C Visualization Tool - Vision

- Teach people to program in C by showing them visually what their code is doing

- Animate pointers, update state, or visually represent the current stack or registers

- Students and beginning C programmers would enter small C functions and then line by line view what their code is doing

C Visualization Tool - Architecture

- Javascript (with libraries) front end to update the page and animate the code

- Regex/String Manipulation Parser to parse the text input and make sense out of the code

- Database backend with json objects to maintain current code that could be displayed on the frontend

C Visualization Tool - Risks

- We must be really comfortable with C in order to be able to parse it into meaningful JSON objects

- This could turn into a project larger than 8 weeks, but if we start with just one thing (like variables, then arrays, then functions, etc) then it could be feasible