Sprint 2 Report
Go Compiler
March 13th, 2018
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Actions to Stop Doing:

Lateness to meetings should not be tolerated.

Actions to Start Doing:

We need to start assigning tasks better. Additionally, we need to be planning as a team. We need to be better at maintaining our scrum board. We tell each other what issues we are going to work on, but we need to be better about flagging ourselves.

Actions to Keep Doing:

Keep meeting with Professor Jullig whenever we need help and have questions about compiler design. We plan to keep meeting up to work. It makes us more productive and allows us to bounce ideas around in a way that assists progress. We will keep learning about Truffle, as even though we have the basics down we still need to keep investigating and learning about the framework as it is complicated.

Work Completed/Not Completed:

(Completed) User Story 1: As a user, I would like my Go source code to have a good IR.
  Tasks:
  - Skeleton IR
  - Visitor interface to instantiate truffle nodes
  - Add information to the initial tree so creating truffle nodes is easier

(Completed) User Story 2: As a user, I would like simple control flow to be implemented.
  Tasks:
  - If statement
  - For Loop
  - Switch
  - Break
  - Continue

(Completed) User Story 3: As a user, I would like variables to be implemented.

Tasks:
- Long variable declaration
- Short variable declaration
- Lexical Scope
- Reading variables
- Assigning variables

(Not Completed) User Story 4: As a user, I would like to be able to import packages and libraries.
Tasks:
- Fmt package - prints

(Completed) User Story 5: As a customer, I want a toolchain to parse my Go source code.
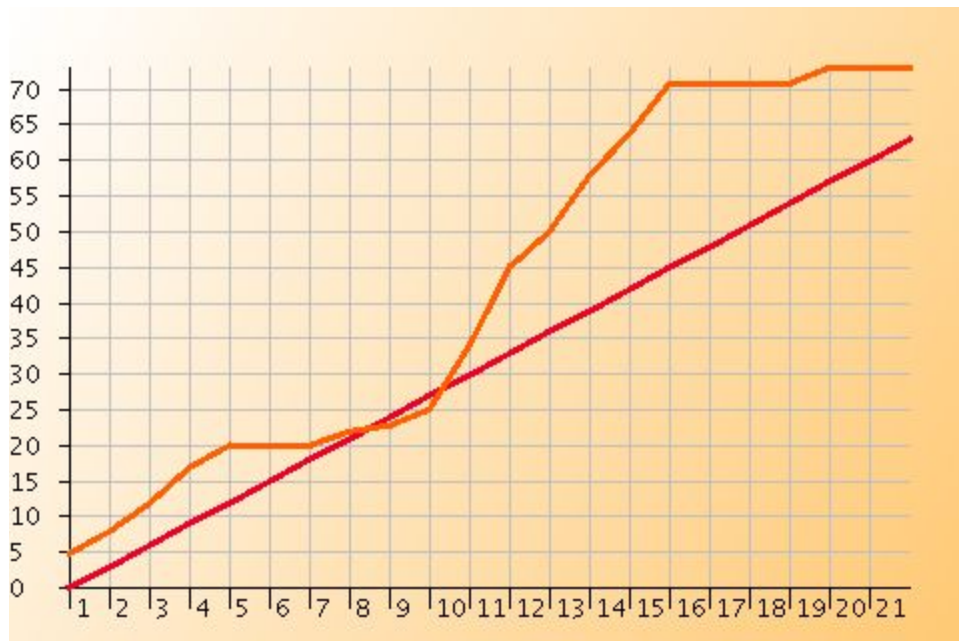**Tasks:**
- Go source parsed into an AST file to input to our parser.

We completed most of the objectives for our sprint.

Work Completion Rate:

Burnup Chart

Y-axis: Hours   Red: initial
X-axis: Days   Orange: actual