

Universidad Nacional Autónoma de México Facultad de Estudios Superiores Aragón



Ingeniería en Computación COMPILADORES Grupo:2608

Profesor: Pérez Medel Marcelo

TAREA 4

Generar el código intermedio

Generar el ensamblador de una dirección

Alumna: Cruz Cervantes Guadalupe Sugeily

LDA- Carga

ADD- Suma

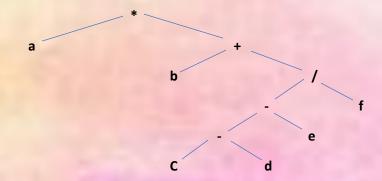
SUB- Resta

MUL- Multiplicacion

DIV-Division

STA- Toma

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



Prefija

Postfija

Código Intermedio

	t1=c-d		t2	t2=t1-e		3=t2/	t4=b+t3		t5= a*t4	
d		е		f						
С	c-d	t1	t1-e	t2	t2/f	t3	b+t3		a*t4	
b		b		b		b		t4		
а		а		а		а		a		t5

Código Ensamblador

LDA c;

SUB d;

STA t1;

LDA t1;

SUB e;

STA t2;

LDA t2;

DIV f;

STA t3;

LDA b;

ADD t3;

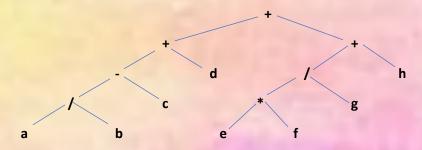
STA t4;

LDA a;

MUL t4;

STA t5;

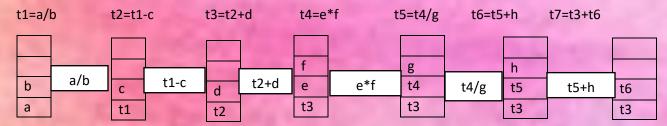
12.- a/b-c+d+(e*f/g+h)

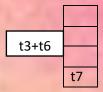


Prefija

Postfija

Código Intermedio



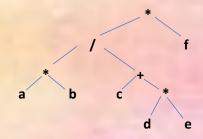


Código Ensamblador

LDA a; STA t5; DIV b; LDA t5; STA t1; ADD h; STA t6; LDA t1; SUB c; LDA t3; STA t2; ADD t6; STA t7; LDA t2; ADD d; STA t3; LDA e; MUL f;

STA t4; LDA t4; DIV g;

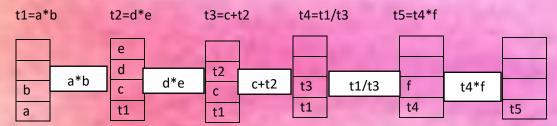
13.- (a*b)/(c+d*e)*f



Prefija

Postfija

Código Intermedio

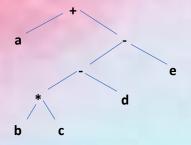


Código Ensamblador

LDA a;	LDA t1;
MULb;	DIV t3;
STA t1;	STA t4;
LDA d;	LDA t4;
MULe;	MUL f;
STA t2;	STA t5;
IDA c.	

LDA c; ADD t2; STA t3;

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



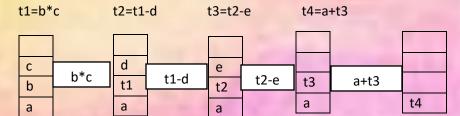
Prefija

+ a - - * b c d e

Postfija

a b c * d - e - +

Código Intermedio



Código Ensamblador

 LDA b;
 LDA t2;

 MUL c;
 SUB e;

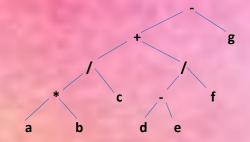
 STA t1;
 STA t3;

 LDA t1;
 LDA a;

 SUB d;
 ADD t3;

 STA t2;
 STA t4;

