Preliminary issues (before the exam)

Steps 1 and 2 must be done at home, before attending the exam:

1. Make two copies of your V2 directory and name them **UOxxxx-Ex1** and **UOxxxx-Ex2**
2. Create a file within each new UOxxxx-Ex[12] directories named: "**UOxxxx-readme**"

Steps 3 and 4 must be done on the exam computer, before disconnecting from the network:

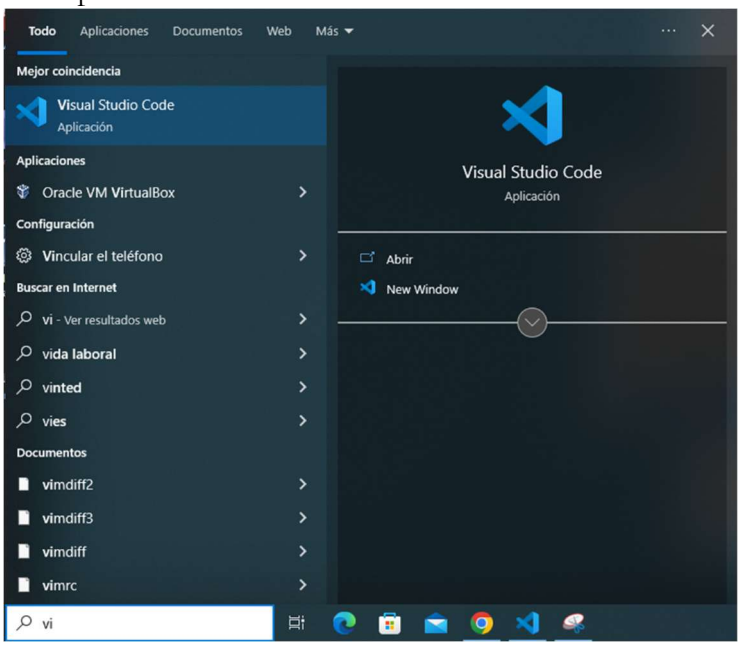
3. Download from the task for the V2 exam in the eCampus the file containing example programs and suggested tests that appear in the exercises.
4.

a) If you want to use ddd debugger:

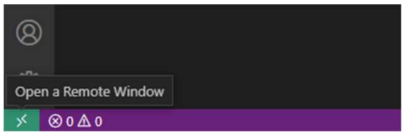
- Open MobaXTerm
- Open new session choosing "WSL-Ubuntu-20.04"
- Execute the command "export DISPLAY=localhost:0.0"
- Execute the command "ddd"

b) If you want to use MS Visual Code:

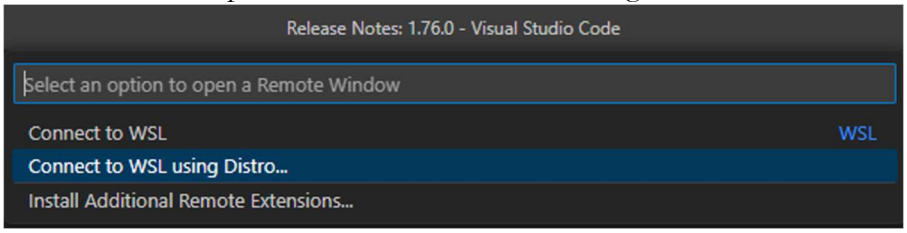
- Open MS Visual Code



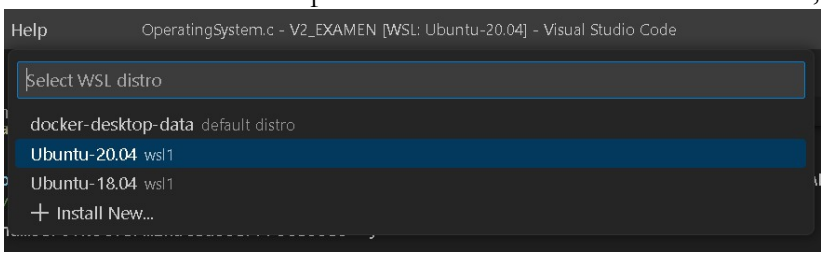
- Then, in the bottom left corner, click on the green box showed in the screenshot



- A menu will open to connect to Ubuntu through WSL, select **"Connect to WSL using Distro…"**

