



# B1- C Pool

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B-CPE-042

## Day 02

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Shell language

v1.4



# Day 02

## Shell language

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binary name: : no binary  
repository name: : CPool\_Day02  
repository rights: : ramassage-tek  
language: : bash  
group size: : 1

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- Your repository must contain the totality of your source files, but no useless files (binary, temp files, obj files,...).
- All the bonus files (including a specific Makefile) should be in a directory named *bonus*.
- Error messages have to be written on the error output, and the program should then exit with the 84 error code (0 if there is no error).



Create your repository at the beginning of the day and submit your work on a regular basis!



# Task 1

## The Beginning

You will need a few resources in order to complete today's tasks.

Please clone the repository: [git.epitech.eu/looneytunes/Day02](https://git.epitech.eu/looneytunes/Day02)

Or download the files of the folder "resources" of the project of Day on the intranet - next to this pdf..



You were given the repository's access permission upon completing yesterday's tasks. The repository's content is subject to change throughout the day. Remember to keep it up to date.

# Task 2

## how\_many\_are\_we.sh



When dealing with a script, remember to set execution permission

Write a script, named `how_many_are_we.sh` that displays, given a city as argument, the number of students in the city.

If no parameter is given, the script will display the total number of students.

In order to retrieve the data, use the following file: **students.csv**

The argument should always be correct and well-formatted:

```
Terminal
~/B-CPE-042> cat Day02/students.csv | ./how_many_are_we.sh ncy
```



Having trouble figuring out how to retrieve parameters? **man bash**



## Task 3

### find\_sh.sh

Write a script, named `find_sh.sh` that searches for each file name ending by `.sh` within the current folder and each of its subfolders.

## Task 4

### count\_files.sh

Write a script, named `count_files.sh` that displays the number of regular files in the current folder and each of its subfolders.



man find

## Task 5

### gotta\_catch\_them\_all.sh

Write a script, named `gotta_catch_them_all.sh` that display the number of last names starting with "Martin". Use the "passwd" file in Day02:

```
Terminal
~/B-CPE-042> cat Day02/passwd | ./gotta_catch_them_all.sh
```



## Task 6

### prepare\_my\_repo.sh

Write a script, named `prepare_my_repo.sh`, which, as its name suggests, does the following:

- create the repository with the name given as an argument,
- add checkout permission,
- display the proper repository's ACL.

```
Terminal
~/B-CPE-042> ./prepare_my_repo.sh Corewar
Repository Corewar created
ACL correctly applied
ramassage-tek:r
```



Toons are almighty and their copy of **blih** wouldn't dare ask them to enter a password

## Task 7

### push\_that.sh

Write a script, named `push_that.sh`, that adds all of the current folder's files and push them to the repository. The script should be able to handle simple problems and still push your files.



Don't use this script if you share this repository with other people



# Task 8

## PATH (Bonus)

In order to use your scripts from any location, you might want to create a folder named `bin` in your home directory, `~/bin` and then copy your useful scripts into that folder.  
Commands that you use in a shell *must* be located in a folder that is listed in the **PATH** environment variable.  
You will want to add your `~/bin` folder to the **\$PATH** variable.  
In order to do this, change the configuration of the `/.bashrc` file.



man env

# Task 9

## Encrypted

The task's content can be found in Day02, but it is encoded using a substitution cipher.  
Here is the key: **LONEYTUSARFPDHIKZBCGJMQVWX**  
The result can be obtained in just one command line!

# Task 10

## skip.sh

Write a script, named `skip.sh` that takes the output of the command `ls -l` and then, starting with the first one, only displays one row out of two.

```
Terminal
~/B-CPE-042> ls -l | ./skip.sh
```



# Task 11

## r\_tacpy.sh

Write a script, named `r_tacpy.sh`, that retrieves the output of the command `cat passwd`, and then, starting with the second one, displays one line out of two by reversing each letter of each login. They will be sorted in reverse order, and will only save logins between `MY_LINE1` and `MY_LINE2`, separated by a comma, and ending with a point and a line break.



`MY_LINE1` and `MY_LINE2` are environment variables

Between lines 24 and 42 the result might be:

```
Terminal
~/B-CPE-042> 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.
```