

Universidad Nacional Autónoma de México Facultad de Estudios Superiores Aragón



Ingeniería en Computación COMPILADORES Grupo:2608

Profesor: Pérez Medel Marcelo

TAREA 3 Expresiones Infijas

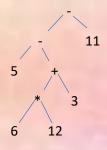
Alumna: Cruz Cervantes Guadalupe Sugeily

preorden
raíz
hijo izquierdo
hijo derecho
inorden
hijo izquierdo
raíz
hijo derecho

posorden
hijo izquierdo
hijo izquierdo

Prioridad	Operador	Asociatividad					
1	()	I → D, de adentro hacia afuera					
2	۸	$D \rightarrow I$					
3	*,/,%	I → D					
4	+,-	1 → D					
5	<. >, <=, >=,==,!=	1 → D					
6	NOT	D → I					
7	AND	1 → D					
8	OR	$I \rightarrow D$					

1.- 5-(6*12+3)-11



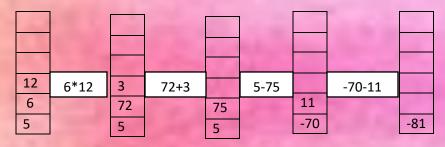
Prefija

--5+*612311

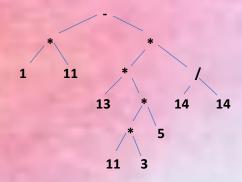
Postfija

5 6 12 * 3 + - 11 -

Evaluar



2.- 1*11-13*(11*3*5)*(14/14)



Prefija

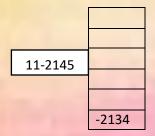
- * 1 11 * * 13 * * 11 3 5 / 14 14

Postfija

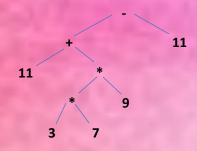
1 11 * 13 11 3 * 5 * * 14 14 / * -

Evaluar

		3		5				14				
	1*11	11	11*3	33	33*5	165	13*165	14	14/14	1	2145*1	
11		13		13		13		2145		2145		2145
1		11		11		11		11		11		11



3.- (11+(3*7)*9)-11

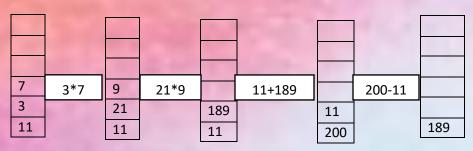


Prefija

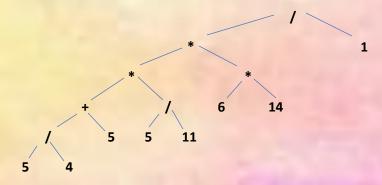
- + 11 * * 3 7 9 11

Postfija

11 3 7 * 9 * + 11 -



4.- (5/4+5)*(5/11)*(6*14)/1



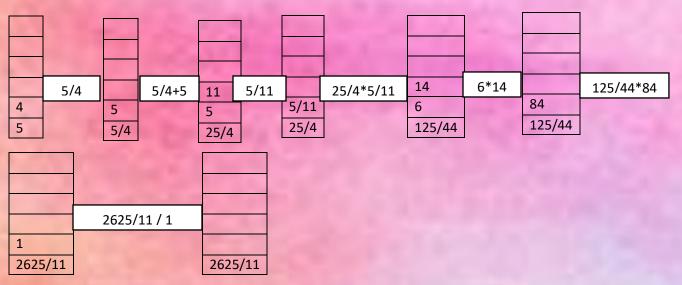
Prefija

/ * * + / 5 4 5 / 5 11 * 6 14 1

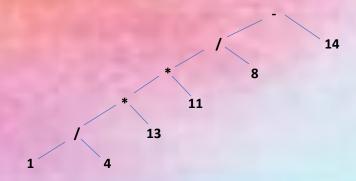
Postfija

54/5+511/*614**1/

Evaluar



5.- (1/4*13*11)/8-14

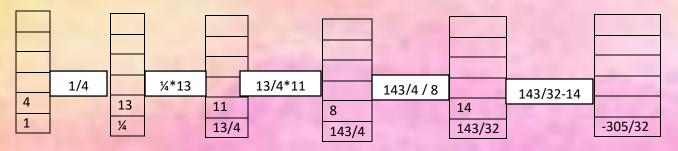


- / * * / 1 4 13 11 8 14

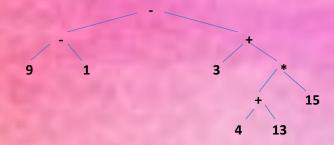
Postfija

1 4 / 13 * 11 * 8 / 14 -

Evaluar



6.- 9-1-(3+(4+13)*15)

