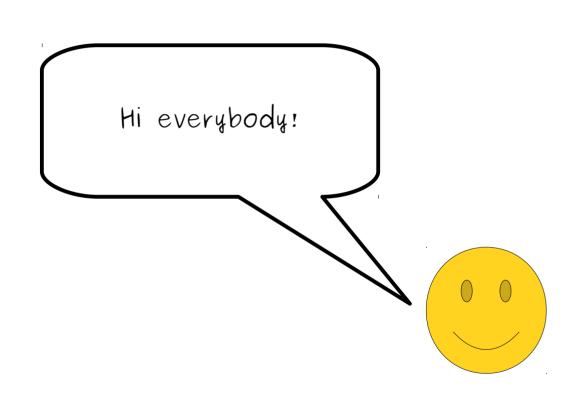
CS101B Debugger Tutorial

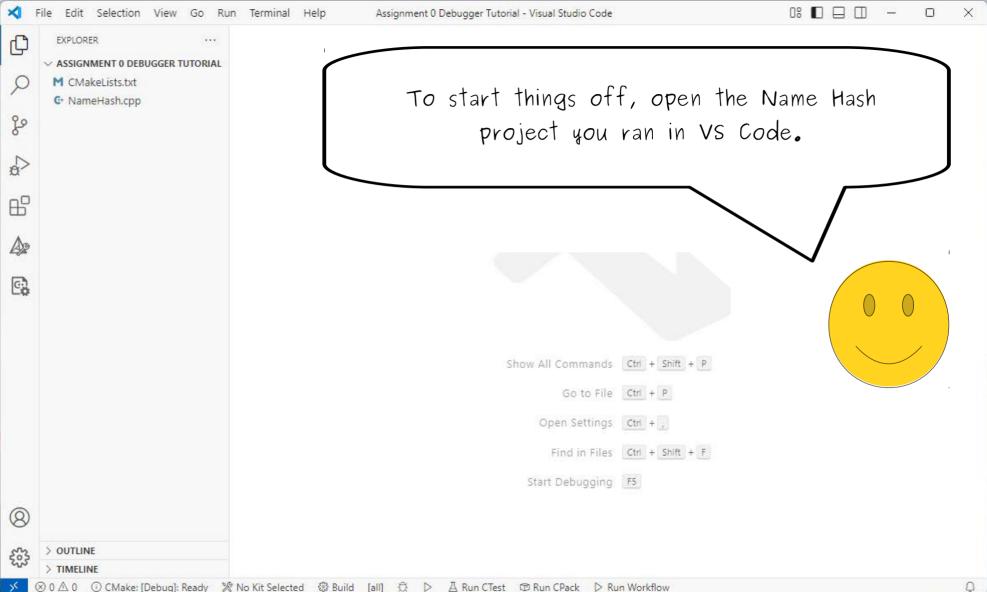


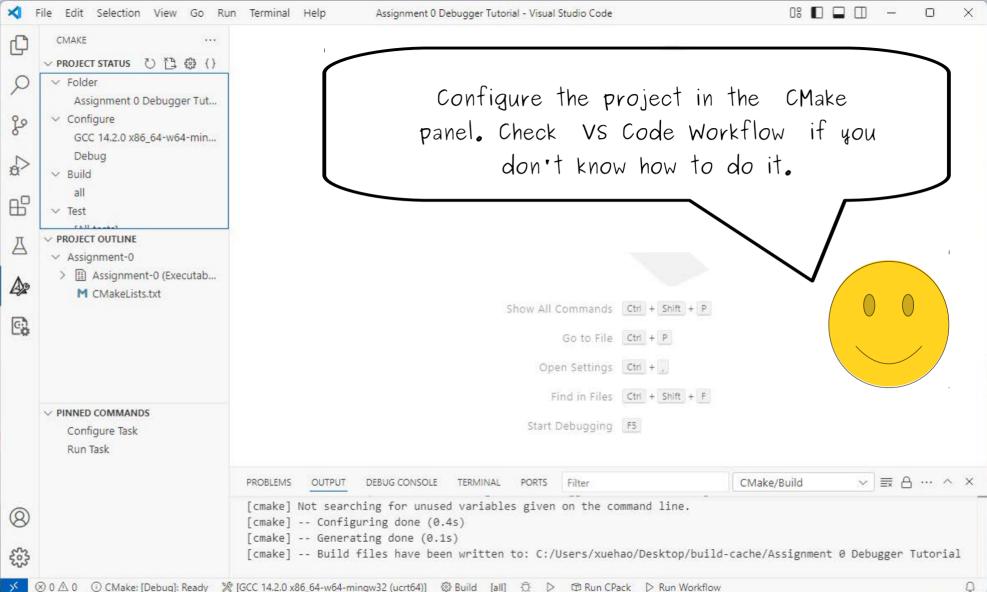
As part of Assignment 0, we'd like you to get a little bit of practice using the debugger in VS Code.

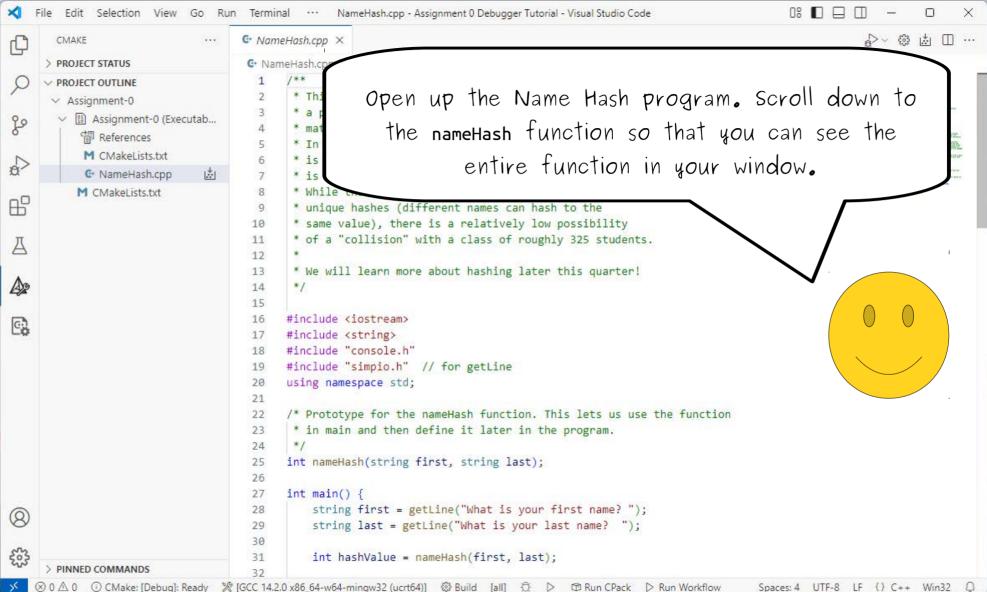
The debugger is a tool you can use to help see what your program is doing as you run it.

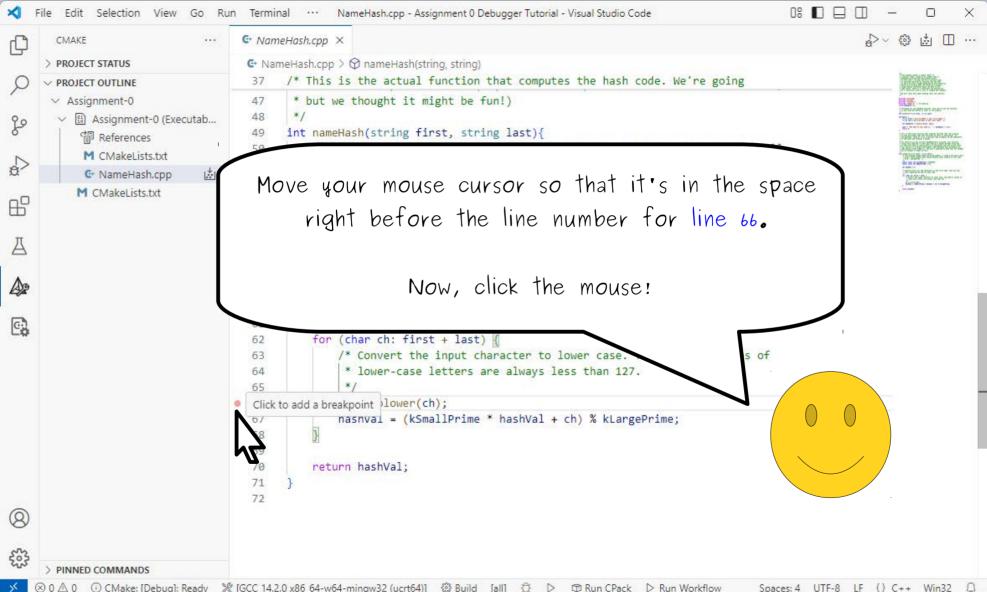
It's really useful for helping find errors in your programs, and the more practice you get with it, the easier it'll be to correct mistakes in the programs you write.

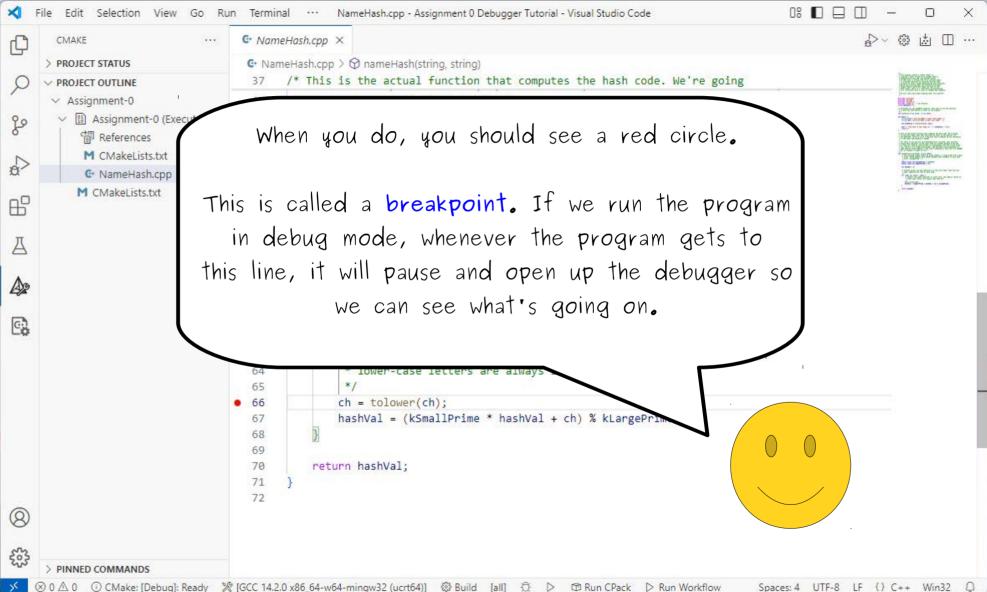
Think of this guide as a little tutorial walkthrough to help give you a sense of how to use the debugger and how to make sense of what you're seeing.

