

```
[blablall:smalltest scott$ ls -la
total 200
drwxr-xr-x  18 scott  staff    612 Oct  9 18:14 .
drwxr-xr-x  15 scott  staff    510 Oct  9 17:41 ..
-rw-r--r--@  1 scott  staff   6148 Oct  9 17:37 .DS_Store
-rw-r--r--   1 scott  staff  11335 Oct  7 13:19 .cproject
-rw-r--r--   1 scott  staff   761 Oct  7 13:19 .project
drwxr-xr-x   3 scott  staff   102 Oct  8 03:46 .settings
-rw-r--r--@  1 scott  staff   393 Oct  8 15:32 code listing.tex
lrwxr-xr-x   1 scott  staff    16 Oct  9 17:39 dummy -> code listing.tex
-rw-rw-rw-   1 scott  staff   214 Oct  7 16:45 filename
-rw-rw-rw-   1 scott  staff   214 Oct  7 16:45 filename copy
drwxr-xr-x   5 scott  staff   170 Oct  8 00:50 hardlink
-rwxr-xr-x   1 scott  staff  13820 Oct  9 17:57 hln-to-test
-rw-r--r--   1 scott  staff    47 Oct  9 17:12 makefile
-rw-r--r--   1 scott  staff   214 Oct  7 13:30 smalltest copy.c
-rw-r--r--   1 scott  staff   214 Oct  7 13:30 smalltest.c
-rw-r--r--@  1 scott  staff   8437 Oct  9 18:14 submission.c
lrwxr-xr-x   1 scott  staff     8 Oct  8 00:58 symlink -> ../../JJ
-rwxr-xr-x   1 scott  staff  13820 Oct  9 18:14 test
```

```
[blablall:smalltest scott$ echo Testing with normal file
```

```
Testing with normal file
```

```
[blablall:smalltest scott$ ./test smalltest.c ..
```

```
Matching file path:../smalltest/filename
```

```
Duplicate: file link count: 1
```

```
OK READ BY OTHERS
```

```
Matching file path:../smalltest/filename copy
```

```
Duplicate: file link count: 1
```

```
OK READ BY OTHERS
```

```
Matching file path:../smalltest/smalltest copy.c
```

```
Duplicate: file link count: 1
```

```
OK READ BY OTHERS
```

```
Matching file path:../smalltest/smalltest.c
```

```
HARD LINK TO TARGET
```

```
OK READ BY OTHERS
```

```
[blablall:smalltest scott$ echo testing with normalfile with symlink to it
```

```
testing with normalfile with symlink to it
```

```
[blablall:smalltest scott$ ./test code\ listing.tex ..
```

```
Matching file path:../smalltest/code listing.tex
```

```
HARD LINK TO TARGET
```

```
OK READ BY OTHERS
```

```
symlink content:code listing.tex
```

```
With resolved path:../smalltest/code listing.tex
```

```
SYMLINK RESOLVED TO ORIGINAL TARGET
```

```
Original symlink name:dummy under path[../smalltest]
```

```
[blablall:smalltest scott$ echo test with absolutepath
```

```

blablall:smalltest scott$ echo test with absolutepath
test with absolutepath
blablall:smalltest scott$ ./test /Users/scott/Documents/CDT/smalltest/submission.c /Users/scott/Documents/CDT/smalltest
Matching file path:/Users/scott/Documents/CDT/smalltest/submission.c
HARD LINK TO TARGET
OK READ BY OTHERS

blablall:smalltest scott$ ./test /Users/scott/Documents/CDT/smalltest/smalltest.c /Users/scott/Documents/CDT/smalltest/submission.c
[CRITICAL ERROR-->:Searchpath identified as filetype(/Users/scott/Documents/CDT/smalltest/submission.c)
blablall:smalltest scott$ ./test /Users/scott/Documents/CDT/smalltest/smalltest.c /Users/scott/Documents/CDT/smalltest
Matching file path:/Users/scott/Documents/CDT/smalltest/filename
Duplicate: file link count: 1
OK READ BY OTHERS

Matching file path:/Users/scott/Documents/CDT/smalltest/filename copy
Duplicate: file link count: 1
OK READ BY OTHERS

Matching file path:/Users/scott/Documents/CDT/smalltest/smalltest copy.c
Duplicate: file link count: 1
OK READ BY OTHERS

Matching file path:/Users/scott/Documents/CDT/smalltest/smalltest.c
HARD LINK TO TARGET
OK READ BY OTHERS

blablall:smalltest scott$ echo Testing with symlink as filename
Testing with symlink as filename
blablall:smalltest scott$ ./test dummy .
Matching file path:./code listing.tex
[HARD LINK TO TARGET
OK READ BY OTHERS
[

symlink content:code listing.tex
With resolved path:./code listing.tex
SYMLINK RESOLVED TO ORIGINAL TARGET
Original symlink name:dummy under path[.]

blablall:smalltest scott$ ./test dummy ..
Matching file path:../smalltest/code listing.tex
HARD LINK TO TARGET
OK READ BY OTHERS
[

symlink content:code listing.tex
With resolved path:../smalltest/code listing.tex
SYMLINK RESOLVED TO ORIGINAL TARGET
Original symlink name:dummy under path[../smalltest]

```

```
[blablall:smalltest scott$ echo Testing with hardlink as filename
Testing with hardlink as filename
[blablall:smalltest scott$ ./test test .
Matching file path:./hln-to-test
Duplicate: file link count: 1
OK READ BY OTHERS
```

```
Matching file path:./test
HARD LINK TO TARGET
OK READ BY OTHERS
```

```
[blablall:smalltest scott$ ./test hln-to-test .
Matching file path:./hln-to-test
HARD LINK TO TARGET
OK READ BY OTHERS
```

```
Matching file path:./test
Duplicate: file link count: 1
OK READ BY OTHERS
```

```
blablall:smalltest scott$ █
```