

Download the <http://meop3.troja.mff.cuni.cz:8010/linux/materials/texts.tar.gz> file.
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- 1 Write a regex (and demonstrate using `grep` and `echo "test string"`) for url. Examples of valid urls are: `http://url.to.some.address.cz`, `https://another.example-with-hyphen.com`, `ftp://some.ftp.url.ac.uk` (the allowed top level domains are `.cz`, `.sk`, `.uk`, `.com`, `.org`, `.net`, there are more but consider only these)
- 2 Write a regex for "rodne cislo" in the form `YYMMDD/NNNN` or `/NNN`, where `MM` is 01..12 for men and 51..62 for women. `YY` is anything between 00 and 99, and `DD` depends on `MM` (28, 30 or 31, disregard leap years).
- 3 Write a `sed` command for caesar file which transforms the chapter names from "[XX]" to "Chapter XX" and prints only the first line of text after the chapter on a newline.
So the output should look like this:
Chapter 1
Quita Gallia Caesar, ut constituerat, in Italiam ad conventus agendos
Chapter 2
His rebus agitatis profitentur Carnutes se nullum periculum communis
...
- 4 In the chemicals file, using `sed`, change the order of chemical code and chemical names and from the code remove the "-". This have to be a one line command!!!
The output should look like this:
p Nitrochlorobenzene 100005
p-Nitroaniline 100016
4-nitrophenol 100027
- 5 In `pythoncode.py`, add a comment line (e.g. `# This is a comment`) before each line with function definition (i.e. a line with `def ..`) and a different comment after each "for" cycle. Use `sed` only. Hint: `sed -e "first inserting" -e "second inserting"`, the `def` and `for` does not have to start always at the beginning of the line.