

```
#!/bin/bash
#
# Author: Michael Kepple
# Date: 24 Jan 2013
#
# This script uses the "long" option to display lines to stdout. These lines are
# sorted: first by the day of month last modified, secondly by file length in
# bytes, and finally by the number of links.
#
echo ==== Standard Long LS Output ====
ls -l | head -1
ls -l | tail -n +2
echo ==== Sorted by Day of Month Last Modified ====
ls -l | head -1
ls -l | tail -n +2 | sort -k 7n,7
echo ==== Sorted by File Length in Bytes ====
ls -l | head -1
ls -l | tail -n +2 | sort -nrk 5,5
echo ==== Sorted by Number of Links ====
ls -l | head -1
ls -l | tail -n +2 | sort -k 2n,2

: '
=====
Test
=====
(student)~/5520/Lab1% lssort
==== Standard Long LS Output ====
total 172
-rwxrwxr-x 1 kepplemr csf 1158 Jan 31 14:03 catn
-rw-rw-r-- 1 kepplemr csf 427 Jan 27 18:07 catn~
-rw-rw-r-- 1 kepplemr csf 3403 Jan 31 14:04 catn.pdf
-rw-rw-r-- 1 kepplemr csf 14502 Jan 31 14:04 catn.ps
-rwxrwxr-x 1 kepplemr csf 449 Jan 27 16:27 chgext
-rw-rw-r-- 1 kepplemr csf 3129 Jan 27 17:07 chgext.pdf
-rw-rw-r-- 1 kepplemr csf 13452 Jan 27 17:05 chgext.ps
-rw-rw-r-- 1 kepplemr csf 11 Jan 31 10:24 fileo
-rw-rw-r-- 1 kepplemr csf 10 Jan 31 10:24 foo
-rw-rw-r-- 1 kepplemr csf 162 Jan 31 12:11 indent
-rwxrwxr-x 1 kepplemr csf 632 Jan 27 15:45 lssort
-rw-rw-r-- 1 kepplemr csf 3164 Jan 27 17:07 lssort.pdf
-rw-rw-r-- 1 kepplemr csf 13683 Jan 27 17:06 lssort.ps
-rwxrwxr-x 1 kepplemr csf 427 Jan 27 18:07 mon
-rw-rw-r-- 1 kepplemr csf 3151 Jan 27 18:08 mon.pdf
-rw-rw-r-- 1 kepplemr csf 13486 Jan 27 18:07 mon.ps
-rwxrwxr-x 1 kepplemr csf 539 Jan 31 13:59 normwhite
-rw-rw-r-- 1 kepplemr csf 3200 Jan 31 14:00 normwhite.pdf
-rw-rw-r-- 1 kepplemr csf 13548 Jan 31 14:00 normwhite.ps
-rw-rw-r-- 1 kepplemr csf 54 Jan 27 15:50 test.C
-rw-rw-r-- 1 kepplemr csf 95 Jan 27 13:26 testFile
-rw-rw-r-- 1 kepplemr csf 119 Jan 31 13:57 TestNormWhite
-rwxrwxr-x 1 kepplemr csf 461 Jan 31 14:05 vhn
-rw-rw-r-- 1 kepplemr csf 3213 Jan 31 14:05 vhn.pdf
-rw-rw-r-- 1 kepplemr csf 13758 Jan 31 14:05 vhn.ps
==== Sorted by Day of Month Last Modified ====
total 172
-rw-rw-r-- 1 kepplemr csf 13452 Jan 27 17:05 chgext.ps
-rw-rw-r-- 1 kepplemr csf 13486 Jan 27 18:07 mon.ps
-rw-rw-r-- 1 kepplemr csf 13683 Jan 27 17:06 lssort.ps
-rw-rw-r-- 1 kepplemr csf 3129 Jan 27 17:07 chgext.pdf
-rw-rw-r-- 1 kepplemr csf 3151 Jan 27 18:08 mon.pdf
-rw-rw-r-- 1 kepplemr csf 3164 Jan 27 17:07 lssort.pdf
-rw-rw-r-- 1 kepplemr csf 427 Jan 27 18:07 catn~
```

lssort

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-rw-rw-r-- 1 kepplemr csf 54 Jan 27 15:50 test.C
-rw-rw-r-- 1 kepplemr csf 95 Jan 27 13:26 testFile
-rwxrwxr-x 1 kepplemr csf 427 Jan 27 18:07 mon
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-rw-rw-r-- 1 kepplemr csf 14502 Jan 31 14:04 catn.ps
-rw-rw-r-- 1 kepplemr csf 162 Jan 31 12:11 indent
-rw-rw-r-- 1 kepplemr csf 3200 Jan 31 14:00 normwhite.pdf
-rw-rw-r-- 1 kepplemr csf 3213 Jan 31 14:05 vhn.pdf
-rw-rw-r-- 1 kepplemr csf 3403 Jan 31 14:04 catn.pdf
-rwxrwxr-x 1 kepplemr csf 1158 Jan 31 14:03 catn
-rwxrwxr-x 1 kepplemr csf 461 Jan 31 14:05 vhn
-rwxrwxr-x 1 kepplemr csf 539 Jan 31 13:59 normwhite
```

==== Sorted by File Length in Bytes ====

total 172

```
-rw-rw-r-- 1 kepplemr csf 14502 Jan 31 14:04 catn.ps
-rw-rw-r-- 1 kepplemr csf 13758 Jan 31 14:05 vhn.ps
-rw-rw-r-- 1 kepplemr csf 13683 Jan 27 17:06 lssort.ps
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-rw-rw-r-- 1 kepplemr csf 95 Jan 27 13:26 testFile
-rw-rw-r-- 1 kepplemr csf 54 Jan 27 15:50 test.C
-rw-rw-r-- 1 kepplemr csf 11 Jan 31 10:24 fileo
-rw-rw-r-- 1 kepplemr csf 10 Jan 31 10:24 foo
```

==== Sorted by Number of Links ====

total 172

```
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