Lab: Abstract Interpretation

(Week 10)

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Lab-3 and Assignment-3 Marking

- Assignment-3 marking for the eight methods you need to implement
 - Your implementation (8 methods) will be evaluated against X number of our internal tests. If you pass Y tests, you will receive Y/X * 100% marks.
 - We do not mark each of the eight individual methods separately; instead, we mark based on the number of test cases you pass.
- Marks will be released after teaching week (Week 11 for Lab-3 and Week 12 for Assignment-3)
- If you have questions, feel free to post on Ed forums or email our course admins.

Quiz-3 + Lab-Exercise-3 + Assignment-3

- Quiz-3 (5 points) (due date: 23:59, Wednesday, Week 10)
 - Abstract domain and soundness, widening and narrowing
- Lab-Exercise-3 (5 points) (due date: 23:59, Wednesday, Week 10)
 - Goal: Manually updating abstract states for assertion verification
 - Specification: https://github.com/SVF-tools/ Software-Security-Analysis/wiki/Lab-Exercise-3
- Assignment-3 (25 points) (due date: 23:59, Wednesday, Week 11)
 - Goal: Automated abstract trace update on ICFG for assertion verification and overflow detection
 - Specification: https: //github.com/SVF-tools/Software-Security-Analysis/wiki/Assignment-3
 - SVF AE APIs: https: //github.com/SVF-tools/Software-Security-Analysis/wiki/AE-APIs
 - Test Cases:
 - Assignment-3/Tests/ae (assertion verification)
 - Assignment-3/Tests/buf (overflow detection)