

Compiler Design Projects 2

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- C₀ Implementation with Java (or Python)
 - Compilation and Execution
 - Input File (Set of Production Rules) Name: rule.txt
 - Rule format will be as follows:

```
rule.txt
```

```
R1
E>E+T
R2
E>T
R3
T>T*F
R4
T>F
R5
F>(E)
R6
F>x
```





- C₀ Implementation with Java (or Python)
 - Compilation and Execution
 - Output: The set of newly generated sets and the corresponding items
 - Output format: "output.txt"
 - Output format example:

```
[S->.E][E->.E+T][E->.T][T->.T*F][T->.F][F->.(E)][F->.x]
I1
[A->E.][E->E.+T]
[E->T.] [T->T.*F]
[T->F.]
I11
[F->(E).]
```



- Grading Criteria (out of 100%)
 - Implementation (60%)
 - Accuracy Test with Sample Cases
 - Function Organization
 - Comments
 - Documentation (40%)
 - Function Explanation
 - What is this for? What are the input arguments? What should be return results?
 - Flow Chart (https://en.wikipedia.org/wiki/Flowchart)