ATAD | Software, Alternative Methods

These options should be used if you have exausted the methods described in the Software.p df document, namely for Windows and, particularly, MacOS.

They are presented in preferred order:

- 1. Virtual Machine (works on all OS environments), or;
- 2. VS Code and MinGW (only for school workstations).

1 | Virtual Machine

Using a virtual machine will give you a virtualized Linux operating system (guest) on your main operating system (host).

This solution may be heavier on resources than the previous method.

- 1. Follow the instructions from here.
- 2. Follow the instructions from Software.pdf, starting at step 6 of "Manual installation (Windows/WSL or Linux)".

The **Shared Folders** functionality is higly advised, allowing you to keep all your projects in your main operating system (host) filesystem.

2 | VS Code and MinGW

This is the last option, since you'll not be able to work the necessary development methodology, IDE and testing. **You'll be left working without**:

- Valgrind;
- Doxygen, and;
- TUI mode (GDB).

However, it will be the option reserved for the school workstations to perform the assignments, if you don't have a personal laptop.

This is because WSL requires individual image installation for each student account and the school computers simply don't have the necessary disk space to accommodate multiple installations.

Program Template

If you, for any reason, use this method to obtain a development environment, then you must use the VS Code project structure of the CProgram_Template_MinGW, made available to you.

Installation

Useful Links:

- Installation and usage (youtube): Link
- MinGW Installer: Link

Perform the following steps:

- 1. Run the **MinGW installer** through the provided link;
- 2. Set C:\MinGW as the installation directory (pre-defined). This will be important for the subsequent configuration of VS Code;
- 3. In the package selection step, just select the mingw32-base package;
- 4. Choose the menu option Installation > Apply.
- 5. The path to the MinGW binaries must be recognized by Windows. To do this, search for the program "Environment Variables" in the Windows Start menu (example minute 15:40 of the youtube video);
- 6. Edit the Path to include the C:\MinGW\bin folder;

Author and support

Bruno Silva (bruno.silva@estsetubal.ips.pt)

You should ask your PL teacher for any help regarding these contents and procedures.