

Programming Assignment

1. Write a program to calculate FIRST(), FOLLOW() set, and the predictive parsing table from a given table. Validate your result for the following grammars (? is epsilon):

S \rightarrow ACB | Cbb | Ba
A \rightarrow da | BC
B \rightarrow g | ?
C \rightarrow h | ?

```

prog → stmt

stmt → if expr then block | while expr do block | expr ;

expr → term => id | isZero? term | not expr | ++ id | -- id

term → id | const

block → stmt | { stmts }

stmts → stmt stmts | ?

```

[illegible]