

Lecture 8 – Mutation Testing (Homework)

AAA705: Software Testing and Quality Assurance

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2024 Spring

- Mutation Testing
 - Fundamental Hypotheses
 - Overall Process
 - Mutation Generation
 - Kill vs Alive
 - Equivalent Mutants
 - How to Kill A Mutant
 - Scalability
 - Higher Order Mutants
 - Tools
- Test Flakiness

- Please see this document on GitHub:

<https://github.com/ku-plrg-classroom/js-mutest>

- The due date is 23:59 on Apr. 15 (Mon.).
- Please only submit `impl.ts` file to **Blackboard**.
- You can implement your own mutation testing tool in any programming language (e.g., Python, etc.) from scratch without using it.
- However, you need to provide instructions on how to build and execute your mutation testing tool, and it should produce the exactly same set of mutants from a given JavaScript program and provide the mutation score of a given test suite.

- Regression Testing

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