



B2- Synthesis Pool

B-ADM-144

automakefile

automake-like, but way better





Requirement

skip-synthesis.sh

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

Terminal - + X

~/B-ADM-144> ls -l | ./skip-synthesis.sh "to"

Zeus totoTest

Zeus tomatoKetchup
perret_p toutToutTout

Stallman torus_RT



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.





automakefile

Mokefile Generator

binary name: automakefile

repository name: ADM_automakefile_\$YEAR

repository rights: ramassage-tek

language: bash group size: 1 compilation: none



- 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 potential 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 (O if there is no error).

Makefile Generation

Write a shell script named automakefile, that will generate 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.





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' will 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





```
Terminal
                                                                                        - + X
automakefile fakeProj/
                                         Terminal
√/B-ADM-144> cat fakeProj/config
main.c;fakeProj.h
EXEC; fakeProj
calc.c;calc/calc.h fakeProj.h
PROJECT_DIR; fakeProj
CC; clang
SOURCES_DIR;.
CFLAGS;-ftest-coverage -02
LDFLAGS;
HEADERS_DIR;include
LIBS_DIR; libs
BCK_DIR; backup
ZIP;tar
ZIPFLAGS;-cvvf
UNZIP; tar
UNZIPFLAGS; -xvf
                                         Terminal
                                                                                        - + X
\sim/B-ADM-144> ls -R fakeProj/
fakeProj/:
backup/
calc.c
config
include/
libs/
main.c
fakeProj/backup:
fakeProj/include:
calc/
fakeProj.h
fakeProj/include/calc:
calc.h
fakeProj/libs:
```





```
Terminal - + X

~/B-ADM-144> ./automakefile fakeProj/config && ls fakeProj/
fakeProj/:
backup/
calc.c
config
include/
libs/
main.c
Makefile
```

