

## ICS 2401 / ICS 2370 / BCT 2311 Compiler Construction - Assignment II

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1. Using the Recursive Descent strategy, write a C program for a simple calculator that can be used to perform integer arithmetic involving '+' and '\*'. Let your program consist of a set of mutually recursive routines.
2. Using the following grammar

$$S \rightarrow a S \mid b$$

Create an interpreter using LEX and YACC which will count the number of *a*'s in the input string.

3. Write a LEX and YACC specification files for a small calculator that can add and subtract numbers.