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1. Problem Statement - The goal of this project is to implement a syntax analyzer for RAT18F language. Our program uses the lexical analyzer from project 1 to parse and identify tokens and lexemes. We modified project 1 to include a tokenizer to use in our project syntax analysis. Our method of implementing the syntax analysis is using a predictive parsing table.

2. How to use your program -

- Environment Mac os.
- Run program in terminal ./syntaxAnalyzer <input4.txt> or <input5.txt>

3. Design of your program - We used assignment 1 as a starting basis. We implemented a token class that helped with the construction of our syntax analyzer. We made a predictive parse table that had integer values that represented production rules. The production rules can be retrieved from a vector by using the index of that rule. We also used the STL stack along side the predictive parser to compute if input string is valid.

4. Any Limitation- No.

5. Any shortcomings - None