



C - Pool - Tek1

Subject Day 02

C Pool Managers
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Instructions

- Any request for precisions on a subject will complicate it.
- The subject may change until one hour before turn-in.
- Don't forget to discuss about it in the pool section of the forum !
- You must keep your turn-in directory clean. No other files are allowed than those explicitly specified by the exercises.
Otherwise, our robot might not be able to correct your project and you will get 0.
- Turn-in directory:
Piscine_C_J02



Hints

To turn-in your project:
Create a 'rendu' directory in your home.
Go into this new directory: `cd ~/rendu`
You must create here the turn-in directory specified in the subject.
Go into this new directory: `cd ~/rendu/Piscine_C_J02`
Remember it is always better to create your repository at the beginning of the day and to turn-in your work on a regular basis



Exercise 0

- You will need a little resources in order to complete today's exercises.
- Therefore, we invite you to clone the repository: "`git.epitech.eu:/looneytunes/j02`"



Hints

The content of this repository can change during the day.
Remember to keep it up to date.



Hints

Read rights on the repository were given to you as soon as you
finished yesterday's exercise 4



Exercice 1 - how_many_are_we.sh

- Write a script named “`how_many_are_we.sh`” which displays the number of students in the city in parameter. If no parameter is given, the script displays the total number of students.
- Use the file “`students.csv`” in order to gather the data.
- We will use our own file, do not commit your’s - if you do, you will lose points.
- The parameter will always be correct and well formatted

```
?> cat ~/moulinette/students.csv | ./how_many_are_we.sh ncy
```



Hints

As soon as we are taking about a script, remember to set the execution rights



Hints

Having trouble finding how to retrieve parameters? `man bash`



Exercice 2 - find_sh.sh

- Write a script named “`find_sh.sh`” which seek every files whose names finish by “`.sh`” in the current folder and all its sub-folders. (without the quotes) and only displays their name, with the trailing “`.sh`”



Exercice 3 - count_files.sh

- Write a script named “count_files.sh” which displays the number of files in the current folder and all its sub-folders, taking into account the “.” of the current folder.



Hints Read carefully the man of find



Exercice 4 - gotta_catch_them_all.sh

- Write a script named “gotta_catch_them_all.sh” which displays the number of users whose surname starts with “martin”.
- Use the file passwd in j02.

```
?> cat ~/moulinette/passwd | ./gotta_catch_them_all.sh
```




Exercice 5 - prepare_my_repo.sh

- Write a script named “prepare_my_repo.sh” which, as its name suggests, will:
- Create the repository the name is given as an argument
- Add pick-up rights
- Displays the repository’s acl

```
Output example
?> ./prepare_my_repo.sh Corewar
Repository Corewar created
ACL correctly applied
ramassage-tek:r
?>
```



Hints

Toons are almighty and their copy of blih won't ever dare to ask them to type a password



Exercice 6 - push_that.sh

- Write a script named “`push_that.sh`” which will add every files of the current folder and push them to the repository.
- It is supposed to handle simple conflicts and still push your files.



Caution, don't use this script if you share this repository with other people



Exercice 6 - Utilitaire (Bonus)

- In order to use your scripts from anywhere, you might want to create a folder named “`bin`” in your home “`~/bin`” and copy your usefull scripts in that folder.
- Commands you use in a shell must be located in a folder listed in the environment variable `PATH`.
- You want to add you folder “`~/bin`” in the `$PATH` variable.
- To do so, change the config of the file “`~/.bashrc`”.



Hints Carefully read the man of `env`



Exercise 7

- The content of the exercise can be found in j02 but is encoded using a substitution cipher.
- Here is the key : “LONEYTUSARFPDHIKZBCGJMQVWX”
- The result can be obtained using a single command line



Exercice 8 - skip.sh

- Write a script named “**skip.sh**” which take the output of a “**ls -l**” and displays only alternate rows by starting with the first one.

```
?> ls -l | ./skip.sh
```



Exercice 9 - r_tacpy.sh

- Write a script named “r_tacpy.sh” which retrieve the output of a “cat passwd”, and displays every other line starting on the second one reversing every letter of each login sorting them in the reverse order, only keeping logins between MY_LINE1 and MY_LINE2 inclusive, separated by “, ” (without quotes) and finishing with a “.”.
- Example : Between lines 24 and 42, the result is :

```
z_iew, z_idauoj, z_hcinh, z_habsem_ante, z_guomah, z_girdor, z_farhca,  
z_evuohc, z_ettorb, z_etset, z_etanok, z_elliap, z_ehkuob, zeek, zdud,  
z_dnarud, z_dahuob, z_cdadah, z_azhral_ante.
```



Hints MY_LINE1 and MY_LINE2 are environment variables.