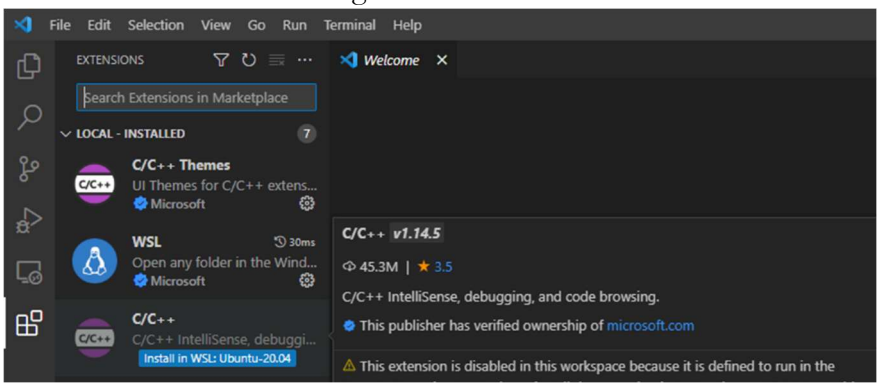


- Another menu will open to choose which Ubuntu to boot on, select **Ubuntu-20.04**

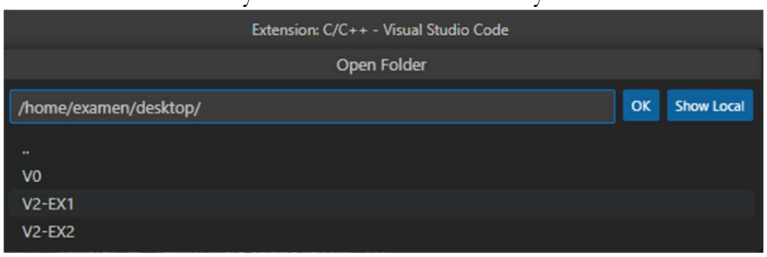


- If the steps were followed correctly, in the lower left corner, you should see the following image:

- Now, go to the extensions tab and install the C/C++ IntelliSense extension on WSL-Ubuntu, in order to be able to debug:



- Name: C/C++, Id: ms-vscode.cpptools
  Description: C/C++ IntelliSense, debugging, and code browsing.
  Publisher: Microsoft
  VS Marketplace Link: https://marketplace.visualstudio.com/items?itemName=ms-vscode.cpptools
- When the installation is finished, in the extensions tab, access this last extension, and select the "Reload required" option if necessary.
- Finally, all that remains is to go to the working directory, for this we have already created a symbolic link to the Windows desktop from Ubuntu. All you have to do is run "File>Open Folder" and select the directory where you want to start working.



- If your directory contains the expected "`.vscode`" sub-directory, you must be able to run and debug from inside MS Visual Code, entering the arguments for the Simulator inside ".vscode/launch.json" file.

Other remarks (during the exam)

- Write comments in your code according to the following format, to more easily identify the code you have modified.

  // Exam-V2-2024

- Add to this **"UOxxxx-readme"** file, **the complete code of the functions that you have modified or created to perform each exercise**.
- If you modify data structures, copy their whole definition.
- If you create new variables or definitions outside functions, copy those lines and indicate where to find them in your code.
- Include in the **"UOxxxx-readme"** files the extra tests that you have made to check the correctness of your solution:
  - Each line with the call to the simulator and the arguments.
  - All the programs used in these tests must be included in the same directory as the source files.

Instructions to deliver the exam

- Do a cleanup of your code, running: **`make clean`**.
  If you have any files with the redirected output of some simulation, old readme or ZIP files, delete them as well.
- Generate a single compressed file **`Surname1Surname2NameUOxxxx-ExV2.zip`** for your directories:
  From its **PARENT** directory:

```
zip Surname1Surname2NameUOxxxx-ExV2.zip UOxxxx-Ex[12]/*
```

A file named **`Surname1Surname2NameUOxxxx-ExV2.zip`** should be created

- Check that the generated file contains what is expected (UOxxxx-Ex1 and UOxxxx-Ex2 directories):

```
unzip -l Surname1Surname2NameUOxxxx-ExV2.zip
```

- Upload **`Surname1Surname2NameUOxxxx-ExV2.zip`** to the corresponding Task on the eCampus.