Group 11

Team Members

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Project Details

Source Language : GO

Implementation Language : Python

Target Language : MIPS

Features (Basic) Implementation Details

Features Implemented

- 1. Data types Integer, Boolean, String, Float
- 2. Variables and Expressions
- 3. Conditionals
- 4. Loops (For)
- 5. Switch-Case
- 6. Input/Output statements
- 7. Arrays
- 8. Functions (Recursion)
- 9. Struct Data Type
- 10. Pointers
- 11. Pass by Reference and value
- 12. Short Assignment
- 13. Print without delimiters (of multiple data types)

Features not implemented

- 1. Library Functions
- 2. Class Data Type
- 3. Function Prototyping
- 4. Global Variables
- 5. Complex float features

Advanced Features

Multi-Level Pointers:

For int, bool, strings etc

- Multiple Return Values (of any size/types)
- Complex Data Types:

Array of Struct, Array of strings etc

- Malloc Dynamic Memory Allocation
 Linked List, BST implementation
- Functions with any number of parameters (of any sizes/types)