

Team: LingJie Pan, Xin Gao, Joquanna Scott

Meeting log

Date	Meeting Log
4/11 Fri	<ul style="list-style-type: none">● Discussed meeting details, settled on meeting at 6pm every Friday● Discussed the structure of the team. No hierarchy or team leader● Created a progress log document● Discussed the details of the project, Gao is responsible for recreating TLS interpreters, while Pan and Scott work for 1.2
4/21 Monday	<ul style="list-style-type: none">● Discussed the date to sign up for progress meeting, eventually settled on April 29 as our first progress meeting, and May 9 for our second progress meeting
4/25 Fri	<ul style="list-style-type: none">● Discussed work assignation, Scott will work on 1.3, Pan works on 1.4, and Gao works on 1.5
5/2 Fri	<ul style="list-style-type: none">● Reported progress of each team member.● Discussed work assignation. Gao will be working on 1.6, Scott and Pan will work together on 1.7.● Scheduled an additional meeting for 5/7 Wed to discuss the upcoming progress meeting and project progress.
5/7 Wed	<ul style="list-style-type: none">● Reported newest Progress● Discussed the details of second progress meeting
5/9 Fri	<ul style="list-style-type: none">● Discussed the comment received during the second progress meeting, Pan will work to improve 1.2 and 1.4, Scott will work to improve on 1.2 ii and iii, Gao will work to improve 1.5
5/14 Wed	<ul style="list-style-type: none">● Discussed the details for submission

Progress

Date	Contributor	Task Complete
4/10/25	Xin Gao	1.1 – Full implementation of the TLS interpreter in RSR5
4/10/25	LingJie Pan	1.2 (i) – cond expression error checker completed
4/11/25	LingJie Pan	1.2 (i) – lambda expression error checker completed
4/13/25	LingJie Pan	1.2(i)-Enhanced lambda and cond syntax checker to check for nested lambda/cond expression
4/28/25	Joquanna Scott	1.2(ii & iii) - Finalized sketch on both parts, including test cases for iii
5/1/2025	LingJie Pan	1.2(i) Enhanced lambda-checker and cond-checker to check for nested cond/lambda expression and other primitive type's length

5/2/2025	LingJie Pan	1.2(i)-Enhanced top-level syntax-checker to check for generalized s-exp, researched closure and lexical scope
5/2/25	Joquanna Scott	1.2(iii) - Revamped unbound variable checker to include checks for cond statements and applications. TODO: Debug the variable check for cond/app operations. Implement let as 1.3 proof helper
5/2/25	Xin Gao	1.1 - added specification for the pre-condition and the post-condition. TODO: Start working on both 1.5 and 1.6
5/7/2025	LingJie Pan	1.4 – Completed the structural induction for the correctness of closure and lexical scope
5/7/25	Joquanna Scott	1.2(iii) - Completed debugging for unbound vars in lambda expressions 1.3 - Started proof for environment subsystem
5/7/25	Xin Gao	1.5 - Completed correctness proof with spec, analysis and test cases
5/8/25	Joquanna Scott	1.3 - Started implementation of *let – helper for environment changes and subsystem proof - Provided template for list binding environmental structure
5/10/2025	Joquanna Scott	1.2- Combined work for 1.2 part 1 and 1.2 part 2 and part 3
5/10/2025	LingJie Pan	1.4- Redo 1.4 to construct a more concise structural proof for correctness of closure and lexical scope
5/10/2025	LingJie Pan	1.2 – Added a wrapper function Simple-check
5/13/25	Joquanna Scott	1.3 - Added specification for environment subsystem
5/14/2025	LingJie Pan	1.2-Enhanced syntax-checker to deep check each subexpression in the expression
5/14/25	Xin Gao	1.5 - Renew correctness proof
5/15/25	Joquanna Scott	1.3 - Finalized proof of new representation validity
5/15/25	Xin Gao	1.6 - Completed detailed explanation of TLS dependence on R5RS in DrRacket
5/15/25	LingJie Pan	1.1-Integrated with syntax checker to check the expression before evaluating.