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 -1
                                   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
  -rw-r--r-- 1
                                   15445 Apr 11 2024 12:17 part1-virtual-mem.docx
                  ywang
                          ywang
                                     120 Apr 11 2024 16:49 sample output.txt
  -rw-r--r-- 1
                  ywang
                          ywang
                                   16792 Apr 11 2024 19:23 UnixLs
  -rwxr-xr-x 1
                  ywang
                          ywang
                                    6981 Apr 11 2024 19:04 UnixLs.c
  -rw-r--r-- 1
                  ywang
                          ywang
```

./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
        17169973579551408 UnixLs
```

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
                                                     831 Apr 11 2024 13:15 infodemo.c
                                   vwang
  9851624186230406 -rw-r--r-- 1
                                   ywang
                                           ywang
                                                     154 Apr 11 2024 16:50 makefile
  3940649674656001 -rw-r--r-- 1
                                                   15445 Apr 11 2024 12:17 part1-virtual-mem.docx
                                   ywang
                                           ywang
 57139420272288501 -rw-r--r-- 1
                                           ywang
                                                     120 Apr 11 2024 16:49 sample output.txt
                                   ywang
 17169973579551408 -rwxr-xr-x 1
                                                   16792 Apr 11 2024 19:04 UnixLs
                                           ywang
                                   ywang
                                           ywang
                                                   6981 Apr 11 2024 19:04 UnixLs.c
 52917295621621808 -rw-r--r-- 1
                                   ywang
```

./UnixLs -il

```
• ywang@VANCARII-SURFACE:~/SFU/CMPT300/SFU CMPT300 assignment4$ ./UnixLs -i1
  9007199255322892 -rw-r--r-- 1 ywang ywang
                                                  96957 Apr 12 2024 15:48 a4 vm questions.pdf
                                                 831 Apr 11 2024 13:15 infodemo.c
 48695170970957005 -rw-r--r-- 1
                                          ywang
  9851624186230406 -rw-r--r-- 1
                                                   154 Apr 11 2024 16:50 makefile
                                  ywang
                                          ywang
                                                15445 Apr 11 2024 12:17 part1-virtual-mem.docx
  3940649674656001 -rw-r--r-- 1
                                  ywang
                                          ywang
                                                120 Apr 11 2024 16:49 sample_output.txt
 57139420272288501 -rw-r--r-- 1
                                  ywang
                                          ywang
 37999121856092998 -rwxrwxrwx 1
                                                    13 Apr 12 2024 11:15 symbolic_test_file.txt
                                  ywang
                                          ywang
 22799473113689550 -rw-r--r- 2
                                                    41 Apr 12 2024 11:14 test_file.txt
                                  ywang
                                          ywang
 22799473113689550 -rw-r--r- 2
                                  ywang
                                          ywang
                                                     41 Apr 12 2024 11:14 test file2.txt
                                                16832 Apr 12 2024 11:17 UnixLs
 21673573207033668 -rwxr-xr-x 1
                                  ywang
                                          ywang
                                                   7356 Apr 12 2024 11:11 UnixLs.c
 52917295621621808 -rw-r--r-- 1
                                  ywang
                                          ywang
```

./UnixLs -i -l

```
ywang@VANCARII-SURFACE:~/SFU/CMPT300/SFU_CMPT300_assignment4$ ./UnixLs -i -1
  9007199255322892 -rw-r--r-- 1
                                                  96957 Apr 12 2024 15:48 a4_vm_questions.pdf
                                  ywang
                                          ywang
 48695170970957005 -rw-r--r- 1
                                                  831 Apr 11 2024 13:15 infodemo.c
                                  ywang
                                          ywang
                                                   154 Apr 11 2024 16:50 makefile
  9851624186230406 -rw-r--r-- 1
                                          ywang
                                  ywang
  3940649674656001 -rw-r--r-- 1
                                                15445 Apr 11 2024 12:17 part1-virtual-mem.docx
                                  ywang
                                          ywang
                                                120 Apr 11 2024 16:49 sample_output.txt
 57139420272288501 -rw-r--r-- 1
                                          ywang
                                  ywang
                                                    13 Apr 12 2024 11:15 symbolic_test_file.txt
 37999121856092998 -rwxrwxrwx 1
                                  ywang
                                          ywang
 22799473113689550 -rw-r--r-- 2
                                  ywang
                                          ywang
                                                    41 Apr 12 2024 11:14 test_file.txt
                                                     41 Apr 12 2024 11:14 test file2.txt
 22799473113689550 -rw-r--r-- 2
                                  ywang
                                          ywang
                                          ywang 16832 Apr 12 2024 11:17 UnixLs
 21673573207033668 -rwxr-xr-x 1
                                  ywang
 52917295621621808 -rw-r--r-- 1
                                          ywang 7356 Apr 12 2024 11:11 UnixLs.c
                                  ywang
```

./UnixLs -l -i