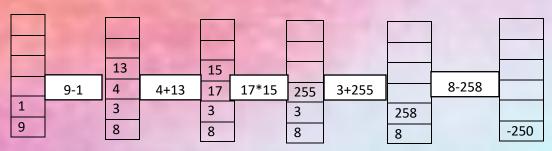


Prefija

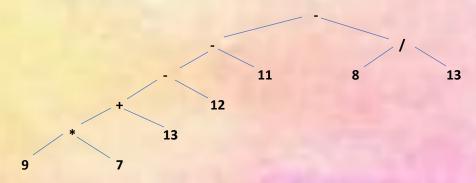
- - 9 1 + 3 * + 4 13 15

Postfija

9 1 - 3 4 13 + 15 * + -



7.- (9*7)+13-12-11-8/13



Prefija

---+ * 9 7 13 12 11 / 8 13

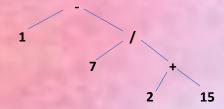
Postfija

9 7 * 13 + 12 - 11 - 8 13 / -

Evaluar

	9*7		63+13		76-12		64-11	13	8/13		53-8/13	
7	- 1	13 63	8	12 76		11 64		53		8/13 53		681/13

8.- 1-7/(2+15)



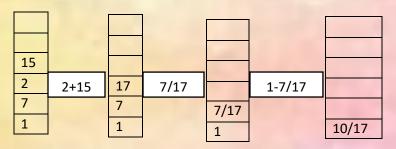
Prefija

- 1 / 7 + 2 15

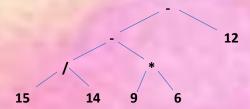
Postfija

1 7 2 15 + / -

Evaluar



9.- (15/14)-9*6-12



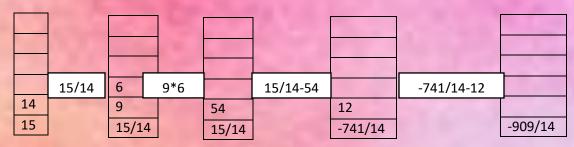
Prefija

- - / 15 14 * 9 6 12

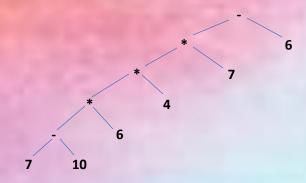
Postfija

15 14 / 9 6 * - 12 -

Evaluar



10.- (7-10)*6*4*7-6

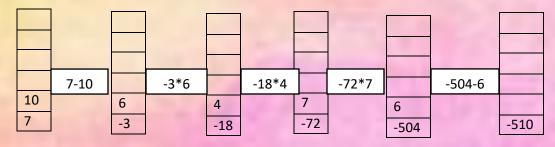


- * * * - 7 10 6 4 7 6

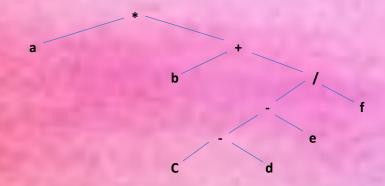
Postfija

7 10 - 6 * 4 * 7 * 6 -

Evaluar



11.- a*(b+(c-d-e)/f)