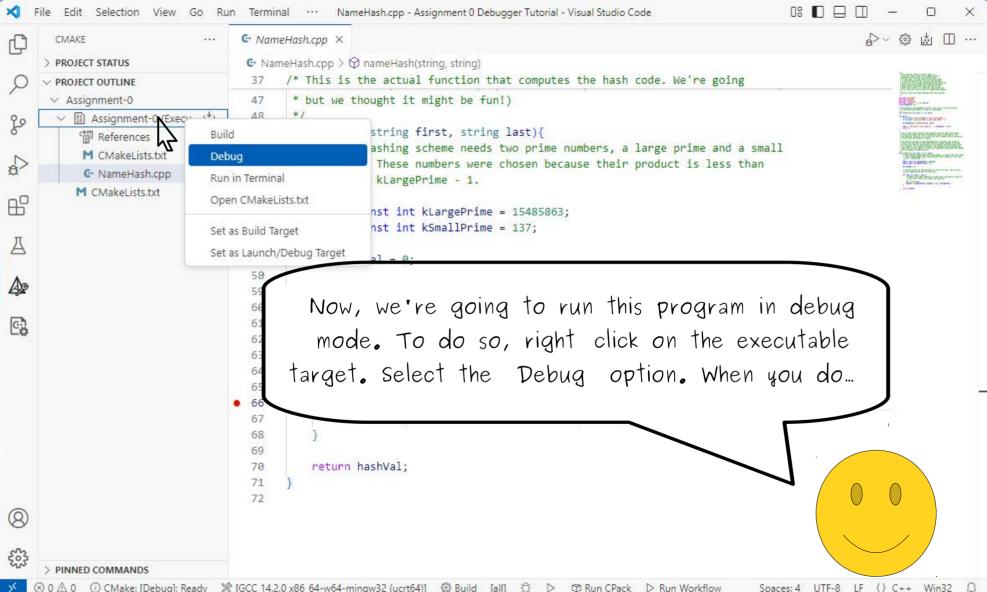


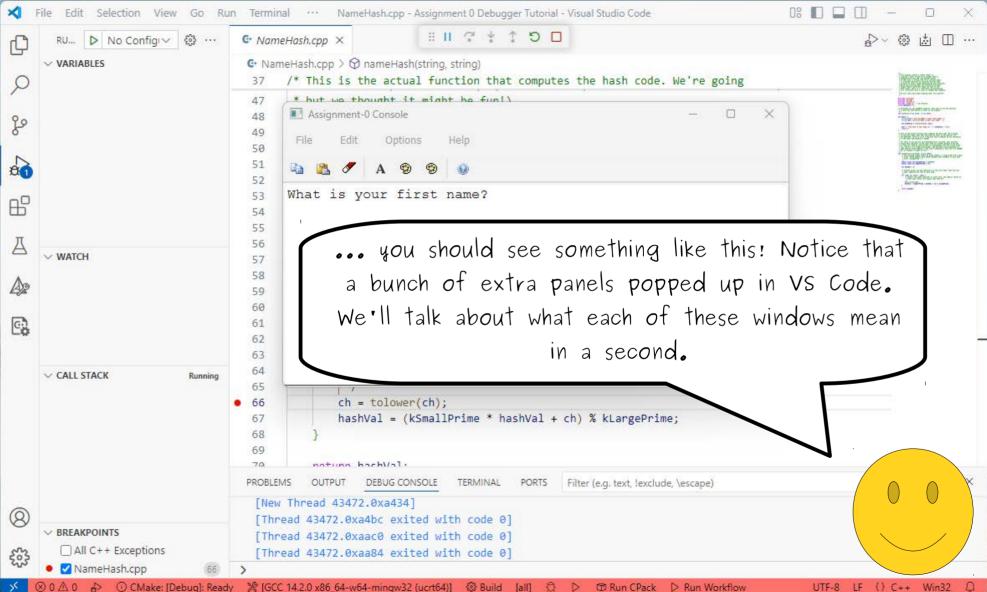


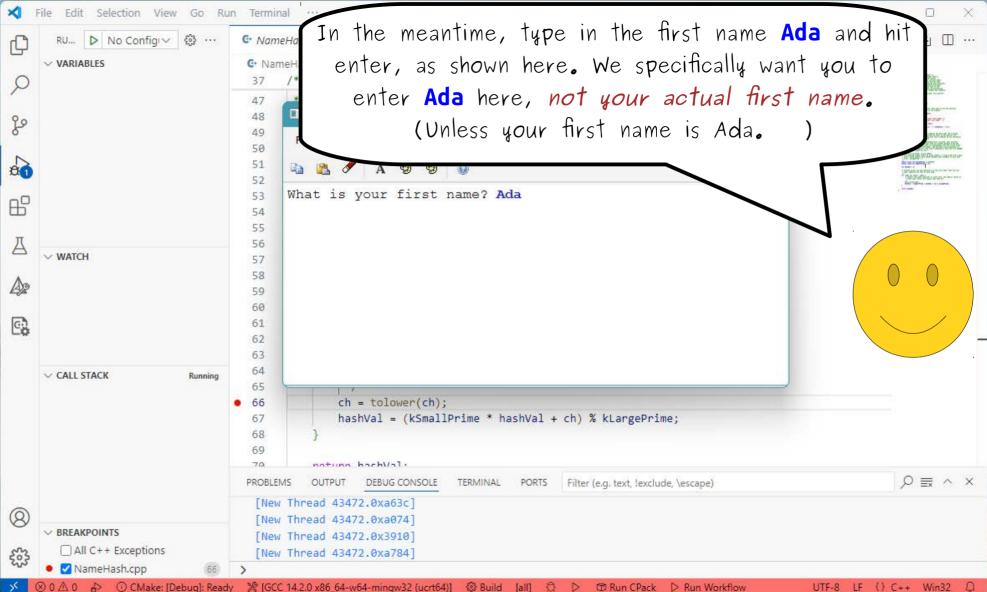


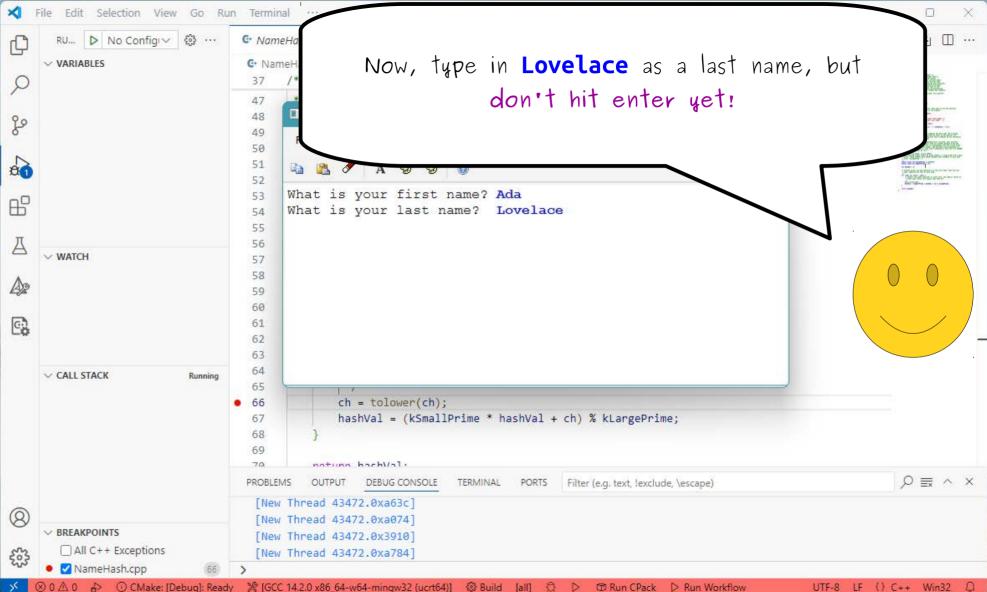


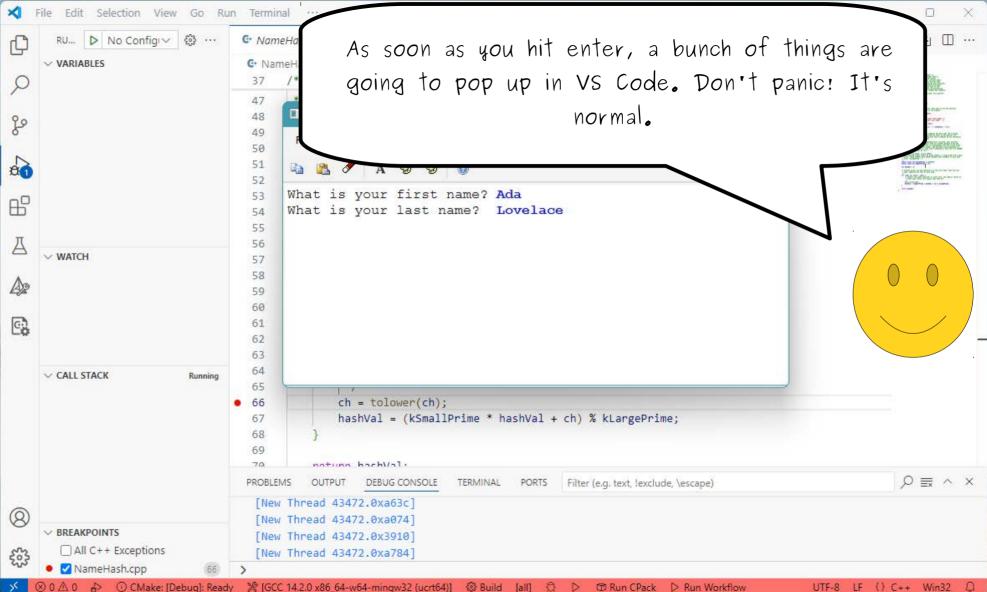


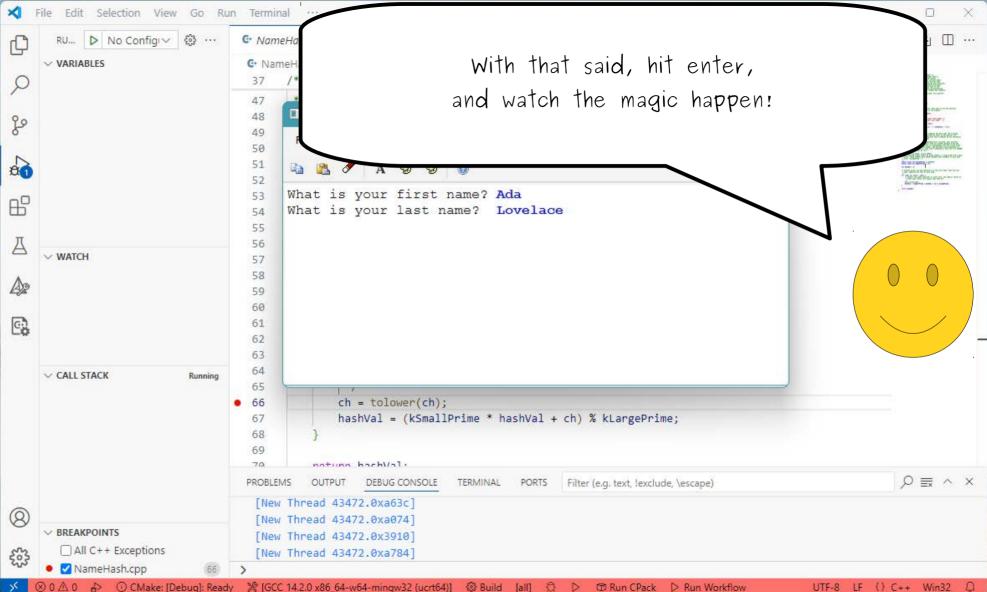


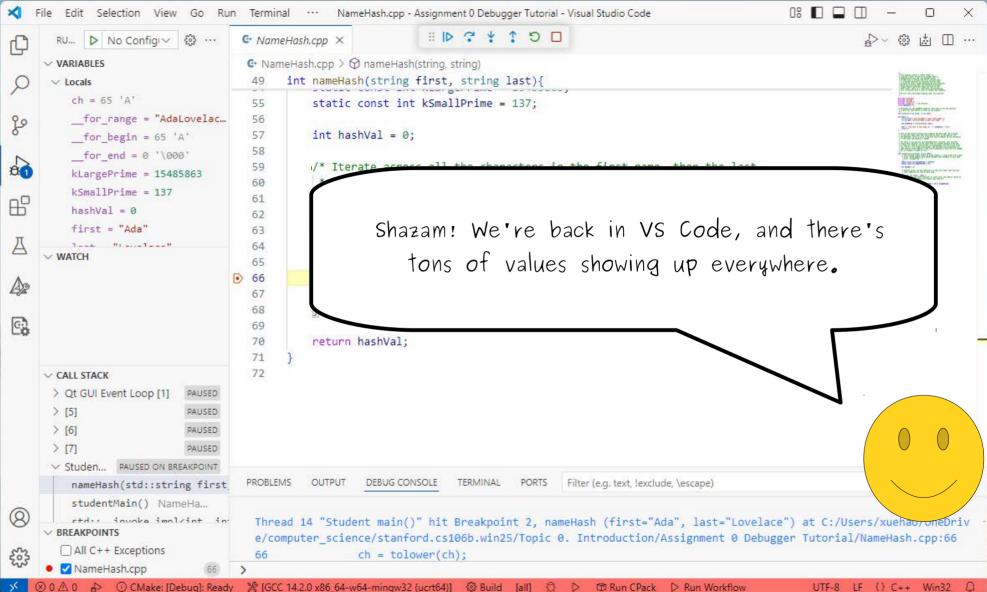


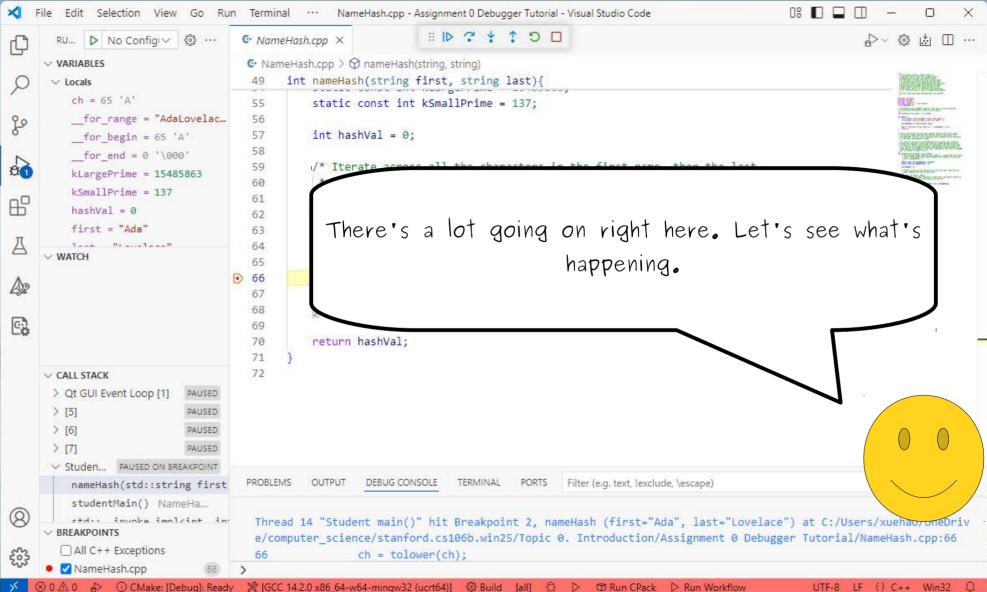


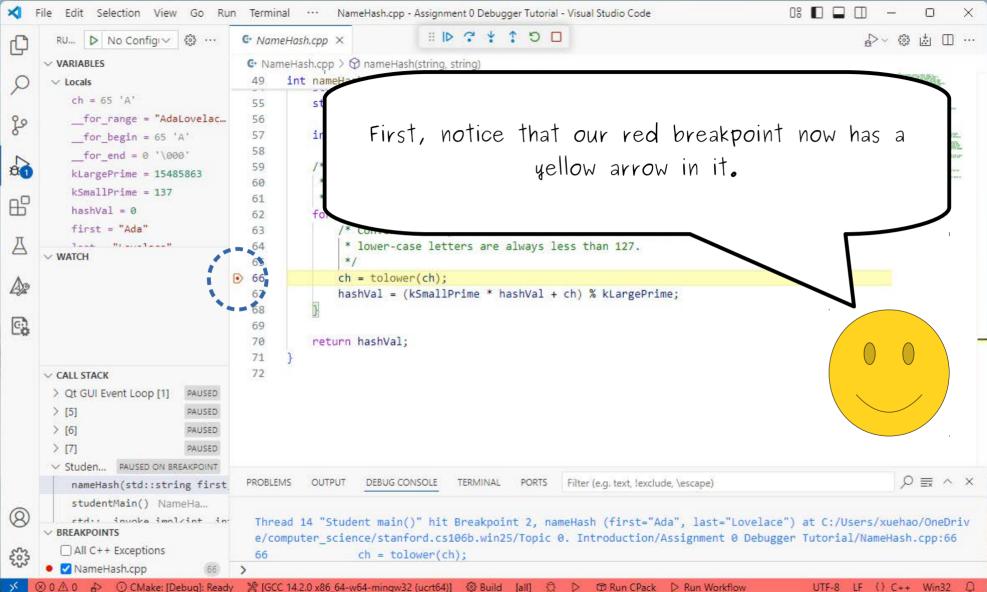


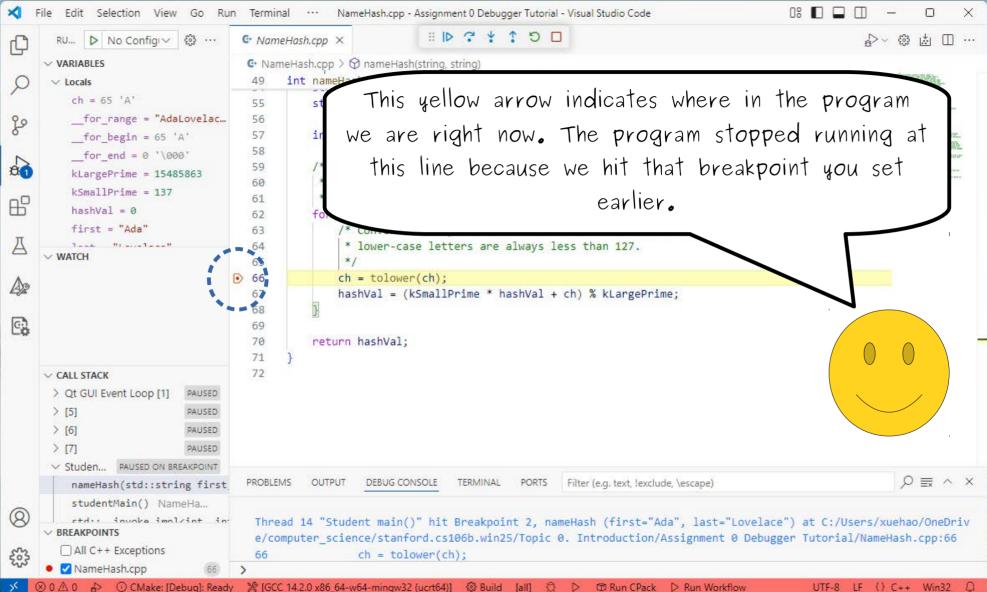


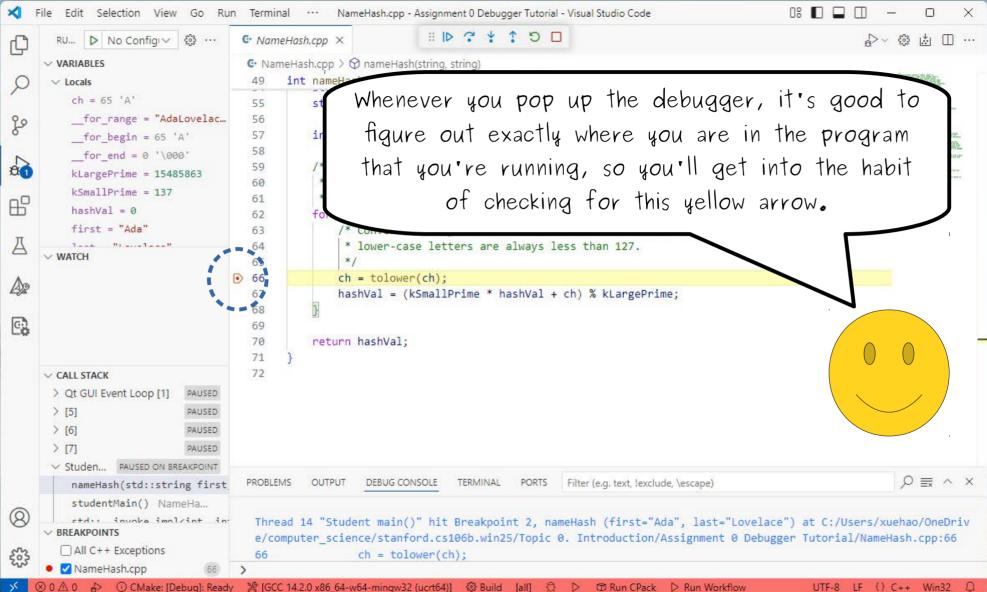


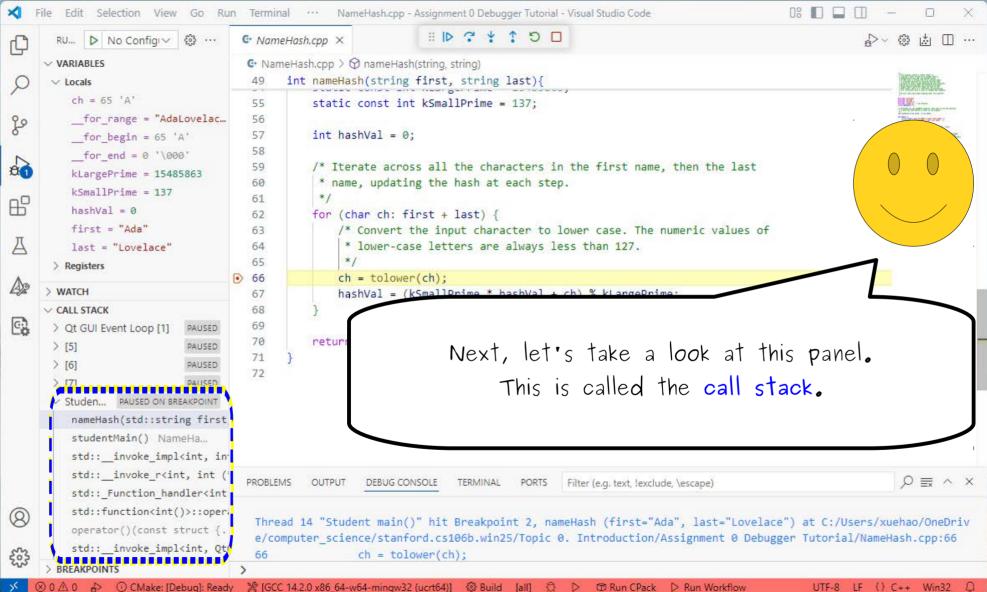


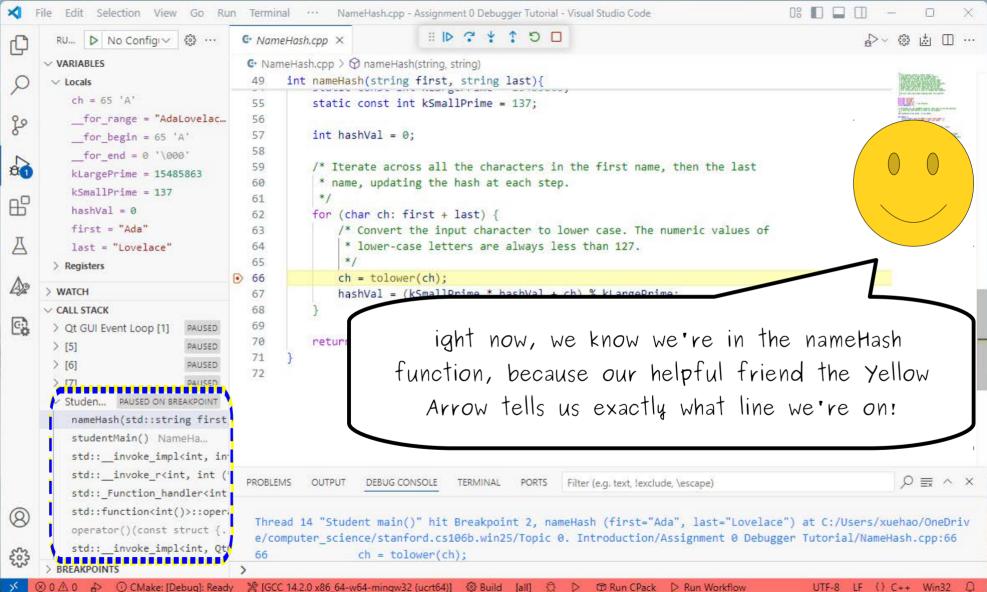


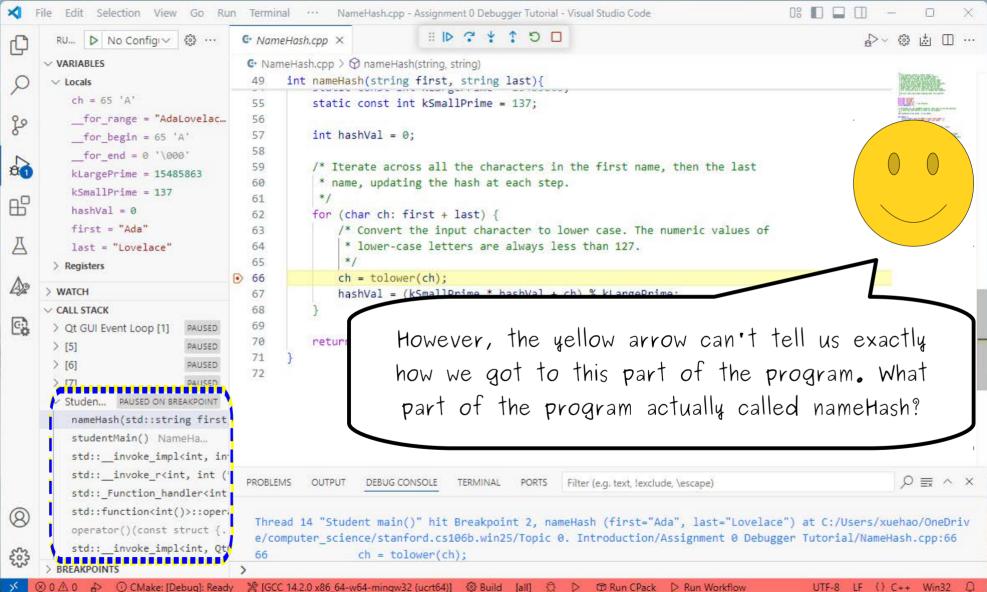


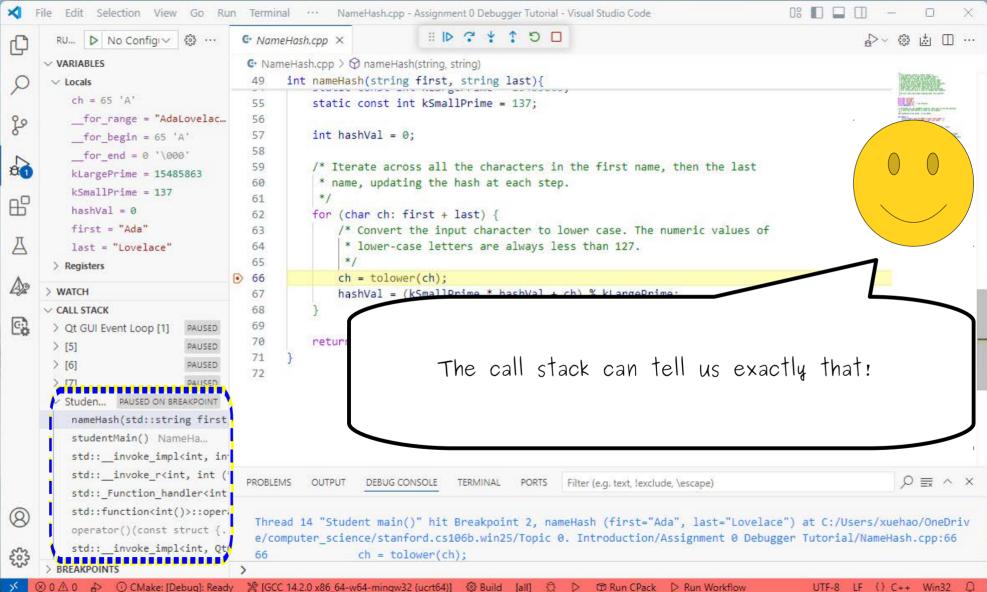


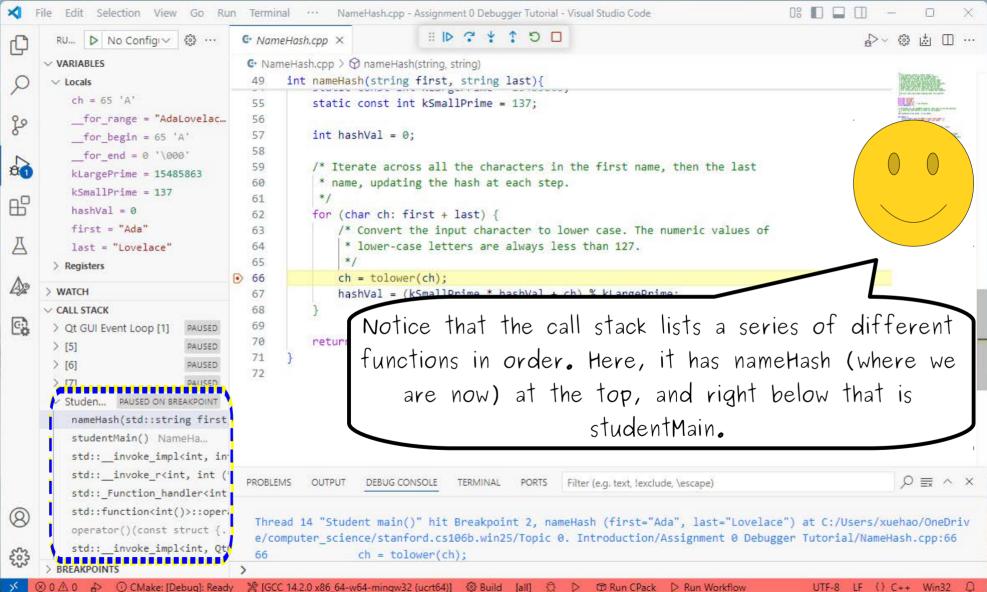


