

Introduction

Information Theory Lab 1

Objective

Getting familiar with the IDE and workflow for the Information Theory laboratory.

Theoretical notions

None today :)

Practical issues

The laboratory applications will be mostly done in C.

We will use a general purpose C IDE (Code Blocks or Dev C++).

C details

A C program may receive input arguments from the command line. For this, the header of the `main()` function must be defined as follows:

```
int main(int argc, char* argv[])
{
    ...
}
```

Explanations:

- `argc` (“**a**rgument **c**ount”) holds the number of input arguments
- `argv` (“**a**rgument **v**alues”) is an *array of strings* which holds all the input arguments (separated by spaces)
- the first argument `argv[0]` is always the full name of the executable

Example:

```
test.exe file1 file2 dostuff
```

- `argc` is 4
- `argv` is {"test.exe", "file1", "file2", "dostuff"}

Exercises

1. Write a C program that displays all its input arguments, one argument on a separate line.

Final questions

1. TBD
2. TBD