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The difference between a compiler warning and a compiler error is that a compiler error is a condition which will not allow the creation of a final program. A warning is a condition in which the final program will still be compiled, however, a message will be outputted to convey that there is an anomaly in the program. Linters are programs which analyse code for potential errors.

Static program analysis is analyzing code without actually executing the program which is written in that code.

Dynamic analysis is analyzing code whilst in the process of executing the program which is written in that code.

Code coverage is a metric which determines the percentage of code that is automatically covered by tests.

Unit testing is a level of software testing in which parts of a program are tested individually such as classes.

Profiling is a type of dynamic program analysis which measures time, space, memory of a program.