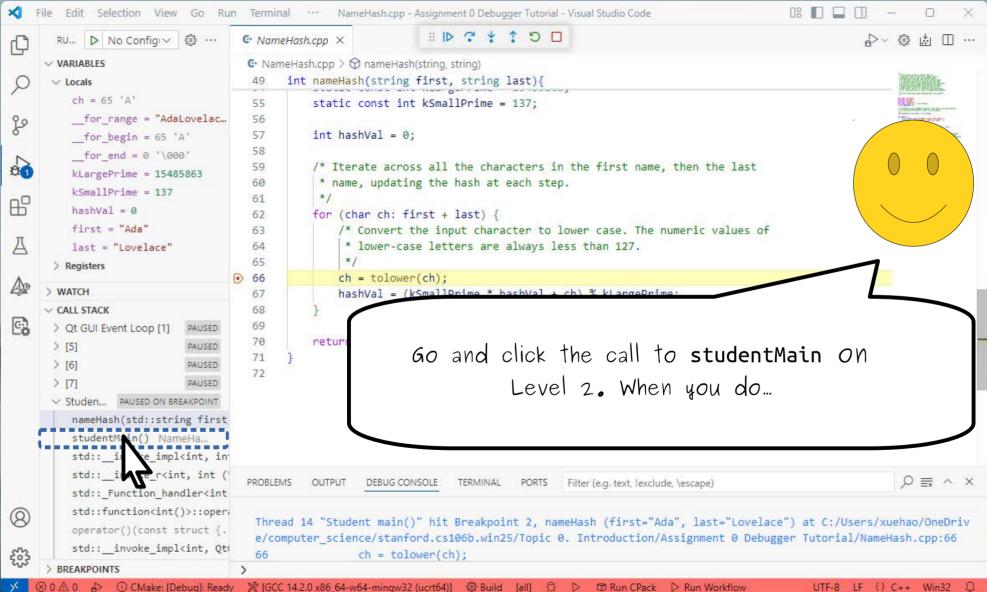


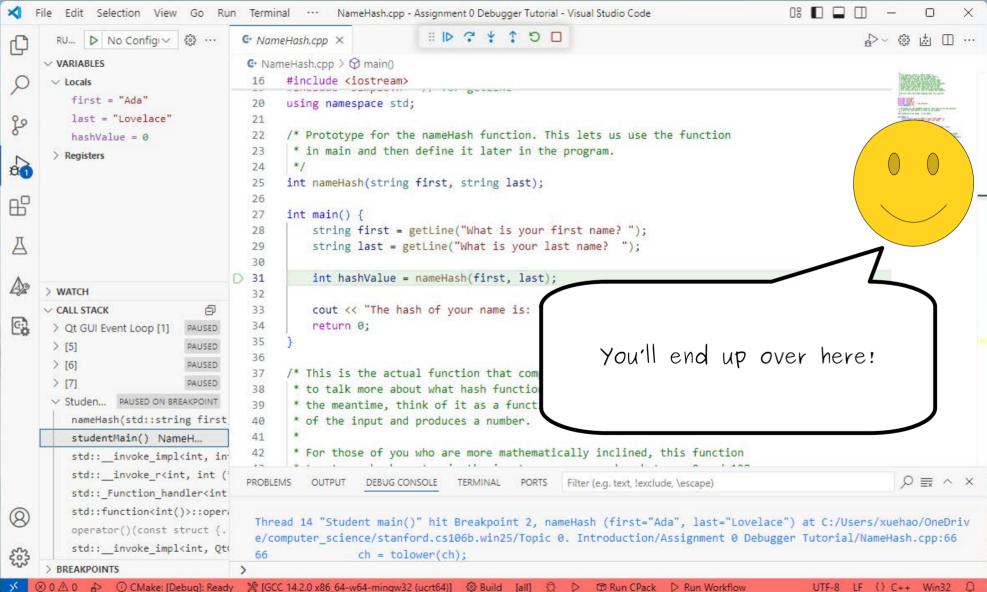


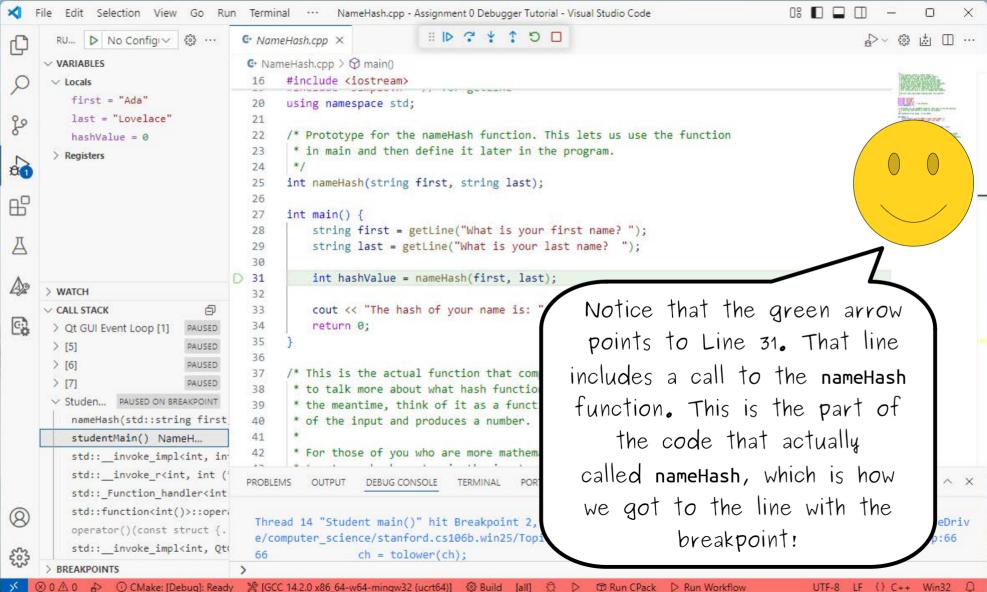


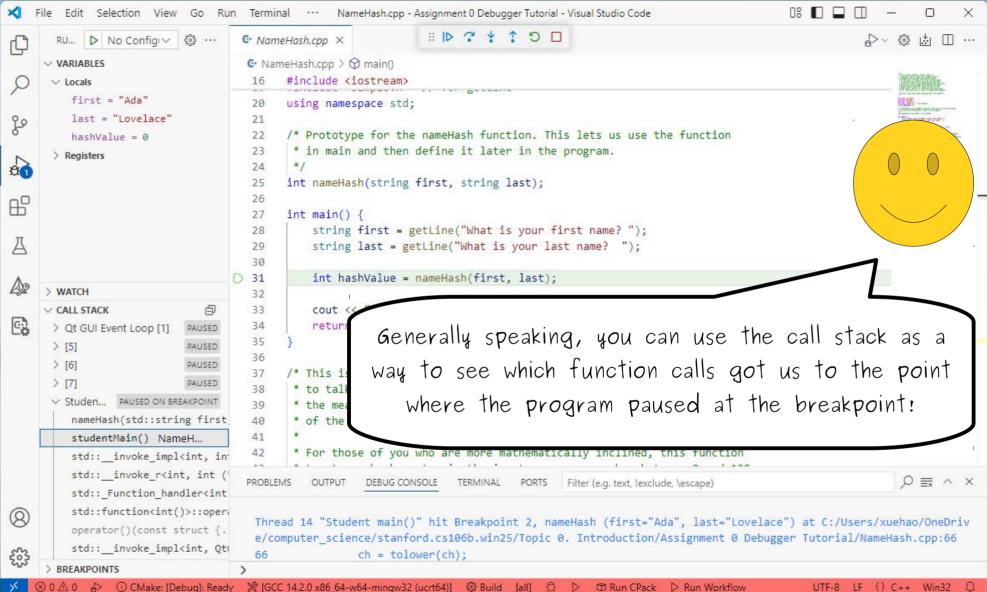


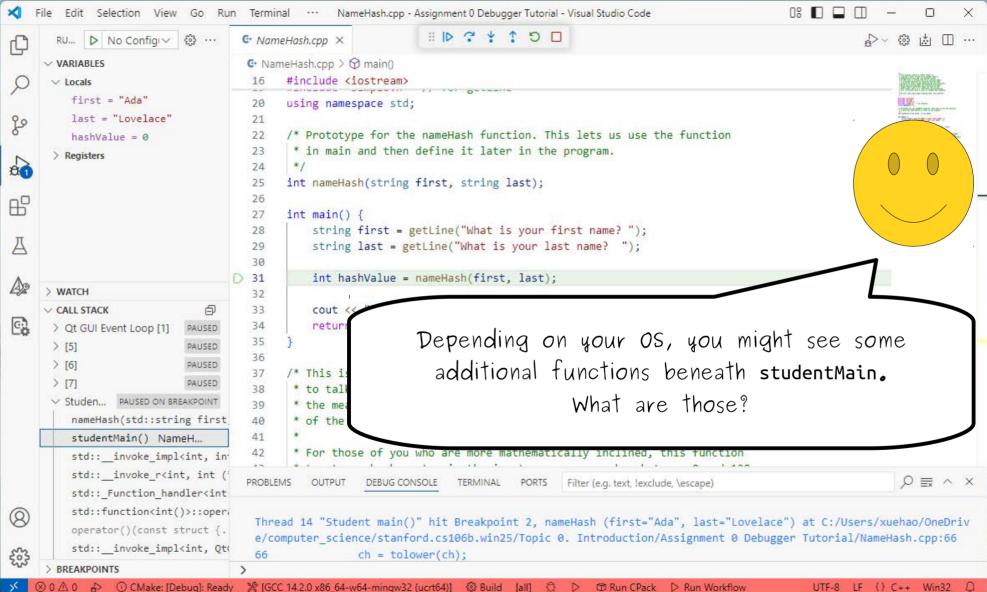


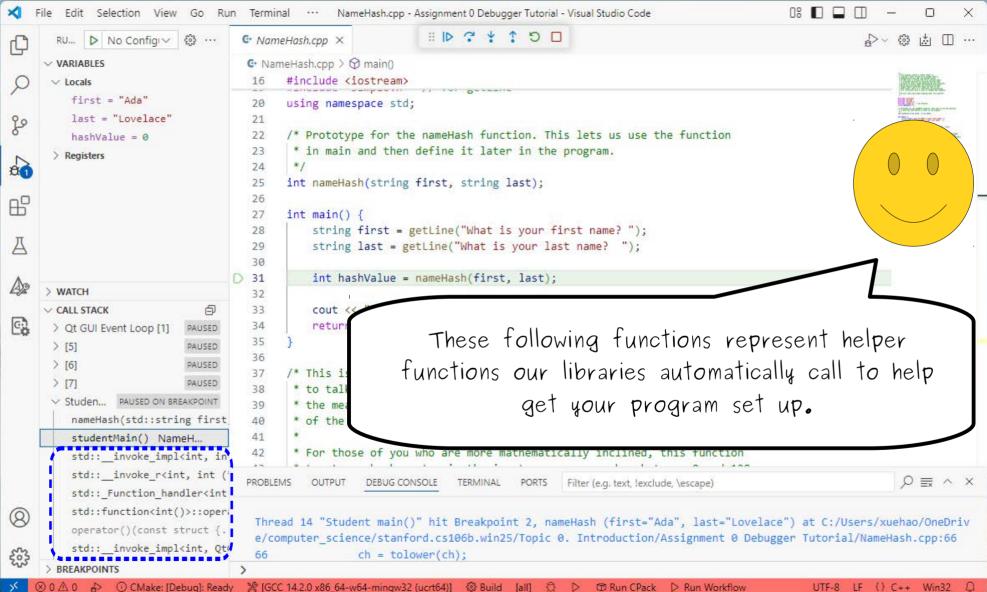


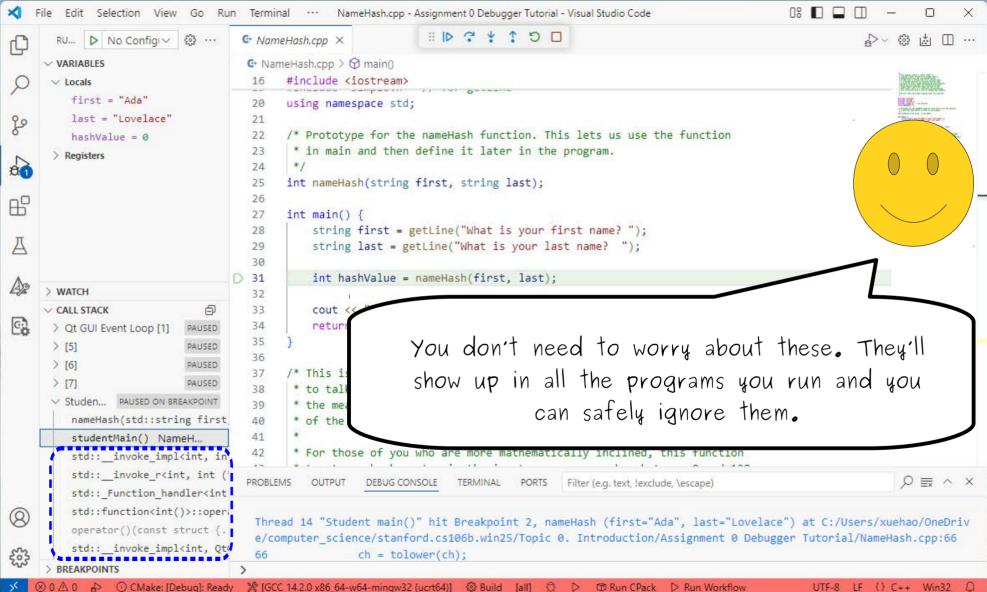


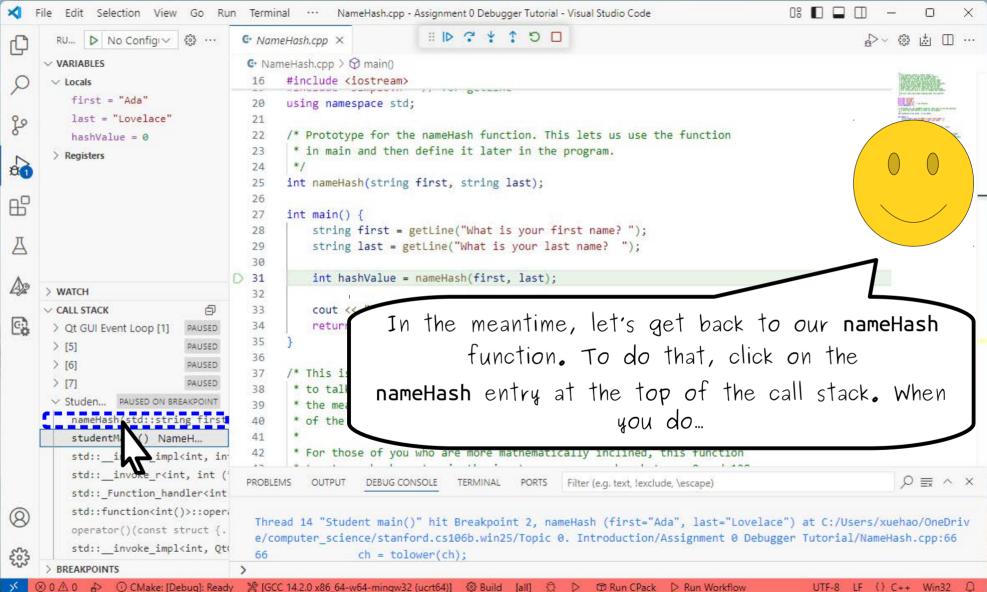


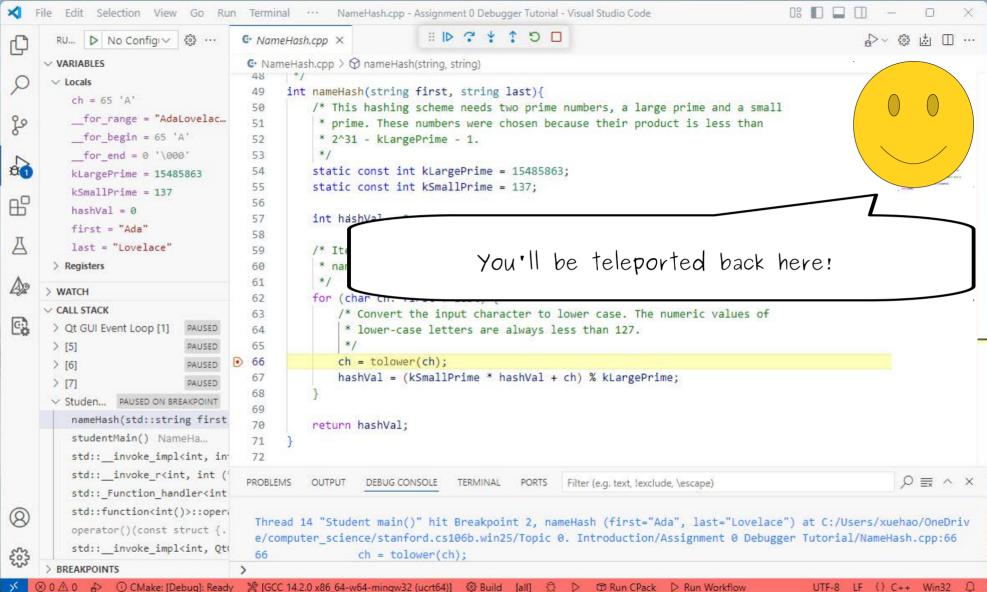


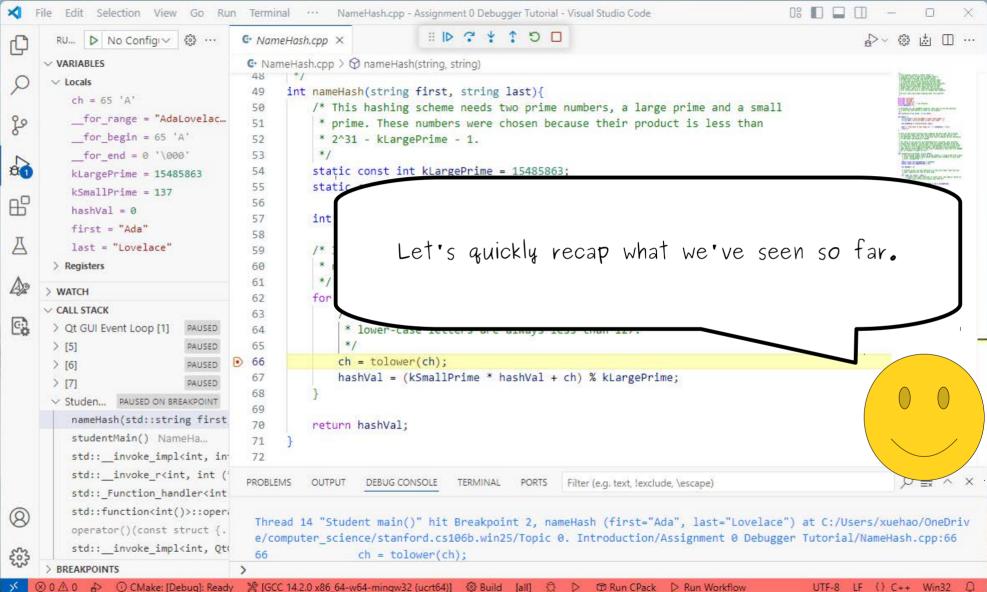


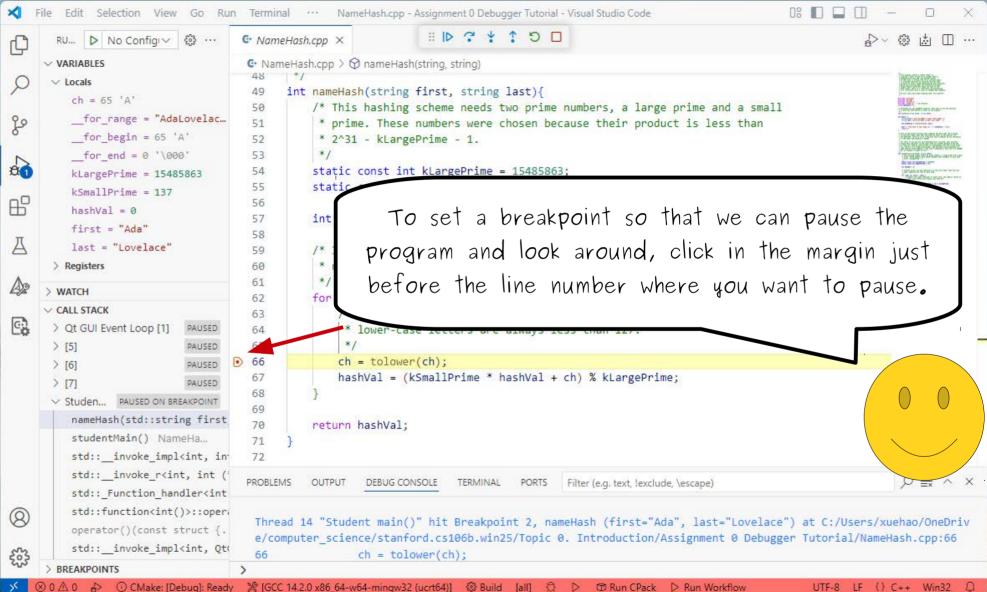


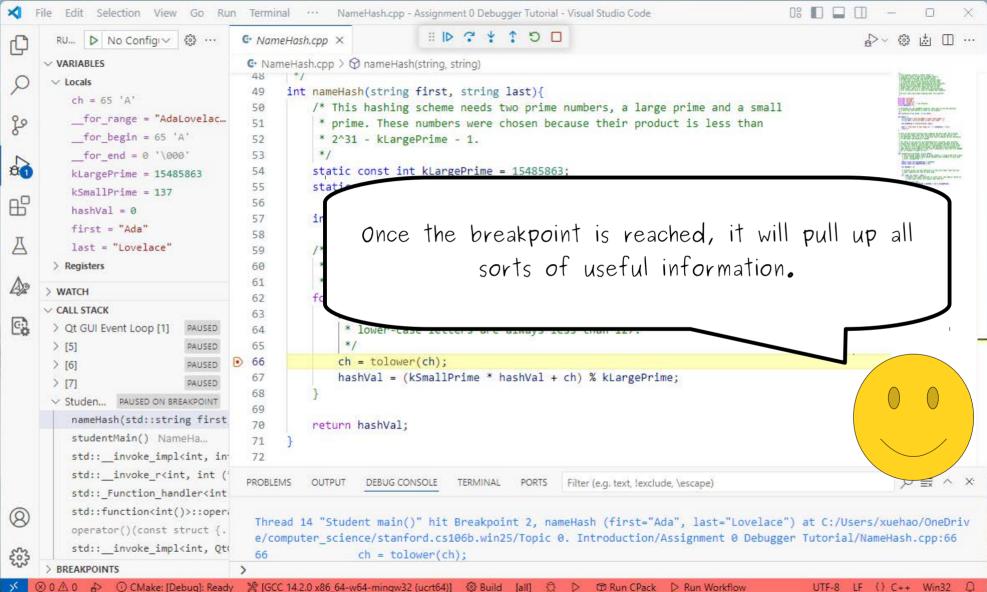


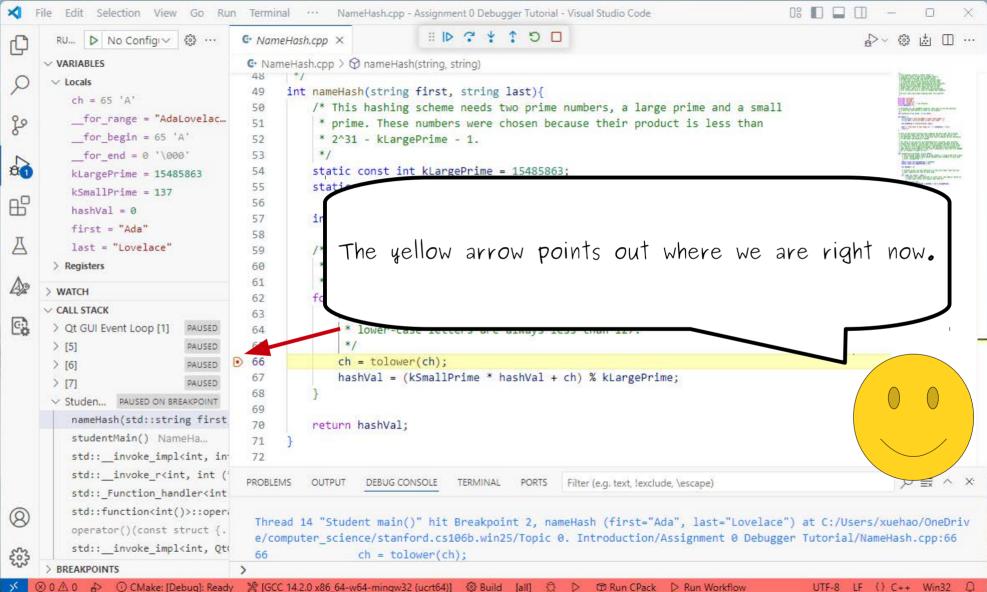


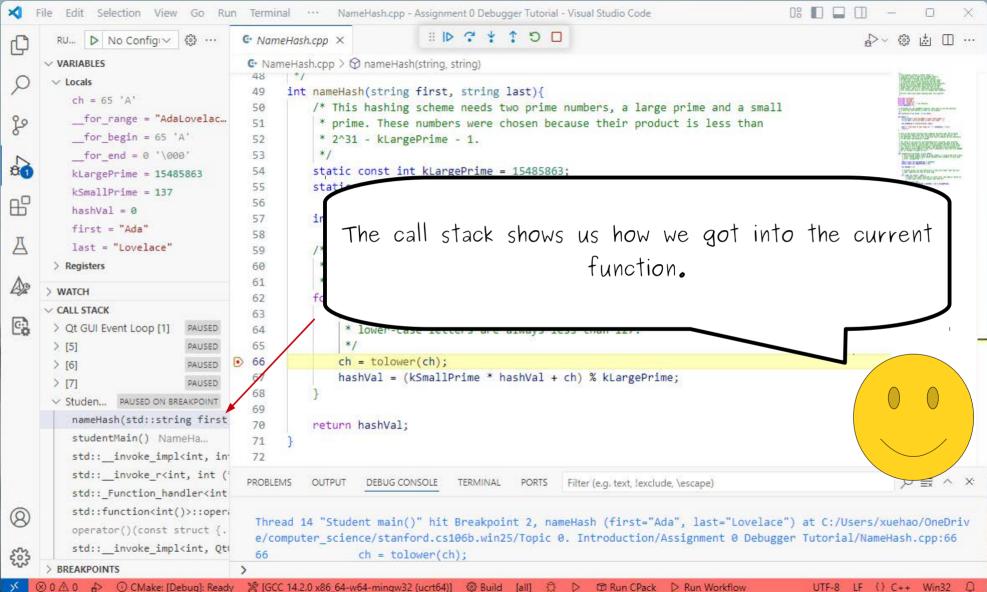


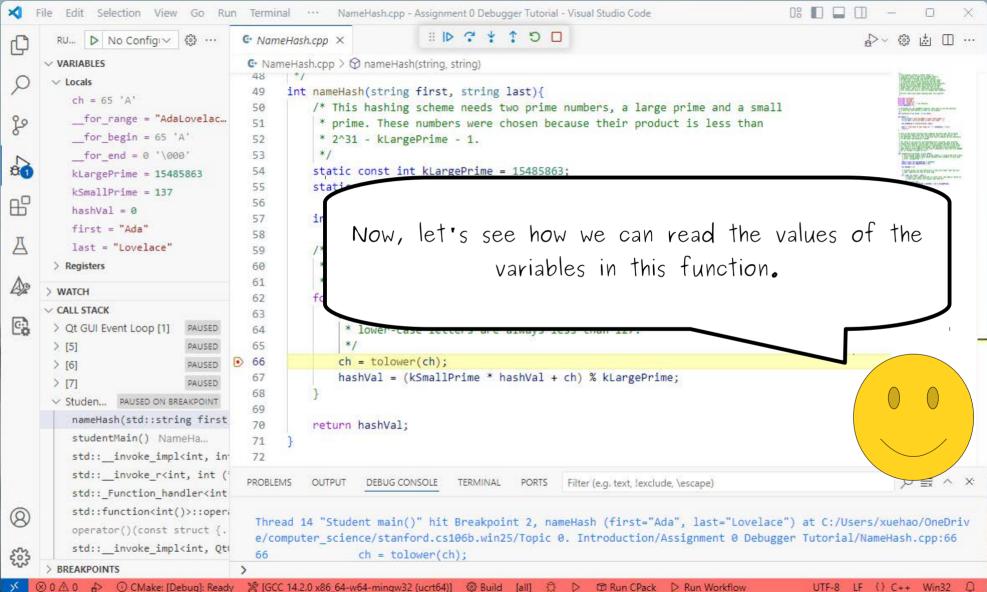


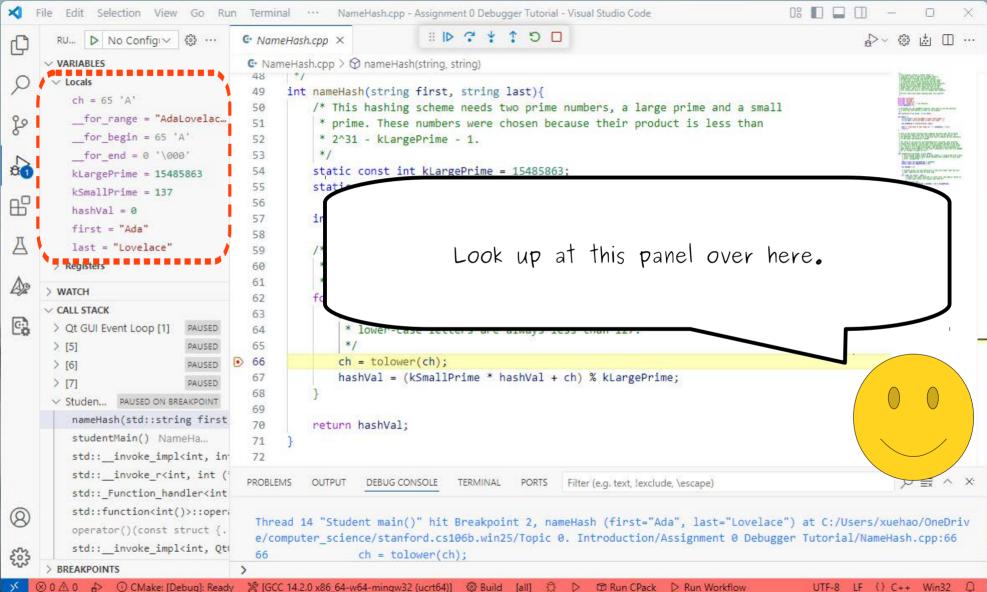


