

## Mud

# Samir Beall, Joyal Mathew January 26, 2023

## Introduction

• Project Name: Mud

• Team Members: Samir, Joyal

## **Overall Vision**

Our vision is to create a modern C-like programming language offering simplicity, performance, and advanced features. It will be a great language to teach low-level programming in a modern style. When complete, our project will include a fully self-hosted compiler targeting a variety of architectures.

### Milestones

#### 1. Week 4

- (a) Outline the design goals of the language
- (b) Have a concrete definition of syntax
- (c) Implement a prototype lexer and parser

#### 2. Week 8

- (a) Implement a C transpiler written in rust
- (b) Create documentation that covers the basic functionality of the language
- (c) Possibly bootstrap the compiler here

#### 3. Week 12

- (a) Implement a LLVM backed compiler
- (b) Definitely bootstrap the compiler here