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Development tools for Windows(10) installation C\C++ compiler and CMake installation

Mingw download

http://mingw.org/



Mingw installation

Click install



I suggest you leave all options as on this screenshot



Just keep watching on green bar



Click Continue



Then you'll see this window. We need to install only mingw32-base-bin and mingw32-gcc-g++-bin



Click Installation and then Apply Changes

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Adding Mingw compilers' folder to PATH variable



Rightclick on This PC and then Properties

Click on Advanced System Settings

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Click on Environment Variables



Choose PATH variable and click Edit

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Click Browse and choose MinGW\bin folder



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CMake installation

Don't forget to add CMake to PATH



Developing C\C++ programs without IDE

Now we can already create programs with text editors (for example I'll use Sublime Editor)

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Lets's create a simple program and save source code in main.cpp file

Now we can compile it through terminal (just write cmd in address bar to open it)



Write g++ main.cpp to compile a source code



Now we have a.exe file that we can run



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IDE installation

Developing programs with text editor is cool, but it would be better to develop program with IDE. In this guide I'll show you how to install CLion and Qt IDEs. You can choose any of them. As for me, I like both, so it's for you to decide. But if you have weak PC, I suggest you choose Qt.

Qt







Qt installation

You can just skip this step



We only need Qt Creator that is chosen by default

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Install it wherever you want



Click Tools/Options and set compilers, debugger and CMake

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Now you can run a simple program (Run or Ctrl+R)

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CLion



CLion installation

You can set these options as you wish, but I prefer like on screenshot



I prefer not to send



Choose theme





Make sure that CLion found compilers and CMake and skip remaining steps

Activate your student license (if you don't have it yet, get it on JetBrains' website)



First project Click New Project



Select project folder and set Language standard to C++11



Now you can run this simple program

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Development tools for Linux (Ubuntu) installation C\C++ compiler and CMake installation

Just type in terminal "sudo apt-get install gcc g++ cmake"



Developing C\C++ programs without IDE

Now we can already create programs with text editors (for example I'll use Sublime Editor)





Create a simple program and save it as main.cpp

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We just complied executable file a.out that can be executed through terminal



IDE installation

Developing programs with text editor is cool, but it would be better to develop program with IDE. In this guide I'll show you how to install CLion and Qt IDEs. You can choose any of them. As for me, I like both, so it's for you to decide. But if you have weak PC, I suggest you choose Qt.

Qt

Qt download

Just type in terminal "sudo apt-get install qtcreator"



Ok, now we can run it

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CLion CLion download





CLion installation

Extract folder from archive



Then run clion.sh script through terminal

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First project

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Choose project folder and set Language standard to C++11

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Now you can run this program by clicking Run button