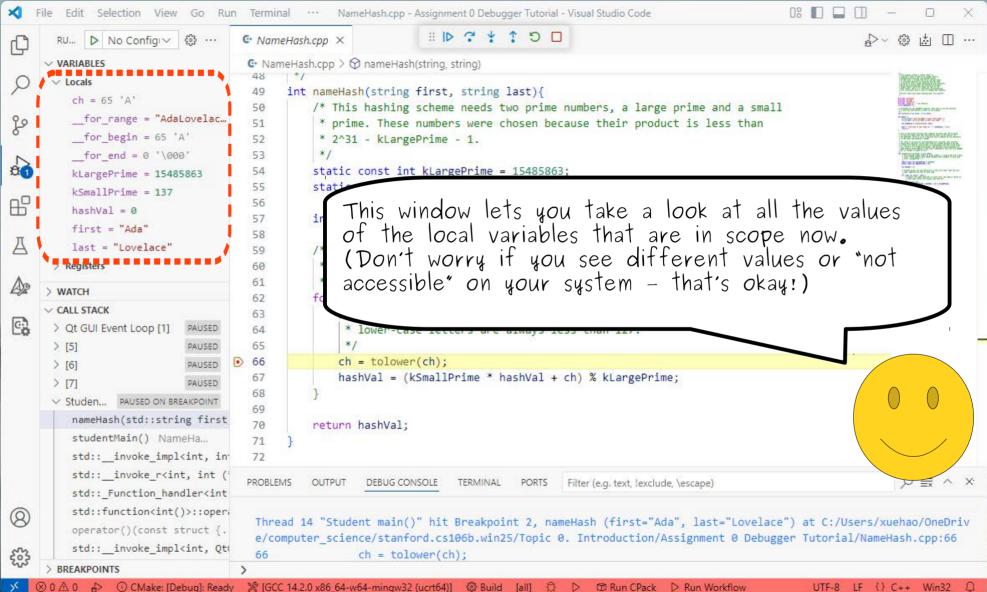


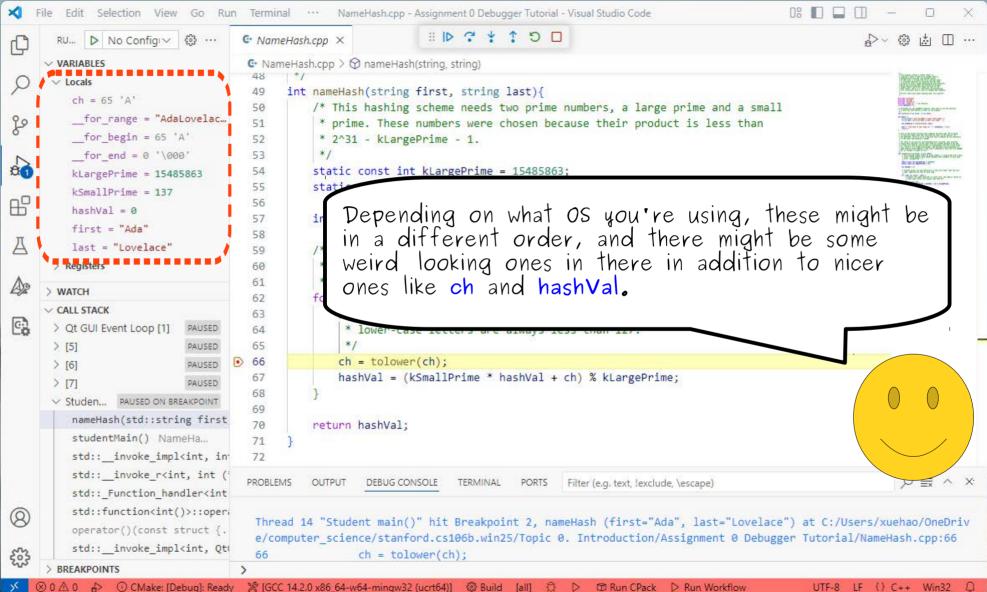


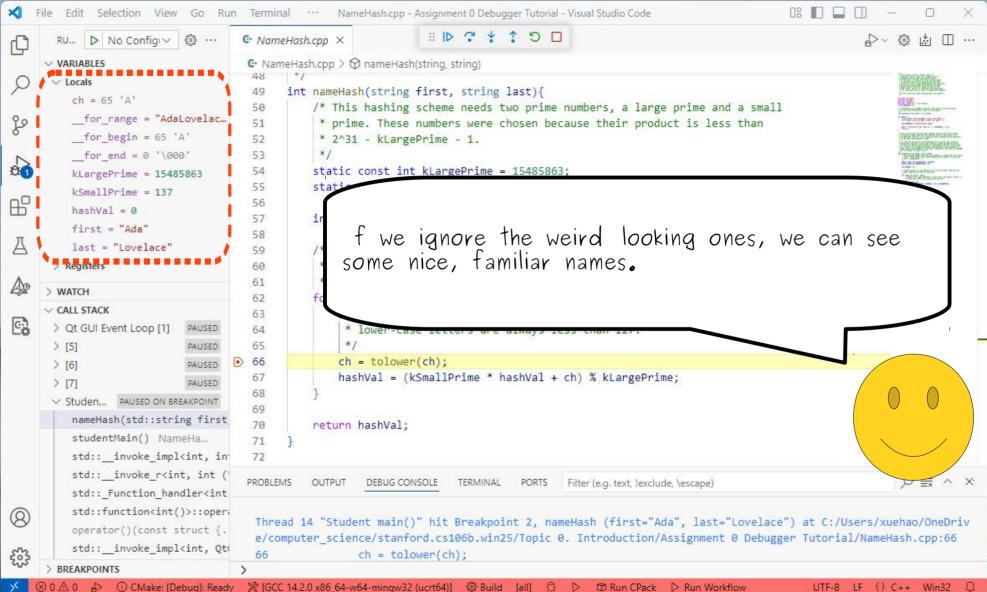


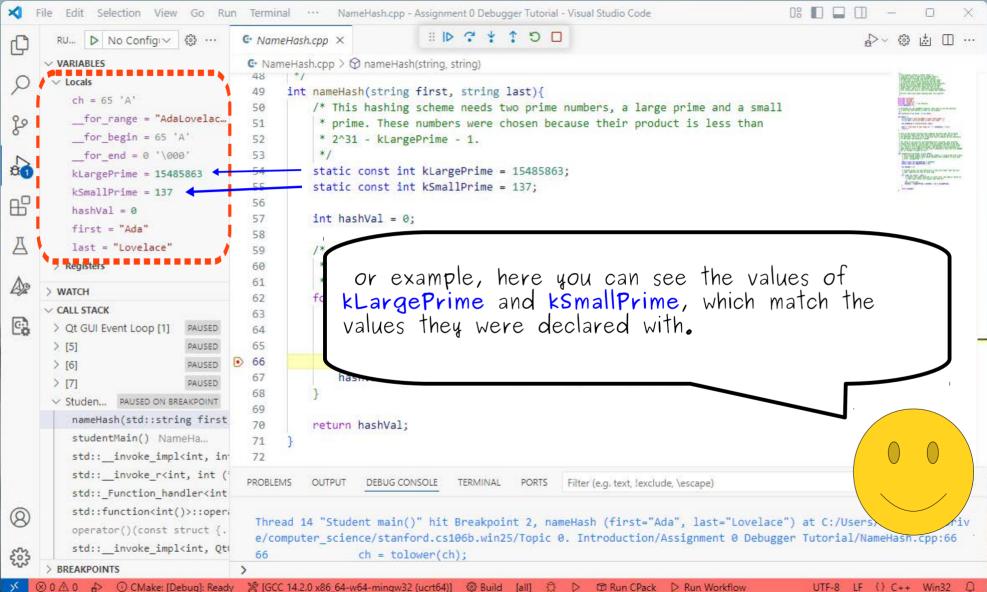


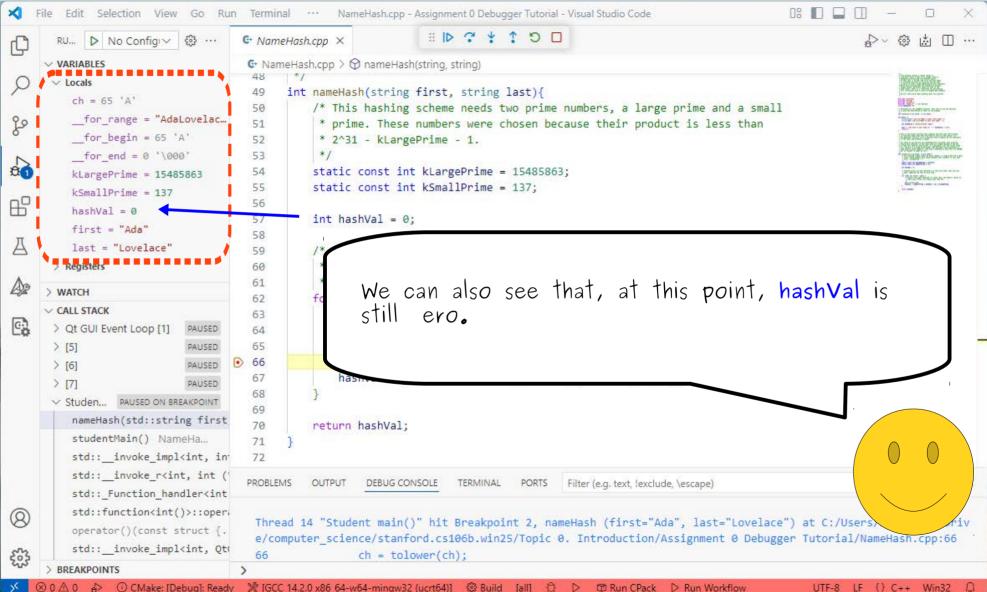


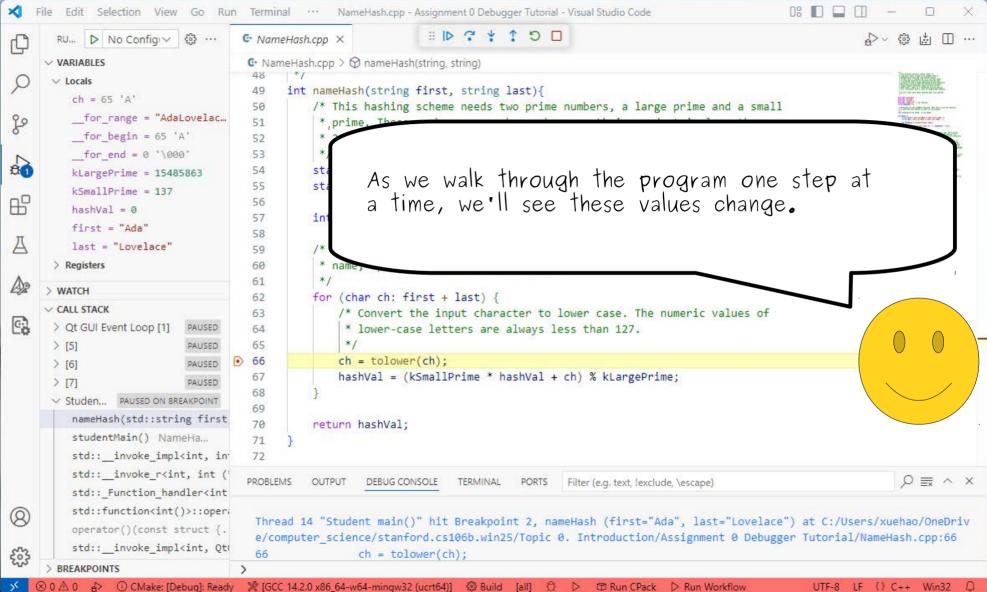


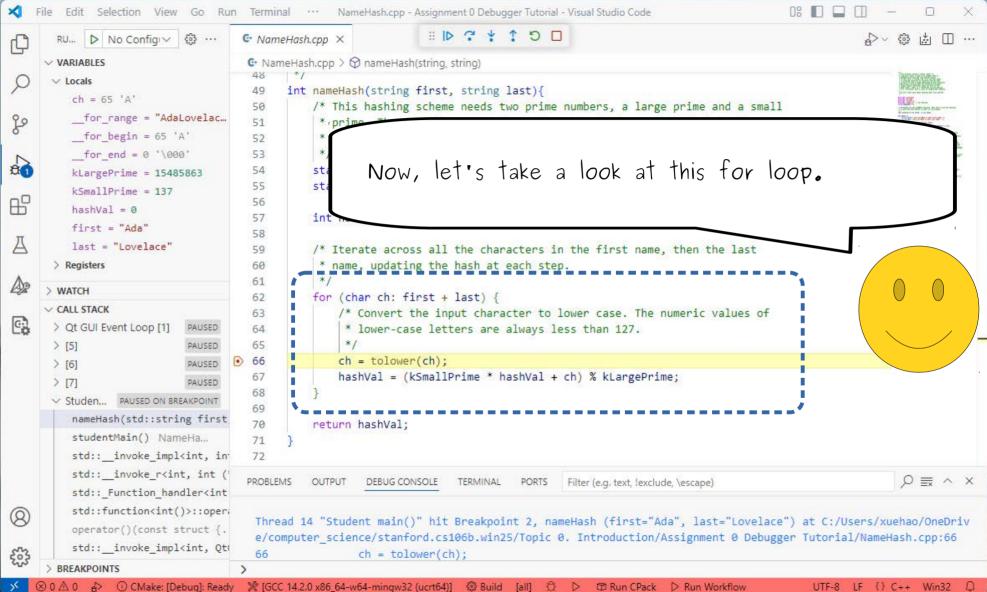


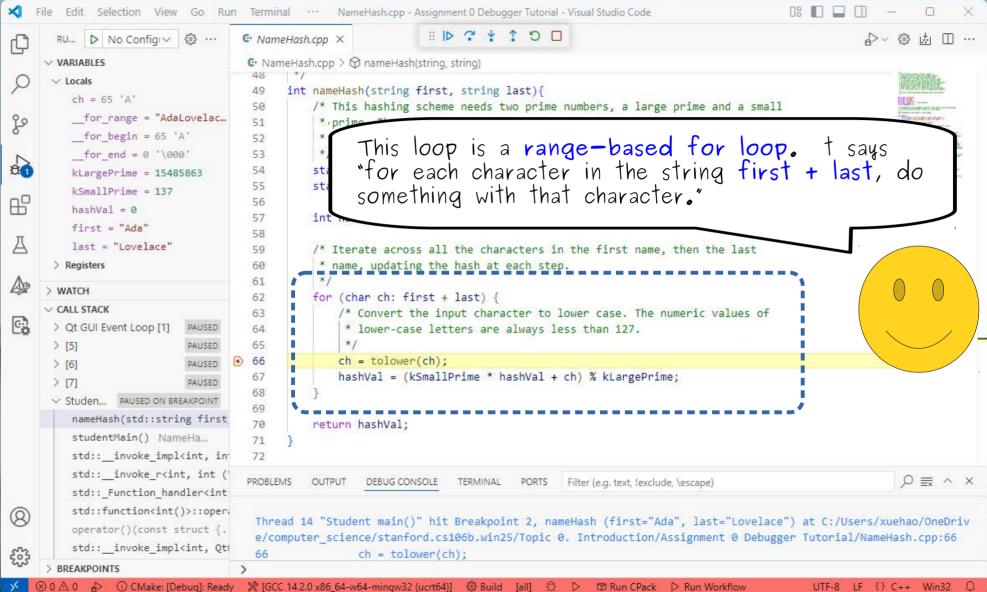


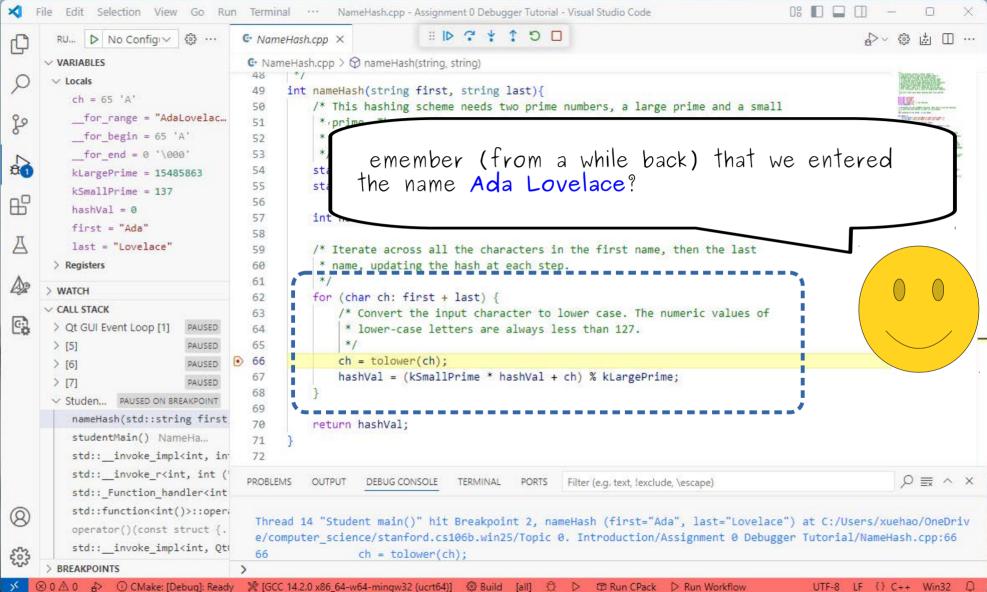


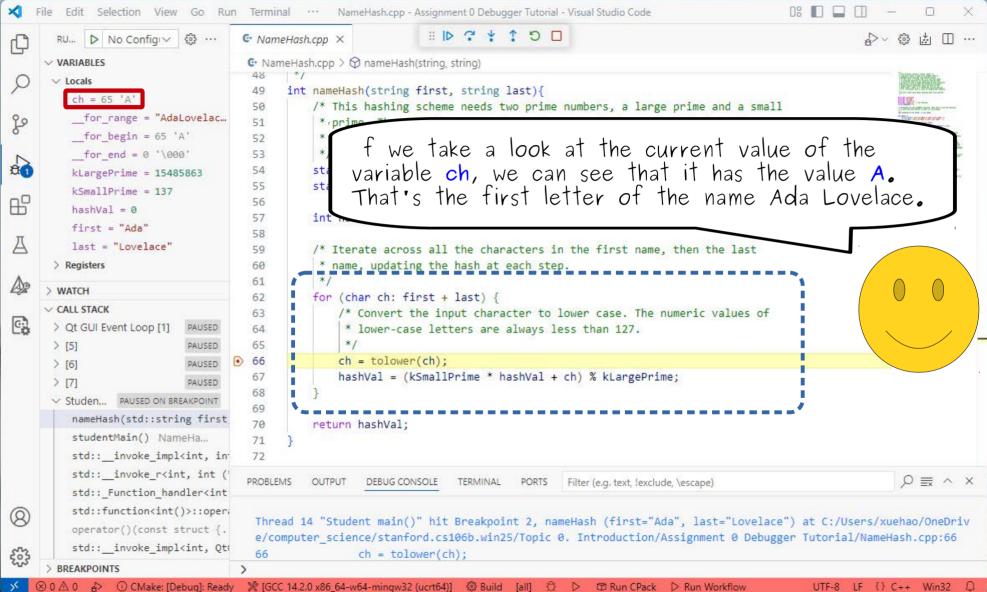


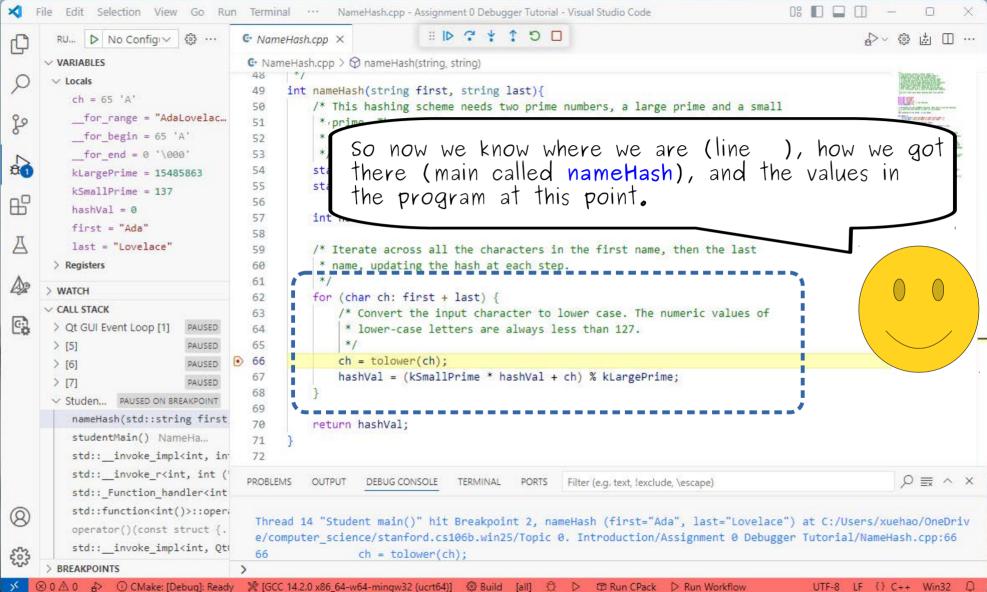


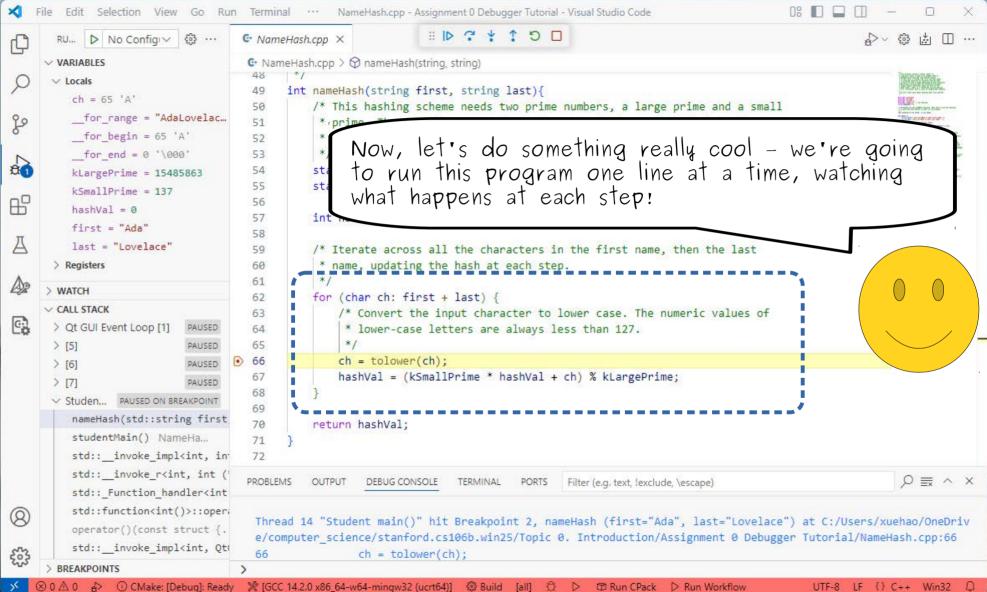


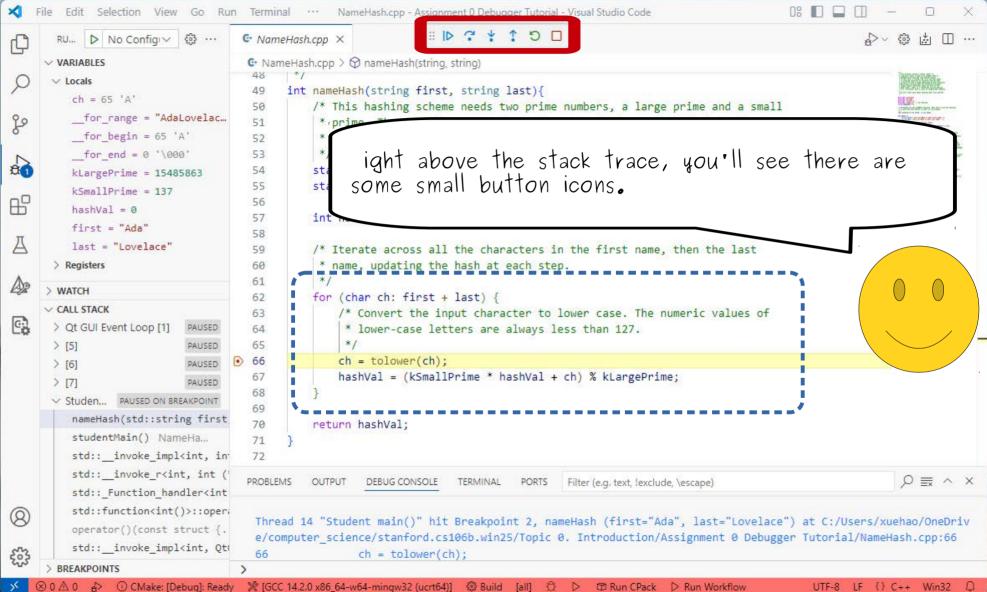


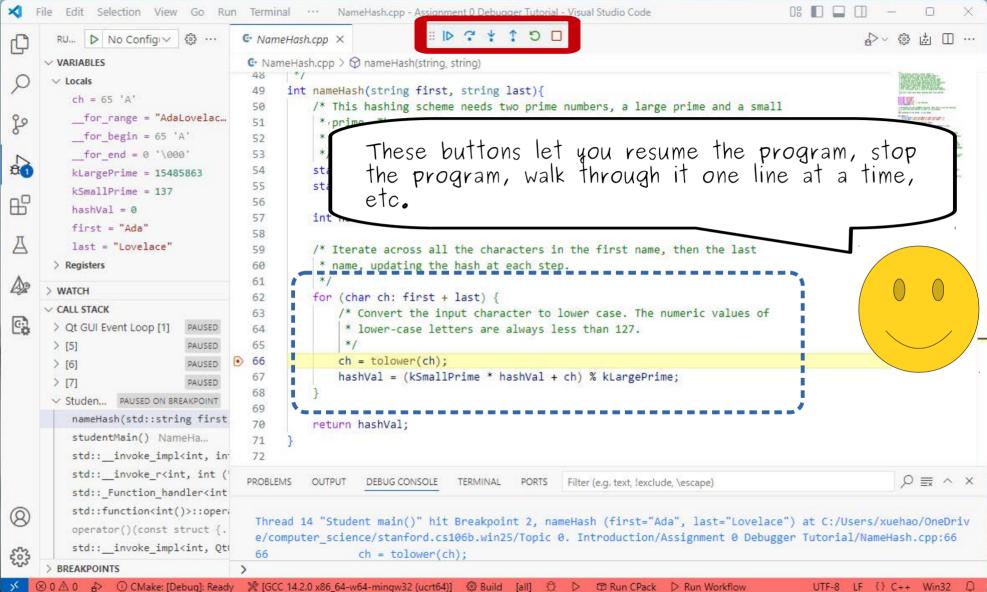


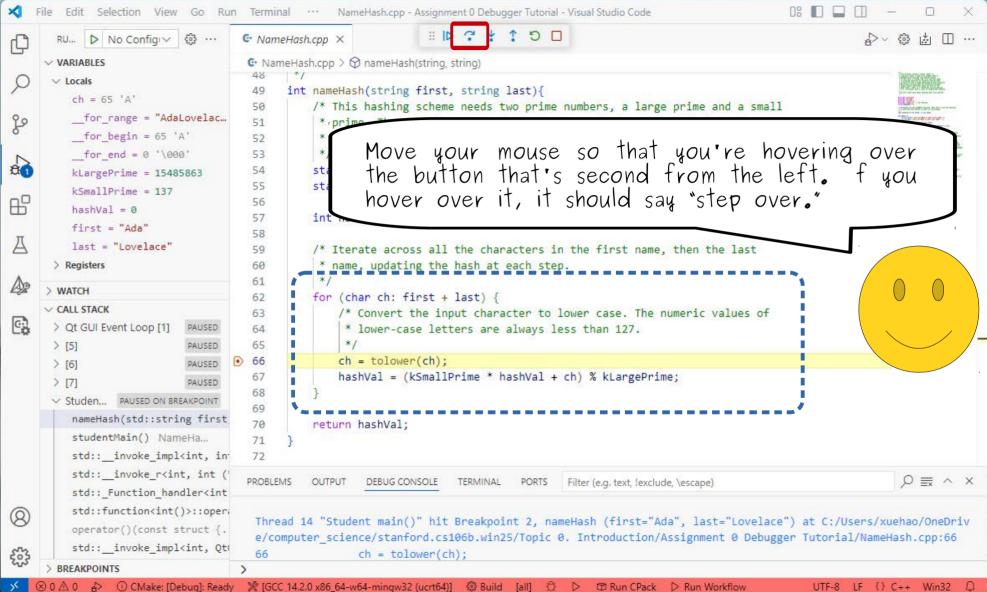


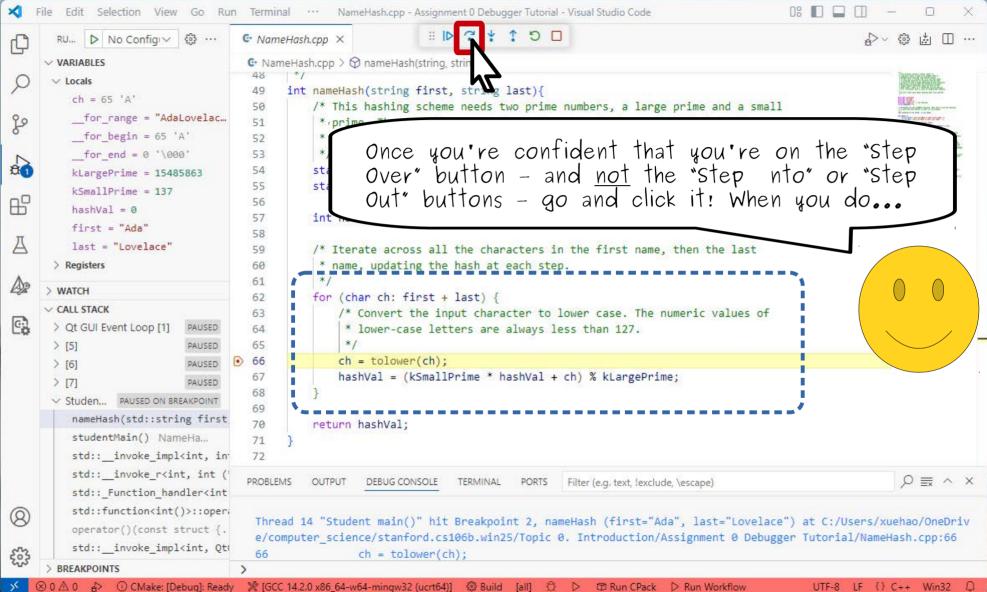


