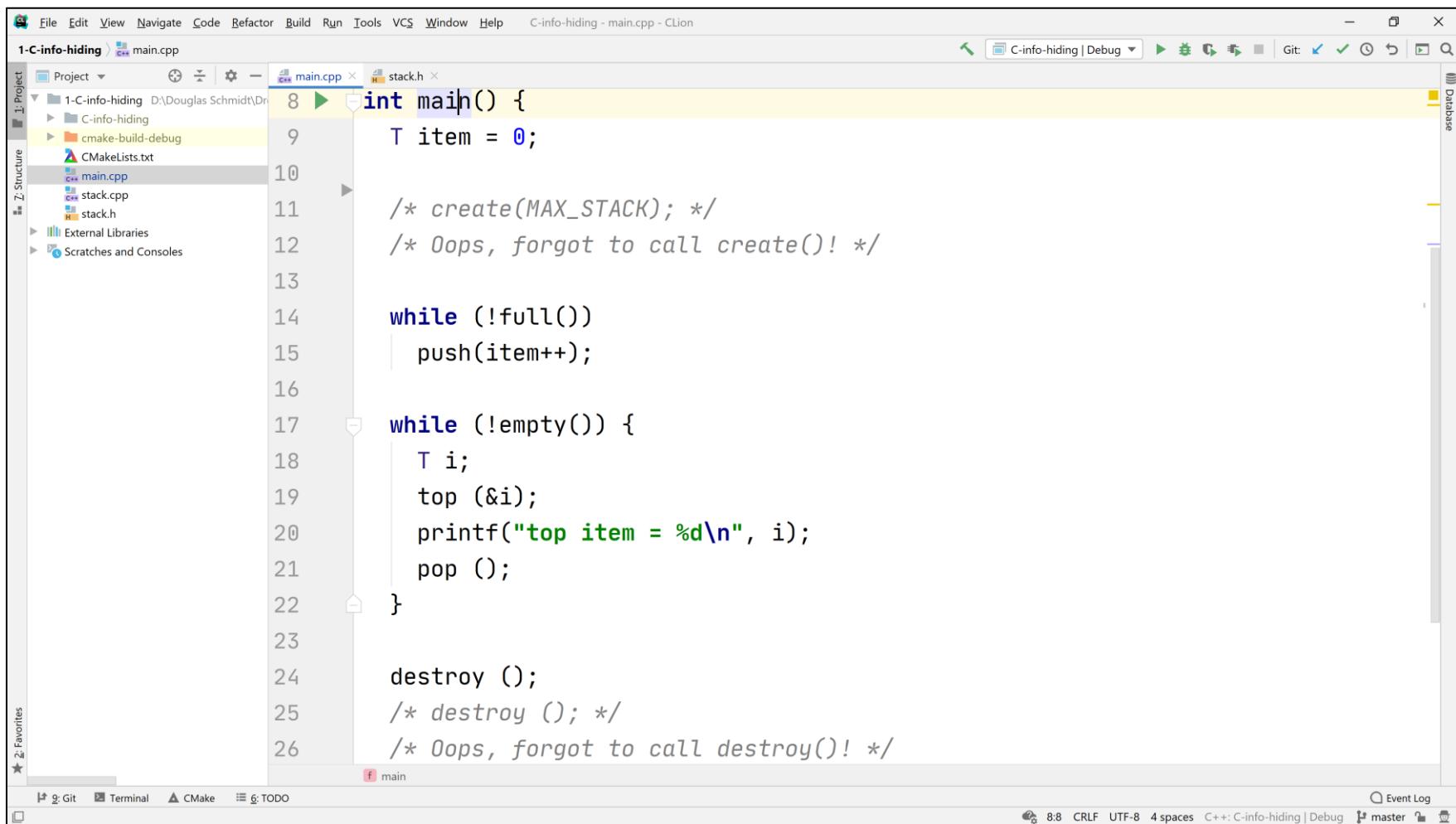


Information Hiding Implementation in C

- Define the interface & implementation to a stack of integers in C



The screenshot shows the CLion IDE interface with the following details:

- File Menu:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, VCS, Window, Help.
- Project:** 1-C-info-hiding, main.cpp
- Code Editor:** The main.cpp file contains the following C code:

```
int main() {
    T item = 0;

    /* create(MAX_STACK); */
    /* Oops, forgot to call create()! */

    while (!full())
        push(item++);

    while (!empty()) {
        T i;
        top (&i);
        printf("top item = %d\n", i);
        pop ();
    }

    destroy ();
    /* destroy (); */
    /* Oops, forgot to call destroy()! */
}
```
- Toolbars and Status Bar:** Git, Terminal, CMake, TODO, Event Log, 8.8 CRLF, UTF-8 4 spaces, C++: C-info-hiding | Debug, master.

See CPlusPlus/tree/master/overview/capabilities/1-C-info-hiding

Pros of Information Hiding Implementation in C

- Better than the “bare-bones” C implementation ;-)



Cons of Information Hiding Implementation in C

- The programmer must call create() first & destroy() last!
- There is only one stack & only one type of stack
- Name space pollution...
- Non-reentrant

