CS&A: Lab Sessions

Exercises 2nd session: UNIX Scripting
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1BA INF - 2010-2011

1   Time Schedule

Exercises are made individually. Fill in all solutions to the exercises in the file `oefeningen.html`.
Include all scripts you wrote.

Put all your files in a tgz archive, as explained on the course's website, and submit your solution to the exercises on Blackboard.

- Deadline: **August, 21 2011, 23u55**

2   Exercises

1. Find a regular expression that matches filenames with a "tar.gz" extension.

2. Find a regular expression that matches any number between 1 and 999.

3. Find a regular expression that matches strings surrounded by square brackets. Beware of greedy evaluation! For example, the HTML string `"Hello, <em>this</em> is emphasized."` should match twice, for `<em>` and for `</em>`.

4. Find a regular expression that matches an IBAN bank account number of the format GR16 0110 1250 0000 0001 2300 695 or BE62121234123412341234. It consists out of two letters, followed by two digits and finished with maximum 30 digits. Both versions with and without spaces should match.

5. Write a script that looks up the name of the executing user and prints the initials.

6. Create a script that reads three numbers and prints the average.

7. Create a script that reads a word, and says how many vowels and consonants it contains.

8. Create a script that implements the game *nim*. At the beginning of the game, there are a number of matches (to be determined by the player). On each turn, one of the two players may take 1, 2 or 3 matches away. The person who removes the last match wins.