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



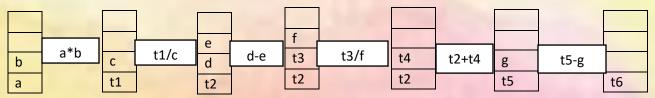
Prefija

Postfija

ab*c/de-f/+g-

Código Intermedio

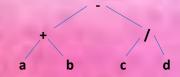
t1=a*b t2=t1/c t3=d-e t4=t3/f t5=t2+t4 t6=t5-g



Código Ensamblador

LDA t3; LDA a; MULb; DIV f; STA t1; STA t4; LDA t1; LDA t2; DIV c; ADD t4; STA t2; STA t5; LDA d; LDA t5; SUB e; SUB g; STA t3; STA t6;

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



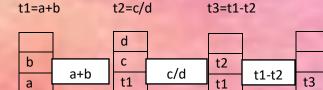
Prefija

- + a b / c d

Postfija

a b + c d / -

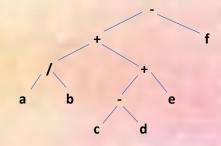
Código Intermedio



Código Ensamblador

LDA a; STA t2;
ADD b; LDA t1;
STA t1; SUB t2;
LDA c; STA t3;
DIV d;

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



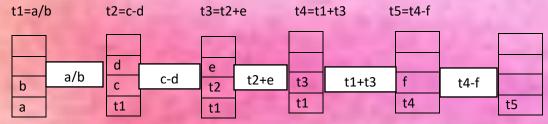
Prefija

- + / a b + - c d e f

Postfija

a b / c d - e + + f -

Código Intermedio

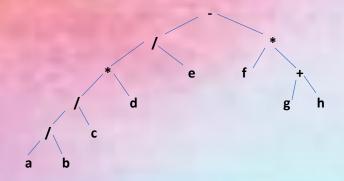


Código Ensamblador

LDA a; LDA t1;
DIV b; ADD t3;
STA t1; STA t4;
LDA c; LDA t4;
SUB d; SUB f;
STA t2; STA t5;
LDA t2;
ADD e;

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

STA t3;

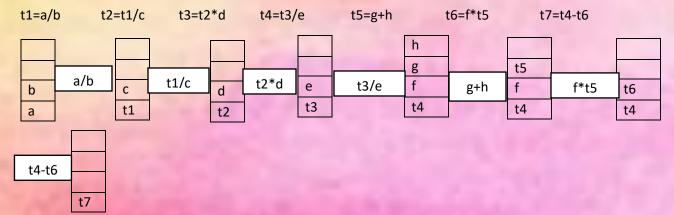


Prefija

Postfija

a b / c / d * e / f g h + * -

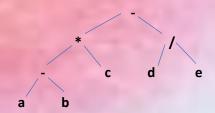
Código Intermedio



Código Ensamblador

LDA a; LDA g; DIV b; SUM h; STA t1; STA t5; LDA t1; LDA f; DIV c; MUL t5; STA t2; STA t6; LDA t2; LDA t4; MUL d; SUB t6; STA t3; STA t7; LDA t3; DIV e; STA t4;

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



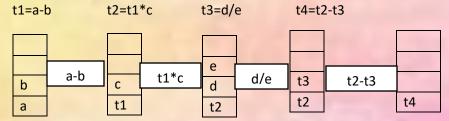
Prefija

- * - a b c / d e

Postfija

a b - c * d e / -

Código Intermedio



Código Ensamblador

LDA a;	LDA d;
SUB b;	DIV e;
STA t1;	STA t3;
LDA t1;	LDA t2;
MUL c;	SUB t3;
STA t2;	STA t4;

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



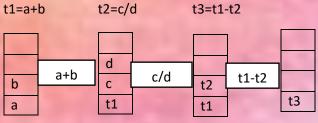
Prefija

- + a b / c d

Postfija

a b + c d / -

Código Intermedio



Código Ensamblador

LDA a;	DIV d;	STA t3;
ADD b;	STA t2;	
STA t1;	LDA t1;	
LDA c;	SUB t2;	