Debugging

Matteo Caldana

10/05/2023

Examples 1 - Debugging

This examples are inspired by https://github.com/cme212/course and show basic techniques for debugging as well as an introduction to gdb.

See also Defensive Programming and Debugging.

Some useful readings about undefined behaviour in C++:

- https://mohitmv.github.io/blog/Cpp-Undefined-Behaviour-101/
- https://mohitmv.github.io/blog/Shocking-Undefined-Behaviour-In-Action/

Exercise 2 - Debugging (advanced)

The program integer-list in the directory 02-bug has:

- a compile error;
- a run-time error;
- a memory leak;
- a possible memory leak that is not captured by the main.

Find all the issues and fix them.

Get help by using gdb and valgrind.

The directory 02-bug-solution contains the fixed code, please don't look at it before trying to solve the exercise by yourself!