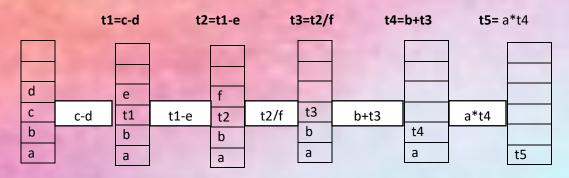


Prefija

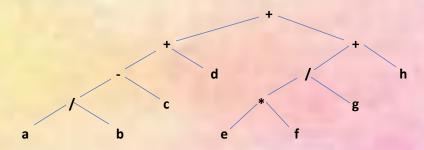
* a + b / - - c d e f

Postfija

a b c d - e - f / + *



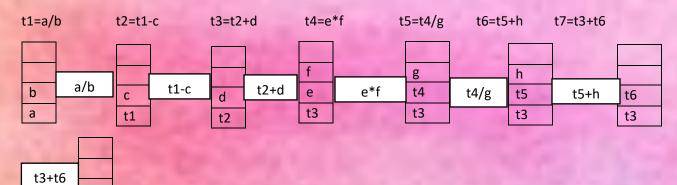
12.- a/b-c+d+(e*f/g+h)



Prefija

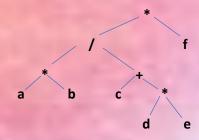
Postfija

Evaluar



13.- (a*b)/(c+d*e)*f

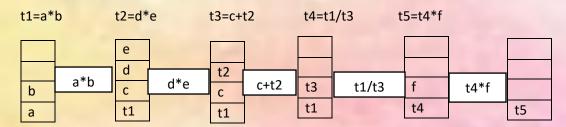
t7



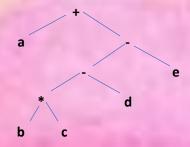
Prefija

Postfija

Evaluar



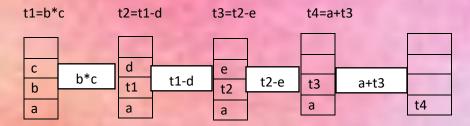
14.- a+(b*c-d-e)



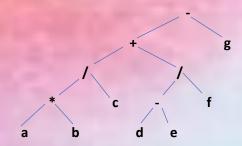
Prefija

Postfija

Evaluar

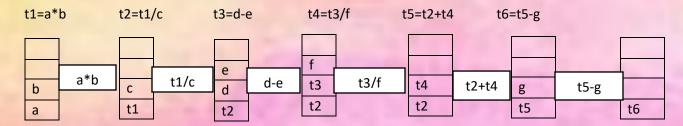


15.- (a*b/c)+(d-e)/f-g

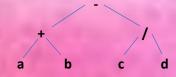


Postfija

Evaluar



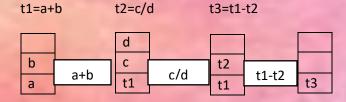
16.- a+b-(c/d)



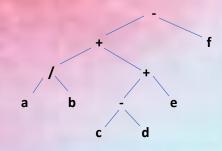
Prefija

Postfija

Evaluar

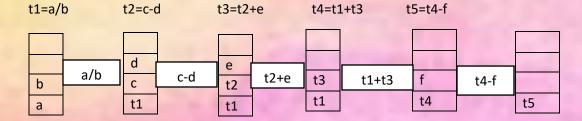


17.- (a/b)+(c-d+e)-f

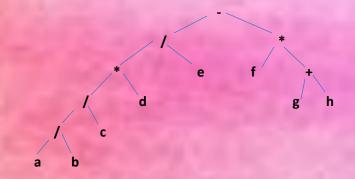


Postfija

Evaluar



18.- a/b/c*d/e-f*(g+h)



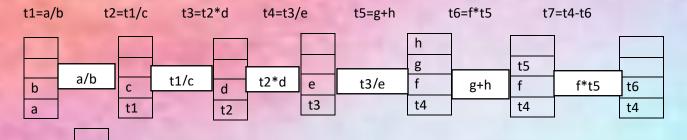
Prefija

Postfija

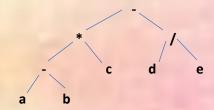
Evaluar

t4-t6

t7



19.- (a-b)*c-d/e



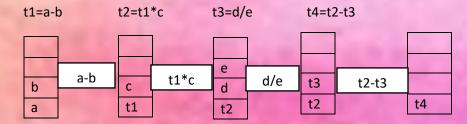
Prefija

- * - a b c / d e

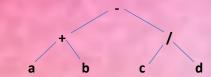
Postfija

a b - c * d e / -

Evaluar



20.- (a+b)-c/d



Prefija

- + a b / c d

Postfija

a b + c d / -