```
ywang@VANCARII-SURFACE:~/SFU/CMPT300/SFU_CMPT300_assignment4$ ./UnixLs -1 -i
                                                 96957 Apr 12 2024 15:48 a4 vm questions.pdf
 9007199255322892 -rw-r--r-- 1
                                 ywang
                                          ywang
48695170970957005 -rw-r--r-- 1
                                  ywang
                                          ywang
                                                    831 Apr 11 2024 13:15 infodemo.c
 9851624186230406 -rw-r--r-- 1
                                                    154 Apr 11 2024 16:50 makefile
                                 ywang
                                          ywang
 3940649674656001 -rw-r--r-- 1
                                                 15445 Apr 11 2024 12:17 part1-virtual-mem.docx
                                  ywang
                                          ywang
57139420272288501 -rw-r--r-- 1
                                  ywang
                                                    120 Apr 11 2024 16:49 sample output.txt
                                          ywang
37999121856092998 -rwxrwxrwx 1
                                  ywang
                                          ywang
                                                     13 Apr 12 2024 11:15 symbolic test file.txt
22799473113689550 -rw-r--r-- 2
                                                     41 Apr 12 2024 11:14 test file.txt
                                  ywang
                                          ywang
22799473113689550 -rw-r--r-- 2
                                                     41 Apr 12 2024 11:14 test_file2.txt
                                  ywang
                                          ywang
21673573207033668 -rwxr-xr-x 1
                                                 16832 Apr 12 2024 11:17 UnixLs
                                  ywang
                                          ywang
52917295621621808 -rw-r--r-- 1
                                          ywang 7356 Apr 12 2024 11:11 UnixLs.c
                                 ywang
```

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/

```
g@VANCARII-SURFACE:~/SFU/CM
                                PT300/SFU_CMPT300_assignment4$ ./UnixLs -li ~/SFU/CMPT300/
6473924464533716 drwxr-xr-x 1
                                                   4096 Feb 21 2024 03:21 Assignment2
                                  ywang
                                          ywang
69524319247566564 drwxr-xr-x 1
                                                   4096 Feb 26 2024 22:40 SFU_CMPT300_assignment2
                                  ywang
6192449487755562 drwxr-xr-x 1
                                                   4096 Feb 25 2024 22:42 SFU_CMPT300_assignment2 - Copy
                                  ywang
                                          ywang
 5066549582600514 drwxr-xr-x 1
                                                   4096 Mar 25 2024 23:48 SFU CMPT300 assignment3
                                  vwang
                                          vwang
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
                                                   96670 Apr 11 2024 12:17 CMPT300_a4_vm_questions.pdf
                                   ywang
                                           ywang
                                                     831 Apr 11 2024 13:15 infodemo.c
 48695170970957005 -rw-r--r-- 1
                                   ywang
                                           ywang
  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
                                                     120 Apr 11 2024 16:49 sample_output.txt
                                   ywang
                                           ywang
 37999121856092998 -rwxrwxrwx 1
                                           ywang
                                                      13 Apr 12 2024 11:15 symbolic_test_file.txt
                                   ywang
                                                      41 Apr 12 2024 11:14 test_file.txt
 22799473113689550 -rw-r--r-- 2
                                   ywang
                                           ywang
 22799473113689550 -rw-r--r-- 2
                                                      41 Apr 12 2024 11:14 test_file2.txt
                                   ywang
                                           ywang
 21673573207033668 -rwxr-xr-x 1
                                   ywang
                                           ywang
                                                   16832 Apr 12 2024 11:17 UnixLs
                                                   7356 Apr 12 2024 11:11 UnixLs.c
 52917295621621808 -rw-r--r-- 1
                                   ywang
                                           ywang
```