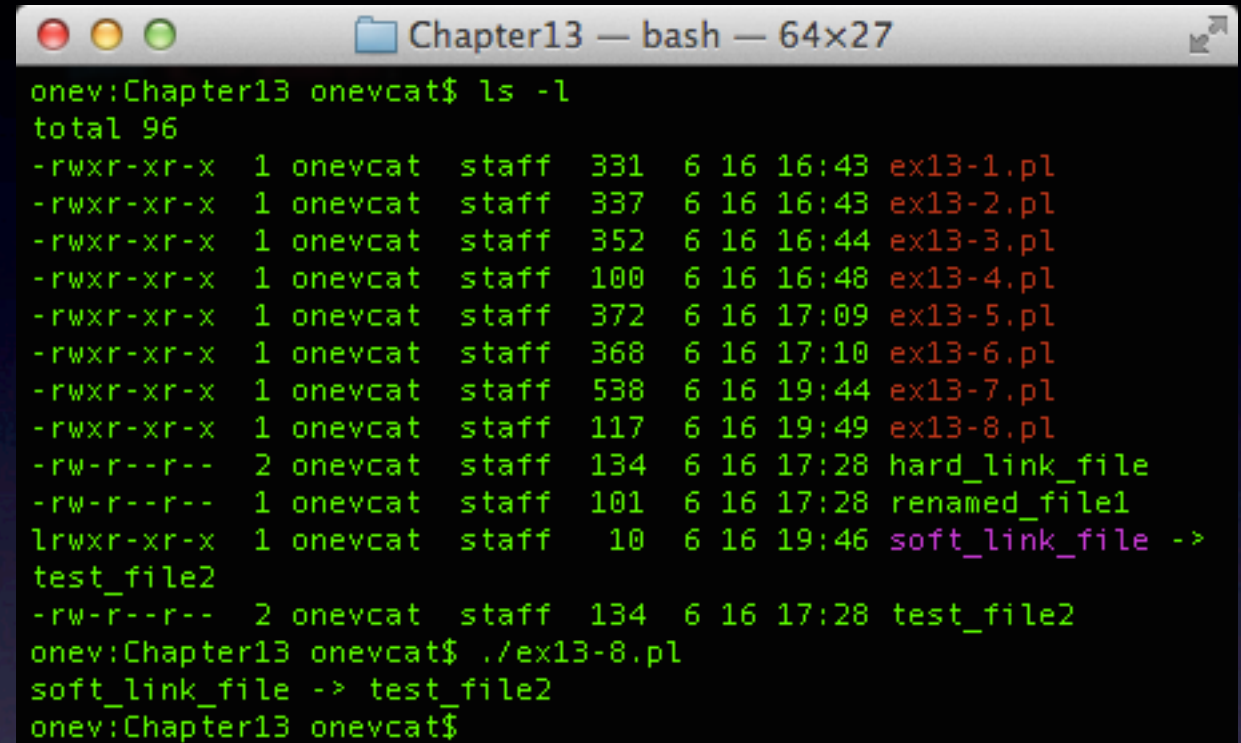
問題 8

ソースコード :

```perl
#! /usr/bin/perl
use strict;

foreach (glob '* .*') {
    if (-l) {
        my $des = readlink;
        print "$_ -> $des\n";
    }
}
```

```
● ○ ○              📁 Chapter13 — bash — 64×27
onev:Chapter13 onevcat$ ls -l
total 96
-rwxr-xr-x  1 onevcat  staff   331  6 16 16:43 ex13-1.pl
-rwxr-xr-x  1 onevcat  staff   337  6 16 16:43 ex13-2.pl
-rwxr-xr-x  1 onevcat  staff   352  6 16 16:44 ex13-3.pl
-rwxr-xr-x  1 onevcat  staff   100  6 16 16:48 ex13-4.pl
-rwxr-xr-x  1 onevcat  staff   372  6 16 17:09 ex13-5.pl
-rwxr-xr-x  1 onevcat  staff   368  6 16 17:10 ex13-6.pl
-rwxr-xr-x  1 onevcat  staff   538  6 16 19:44 ex13-7.pl
-rwxr-xr-x  1 onevcat  staff   117  6 16 19:49 ex13-8.pl
-rw-r--r--  2 onevcat  staff   134  6 16 17:28 hard_link_file
-rw-r--r--  1 onevcat  staff   101  6 16 17:28 renamed_file1
lrwxr-xr-x  1 onevcat  staff    10  6 16 19:46 soft_link_file ->
test_file2
-rw-r--r--  2 onevcat  staff   134  6 16 17:28 test_file2
onev:Chapter13 onevcat$ ./ex13-8.pl
soft_link_file -> test_file2
onev:Chapter13 onevcat$
```