

INGÉ1 - UNIX

LAB 8 – Shell Programming (Part 2)

ESME Bordeaux-Lille-Lyon-Paris

Exercise 1 : Loops and Control

- Q1.** Write a script that displays the days of the week using a **for-in** loop.
- Q2.** Write a **for** loop to display numbers from 1 to 100. Display the same result using a **while** loop and also using an **until** loop.
- Q3.** Write a loop that displays all **.conf** files in the system **etc** directory.
- Q4.** Using a loop, display the number of header files (extension **.h**) in the **/usr/include** directory and add a condition to check if a given directory contains no header files.

Exercise 2 : Arithmetic and Conditional Tests

- Q1.** Write a script that calculates the Greatest Common Divisor (GCD) between two numbers.
1. The script should first check the number of command-line parameters and terminate the program if this number is different from 2 (i.e., you must provide exactly 2 arguments when executing the script).
 2. Subsequently, the calculation of the GCD is done using the Euclidean algorithm. Thus, the GCD corresponds to the last non-zero remainder of successive divisions between the dividend and the divisor. Note that, for each loop iteration, the divisor and the remainder are assigned, respectively, to the dividend and the divisor.