RE to DFA direct method:

1. a(b|c|a)b*aa
2. (a|b)?bba
3. aa+b|ca*
4. (a|b|ϵ)*bba
5. ab(a|b)*(b|c)+

First and Follow:

Check this tutorial: click

SLR Parsing

Draw a parse table and check if the input string is accepted or not.

1.Grammer:

S–>AA

A–>aA|b

Inputs:

a. **aabb**
b. **abab**
c. **abba**
d. **abab**

2. Grammer: ***

E→E + T

E→T

T→T * F

T→F

F→(E)

F→id

Inputs:

a. (id)
b. id+id*id
c. ididid
d. (id*id)+id

3. Grammar

E → T + E | T

T → int * T | int | (E)

Inputs:

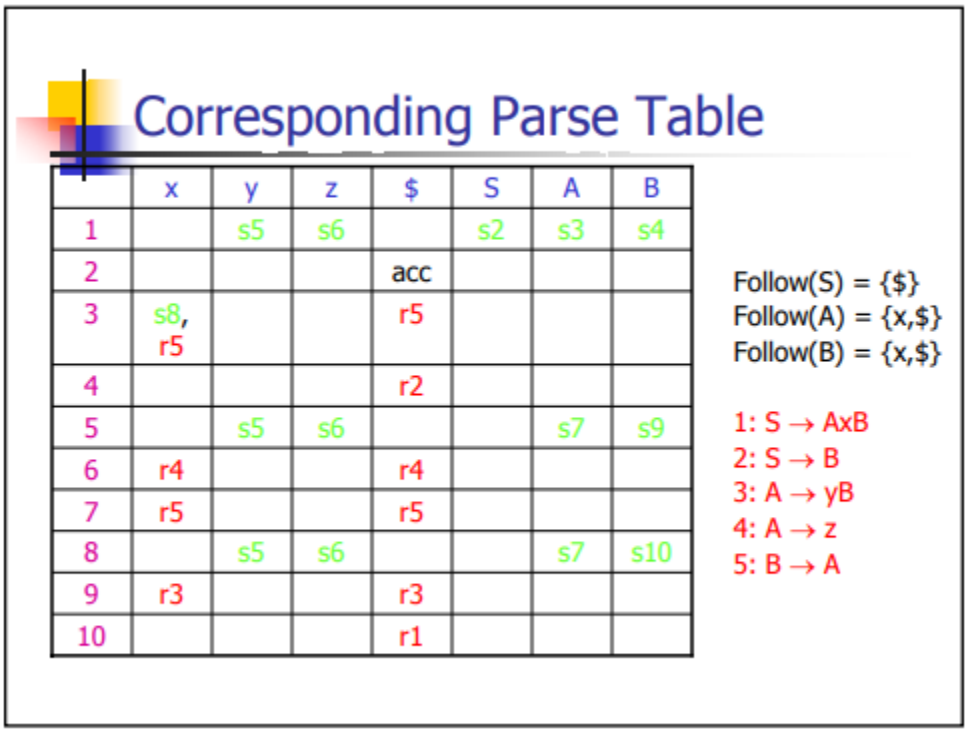
int*(int)

(int)+int

int*int+int*int

Stack Implementation:

A parse table and an input string will be given. You have to identify whether the input is accepted or not.



	x	y	z	$	S	A	B
1		s5	s6		s2	s3	s4
2				acc			
3	s8, r5			r5			
4				r2			
5		s5	s6			s7	s9
6	r4			r4			
7	r5			r5			
8		s5	s6			s7	s10
9	r3			r3			
10				r1			

Input: zxbz