Test case 1

```
|        1     |   Number    |
|        +     |   Operater  |
|      2.3     |   Number    |
|        (     |   Operater  |
|        7     |   Number    |
|        ^     |   Operater  |
|        8     |   Number    |
|        )     |   Operater  |
|      sin     |   Function  |
|        +     |   Operater  |
|    sin_e     |   Identifier|
|        -     |   Operater  |
|       2x     |   Errer     |
|        +     |   Operater  |
|       x2     |   Identifier|
|        *     |   Operater  |
|       2!     |   Errer     |
|        /     |   Operater  |
|      _x1     |   Identifier|
|     sine     |   Identifier|
===================================
Function    1  : sin
Operater    9  : + ( ^ ) + - + * /
Number      4  : 1 2.3 7 8
Identifier  4  : sin_e x2 _x1 sine
Errer       2  : 2x 2!
=====================================================
Press any key to continue . . .
_
```

Test case 2

```
Enter Your strings : SIN(cos(Tan(aSin(Acos(Atan) SQRT) log)exP)pow)
Your string is : SIN ( cos ( Tan ( aSin ( Acos ( Atan )  SQRT )  log ) exP ) pow )
count : 20
===================================
|      SIN   |   Function  |
|        (   |   Operater  |
|      cos   |   Function  |
|        (   |   Operater  |
|      Tan   |   Function  |
|        (   |   Operater  |
|     aSin   |   Function  |
|        (   |   Operater  |
|     Acos   |   Function  |
|        (   |   Operater  |
|     Atan   |   Function  |
|        )   |   Operater  |
|     SQRT   |   Function  |
|        )   |   Operater  |
|      log   |   Function  |
|        )   |   Operater  |
|      exP   |   Function  |
|        )   |   Operater  |
|      pow   |   Function  |
|        )   |   Operater  |
===================================
Function   10  : SIN cos Tan aSin Acos Atan SQRT log exP pow
Operater   10  : ( ( ( ( ( ) ) ) ) )
Number      0  :
Identifier  0  :
Errer       0  :
=====================================================
Press any key to continue . . .
```

Test case 3

```
Enter Your strings : +-*/^()2 3  .5 exit  end 2$  1A  A1 sin2 2sin  a@b 1.1.  1.1.1
Your string is : +  -  *  /  ^  (  ) 2  3  .5 exit  end 2$  1A  A1 sin2 2sin  a@b 1.1.  1.1.1
count : 20
==================================
|        +   |   Operater    |
|        -   |   Operater    |
|        *   |   Operater    |
|        /   |   Operater    |
|        ^   |   Operater    |
|        (   |   Operater    |
|        )   |   Operater    |
|        2   |   Number      |
|        3   |   Number      |
|       .5   |   Number      |
|     exit   |   Identifier  |
|      end   |   Identifier  |
|       2$   |   Errer       |
|       1A   |   Errer       |
|       A1   |   Identifier  |
|     sin2   |   Identifier  |
|     2sin   |   Errer       |
|      a@b   |   Errer       |
|     1.1.   |   Errer       |
|    1.1.1   |   Errer       |
==================================
Function    0 :
Operater    7 : + - * / ^ ( )
Number      3 : 2 3 .5
Identifier  4 : exit end A1 sin2
Errer       6 : 2$ 1A 2sin a@b 1.1. 1.1.1
=========================================================
Press any key to continue . . .
```

Test case 4 & 5

```
Enter Your strings : end exit
Your string is : end exit
count : 2
==================================
|       end   |   Identifier   |
|      exit   |   Identifier   |
==================================
Function    0 :
Operater    0 :
Number      0 :
Identifier  2 : end exit
Errer       0 :
==================================
Press any key to continue . . .
```

```
Enter Your strings : end
Your string is : end
-------------------------------
Process exited after 127.9 seconds with return value 0
Press any key to continue . . . _
```

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