

ECE-357 Assignment #2 Program Running Samples

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Program Compiling:

```
gcc find.c -o find
```

Some Running Samples:

1. Command without any option: ./find starting_path

```
((base) Davids-MacBook-Pro:Desktop davidmei$ gcc find.c -o find
((base) Davids-MacBook-Pro:Desktop davidmei$ ./find test_direc
4348488      0 drwxr-xr-x      5 davidmei      staff      160 Oct  2 01:28 test_direc
4484005      8 -rw-r--r--      1 davidmei      staff      6148 Oct  2 00:14 test_direc/.DS_Store
4487764      4 -rw-r--r--      1 davidmei      staff      19 Oct  2 01:28 test_direc/testfile
4352430      0 drwxr-xr-x      3 davidmei      staff      96 Sep 29 02:08 test_direc/test_direc2
4352450      4 -rw-r--r--      1 davidmei      staff      12 Sep 29 02:08 test_direc/test_direc2/testfile2
```

2. Command with options: ./find options starting_path (if no starting_path is specified, starting_path's default path is '.')

```
((base) Davids-MacBook-Pro:Desktop davidmei$ ./find -v -m -900
1122390      0 drwx-----      14 davidmei      staff      448 Oct  2 13:32 .
1132436      12 -rw-r--r--      1 davidmei      staff      10244 Oct  2 13:30 ../DS_Store
4499173     2516 -rwxr-xr-x      1 davidmei      staff      2066042 Oct  2 13:27 ../Error Report 2.pages
4499494      16 -rwxr-xr-x      1 davidmei      staff      14176 Oct  2 13:32 ./find
4499389      0 drwxr-xr-x      5 davidmei      staff      160 Oct  2 13:31 ./test_direc2
4499405      0 drwxr-xr-x      3 davidmei      staff      96 Oct  2 13:31 ./test_direc2/sub_direc2
4499474      4 -rw-r--r--      1 davidmei      staff      23 Oct  2 13:31 ./test_direc2/sub_direc2/file3
4499406      8 -rw-r--r--      1 davidmei      staff      6148 Oct  2 13:30 ./test_direc2/.DS_Store
4499451      4 -rw-r--r--      1 davidmei      staff      59 Oct  2 13:31 ./test_direc2/file2
((base) Davids-MacBook-Pro:Desktop davidmei$ ./find -v -m -900 test_direc2
4499389      0 drwxr-xr-x      5 davidmei      staff      160 Oct  2 13:31 test_direc2
4499405      0 drwxr-xr-x      3 davidmei      staff      96 Oct  2 13:31 test_direc2/sub_direc2
4499474      4 -rw-r--r--      1 davidmei      staff      23 Oct  2 13:31 test_direc2/sub_direc2/file3
4499406      8 -rw-r--r--      1 davidmei      staff      6148 Oct  2 13:30 test_direc2/.DS_Store
4499451      4 -rw-r--r--      1 davidmei      staff      59 Oct  2 13:31 test_direc2/file2
((base) Davids-MacBook-Pro:Desktop davidmei$ ./find -v -m 900 test_direc2
((base) Davids-MacBook-Pro:Desktop davidmei$ ./find -m 900 -v -m -900 test_direc2
4499389      0 drwxr-xr-x      5 davidmei      staff      160 Oct  2 13:31 test_direc2
4499405      0 drwxr-xr-x      3 davidmei      staff      96 Oct  2 13:31 test_direc2/sub_direc2
4499474      4 -rw-r--r--      1 davidmei      staff      23 Oct  2 13:31 test_direc2/sub_direc2/file3
4499406      8 -rw-r--r--      1 davidmei      staff      6148 Oct  2 13:30 test_direc2/.DS_Store
4499451      4 -rw-r--r--      1 davidmei      staff      59 Oct  2 13:31 test_direc2/file2
((base) Davids-MacBook-Pro:Desktop davidmei$ ./find -v -m -900 test_direc2/sub_direc2
4499405      0 drwxr-xr-x      3 davidmei      staff      96 Oct  2 13:31 test_direc2/sub_direc2
4499474      4 -rw-r--r--      1 davidmei      staff      23 Oct  2 13:31 test_direc2/sub_direc2/file3
```

Some Failure Samples:

1. Invalid Directory

```
[(base) Davids-MacBook-Pro:Desktop davidmei$ ./find non_exist_dirac
Error: Unable to open directory 'non_exist_dirac' (Error code 2: No such file or directory)
```

2. Invalid Command Samples

```
[(base) Davids-MacBook-Pro:Desktop davidmei$ ./find -m test_dirac
Error: Command Invalid. Correct format is '-m mtime' and mtime is an integer.
[(base) Davids-MacBook-Pro:Desktop davidmei$ ./find -v test_dirac Courses
Error: Command Invalid. Correct format is './program_name [option] filepath'.
[(base) Davids-MacBook-Pro:Desktop davidmei$ ./find -x test_dirac
./find: illegal option -- x
Error: Command Invalid. Options are either '-m mtime' or '-v'.
[(base) Davids-MacBook-Pro:Desktop davidmei$ ./find -m90 test_dirac
Error: Command Invalid. Correct format is '-m mtime' and mtime is an integer.
[(base) Davids-MacBook-Pro:Desktop davidmei$ ./find -mn 90 test_dirac
Error: Command Invalid. Correct format is '-m mtime' and mtime is an integer.
```