

Sea la expresión $((W+X)*(Y-Z))$ Valores $W=8, X=6, Y=14, Z=10$

Símbolo	Pila de operadores	Pila de operandos	Cadena de caracteres
((
(((
W	((	W	W
+	((+	W	W
X	((+	WX	WX
)	(	WX	WX+
*	(*	WX	WX+
(	(*	WX	WX+
Y	(*	WXY	WX+Y
-	(*(-	WXY	WX+Y
Z	(*(-	WXYZ	WX+YZ
)	*	WXYZ	WX+YZ-
)	)	WXYZ	WX+YZ-*
)		WXYZ	WX+YZ-*

Evaluación:

$R1 = WX+$

$R2 = YZ-$

$R3 = R1R2^*$

Resolución:

$WX+YZ-^*$

$R1 YZ-^*$

$R1R2^*$

$R3$

*Se colocan paréntesis para diferenciar los números

$(8)(6)+(14)(10)-^*$

$R1 = 14 \quad R1(14)(10)-^*$

$R2 = 4 \quad R1R2^*$

$R3 = 56 \quad R3$

Sea la expresión $((A/C)*(K+I-A)/((P+A)*(A-I)))$

Símbolo	Pila de operadores	Pila de operandos	Cadena de caracteres
((
(((
A	((	A	A
/	((/	A	A
C	((/	AC	AC
)	(	AC	AC/
*	(*	AC	AC/
(	(*(	AC	AC/
K	(*(	ACK	AC/K
+	(*(+	ACK	AC/K
I	(*(+	ACKI	AC/KI
-	(*(-	ACKI	AC/KI
A	(*(-	ACKIA	AC/KIA
)	(*(	ACKIA	AC/KIA-+
/	(*/	ACKIA	AC/KIA-+
(	(*/(	ACKIA	AC/KIA-+
(	(*/((	ACKIA	AC/KIA-+
P	(*/((	ACKIAP	AC/KIA-+P
+	(*/((+	ACKIAP	AC/KIA-+P
A	(*/((+	ACKIAPA	AC/KIA-+PA
)	(*/(	ACKIAPA	AC/KIA-+PA+
*	(*/(*	ACKIAPA	AC/KIA-+PA+
(	(*/(*(	ACKIAPA	AC/KIA-+PA+
A	(*/(*(	ACKIAPAA	AC/KIA-+PA+A
-	(*/(*(-	ACKIAPAA	AC/KIA-+PA+A
I	(*/(*(-	ACKIAPAAI	AC/KIA-+PA+AI
)	(*/(*	ACKIAPAAI	AC/KIA-+PA+AI-
)	(*/	ACKIAPAAI	AC/KIA-+PA+AI-*
)		ACKIAPAAI	AC/KIA-+PA+AI-*/

Evaluación:

AC/KIA-+PA+AI-*/

R1 = AC/

R2 = IA-

R3 = KR2+

R4 = PA+

R5 = AI-

R6 = R5R4*

R7 = R6R3/

R8 = R7R1

Sea la expresión $((A+C)*(C-A+F))/(Z*R/F)$

Símbolo	Pila de operadores	Pila de operandos	Cadena de caracteres
((
(((
(((
A	((	A	A
+	((+	A	A
C	((+	AC	AC
)	((	AC	AC+
*	((*	AC	AC+
(	((*(	AC	AC+
C	((*(	ACC	AC+C
-	((*(-	ACC	AC+C
A	((*(-	ACCA	AC+CA
+	((*(-+	ACCA	AC+CA
F	((*(-+	ACCAF	AC+CAF
)	((*	ACCAF	AC+CAF+-
)	(	ACCAF	AC+CAF+-*
/	(/	ACCAF	AC+CAF+-*
(	(/(	ACCAF	AC+CAF+-*
Z	(/(	ACCAFZ	AC+CAF+-*Z
*	(/(*	ACCAFZ	AC+CAF+-*Z
R	(/(*	ACCAFZR	AC+CAF+-*ZR
/	(/(*/	ACCAFZR	AC+CAF+-*ZR
F	(/(*/	ACCAFZRF	AC+CAF+-*ZRF
)	(/	ACCAFZRF	AC+CAF+-*ZRF/*
)		ACCAFZRF	AC+CAF+-*ZRF/*

Evaluación:

$((A+C)*(C-A+F))/(Z*R/F)$

Sea A = 10, C = 2, F = 4, Z = 6, R = 8

R1 = AC+	R1 = (10)(2)+	R1 = 12
R2 = AF+	R2 = (10)(4)+	R2 = 14
R3 = CR2-	R3 = (2)(R2)-	R3 = -12
R4 = R1R3*	R4 = R1R3*	R4 = -144
R5 = RF/	R5 = (8)(4)/	R5 = 2
R6 = ZR5*	R6 = (6)R5*	R6 = 12
R7 = R4R6/	R7 = R4R6/	R7 = -12

Sea la expresión $((4/(2+(8-4)))+5*(7*(3-2)))/2$

Símbolo	Pila de operadores	Pila de operandos	Cadena de caracteres
((
(((
(((
4	((	4	4
/	((/	4	4
(	((/(	4	4
2	((/(	4 2	42
+	((/(+	4 2	42
(	((/(+(	4 2	4 2
8	((/(+(	4 2 8	4 2 8
-	((/(+(-	4 2 8	4 2 8
4	((/(+(-	4 2 8 4	4 2 8 4
)	((/(+	4 2 8 4	4 2 8 4-
)	((/	4 2 8 4	4 2 8 4-+
)	((	4 2 8 4	4 2 8 4-+/-
+	((+	4 2 8 4	4 2 8 4-+/-
5	((+	4 2 8 4 5	4 2 8 4-+/5
*	((+*	4 2 8 4 5	4 2 8 4-+/5
(	((+*(	4 2 8 4 5	4 2 8 4-+/5
7	((+*(	4 2 8 4 5 7	4 2 8 4-+/5 7
*	((+*(	4 2 8 4 5 7	4 2 8 4-+/5 7
(	((+*(	4 2 8 4 5 7	4 2 8 4-+/5 7
3	((+*(	4 2 8 4 5 7 3	4 2 8 4-+/5 7 3
-	((+*(	4 2 8 4 5 7 3	4 2 8 4-+/5 7 3
2	((+*(	4 2 8 4 5 7 3 2	4 2 8 4-+/5 7 3 2
)	((+*(	4 2 8 4 5 7 3 2	4 2 8 4-+/5 7 3 2-
)	((+*	4 2 8 4 5 7 3 2	4 2 8 4-+/5 7 3 2-*
)	(	4 2 8 4 5 7 3 2	4 2 8 4-+/5 7 3 2-**+
/	(/	4 2 8 4 5 7 3 2	4 2 8 4-+/5 7 3 2-**+
2	(/	4 2 8 4 5 7 3 2 2	4 2 8 4-+/5 7 3 2-**+2
)		4 2 8 4 5 7 3 2 2	4 2 8 4-+/5 7 3 2-**+2/

Evaluación:

4 2 8 4-+/5 7 3 2-**+2/

R1 = 8 4- R1 = 4

R2 = 2 R1+ R2 = 6

R3 = 4 R2/ R3 = 4/6

R4 = 3 2- R4 = 1

R5 = 7 R4* R5 = 7

R6 = 5 R5* R6 = 35

$$R7 = R3 R6+$$

$$R7 = 107/3$$

$$R8 = R7 2/$$

$$R7 = 107/6$$