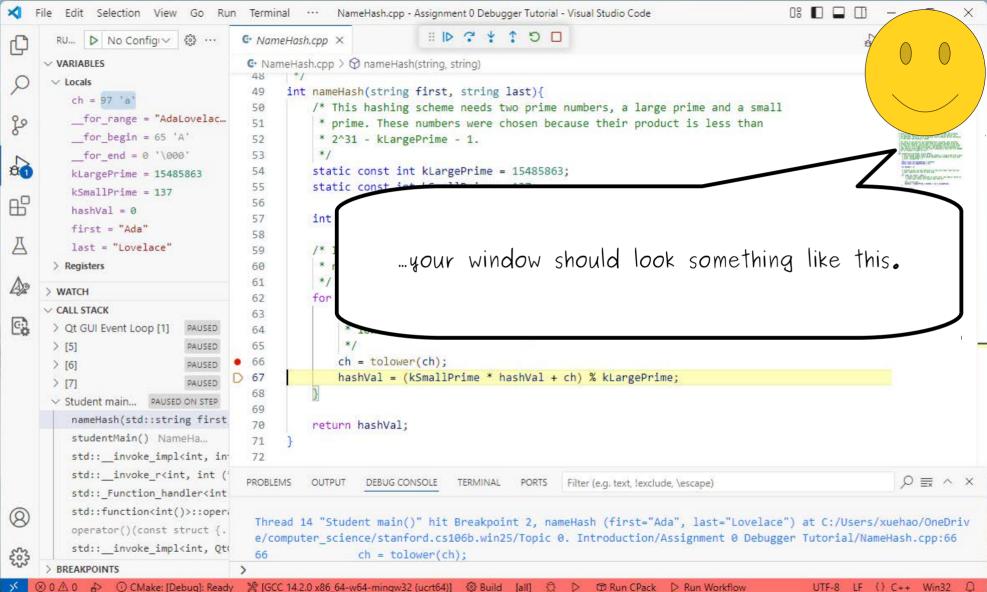


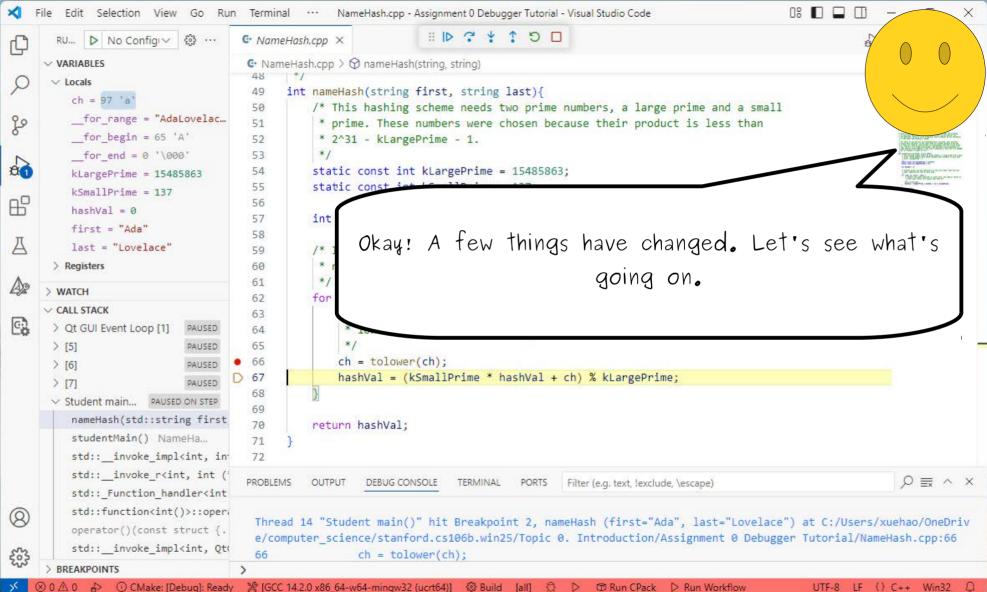


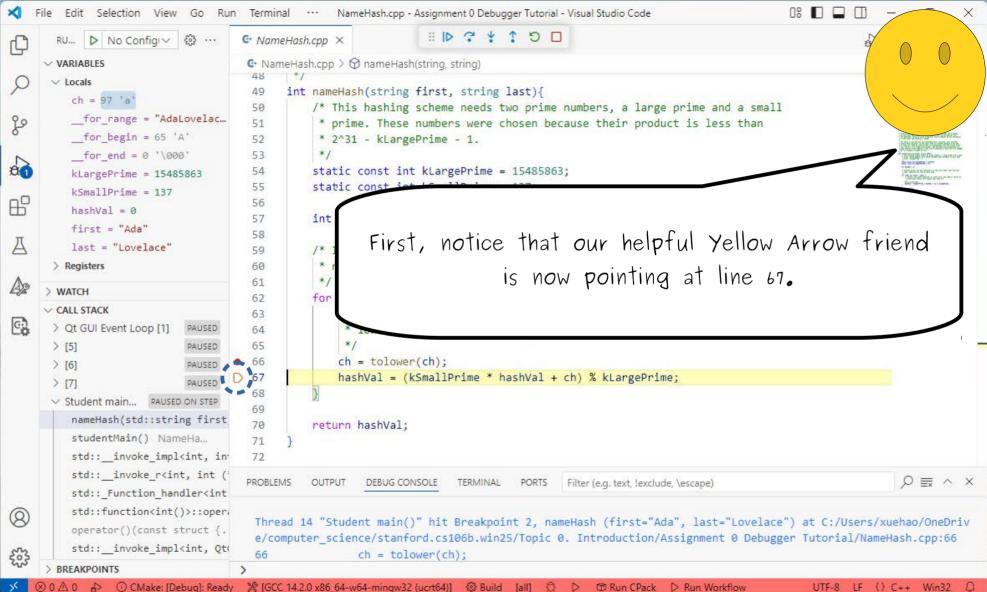


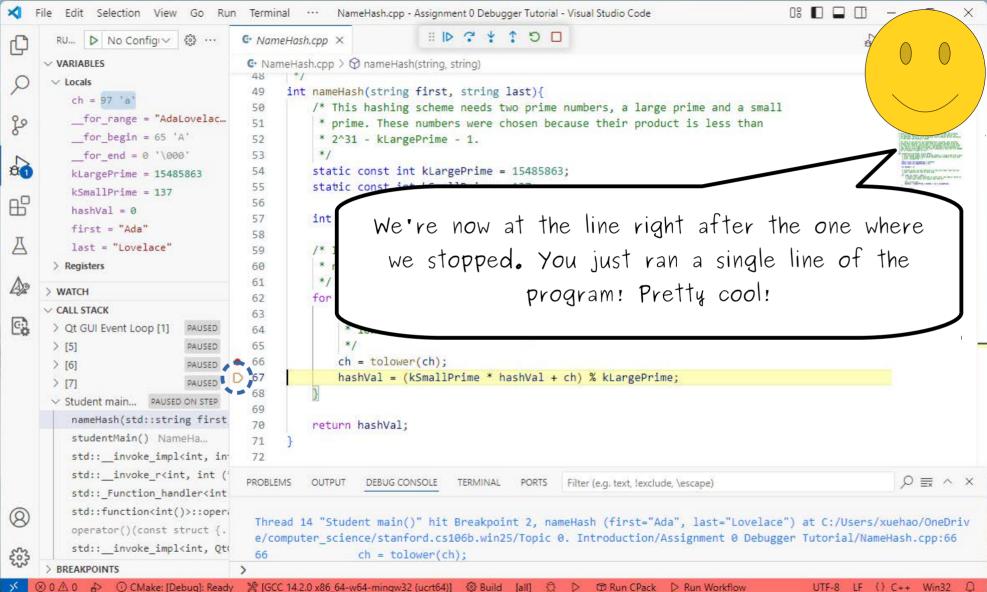


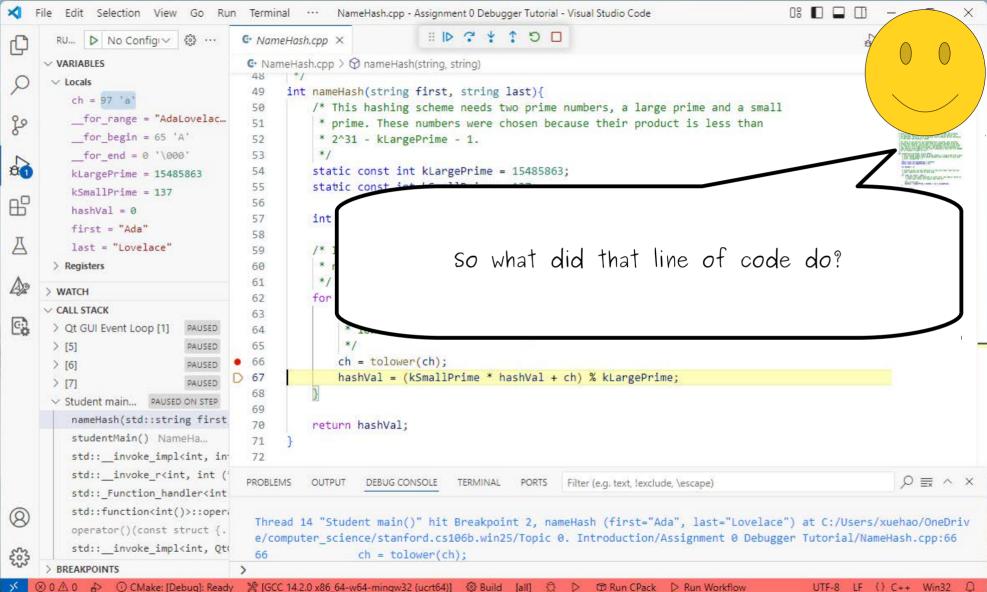


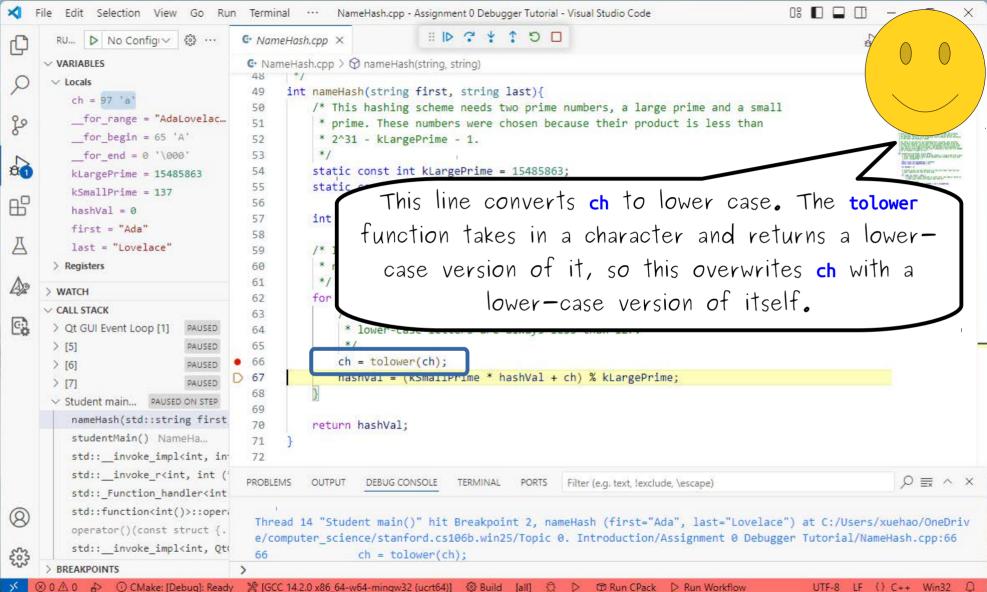


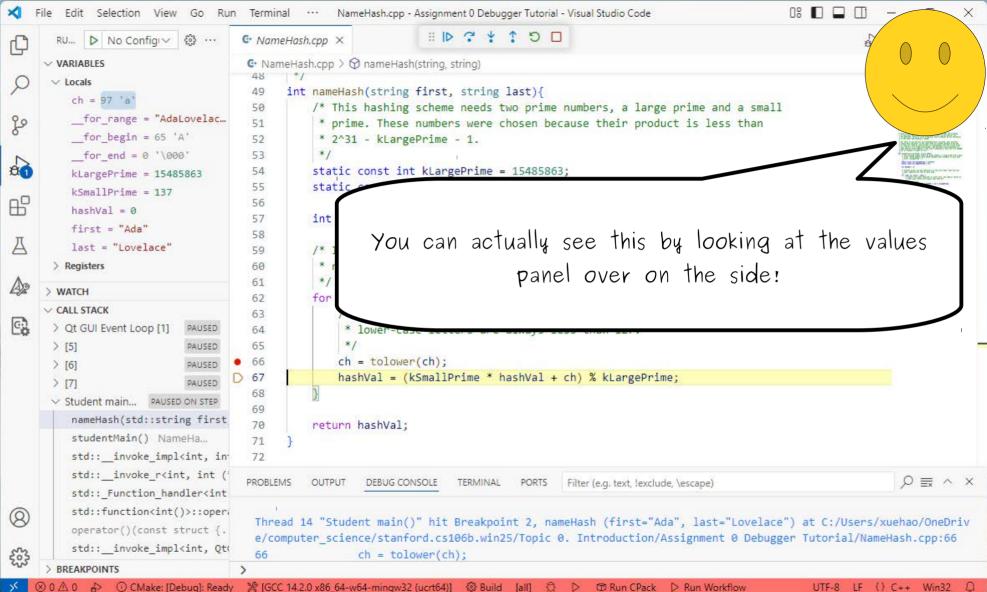


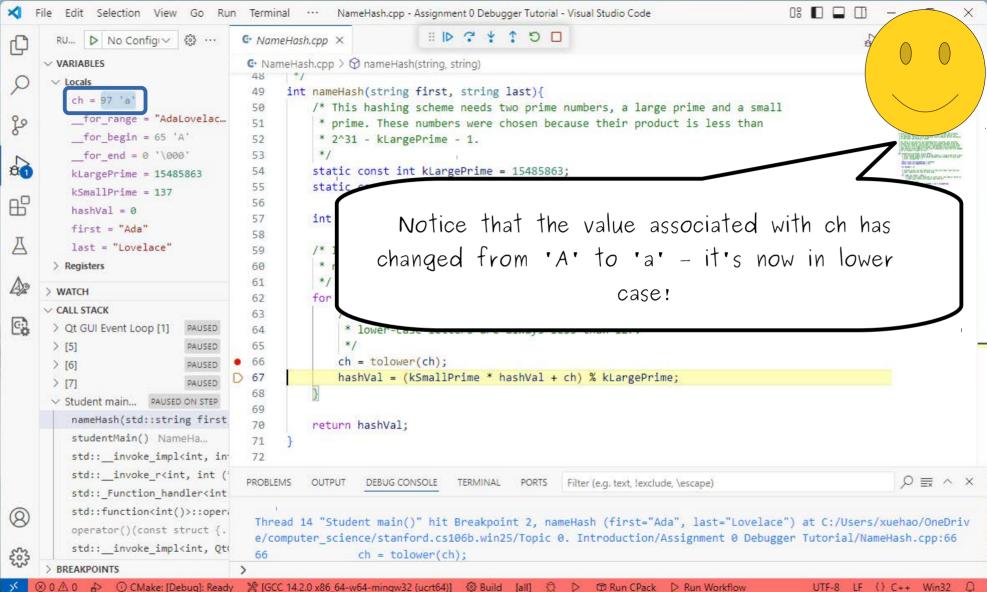


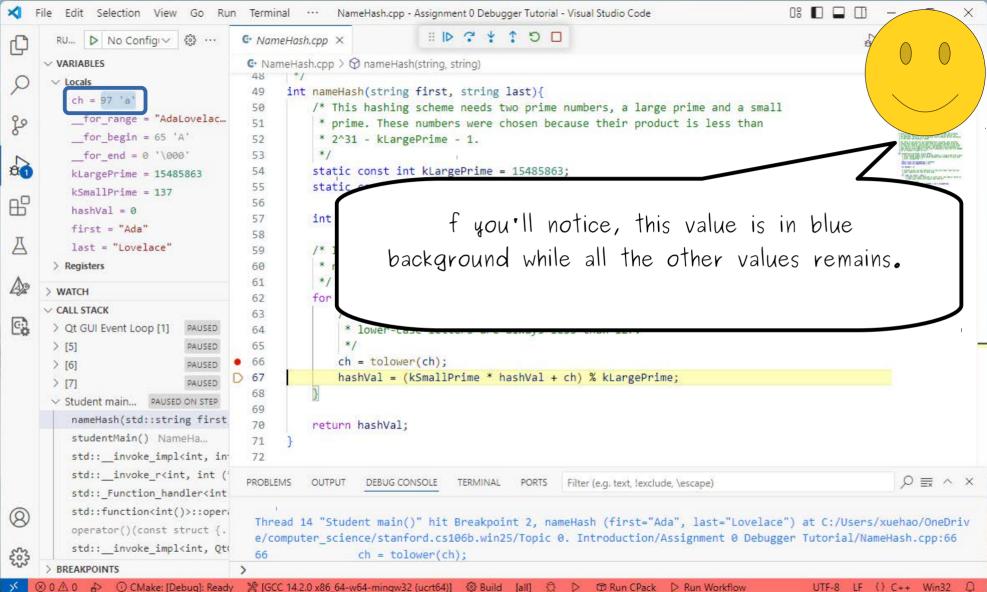


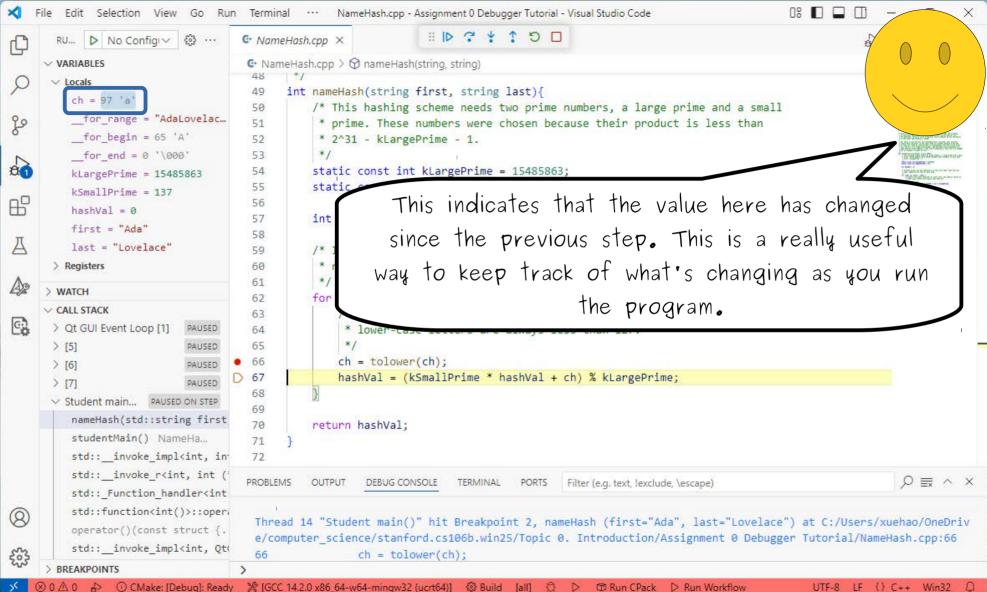


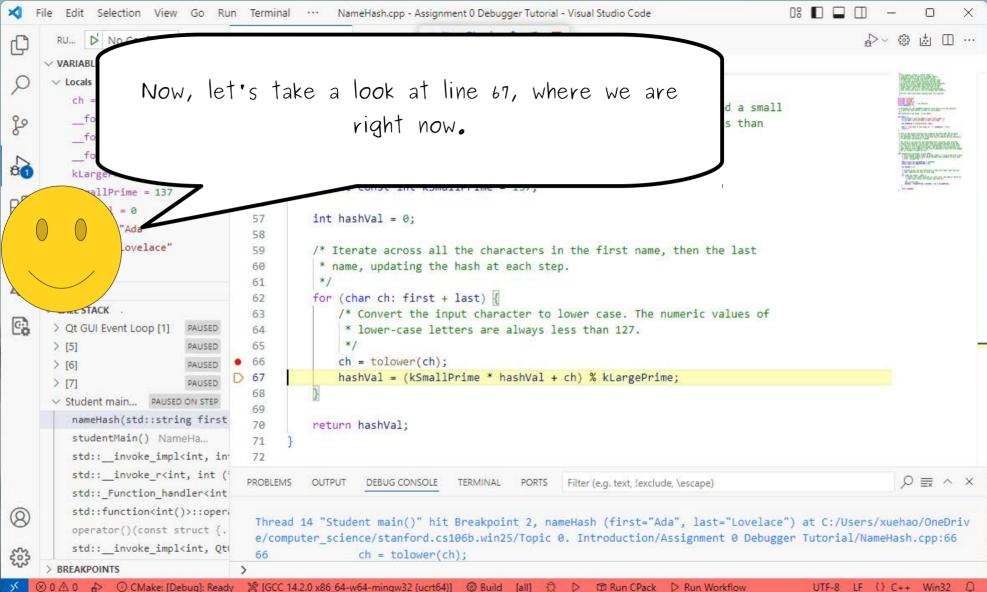


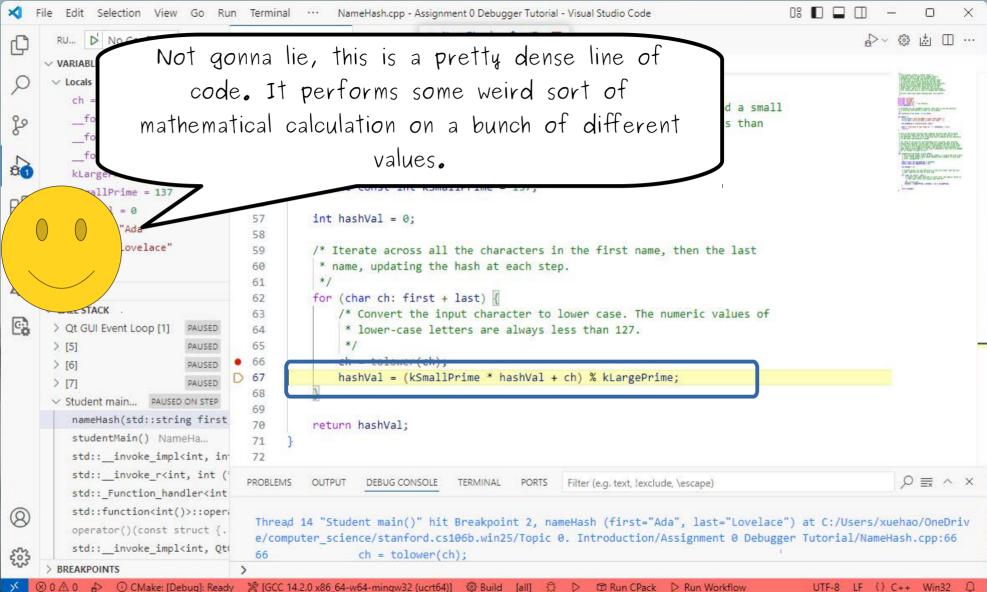


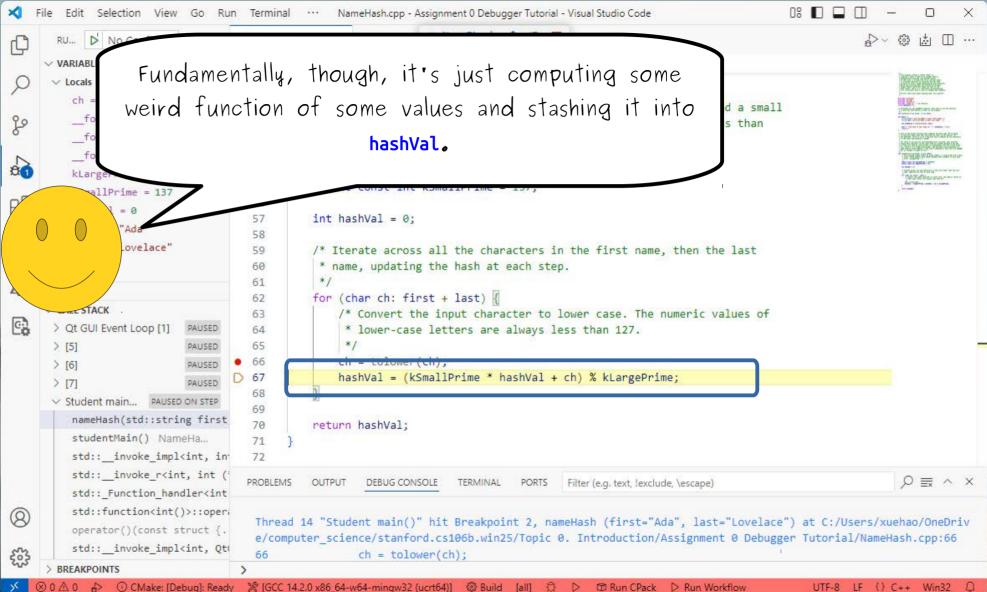


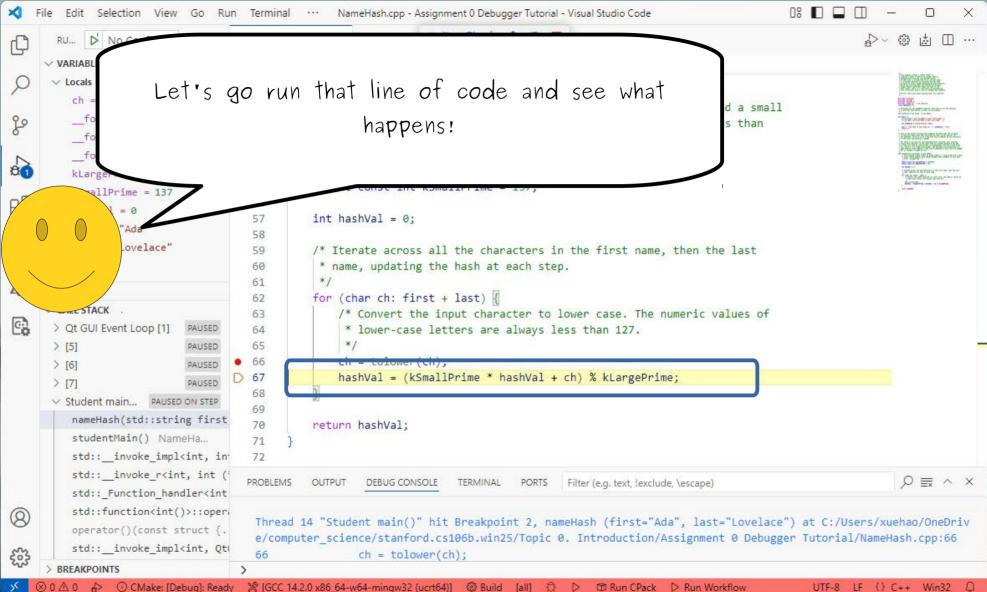


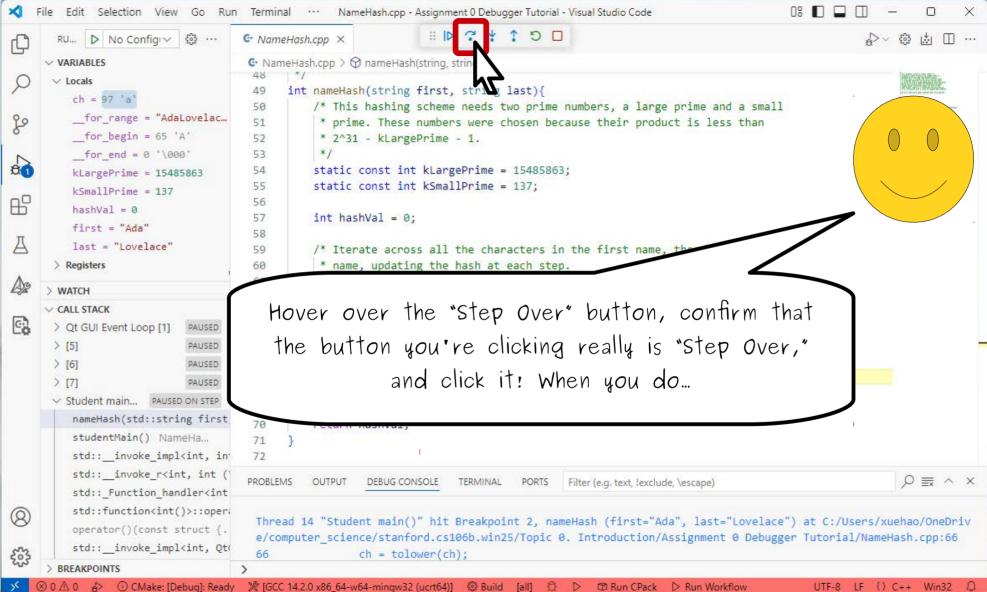


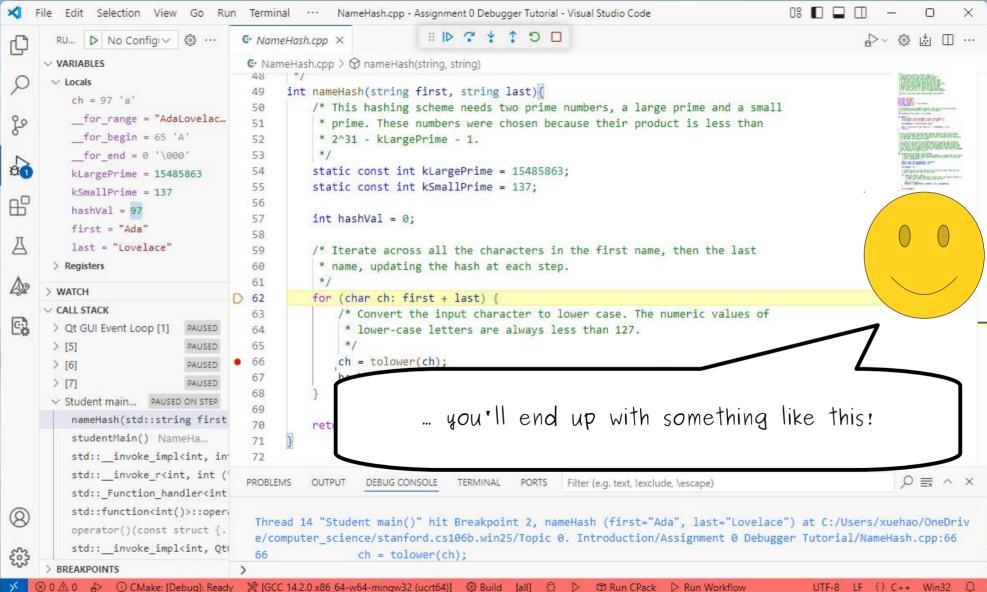


