

Homework. 1: Bash and Build System

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To do this homework you will need to download the files from e-Campus. All the needed files are in the `homework_1.zip` file.

Once you have forked <https://gitlab.igg.uni-bonn.de/teaching/cpp-homeworks> and cloned your own repository extract the `homework_1.zip` archive into `cpp-homeworks/homework_1` folder:

```
$ git clone https://gitlab.igg.uni-bonn.de/<YOUR_USER_NAME>/cpp-homeworks
$ cd cpp-homeworks/homework_1
$ mv ~/Downloads/homework_1.zip . # or replace ~/Downloads with your path
$ unzip homework_1.zip && rm homework_1.zip
```

Once you successfully extracted the files, your working directory should look like the following:

```
|-- homework_1
|   |-- task_1
|   |   |-- test_folder
|   |-- task_2
|       |-- include
|           |-- ipb_arithmetic
|           |-- results
|               |-- bin
|               |-- lib
|                   |-- src
|-- homework_2
|-- ...
```

A Using the terminal (4 points)

This exercise focuses on using the terminal efficiently.

Every question in this exercise must be answered with a command on a single line. You should save each of these lines into the file `homework_1/task_1/commands.sh`.

Make sure all commands run from within `homework_1/task_1/` folder correctly.

1. (1 points) Count how many lines are there in “`data.dat`”.
2. (1 points) Count how many lines of those contain “`dolor`” or “`dalor`”?
3. (1 points) Count how many words are there in “`data.dat`”?
4. (1 points) Count how many of those start with “`mol`”?

Hint: you might want to use `wc` command.

B Build System (6 points)

All the documentation for this exercise is in the `cpp-homeworks/homework_1/task_2/README.md` file. You should `cd` into the task directory, open a text editor, and start working.

Basically the output of your exercise should be:

5. (2 points) A build script, `build.sh`, that allows to build the library and the example program within the exercise directory. So, basically leave this script on `cpp-homeworks/homework_1/task_2/build.sh`
6. (2 points) The same holds true for the installaion script `install.sh`
7. (2 points) And the `CMakeLists.txt` files