

Debugging Techniques

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It is rare that a programmer writes any significant amount of code that is entirely free of errors. Often the error is very small, perhaps just one incorrect character. Or perhaps a variable that should be global. Or it could be a major error in logic. All are difficult to see and correct when immersed in the writing and reviewing of code.

There are two categories of programming errors:

Syntax errors –

These are grammatical errors that are detected, highlighted, and reported when the program is compiled. They are the programming equivalent of writing a sentence with incorrect spelling, grammar, or punctuation. For example: `primt "Hello World!` or `x`