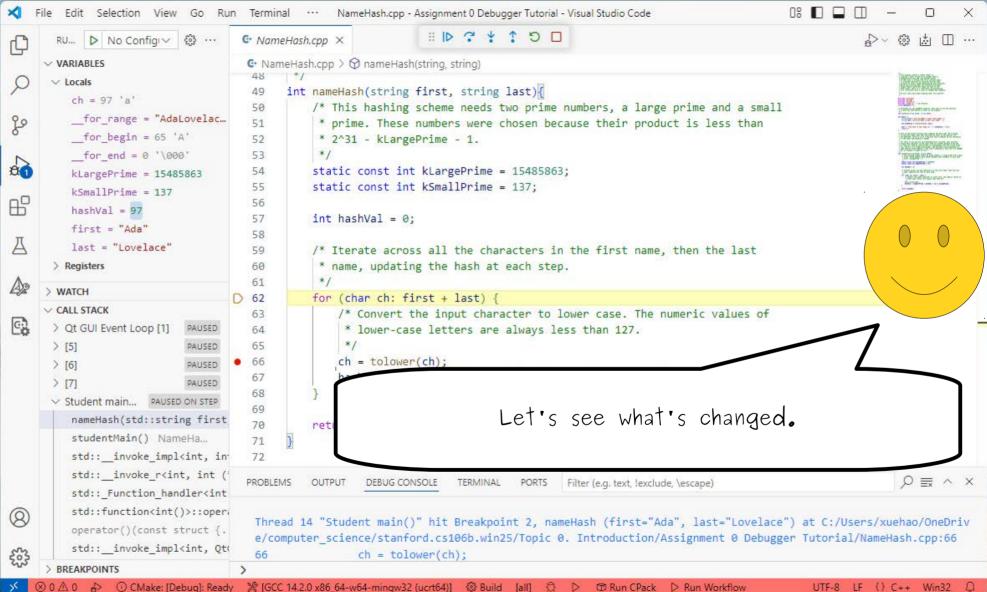


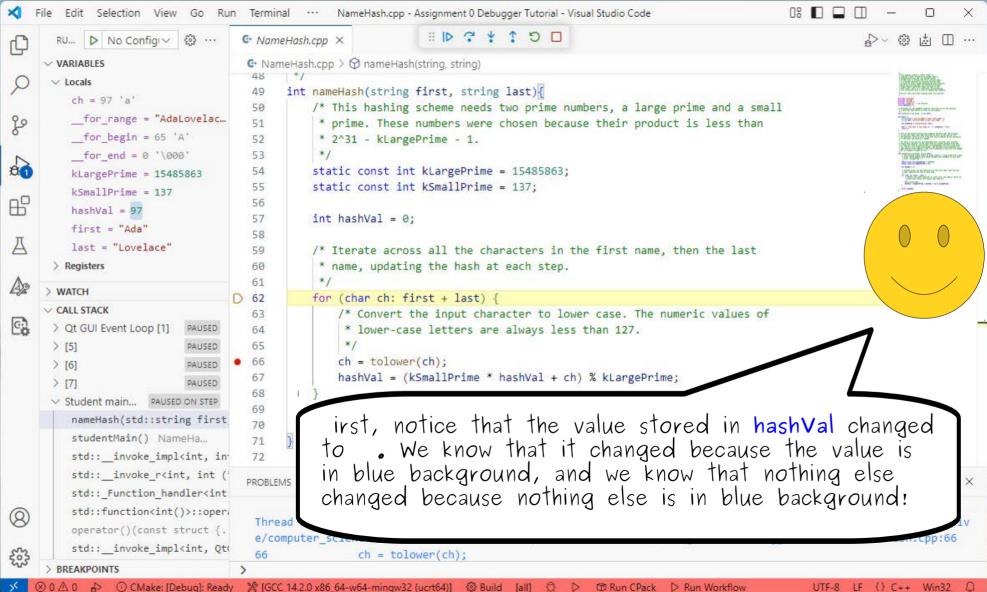


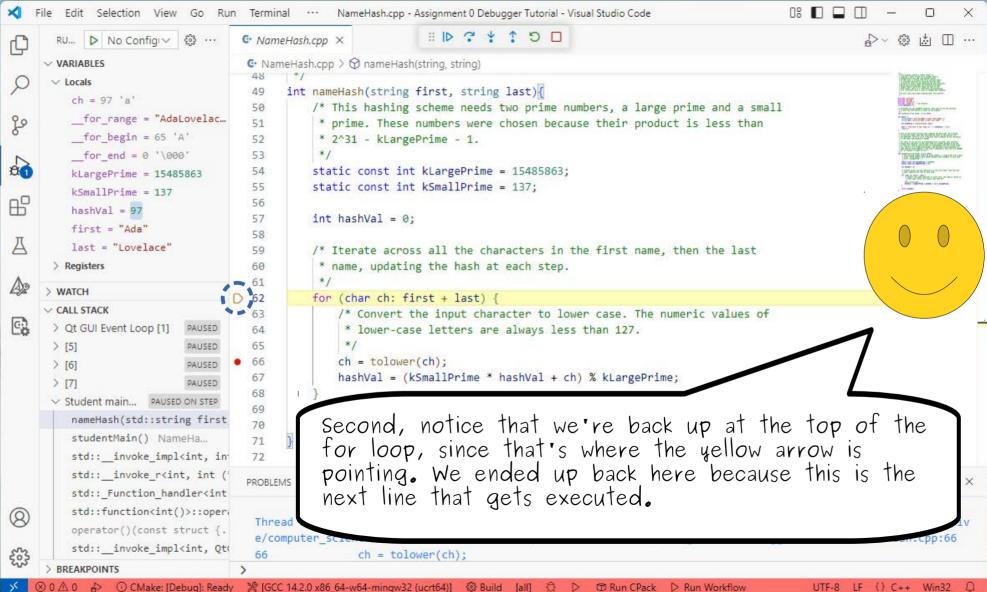


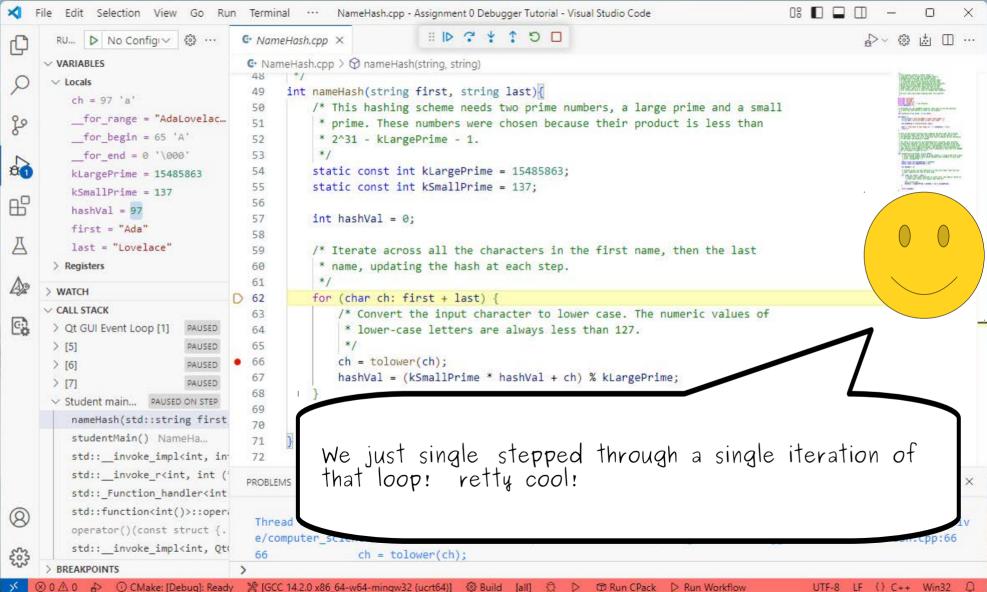


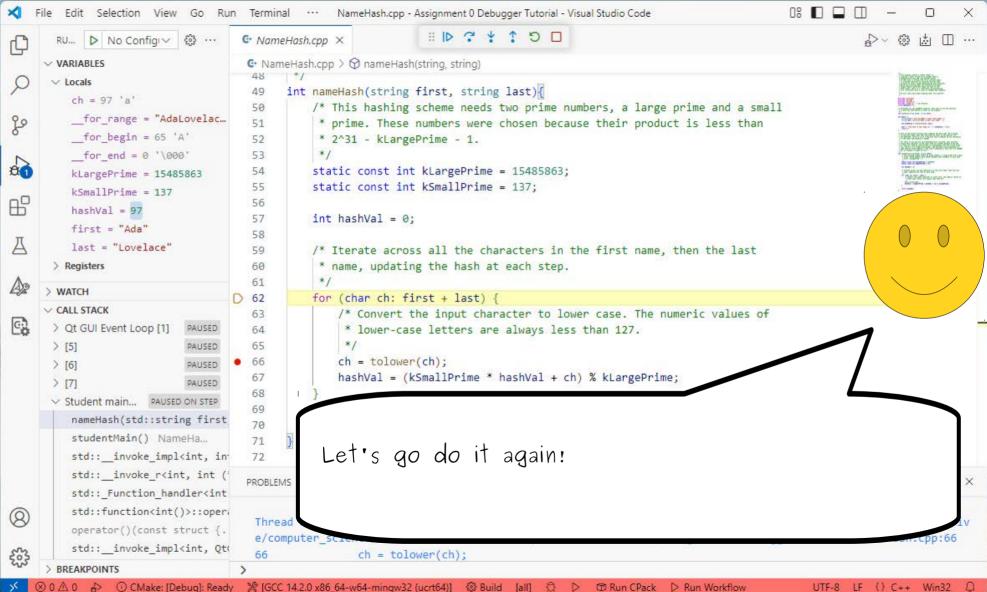


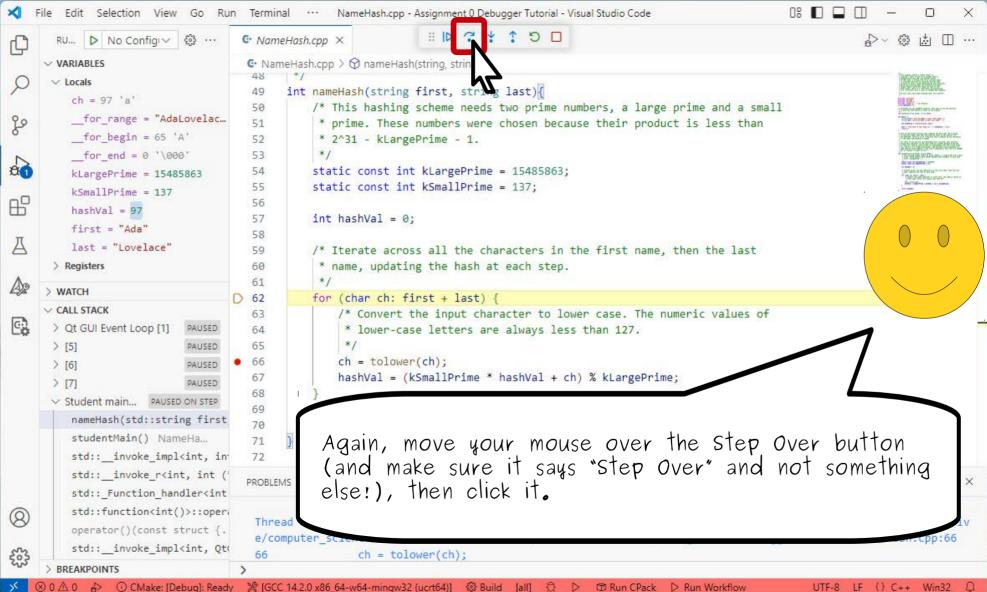


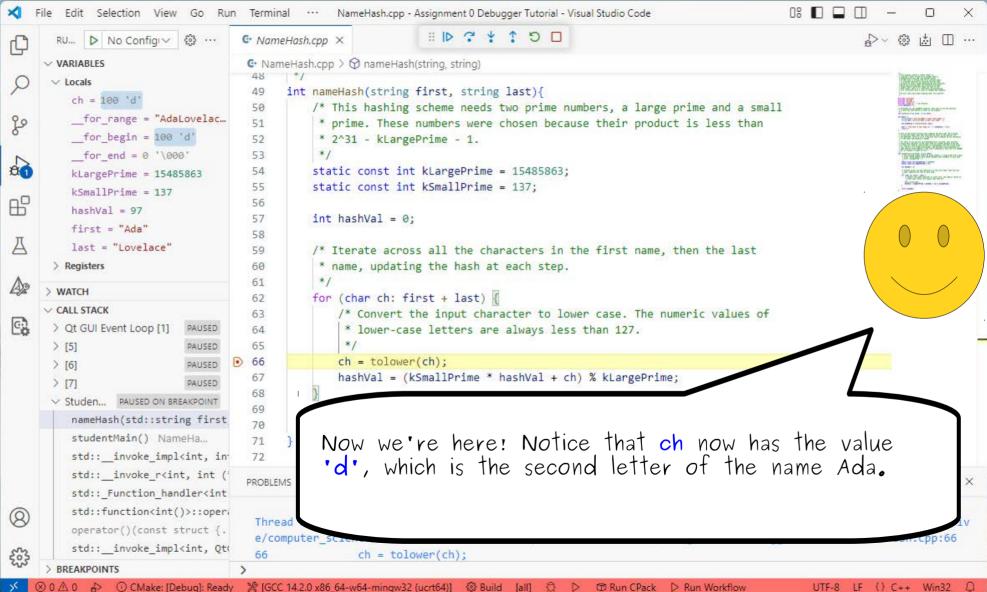


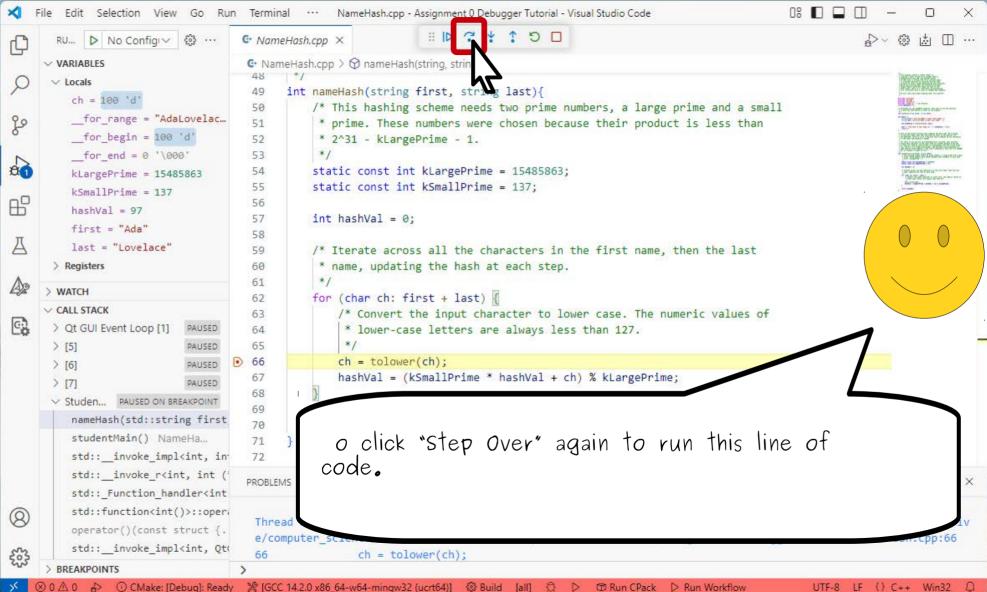


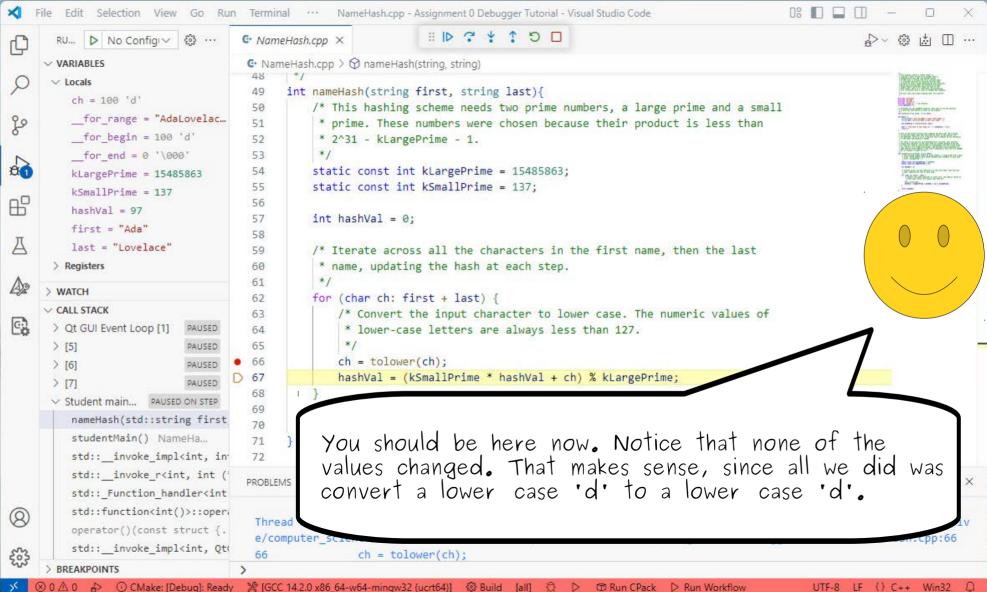


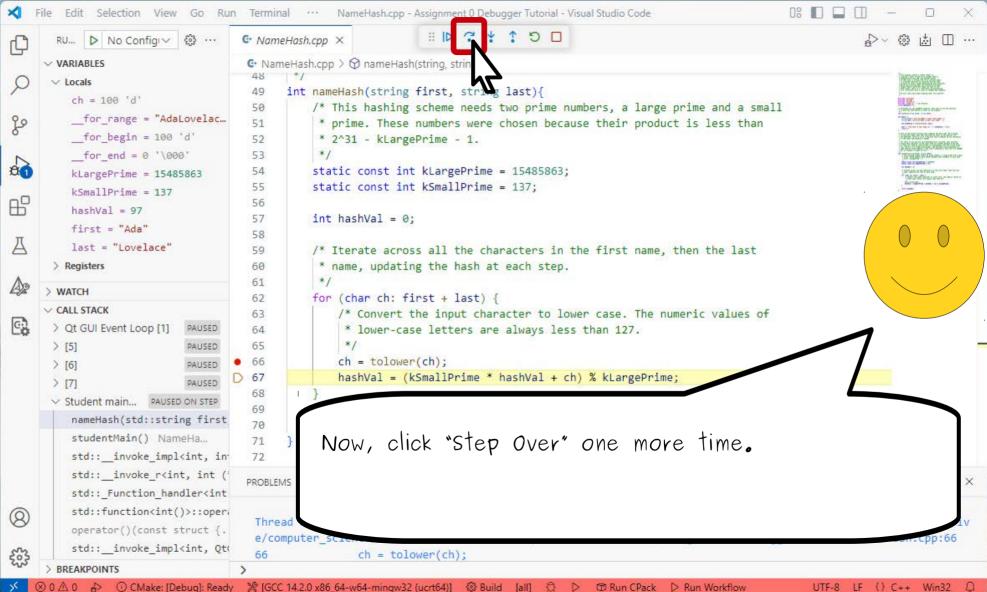


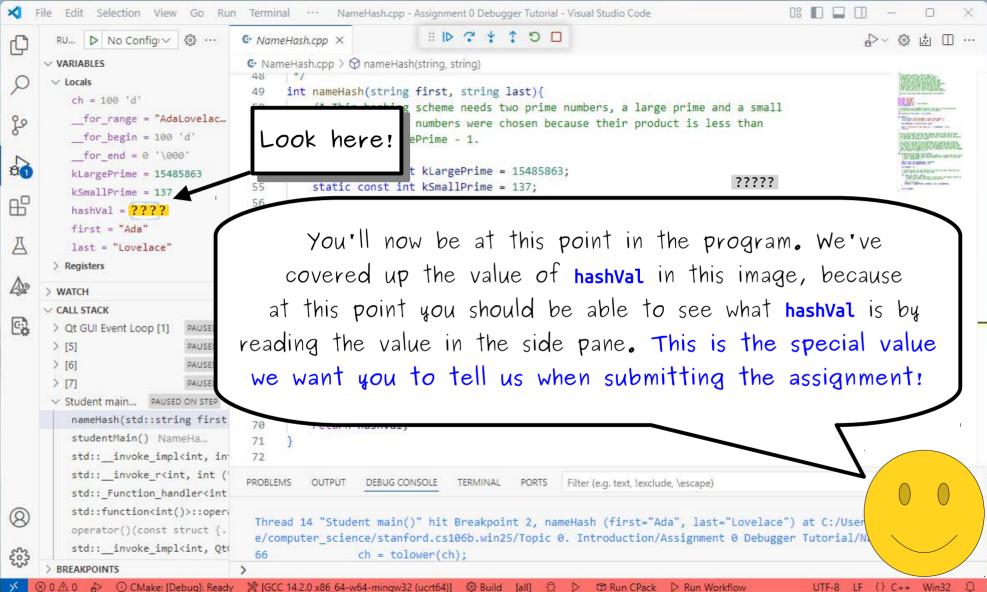


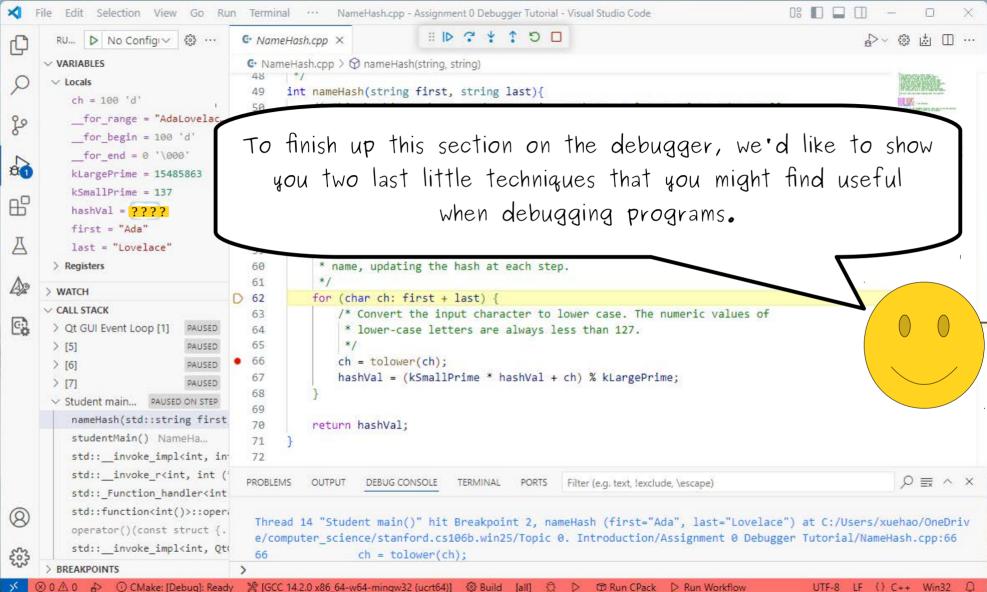


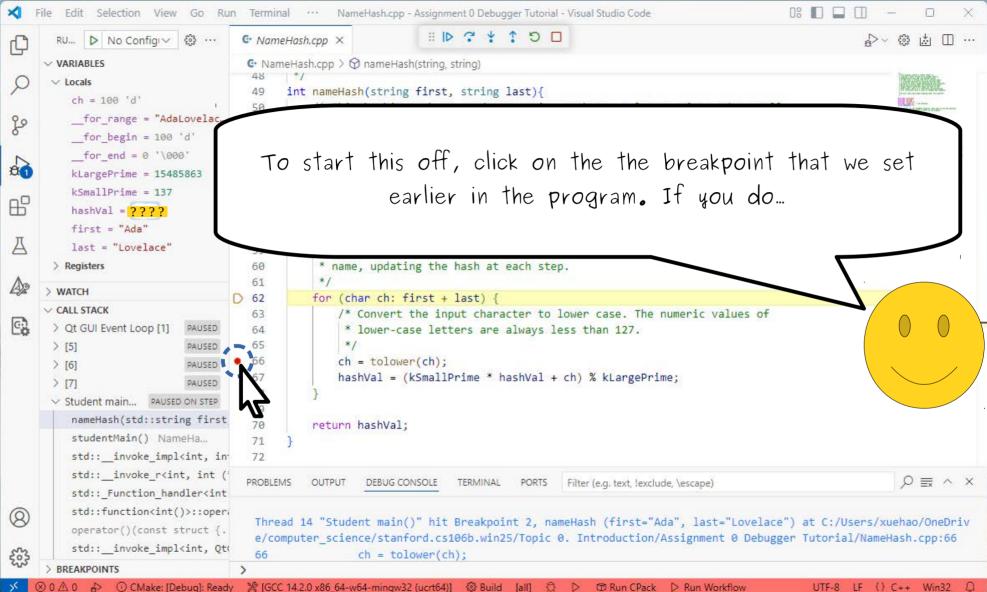


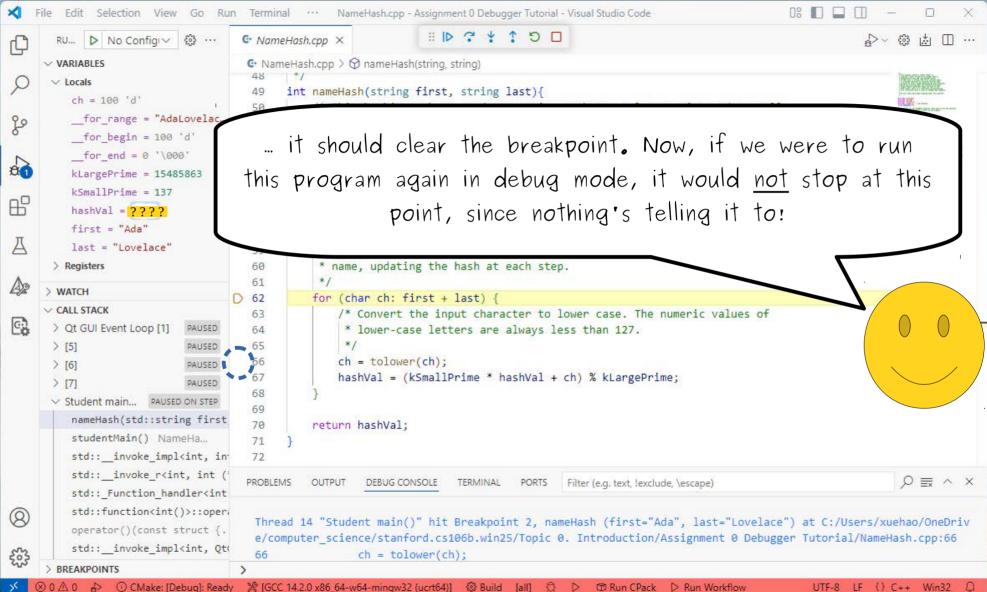


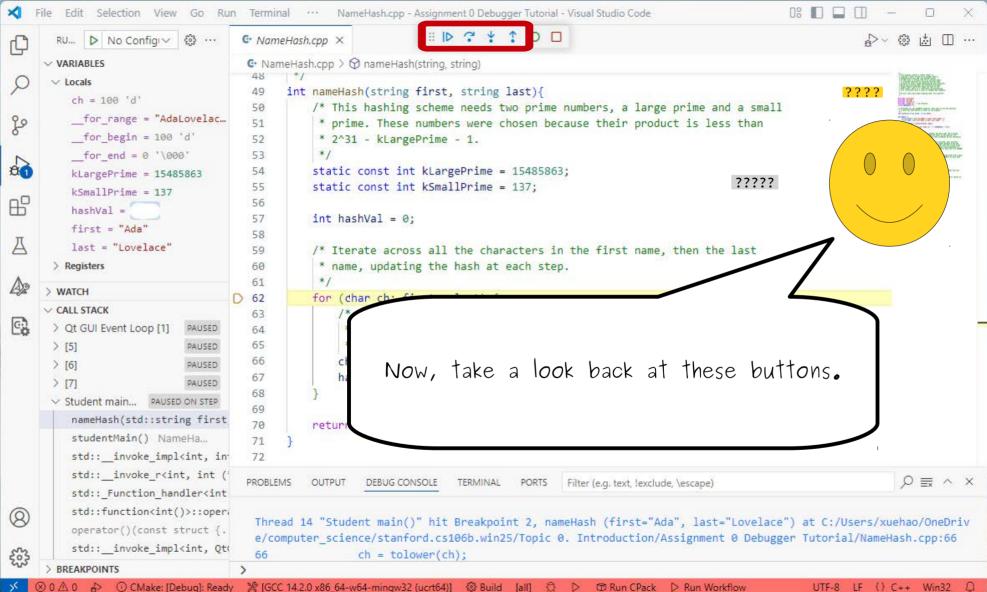


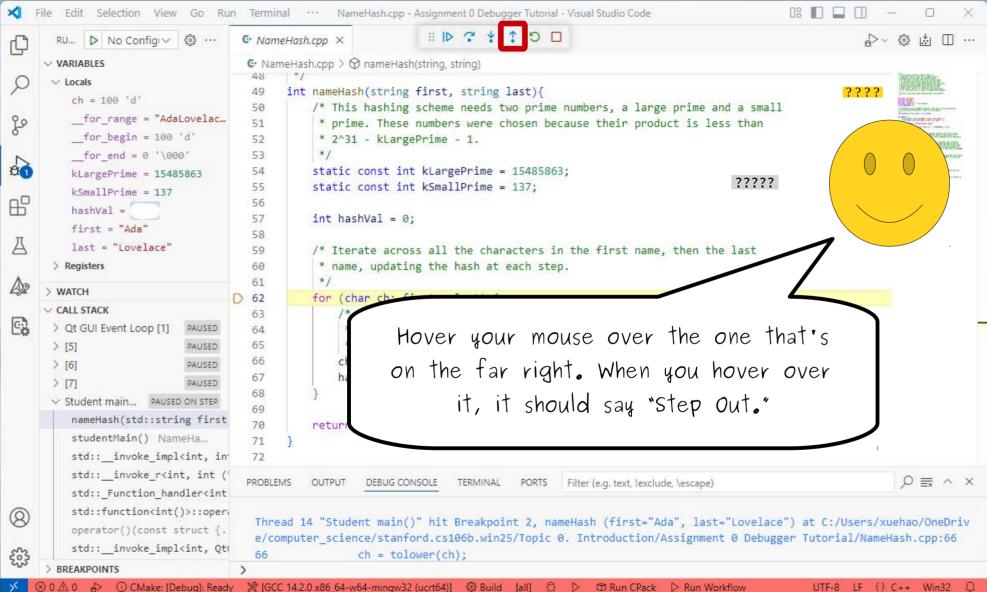


