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B2-Synthesis Pool

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B-SYN-200

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automakefile

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automake-like, but way better

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automakefile

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binary name: skip-synthesis.sh, automakefile
repository name: SYN_automakefile_\$ACADEMICYEAR
repository rights: ramassage-tek
language: bash

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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 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 (0 if there is no error).

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REQUIREMENT

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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
~/B-SYN-200> ls -l | ./skip-synthesis.sh "to"
Zeus          totoTest
Zeus          tomatoTest
pierre.perret toutToutTut
Stallman      torus4d
```

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

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

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MAKEFILE GENERATION

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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_libraries
- EXEC;executable_name
- CC;compiler_binary
- CFLAGS;compilation_flag1 compilation_flag1...
- LDFLAGS;linking_flag1 linking_flag2...

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

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

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VERSION MANAGER

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Add the following rules to the generated Makefile:

archive

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

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revert

recreate the project from last backup

num

print the current version number

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delete

delete last backup



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

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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

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EXAMPLE

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```
Terminal
~/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
~/B-SYN-200> ./automakefile fakeProj/config && ls fakeProj/
calc.c
main.c
config
Makefile
```

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