

# Linux and the command line

## Exercises

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### 1. Basic commands

Exercises	Command
Create a directory name: <code>~/tests</code>	<code>mkdir</code>
Change directory to: <code>tests</code>	<code>cd</code>
Create a file: <code>ftest</code>	<code>touch</code>
Redirect the result of the " <code>ls -l</code> " command in <code>ftest</code>	<code>&gt;</code>
Evaluate the number of lines <code>ftest</code>	<code>wc</code>
Create as many directory(ies) named <code>i</code> with $i \in [1, n]$ , where $n$ is the number of lines in <code>ftest</code>	<code>mkdir</code>
For each line <code>i</code> in <code>ftest</code> print the line in a new file <code>i/i-line</code>	<code>tac, tail,  , &gt;</code>
Erase everything you created so far, files and directories	<code>rm</code>

### 2. Filters

Exercises	Command
Redirect the result of " <code>man bash</code> " in a file <code>mbash</code>	<code>&gt;</code>
Print the number of lines with the pattern <code>command</code> in <code>mbash</code>	<code>grep, wc,  </code> or <code>awk</code>
Substitute pattern(s) <code>command</code> by <code>bidouille</code> in the file <code>mbash</code>	<code>sed</code>
Remove all "14 spaces" <code>first</code> pattern on each line in <code>mbash</code>	<code>sed</code>
Print all lines with that start by <code>bidouille</code> in the file <code>mbash</code>	<code>grep</code> or <code>awk</code>

### 3. Scripting

Exercises	Command
Write a script <code>~/test.sh</code> that reproduces steps 1) and 2)	<code>gedit</code> or <code>vi</code>
Make the script <code>~/test.sh</code> executable and check that it works	<code>chmod</code>