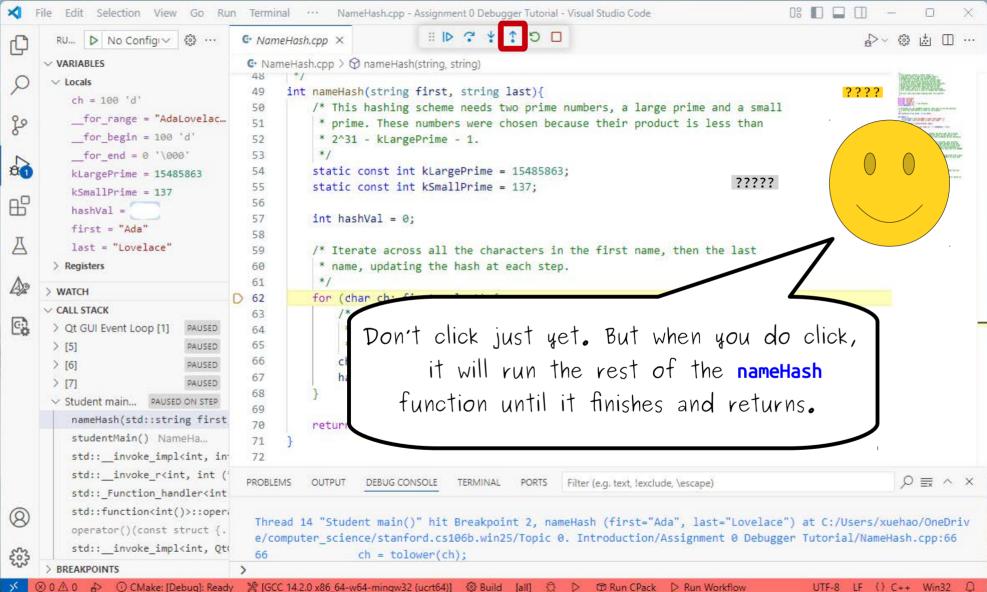


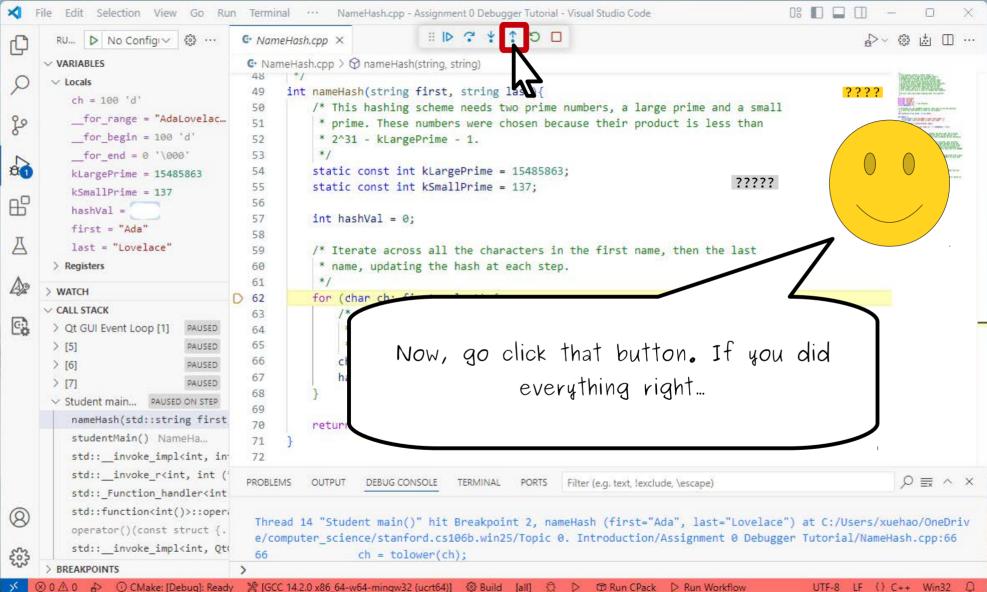


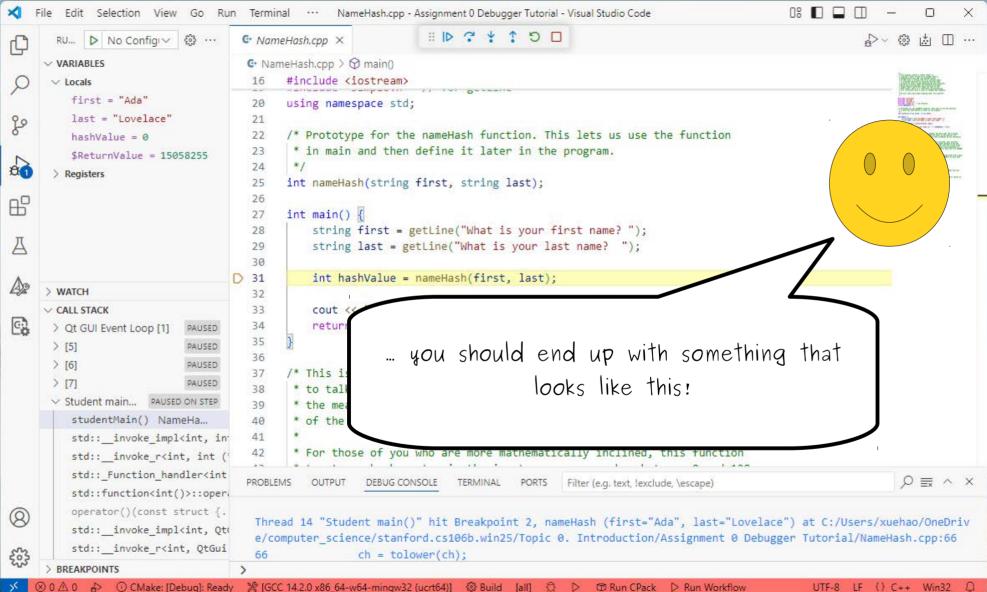


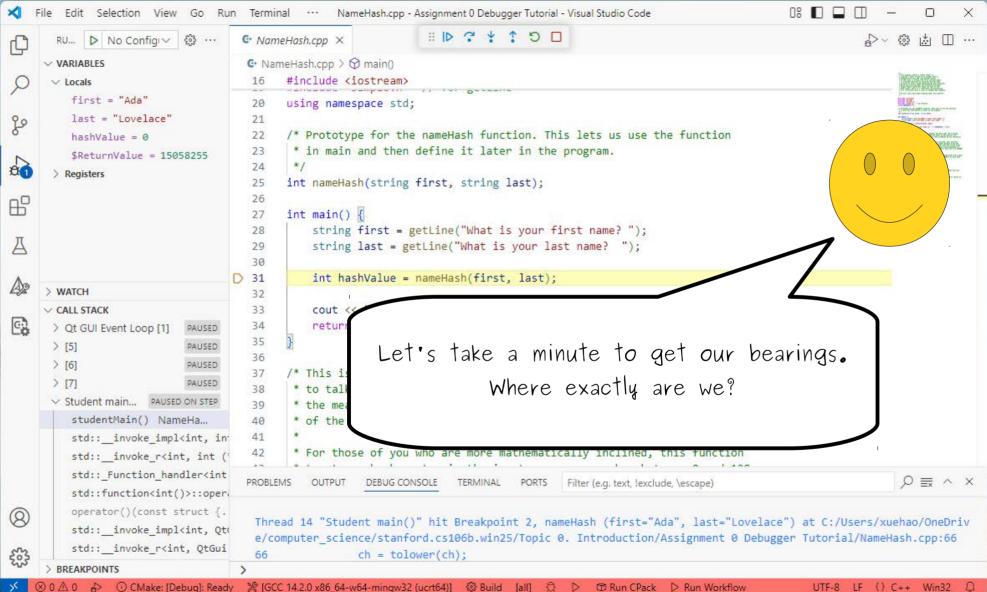


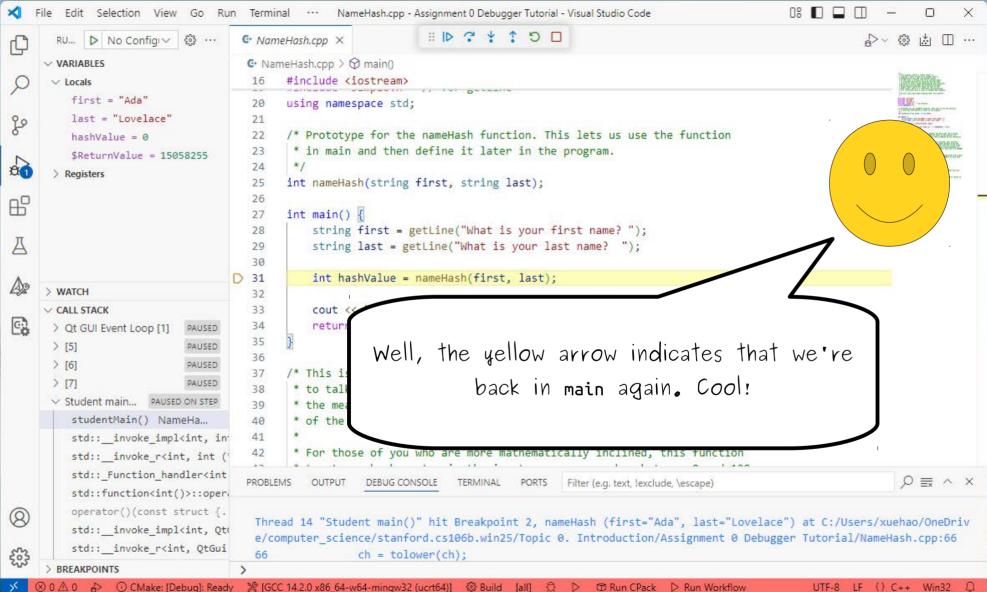


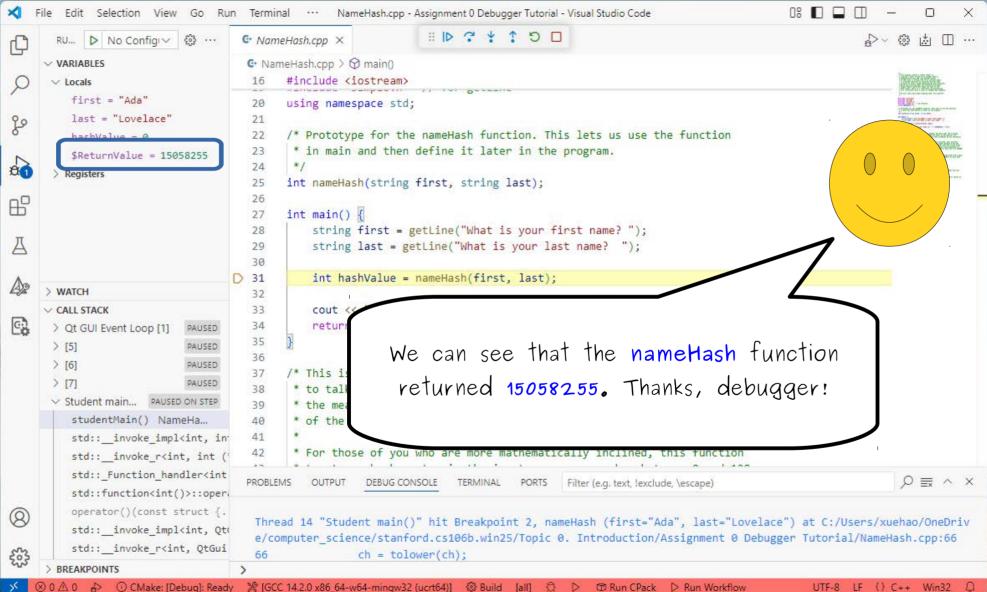


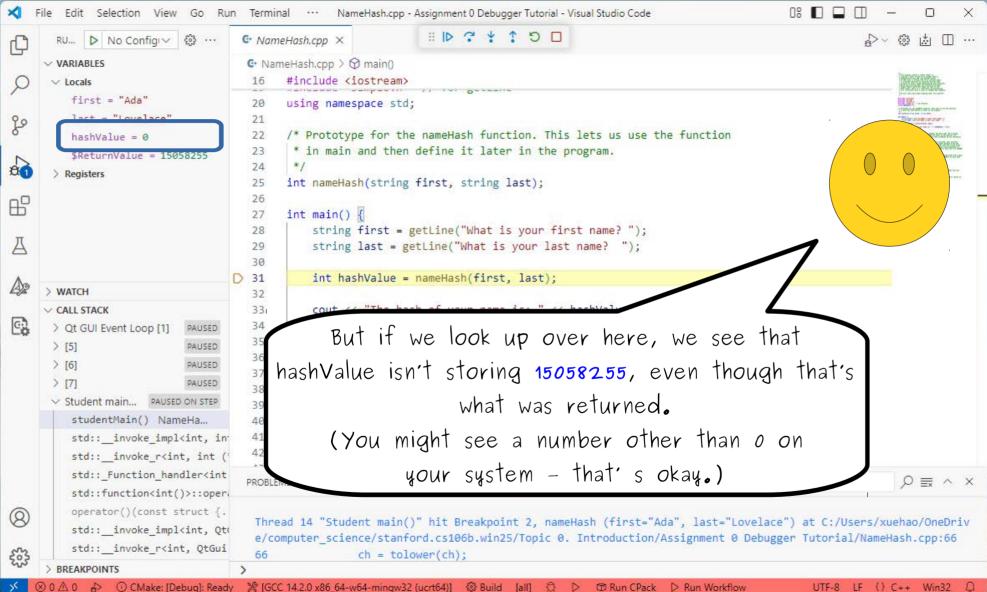


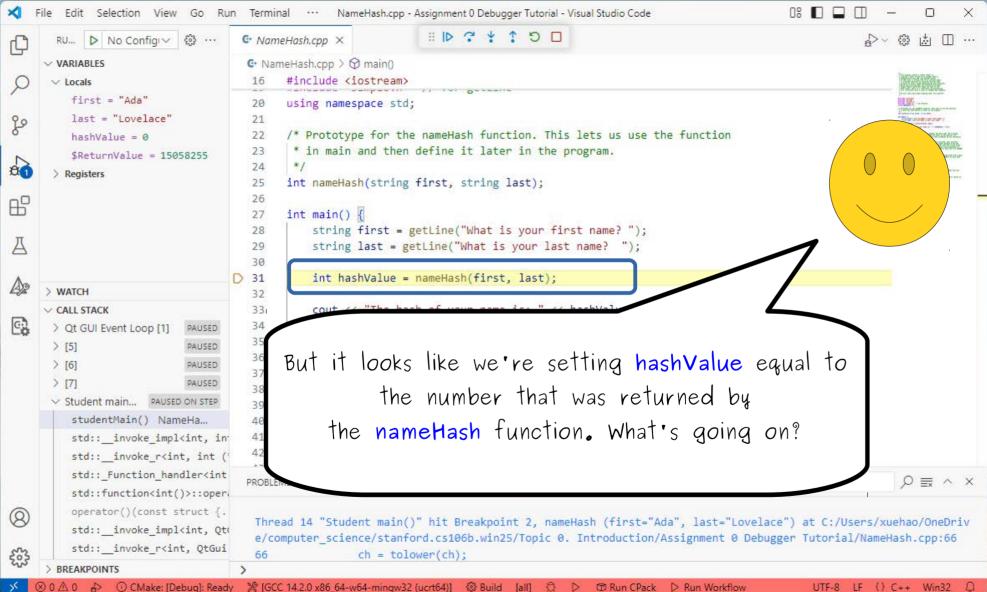


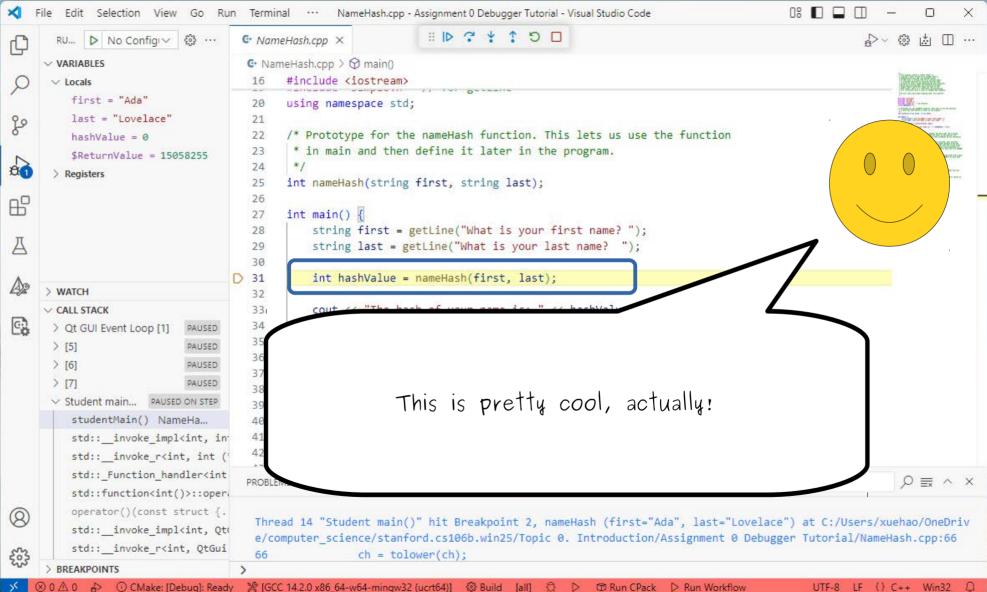


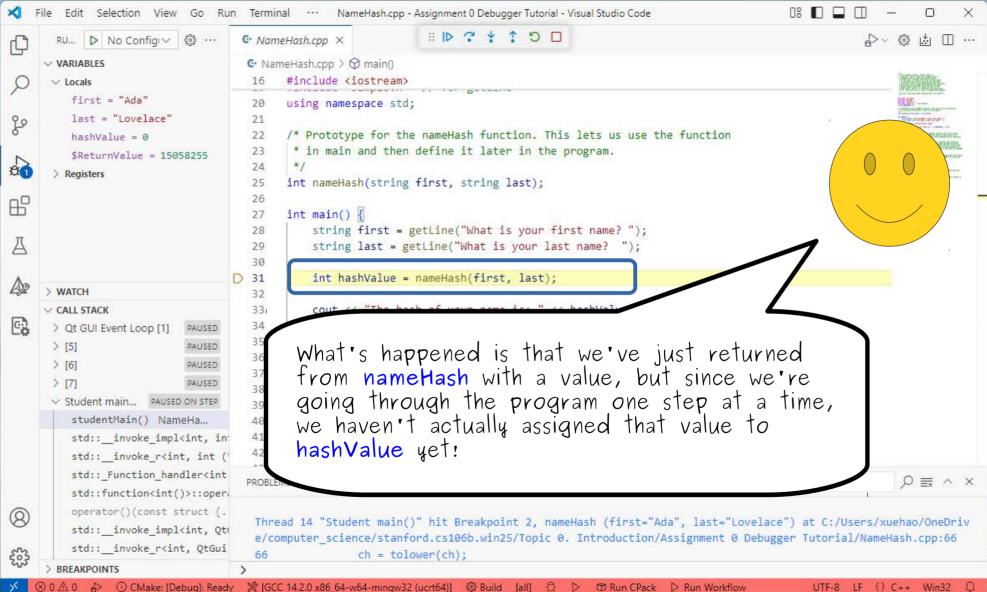


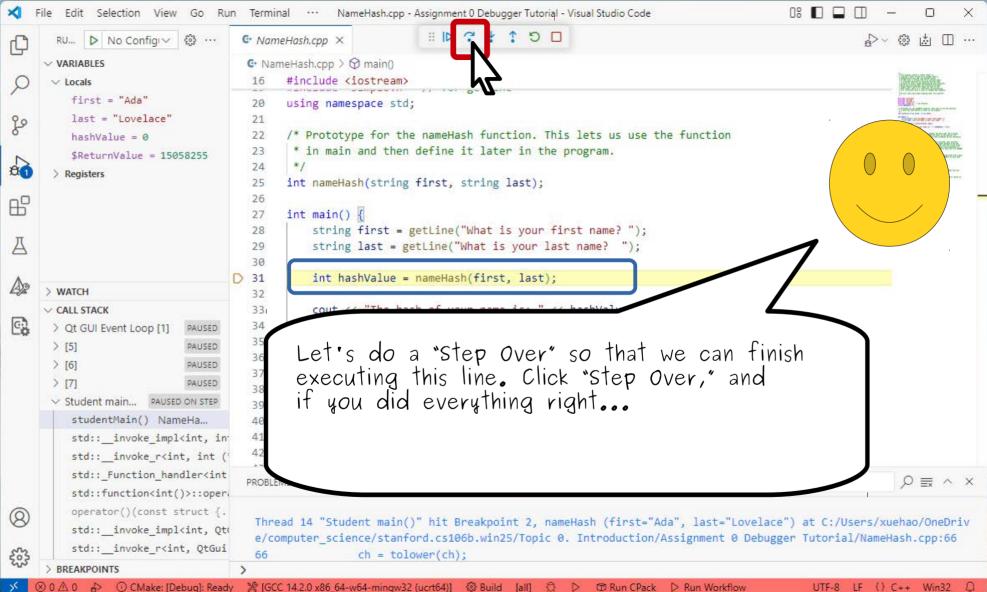


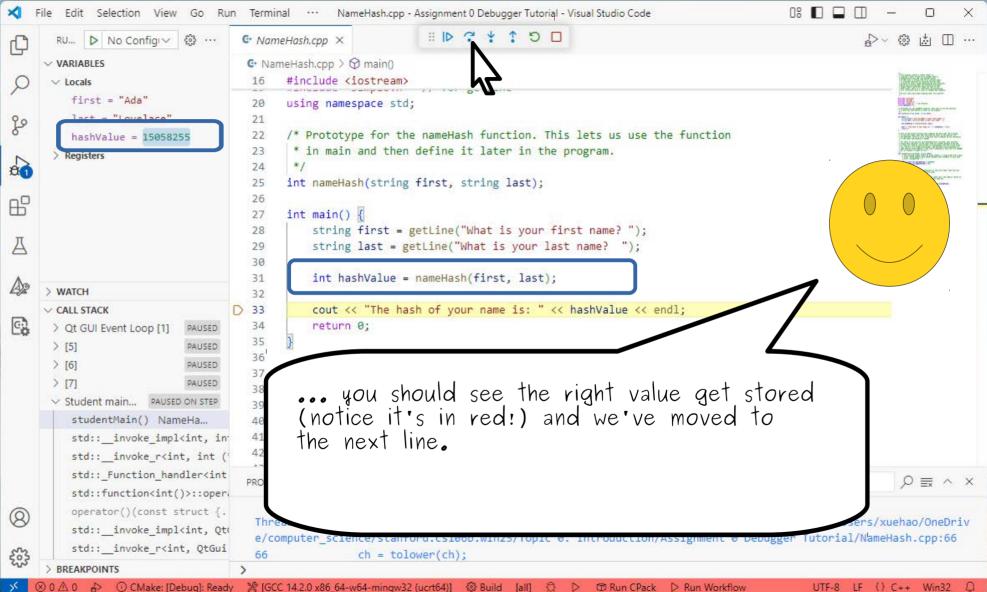


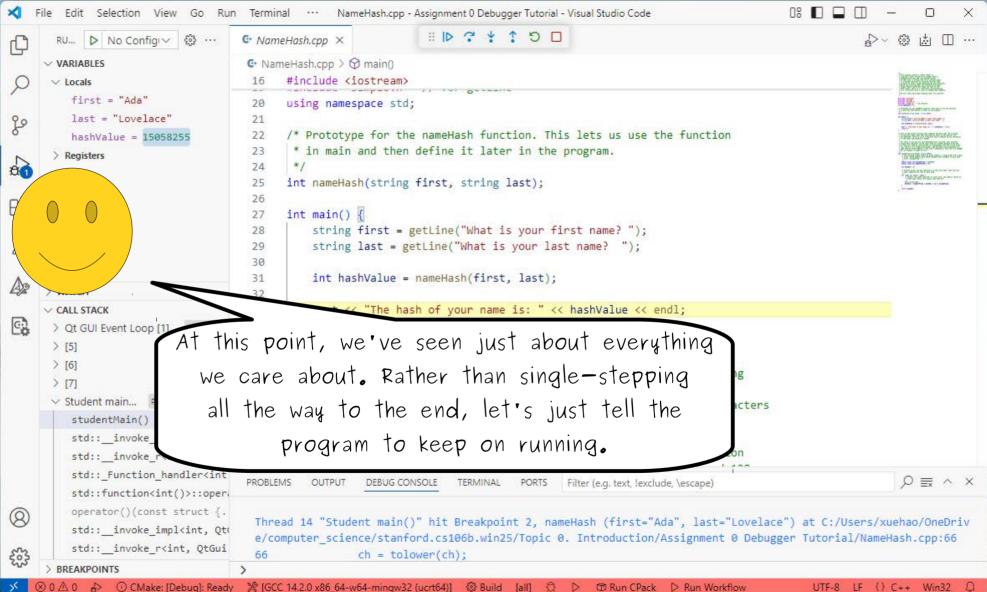


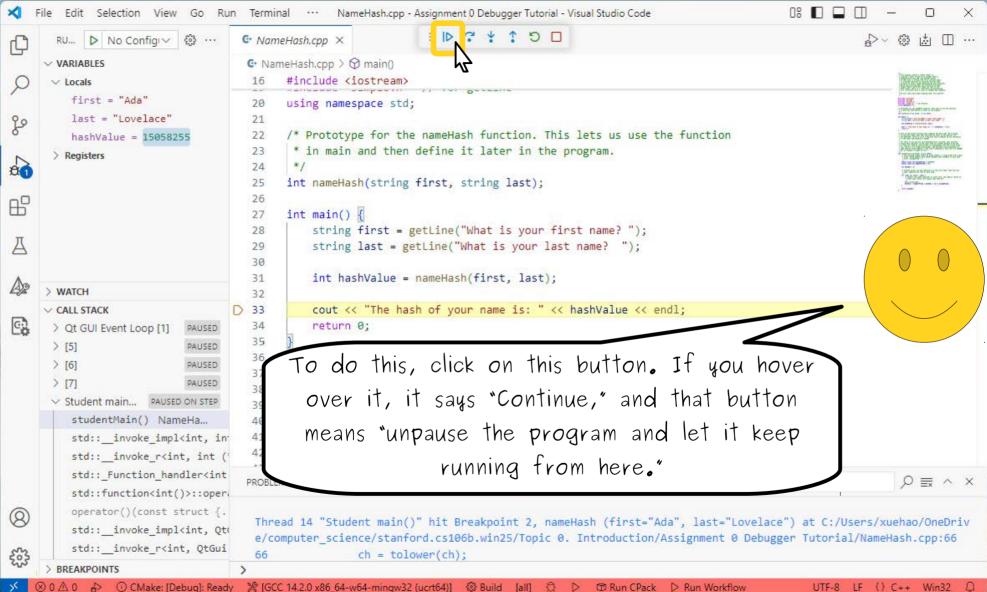


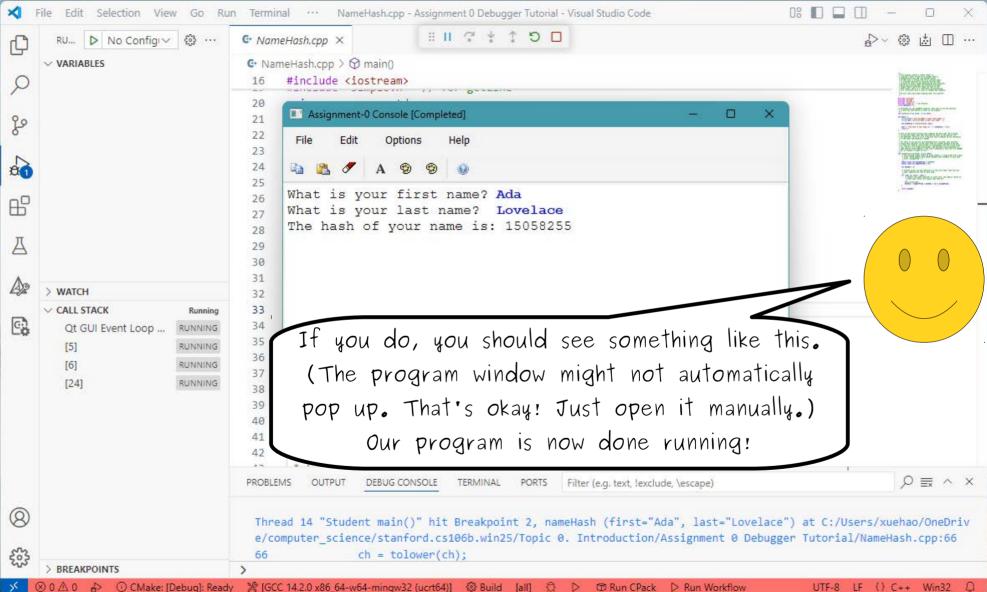












So there you have it! You've now gotten more familiar with the debugger!

You know how to set a breakpoint to pause the program at a particular point.

You know how to read the call stack and to see the values of local variables.

You know how to single-step the program and see what values change.

You know how to run a function to completion, and how to let the program keep on running.

As you write more and more complicated programs this quarter, you'll get a lot more familiar using the debugger and seeing how your programs work.

And, if you continue to build larger and larger pieces of software, you'll find that knowing how to use a debugger is a surprisingly valuable skill!

Hope this helps, and welcome to CS101B!