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What Makes a Productive Code Review

**What is code review?**

The process of closely reviewing written code before it is finalized is called code review. This enables a team to assess a program's numerous features, including its structure, dependability, and clarity of design, as well as whether the code fully and accurately implements the design.

**Why is it an important practice for computer science professionals?**

Code review is essential for computer science professionals. It helps identify and address issues such as poorly structured "spaghetti" code and functionality problems. Furthermore, the review

**When and how does it occur?**

Ideally, code review should occur before merging any code into production, rather than after automated checks are complete. This allows issues to be identified and addressed earlier in the development process, reducing the need for extensive modifications once the code reaches QA testing. By conducting code review prior to both production deployment and QA testing, the development team can optimize efficiency and ensure higher-quality code is delivered.

**Software, your code review & describe your approach?**

Effective code reviews keep the amount of code being reviewed concise and allocate sufficient time. Establish specific metrics or objectives for the review process, such as addressing pre-defined questions. Providing frequent annotations and comments is crucial to ensure team members fully understand the implemented code.