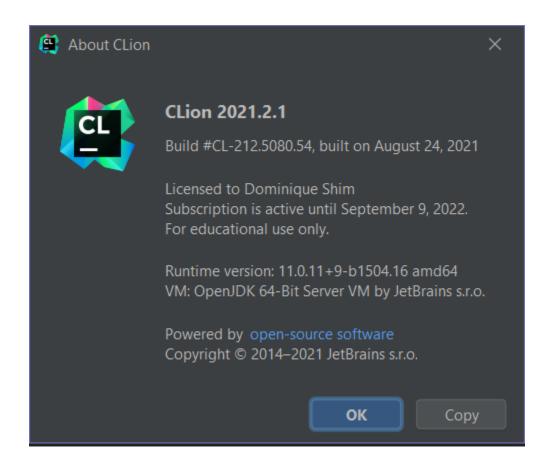
## IDE Used

IDE: CLion

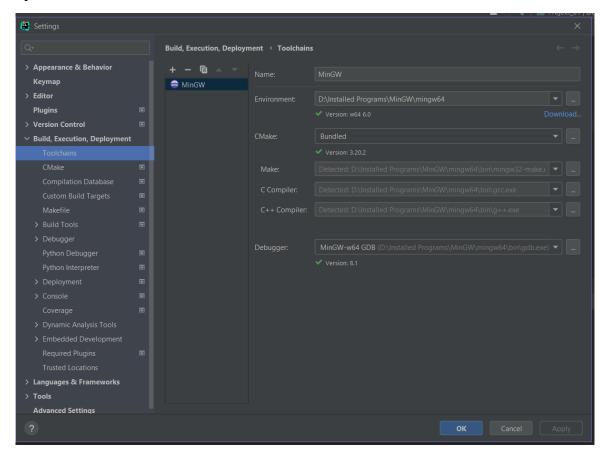
IDE Version: 2021.2.1



## **Environment**

Environment for IDE: MinGW

Compile: G++



Environment for command line: MinGW

Compiler: gcc

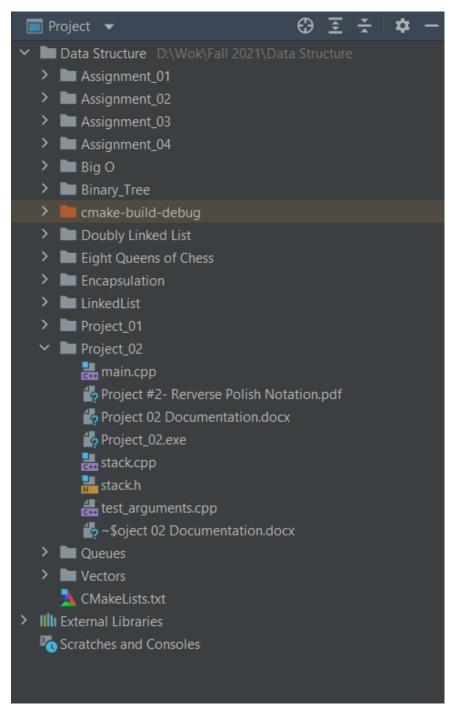
```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Dominique> gcc --version
gcc.exe (MinGW.org GCC-6.3.0-1) 6.3.0
Copyright (C) 2016 Free Software Foundation, Inc.
This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

PS C:\Users\Dominique>
```

## File Directory



## **Testing**

```
a main.cpp × a stack.h ∶
                       int main()
                         ff main
                         "D:\Wok\Fall 2021\Data Structure\cmake-build-debug\Project_02.exe"
                         top of the stack is: /
                         50.1
                         Process finished with exit code 0
oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxed{oxiteth}}}}}}}}}}}}}
```

Adding values to the stack and first printing the value at the top then printing all the values in the stack.

Project 2: Reverse Polish Notation

Continuing from the previous instance, pop was called twice and the top value was printing along with all the values in the stack.

Project 2: Reverse Polish Notation

Name: Dominique Shim

\_\_\_\_\_main.cpp \times = stackh \times

```
//printing all the values in the stack.
equation.printstack();

//popping the top two values and printing the new top
equation.pop();
equation.pop();
std::cout < "\nAfter removing two values the value at the top of the stack is: "<< equation.top() << std::endl;

//printing all the values currently in the stack
equation.printstack();

//printing all the values currently in the stack
equation.printstack();

//printing all the values currently in the stack
equation.printstack();

std::cout < "\nAfter removing two values the equation is: " << equation.evaluate();

// std::cout < "\nAfter removing two values the value at the top of the stack is: +

/ After removing two values the value at the top of the stack is: +

/ The result of the equation is: 80.1
Process finished with exit code 8
```

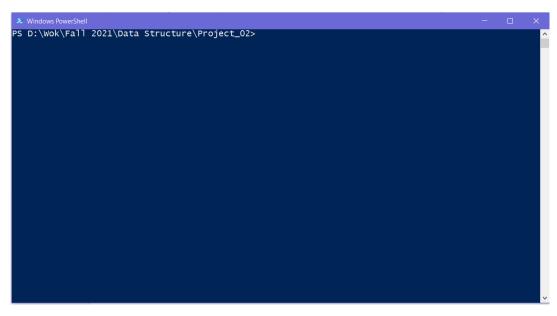
Printing the result after running the evaluate function.

Section: 02

Name: Dominique Shim How to Use Command Line to Run Program

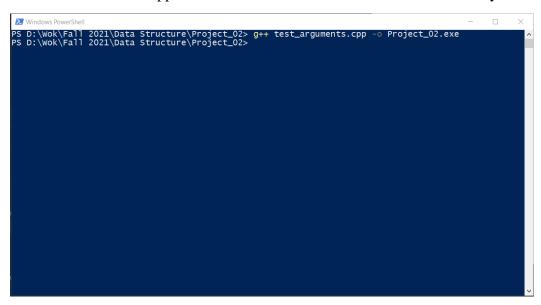
Step 1.

Open the command line in the same folder as the files



Step 2.

Run the command "g++ test\_arguments.cpp -o Project\_02.exe" to create an .exe file called Project\_02.exe. This file will appear in the folder that the command line is currently located



Project 2: Reverse Polish Notation

Name: Dominique Shim			Section: 02
Name	Date modified	Туре	Size
amain.cpp	11/8/2021 6:49 PM	JetBrains CLion	2 KB
Project #2- Rerverse Polish Notation.pdf	10/26/2021 3:33 PM	Adobe Acrobat D	292 KB
Project_02.exe	11/8/2021 6:56 PM	Application	123 KB
stack.cpp	11/2/2021 2:37 PM	JetBrains CLion	1 KB
😩 stack.h	11/8/2021 6:56 PM	JetBrains CLion	7 KB
test_arguments.cpp	11/8/2021 6:51 PM	JetBrains CLion	1 KB

Step 3. In the command line type ".\Project\_02.exe argument1 argument2 ... argumentn". The arguments should be in the order of polish notation.

Project 2: Reverse Polish Notation

**NOTE** 

When using multiply, use lower case x(x) rather than asterisk (\*). Using an asterisk will be treated as a wild card in the command line and return all the file names as an argument