

Sample Output

Yecheng Wang - 301540271

CMPT300 Assignment 4 - UnixLs

April 12th 2024

Test Case 1: Base Case

./UnixLs

```
● ywang@VANCARII-SURFACE:~/SFU/CMPT300/SFU_CMPT300_assignment4$ ./UnixLs
CMPT300_a4_vm_questions.pdf  infodemo.c  makefile  part1-virtual-mem.docx  sample_output.txt
UnixLs  UnixLs.c
```

Test Case 2: One flag

./UnixLs -l

```
● ywang@VANCARII-SURFACE:~/SFU/CMPT300/SFU_CMPT300_assignment4$ ./UnixLs -l
-rw-r--r-- 1 ywang ywang 96670 Apr 11 2024 12:17 CMPT300_a4_vm_questions.pdf
-rw-r--r-- 1 ywang ywang 831 Apr 11 2024 13:15 infodemo.c
-rw-r--r-- 1 ywang ywang 154 Apr 11 2024 16:50 makefile
-rw-r--r-- 1 ywang ywang 15445 Apr 11 2024 12:17 part1-virtual-mem.docx
-rw-r--r-- 1 ywang ywang 120 Apr 11 2024 16:49 sample_output.txt
-rwxr-xr-x 1 ywang ywang 16792 Apr 11 2024 19:23 UnixLs
-rw-r--r-- 1 ywang ywang 6981 Apr 11 2024 19:04 UnixLs.c
```

./UnixLs -i

```
● ywang@VANCARII-SURFACE:~/SFU/CMPT300/SFU_CMPT300_assignment4$ ./UnixLs -i
3940649674655930 CMPT300_a4_vm_questions.pdf 48695170970957005 infodemo.c 9851624186230406 makefile
3940649674656001 part1-virtual-mem.docx 57139420272288501 sample_output.txt 17169973579551408 UnixLs
52917295621621808 UnixLs.c
```

Test Case 3: Combined Flag

./UnixLs -li

```
● ywang@VANCARII-SURFACE:~/SFU/CMPT300/SFU_CMPT300_assignment4$ ./UnixLs -li
3940649674655930 -rw-r--r-- 1 ywang ywang 96670 Apr 11 2024 12:17 CMPT300_a4_vm_questions.pdf
48695170970957005 -rw-r--r-- 1 ywang ywang 831 Apr 11 2024 13:15 infodemo.c
9851624186230406 -rw-r--r-- 1 ywang ywang 154 Apr 11 2024 16:50 makefile
3940649674656001 -rw-r--r-- 1 ywang ywang 15445 Apr 11 2024 12:17 part1-virtual-mem.docx
57139420272288501 -rw-r--r-- 1 ywang ywang 120 Apr 11 2024 16:49 sample_output.txt
17169973579551408 -rwxr-xr-x 1 ywang ywang 16792 Apr 11 2024 19:04 UnixLs
52917295621621808 -rw-r--r-- 1 ywang ywang 6981 Apr 11 2024 19:04 UnixLs.c
```

./UnixLs -il

```
● ywang@VANCARII-SURFACE:~/SFU/CMPT300/SFU_CMPT300_assignment4$ ./UnixLs -il
9007199255322892 -rw-r--r-- 1 ywang ywang 96957 Apr 12 2024 15:48 a4_vm_questions.pdf
48695170970957005 -rw-r--r-- 1 ywang ywang 831 Apr 11 2024 13:15 infodemo.c
9851624186230406 -rw-r--r-- 1 ywang ywang 154 Apr 11 2024 16:50 makefile
3940649674656001 -rw-r--r-- 1 ywang ywang 15445 Apr 11 2024 12:17 part1-virtual-mem.docx
57139420272288501 -rw-r--r-- 1 ywang ywang 120 Apr 11 2024 16:49 sample_output.txt
37999121856092998 -rwxrwxrwx 1 ywang ywang 13 Apr 12 2024 11:15 symbolic_test_file.txt
22799473113689550 -rw-r--r-- 2 ywang ywang 41 Apr 12 2024 11:14 test_file.txt
22799473113689550 -rw-r--r-- 2 ywang ywang 41 Apr 12 2024 11:14 test_file2.txt
21673573207033668 -rwxr-xr-x 1 ywang ywang 16832 Apr 12 2024 11:17 UnixLs
52917295621621808 -rw-r--r-- 1 ywang ywang 7356 Apr 12 2024 11:11 UnixLs.c
```

