Semantics of Programming Languages Past Paper

L1

Operation semantics, Typing rules.Progress and Type preservation lemma.

- y2013p6q9
- y2021p4q8
    - stack

- y2015p6q9
    - print(e) effect

- y2020p4q8
- y2022p4q9
    - Evaluation context, anomaly
    - LISP dynamic scoping vs static

L2 (Function)

- y2009p6q9
- y2018p4q8

L3

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Exception

- y2012p6q9
- y2017p6q9
    - dynamic memory

Effect System

- y2018p4q9
    - {R,W}, also covered in Part II Compiler Opt Lecture 13

- y2023p6q10
    - print(e) effect, one possible implementation y2015p6q9

Subtype

- y2003p6q12
- y2020p4q9
- y2022p4q8
    - reflexivity or transitivity, structural induction

Concurrent

- y2007p6q10

Semantic Equivalence

- y2021p4q9