Lab: Abstract Interpretation

(Week 9)

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Assignment-3 Spec and Assignment-2 Marks Released

- Marks for Assignment-2 have been released and we will go through some of the issues today
- Remember to git pull or docker pull to get the code template for Assignment-3

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)