AUTOMAKEFILE

AUTOMAKE-LIKE, BUT WAY BETTER

AUTOMAKEFILE
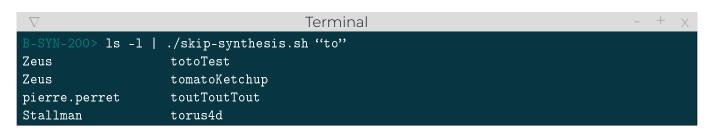
Preliminaries

(i)

binary name: skip-synthesis.sh, automakefile
language: bash

Requirement

Write a shell script named **skip-synthesis.sh** that will both read the output of the command `ls -l`, and print the user and the name of the files starting with the string given as parameter.

```
▽                              Terminal                          –  +  X
B-SYN-200> ls -l | ./skip-synthesis.sh ''to''
Zeus              totoTest
Zeus              tomatoKetchup
pierre.perret     toutToutTout
Stallman          torus4d
```

🔊 The rest of the project will not be corrected unless this requirement is fully functional (and rewritten).

🔊 The file must be placed at the root of your git repository.

{ EPITECH }

Makefile Generation

Write a shell script named **automakefile**, that generates a nice Makefile given a configuration file.
This configuration file can contain the following (potentially unordered) lines:

- ✓ source_filename;dependence1 dependence2…
  (specify the full names of the files, from the header subfolder below)
- ✓ PROJECT_DIR;name_of_the_project_root_folder
- ✓ SOURCES_DIR;subfolder_containing_the_source_files
- ✓ HEADERS_DIR;subfolder_containing_the_header_files
- ✓ LIBS_DIR;subfolder_containing_librairies
- ✓ EXEC;executable_name
- ✓ CC;compilator_binary
- ✓ CFLAGS;compilation_flag1 compilation_flag1…
- ✓ LDFLAGS;linking_flag1 linking_flag2…

> The generated Makefile must contain at least the classic clean, fclean and re rules.

> PROJECT_DIR is the only mandatory line, along with at least one source file.

{ EPITECH }

Version Manager

Add the following rules to the generated Makefile:

archive
backup the source files in a compressed format, in the project folder

revert
recreate the project from last backup

num
print the current version number

delete
delete last backup

> While archiving, the message `xxx file generated.\n` must be printed, `xxx` being the name of the archive.

5 more fields will be necessary in your configuration file :

- ✓ BCK_DIR;name_of_the_backup_folder
- ✓ ZIP;compression_binary
- ✓ ZIPFLAGS;compression_options
- ✓ UNZIP;decompression_binary
- ✓ UNZIPFLAGS;decompression_options

{EPITECH}

Example

```
▽                              Terminal                          –  +  X
B-SYN-200> ls .
automakefile     fakeProj/
B-SYN-200> ls -R fakeProj/
fakeProj/:
calc.c
main.c
config

fakeProj/include:
calc/
fakeProj.h

fakeProj/include/calc:
calc.h

fakeProj/libs/:

fakeProj_backUp/:
```

```
▽                              Terminal                          –  +  X
B-SYN-200> ./automakefile fakeProj/config && ls fakeProj/
calc.c
main.c
config
Makefile
```