1. $a + b - c * d | e - f + g * h$

input	operator	output
a		a
+	+	a
b	+	ab
-	-	ab+
c	-	ab+c
*	*	ab+c
d	*	ab+cd
/	-/	ab+cd*
e	-/	ab+cd*e
-	-	ab+cd*el-
f	-	ab+cd*el-f
+	+	ab+cd*el-f-
g	+	ab+cd*el-f-g
*	-	ab+cd*el-f-g+
h	-	ab+cd*el-f-g+h
		ab+cd*el-f-g+h-

$1 + 2 \cdot 3 * 4 | 5 - 6 + 7 * 8 = 50.6$

1. a + b - (c × d) - e - f + g - h

input	operator	output
a		a
+	+	a
b	+	ab
-	-	ab+
(	-(	ab+
c	-(	ab+c
*	-(*	ab+c
d	-(*	ab+cd
)	-	ab+cd*
-	-	ab+cd*-
e	-	ab+cd*-e
-	-	ab+cd*-e-
f	-	ab+cd*-e-f
+	+	ab+cd*-e-f-
g	+	ab+cd*-e-f-g
-	-	ab+cd*-e-f-g+
h	-	ab+cd*-e-f-g+h
		ab+cd*-e-f-g+h

1+2+(3*4)-5-6+7-8 = -21

b. $a+(b+c)\cdot d / e+f / g\cdot h$

input	operator	output
a		a
+	+	a
(	+(	a
b	+(	ab
+	+(+	ab
c	+(+	abc
)	+	abc+
*	+*	abc+
d	+*	abc+d
/	+/	abc+d*
e	+/	abc+d*e
+	+	abc+d*el+
f	+	abc+d*el+f
/	+/	abc+d*el+f
g	+/	abc+d*el+fg
*	+*	abc+d+el+fgl
h	+*	abc+d+el+fglh
		abc+d+el+fglh*+

$1+(2+3)*4/5+6/7*8 = 11.85711429$

6. a | b * c * d * (e-f) + g ^ h

Input	operator	output
a		a
|	|	a
b	|	ab
*	*	ab|
c	*	ab|c
*	*	ab|c*
d	*	ab|c*d
*	*	ab|c*d*
(	*(	ab|c*d*
e	*(	ab|c*d*e
-	*(-	ab|c*d*e
f	*(-	ab|c*d*ef
)	*	ab|c*d*ef-
+	+	ab|c*d*ef-*
g	+	ab|c*d*ef-*g
^	^	ab|c*d*ef-*g+
h	^	ab|c*d*ef-*g+h
		ab|c*d*ef-*g+h^

1 | 2 * 3 * 4 * (5-6) + 7 ^ 8 = 5,764,795

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

input	operator	output
(	(	
a	(	a
^	(^	a
b	(^	ab
)		ab^
/	/	ab^
c	/	ab^c
*	*	ab^c/
d	*	ab^c/d
/	/	ab^c/d*
e	/	ab^c/d*e
-	-	ab^c/d*e/
f	-	ab^c/d*e/f
+	+	ab^c/d*e/f-
g	+	ab^c/d*e/f-g
+	+	ab^c/d*e/f-g+
h	+	ab^c/d*e/f-g+h
		ab^c/d*e/f-g+h+

2^3*4/5-6+7+8 = 9.26666667