



IDE Setup for CP

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Goal

- Compiler Installation for C++
- Local IDE Setup
- Installing Extensions for C++ (VS Code)
- Setting up CPH Judge

NOTE : Part 1 & 2 are discussed more for Windows over Mac & Linux.



Part 1 : Compiler Installation



Compiler Installation for Mac

- CodeForces Blog :

<https://codeforces.com/blog/entry/101012>

- YouTube Video:

<https://www.youtube.com/watch?v=HYrXBoDJmcw>



Compiler Installation for Linux

- Install g++ into your computer by using the package manager for your respective linux flavour.
- For Debian derivatives (like Ubuntu), use the following command :
`sudo apt-get install g++`
- After installation type the following the command to confirm installation :
`g++ -v`

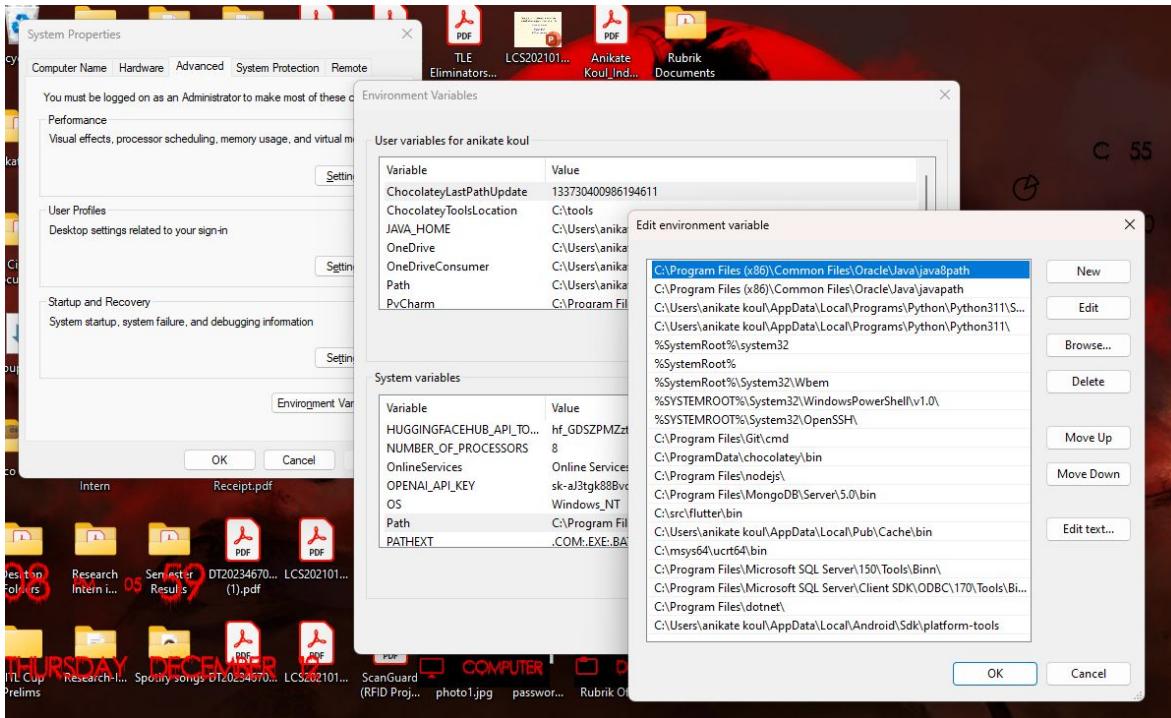


Compiler Installation for Windows

- Install MSYS2 : <https://www.msys2.org/>
- Follow the steps mentioned on the website to install gcc.
- Add the location to the bin folder in the path environment variables.
- The location of bin folder would be {location to msys2}/ucrt64/bin. This is most likely (C:/msys64/ucrt64/bin).
- Follow this YouTube tutorial :
<https://www.youtube.com/watch?v=pTtF6TKJpo8> except for the bin folder location.



Compiler Installation for Windows



Editing
Environment
Variables



Part 2 : Local IDE Setup



VS Code Setup for Mac

- Installation Guide for VS Code (MacOS specific):
<https://code.visualstudio.com/docs/setup/mac>



VS Code Setup for Linux

- Installation Guide for VS Code (contains instructions for most of the popular Linux distributions):

<https://code.visualstudio.com/docs/setup/linux>



VS Code Setup for Windows

- Installation Guide for VS Code (Windows specific):
<https://code.visualstudio.com/docs/setup/windows>



Sublime Text Setup for Mac

- Installation Guide for Sublime Text (MacOS specific):

https://www.youtube.com/watch?v=Fql_b-xZYwQ



Sublime Text Setup for Linux

- Installation Guide for Sublime Text (Debian family specific):
<https://www.youtube.com/watch?v=YyKyi3L0f2s>



Sublime Text Setup for Windows

- Installation Guide for Sublime Text (Windows specific):
<https://www.youtube.com/watch?v=9JrRbVRhEf0>
- Skip the instructions from 2:54 to 3:29.



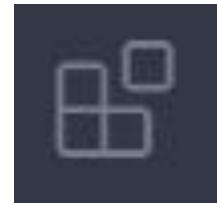
Part 3 : Installing Extensions for C++ (VS Code)



Extensions for C++

Download the following extensions from the extension tab :

- C/C++ (provides intellisense for compile time errors)
- Code Runner (simplifies the process of running code manually)
- CPH Judge (By Divyanshu Agrawal)



Extension tab
looks like this



Part 4 : Setting up CPH Judge



Fine Tuning CPH Judge

- Click on the extension settings for CPH Judge.
- Apply the following settings :

The screenshot shows the 'Cph > Language > Cpp' settings in the VS Code settings editor. It includes three sections:

- Cpp: Command**: A dropdown menu set to 'g++'. Description: 'Command used to compile .cpp files. Example 'g++', 'g++-10', 'clang++', etc.'
- Cpp: Output Arg**: A dropdown menu set to '-o'. Description: 'C++ compiler's argument that specifies the output files.'
- Cpp: Submission Compiler**: A dropdown menu set to 'GNU G++23 14.2 (64 bit, msys2)'. Description: 'The compiler chosen in the drop down during Codeforces submission for cpp'



Setting up Competitive Companion

- Add the following chrome extension :
<https://chromewebstore.google.com/detail/competitive-companion/cjnmckjndlpiamhfimnnjmncgkghkjbl>
- Clicking the extension creates a new file with all the sample test cases in the root directory of the currently open folder in VS Code.