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What is a bug?

A bug is an error, flaw, or unintended behavior in a computer program or system.

What are the common types of bugs?

Common types of bugs include syntax errors, logic errors, runtime errors, and semantic errors.

What is a syntax error?

A syntax error occurs when the code does not conform to the rules of the programming language.

What is a logic error?

A logic error occurs when the program runs without crashing but produces incorrect results.

What is a runtime error?

A runtime error occurs when the program encounters an issue while executing, causing it to crash.

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What is a semantic error?

A semantic error occurs when the code is syntactically correct but does not do what the programmer intended.

How can bugs be identified?

Bugs can be identified through testing, debugging, code reviews, and user feedback.

What is debugging?

Debugging is the process of finding and fixing bugs in a program.

What tools can be used for debugging?

Common debugging tools include integrated development environments (IDEs), debuggers, and logging.

What is unit testing?

Unit testing is a software testing method where individual components of a program are tested in isolation.

What is integration testing?

Integration testing is a testing phase where individual components are combined and tested as a group.

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What is system testing?

System testing is a testing phase where the complete and integrated software is tested to verify that it meets the specified requirements.

What is acceptance testing?

Acceptance testing is a testing phase where the software is tested in the real world by the end users to ensure it meets their needs.

What is regression testing?

Regression testing is a type of testing that ensures that recent changes to the code have not adversely affected existing features.

What is a bug report?

A bug report is a document that describes a bug, its steps to reproduce, and any relevant information to help developers fix it.

What is the importance of bug tracking?

Bug tracking is important for managing and prioritizing bugs, ensuring they are addressed in a timely manner.

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What is a bug lifecycle?

A bug lifecycle is the process a bug goes through from identification to resolution.

What is a critical bug?

A critical bug is a severe issue that prevents the software from functioning or causes significant problems.

What is a minor bug?

A minor bug is a less severe issue that does not significantly impact the software's functionality.

What is a bug fix?

A bug fix is a change made to the software to correct a bug.

What is version control?

Version control is a system that records changes to files or sets of files over time so that specific versions can be recalled later.

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