./UnixLs -i -l

```
● ywang@VANCARII-SURFACE:~/SFU/CMPT300/SFU_CMPT300_assignment4$ ./UnixLs -i -l
9007199255322892 -rw-r--r-- 1 ywang ywang 96957 Apr 12 2024 15:48 a4_vm_questions.pdf
48695170970957005 -rw-r--r-- 1 ywang ywang 831 Apr 11 2024 13:15 infodemo.c
9851624186230406 -rw-r--r-- 1 ywang ywang 154 Apr 11 2024 16:50 makefile
3940649674656001 -rw-r--r-- 1 ywang ywang 15445 Apr 11 2024 12:17 part1-virtual-mem.docx
57139420272288501 -rw-r--r-- 1 ywang ywang 120 Apr 11 2024 16:49 sample_output.txt
37999121856092998 -rwxrwxrwx 1 ywang ywang 13 Apr 12 2024 11:15 symbolic_test_file.txt
22799473113689550 -rw-r--r-- 2 ywang ywang 41 Apr 12 2024 11:14 test_file.txt
22799473113689550 -rw-r--r-- 2 ywang ywang 41 Apr 12 2024 11:14 test_file2.txt
21673573207033668 -rwxr-xr-x 1 ywang ywang 16832 Apr 12 2024 11:17 UnixLs
52917295621621808 -rw-r--r-- 1 ywang ywang 7356 Apr 12 2024 11:11 UnixLs.c
```

./UnixLs -l -i

```
● ywang@VANCARII-SURFACE:~/SFU/CMPT300/SFU_CMPT300_assignment4$ ./UnixLs -l -i
9007199255322892 -rw-r--r-- 1 ywang ywang 96957 Apr 12 2024 15:48 a4_vm_questions.pdf
48695170970957005 -rw-r--r-- 1 ywang ywang 831 Apr 11 2024 13:15 infodemo.c
9851624186230406 -rw-r--r-- 1 ywang ywang 154 Apr 11 2024 16:50 makefile
3940649674656001 -rw-r--r-- 1 ywang ywang 15445 Apr 11 2024 12:17 part1-virtual-mem.docx
57139420272288501 -rw-r--r-- 1 ywang ywang 120 Apr 11 2024 16:49 sample_output.txt
37999121856092998 -rwxrwxrwx 1 ywang ywang 13 Apr 12 2024 11:15 symbolic_test_file.txt
22799473113689550 -rw-r--r-- 2 ywang ywang 41 Apr 12 2024 11:14 test_file.txt
22799473113689550 -rw-r--r-- 2 ywang ywang 41 Apr 12 2024 11:14 test_file2.txt
21673573207033668 -rwxr-xr-x 1 ywang ywang 16832 Apr 12 2024 11:17 UnixLs
52917295621621808 -rw-r--r-- 1 ywang ywang 7356 Apr 12 2024 11:11 UnixLs.c
```

Test Case 5: Improper Input

./UnixLs -li ~/SFU/

```
● ywang@VANCARII-SURFACE:~/SFU/CMPT300/SFU_CMPT300_assignment4$ ./UnixLs -li ~/SFU/
error: No such file or directory
```

