

1	$4 * (1 + 3) / 16 - 1$ CAL
2	$\sin(1) * \cos(3) + \log(\exp(2))$ CAL
3	$((4 + ((3) * (2)) - 1))$ CAL
4	$(+4) * (-\sin((-exp(4))))$ CAL
5	$\log(2 + 4 * 5) \rightarrow [x] \exp(2+[x]) \rightarrow [y] \exp([x]) + \log([y])$ CAL
6	$\log(2 + 4 * 5) \rightarrow$ $[x] \exp(2+[x]) \rightarrow [y]$ $\exp([x]) + \log([y])$ C AL
7	$\log(2 + 4 * 5) \rightarrow [x] \exp(2+[x]) \rightarrow [y] \exp([x]) + \log([y])$ EXIT
8	$1 \rightarrow [x]$ CAL
9	$\log((-1+2))$ CAL
10	$3.14159265 \rightarrow [p] 0.0 \rightarrow [m] 0.1 \rightarrow [s] 2.71828 \rightarrow [e]$ $0 \rightarrow [x]$ $\exp(-(1/2)) * \log(2 * [s] * [s] * [p]) * \exp(-1) * ([x]-[m]) * ([x]-[m]) / (2 * [s] * [s]) * \log([e])$ CAL

C:\Windows\system32\cmd.exe

```
4 * ( 1 + 3 ) / 16 - 1  
0.000000
```

```
sin (1) * cos (3) + log(exp(2)) CAL  
sin ( 1 ) * cos ( 3 ) + log ( exp ( 2 ) )  
1.166950
```

```
((4 + ((3) * (2)) - 1)) CAL  
( ( 4 + ( ( 3 ) * ( 2 ) ) - 1 ) )  
9.000000
```

```
(+4) * (-sin((-exp(4)))) CAL  
( +4 ) * ( 0 - sin ( ( 0 - exp ( 4 ) ) ) )  
-3.715068
```

```
log(2 + 4 * 5) -> [x] exp(2+[x]) -> [y] exp([x]) + log([y]) CAL  
exp ( [ x ] ) + log ( [ y ] )  
27.091031
```

```
log(2 + 4 * 5) ->  
[x] exp(2+[x]) -> [y]  
exp([x]) + log([y]) C  
AL  
exp ( [ x ] ) + log ( [ y ] )  
27.091031
```

```
log(2 + 4 * 5) -> [x] exp(2+[x]) -> [y] exp([x]) + log([y]) EXIT  
1->[x] CAL  
계속하려면 아무 키나 누르십시오 . . .
```

Test case 1~6 연산 및 parsing

Test case 7 EXIT

Test case 8 레지스터 저장

Test case 9 음수표현 괄호처리 에러 발생

Test case 10 전기능 복합적 연산

```
C:\Windows\system32\cmd.exe
log((-1+2))CAL
log ( ( - 1 + 2 ) )
INVALID_OPERANDS계속하려면 아무 키나 누르십시오 . . .
```

```
C:\Windows\system32\cmd.exe
exp( -(1/2)) * log ( 2 * [s] * [s] * [p] ) ) *
exp( (-1) * ([x]-[m]) * ([x]-[m]) / (2 * [s] * [s]) * log ([e]) )
CAL
exp ( ( - ( 1 / 2 ) ) * log ( 2 * [ s ] * [ s ] * [ p ] ) ) * exp ( ( -
1 ) * ( [ x ] - [ m ] ) * ( [ x ] - [ m ] ) / ( 2 * [ s ] * [ s ] ) * l
og ( [ e ] ) )
3.989416
```