

Implement a simple interpreter for the language defined by the following grammar.

```
Prog -> Lists
Lists -> SumList Lists
Lists ->  $\epsilon$ 
SumList -> List ';'
List -> Element
List -> Element ';' List
List ->  $\epsilon$ 
Element -> IntLit
```

Shown below is an example program in the language.

```
10, 20;
50, 5, 7, 40;
;
4, 1, 3, 2;
17;
```

The output of the interpreter for the program must be.

```
The sum of 10, 20 is 30
The sum of 50, 5, 7, 40 is 102
The list is empty
The sum of 4, 1, 3, 2 is 10
The sum of 17 is 17
```

An IntLit is a sequence of one or more digits.

For this quiz you will submit a zip file that contains 2 files: q10.l and q10.y. You can put all of your semantic routines in the yacc file. I should be able to build a working executable from the two files you submit.

I do not think this should take you long to do but since it is a busy time in the semester you can have until Saturday November 21 at 11:59 PM to complete the quiz.