Test Case 6: Directory search

- 6.1: With flags

./UnixLs -li ~/SFU/CMPT300/

```
● ywang@VANCARII-SURFACE:~/SFU/CMPT300/SFU_CMPT300_assignment4$ ./UnixLs -li ~/SFU/CMPT300/
6473924464533716 drwxr-xr-x 1 ywang ywang 4096 Feb 21 2024 03:21 Assignment2
69524319247566564 drwxr-xr-x 1 ywang ywang 4096 Feb 26 2024 22:40 SFU_CMPT300_assignment2
6192449487755562 drwxr-xr-x 1 ywang ywang 4096 Feb 25 2024 22:42 SFU_CMPT300_assignment2 - Copy
5066549582600514 drwxr-xr-x 1 ywang ywang 4096 Mar 25 2024 23:48 SFU_CMPT300_assignment3
9570149208444666 drwxr-xr-x 1 ywang ywang 4096 Apr 11 2024 19:23 SFU_CMPT300_assignment4
```

- 6.2: Without flags

./UnixLs ~/SFU/CMPT300/

```
ywang@VANCARII-SURFACE:~/SFU/CMPT300/SFU_CMPT300_assignment4$ ./UnixLs ~/SFU/CMPT300/  
Assignment2 SFU_CMPT300_assignment2 SFU_CMPT300_assignment2 - Copy SFU_CMPT300_assignment3 SFU_CMPT300_assignment4
```

Test Case 7: File Search

./UnixLs -li infodemo.c

./UnixLs ../SFU_CMPT300_assignment2/makefile

./UnixLs -li ../SFU_CMPT300_assignment2/makefile

```
ywang@VANCARII-SURFACE:~/SFU/CMPT300/SFU_CMPT300_assignment4$ ./UnixLs -li infodemo.c  
48695170970957005 -rw-r--r-- 1 ywang ywang 831 Apr 11 2024 13:15 infodemo.c
```

```
ywang@VANCARII-SURFACE:~/SFU/CMPT300/SFU_CMPT300_assignment4$ ./UnixLs ../SFU_CMPT300_assignment2/makefile  
../SFU_CMPT300_assignment2/makefile
```

```
ywang@VANCARII-SURFACE:~/SFU/CMPT300/SFU_CMPT300_assignment4$ ./UnixLs -li ../SFU_CMPT300_assignment2/makefile  
11540474045847447 -rw-r--r-- 1 ywang ywang 311 Feb 26 2024 11:10 ../SFU_CMPT300_assignment2/makefile
```

Test Case 8: Symbolic Links and Hard Links File

```
ywang@VANCARII-SURFACE:~/SFU/CMPT300/SFU_CMPT300_assignment4$ ./UnixLs -li  
3940649674655930 -rw-r--r-- 1 ywang ywang 96670 Apr 11 2024 12:17 CMPT300_a4_vm_questions.pdf  
48695170970957005 -rw-r--r-- 1 ywang ywang 831 Apr 11 2024 13:15 infodemo.c  
9851624186230406 -rw-r--r-- 1 ywang ywang 154 Apr 11 2024 16:50 makefile  
3940649674656001 -rw-r--r-- 1 ywang ywang 15445 Apr 11 2024 12:17 part1-virtual-mem.docx  
57139420272288501 -rw-r--r-- 1 ywang ywang 120 Apr 11 2024 16:49 sample_output.txt  
37999121856092998 -rwxrwxrwx 1 ywang ywang 13 Apr 12 2024 11:15 symbolic_test_file.txt  
22799473113689550 -rw-r--r-- 2 ywang ywang 41 Apr 12 2024 11:14 test_file.txt  
22799473113689550 -rw-r--r-- 2 ywang ywang 41 Apr 12 2024 11:14 test_file2.txt  
21673573207033668 -rwxr-xr-x 1 ywang ywang 16832 Apr 12 2024 11:17 UnixLs  
52917295621621808 -rw-r--r-- 1 ywang ywang 7356 Apr 12 2024 11:11 UnixLs.c
```