



C-- : C compiler

CS 335 - Group 14

- **Source Language** : C
 - **Implementation Language** : Python 3
 - **Target Language** : X86_32 bit
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Basic Features

Working features

- Native Data types (integer, character).
- Variables and Expressions
- Control structures
- Conditionals (if, if-then-else)
- Loops (for, while).
- Input/Output statements
- Arrays
- Functions
- Recursion
- User defined types (struct)
- Pointers
- Math library functions

Not Working

- Boolean data types (can be implemented with int/char)
- Mutual Recursion



Advanced Features

- Floating Point Operations
- Interleaving of declarations and statements which includes declaring variables in the execution line of for loop
- Static Variables (only int)
- Global Variables
- Multilevel Pointers
- Multiple Scoping allowed
- Dynamic memory allocation (malloc)
- String library functions



Future Modifications

- Function Declaration
- Function Overloading
- Support of Union
- Global variables with initialization
- Static variables for data types other than int
- Array Initialization



Thank You!

