

① $A + B - C * D / E - F + G * H$

A	[]	A
+	[+]	A
B	[+]	AB
-	[-]	AB +
C	[-]	AB + C
*	[*]	AB + C
D	[*]	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 - GH
H	[*]	AB + CD * E / - F - GH *
	[]	AB + CD * E / - F - GH * +

NO.

Date.

(2) $a * b - c * d + e - f + g * h$

a

|

a

*

|*|

a

b

|*|

ab

-

|-*|

ab

c

|-*|

abc

*

|*|

abc

d

|*|

abcd

+

|+*|

abcd

e

|+*|

abcde

-

|-|

abcde+*-*

f

|-|

abcde+*-*f

+

|+|

abcde+*-*f

g

|+|

abcde+*-*fg

*

|*|

abcde+*-*fg

h

|*|

abcde+*-*fgh

abcde+*-*fgh*+-

③ $a + b * c * d / (e * f) * g + h$

No.

a	$\boxed{}$	a
+	$\boxed{+}$	a
b	$\boxed{+}$	ab
*	$\boxed{+}$	ab
c	$\boxed{+}$	abc
*	$\boxed{+}$	abc
d	$\boxed{+}$	abcd
/	$\boxed{/}$	abcd**+
e	$\boxed{/}$	abcd**+e
*	$\boxed{/}$	abcd**+e
f	$\boxed{/}$	abcd**+ef
*	$\boxed{/}$	abcd**+ef
g	$\boxed{/}$	abcd**+efg
+	$\boxed{+}$	abcd**+efg
h	$\boxed{+}$	abcd**+efgh+**/

④ $a+b-(c*d)-e-f+g-h$

a	[]	a
+	[+]	a
b	[+]	ab
-	[-]	ab
c	[-]	abc
*	[*]	abc
d	[*]	abcd
-	[-]	abcd*-+
e	[-]	abcd*-+e
-	[-]	abcd*-+e
f	[-]	abcd*-+ef
+	[+]	abcd*-+ef
g	[+]	abcd*-+efg
-	[-]	abcd*-+efg
h	[-]	abcd*-+efgh
		abcd*-+efgh

⑤ $a + (b + c) * d / e + f / g * h$

a	$\boxed{}$	a
+	$\boxed{+}$	a
b	$\boxed{+}$	ab
+	$\boxed{+}$	ab
c	$\boxed{+}$	abc
*	$\boxed{+}$	abc
d	$\boxed{+}$	abcd
/	$\boxed{/}$	abcd*++
e	$\boxed{/}$	abcd*+++e
+	$\boxed{+}$	abcd*+++e
f	$\boxed{+}$	abcd*+++ef
/	$\boxed{/}$	abcd*+++ef
g	$\boxed{/}$	abcd*+++efg
*	$\boxed{*}$	abcd*+++efg
h	$\boxed{*}$	abcd*+++efgh
		abcd*+++efgh*/+/

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

a

\square

a

/

\square

a

b

\square

ab

*

\square

ab

c

\square

abc

*

\square

abc

d

\square

abcd

*

\square

abcd

e

\square

abcd*** / e

-

\square

abcd*** / e

f

\square

abcd*** / ef

+

\square

abcd*** / ef

g

\square

abcd*** / efg

^

\square

abcd*** / efg

h

\square

abcd*** / efgh

abcd*** / efgh ^ + -

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

a	$\boxed{}$	a
\wedge	$\boxed{\wedge}$	$a \wedge b$
b	$\boxed{\wedge}$	$a \wedge b$
/	$\boxed{/}$	$(a \wedge b) / c$
c	$\boxed{/}$	$(a \wedge b) / c$
*	$\boxed{*}$	$(a \wedge b) / c * d$
d	$\boxed{*}$	$(a \wedge b) / c * d$
/	$\boxed{/}$	$(a \wedge b) / c * d / e$
e	$\boxed{/}$	$(a \wedge b) / c * d / e$
-	$\boxed{-}$	$(a \wedge b) / c * d / e - f$
f	$\boxed{-}$	$(a \wedge b) / c * d / e - f$
+	$\boxed{+}$	$(a \wedge b) / c * d / e - f + g$
g	$\boxed{+}$	$(a \wedge b) / c * d / e - f + g$
+	$\boxed{+}$	$(a \wedge b) / c * d / e - f + g + h$
h	$\boxed{+}$	$(a \wedge b) / c * d / e - f + g + h$

$$8 \quad a * b \wedge c * ((d - e) - f) * g - h$$

a	$\boxed{}$	a
*	$\boxed{[*]}$	a *
b	$\boxed{[*]}$	a b
\wedge	$\boxed{[\wedge]}$	a b \wedge c
c	$\boxed{[*]}$	a b \wedge c *
*	$\boxed{[*]}$	a b \wedge c *
d	$\boxed{[*]}$	a b \wedge c * d
-	$\boxed{[-]}$	a b \wedge c * d -
e	$\boxed{[-]}$	a b \wedge c * d e
-	$\boxed{[-]}$	a b \wedge c * d e -
f	$\boxed{[-]}$	a b \wedge c * d e f
*	$\boxed{[*]}$	a b \wedge c * d e f -- *
g	$\boxed{[*]}$	a b \wedge c * d e f -- * g
-	$\boxed{[-]}$	a b \wedge c * d e f -- * g -
h	$\boxed{[-]}$	a b \wedge c * d e f -- * g h
		a b \wedge c * d e f -- * g h - *

Infix

Stack

Postfix

a

a

+

+

a

b

+

ab

-

+

ab

c

+

abc

^

^

abc

d

abc+-^d

-

-

abc+-^d

e

-

abc+-^de

-

=

abc+-^de

f

=

abc+-^def

*

*

abc+-^def

g

*

abc+-^defg

-

*

abc+-^defg

h

*

abc+-^defgh--*

No.

Date.

infix	stack	Postfix
a		a
/	/	a
b	/	ab
+	+	ab
c	+	abc
*	*	abc
d		abc*+/d
+	+	abc*+/d
e	+	abc*+/de
+	+	abc*+/de
f	+	abc*+/def
^		abc*+/def++
g	^	abc*+/def++g
+	+	abc*+/def++g
h	+	abc*+/def++gh+

