# docoGen markdown support

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Abstract

## 1 Text format demo

None type demo

 $\begin{array}{c} \text{sentence 1} \\ \text{sentence 2} \end{array}$ 

Text type demo

- sentence 1
- ullet sentence 2

# 2 List format demo

list type demo

- 1. list 1
- 2. list 2
  - (a) list 2-1
    - i. list 2-1-1
    - ii. list 2-1-2
  - (b) list 2-2
- 3. list 3
- 4. list 4

## 3 Table format demo

table type demo		
User Name	Age	Job
Kevin	20	Student
Lu	22	Engineer
Eric	31	Programmer

## 4 Formula format demo

```
formula type demo
 A simple equation! x^2 + y^2 = z^2 x^n + y^n = z^n E = mc^2 (1)
```

## 5 Code format demo

code type demo

```
|\#include < stdio.h > \n \min() {\n treturn 0; \n}
```

Listing 1: Simple Demo C program

```
import numpy as np
  def incmatrix(genl1,genl2):
       m = len(genl1)
       n = len(gen12)
       M = None \ \#to \ become \ the incidence \ matrix
       VT = \ np.\ zeros\left(\left(\,n\!*\!m,1\,\right)\,,\ int\,\right) \quad \#dummy\ variable
       #compute the bitwise xor matrix
       M1 = bitxormatrix(genl1)
       M2 = np.triu(bitxormatrix(genl2),1)
12
       for i in range (m-1):
            for j in range (i+1, m):
14
                 [r,c] = np.where(M2 == M1[i,j])
15
                 for k in range(len(r)):
16
                     VT[(i)*n + r[k]] = 1;

VT[(i)*n + c[k]] = 1;
17
                      VT[(j)*n + r[k]] = 1;
19
                      VT[(j)*n + c[k]] = 1;
21
                      if M is None:
```

Listing 2: Simple Demo Python program

# 6 Figure format demo

figure type demo

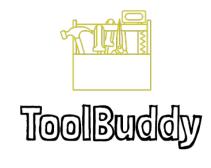


Figure 1: toolbuddy

# 7 Restful API Support

restful-api type demo

### [Online] Register New User

**Description:** Enroll new user to local service

Parameter:

Field Name	Data Type
username	string
username	string

Error Msg: duplicated internal error

Success Msg: passed noped

# 8 Outside Figure + SubArticle Test

Text Default

- ullet sentence 3
- $\bullet$  sentence 4

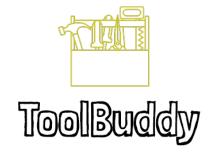


Figure 2: caption of image

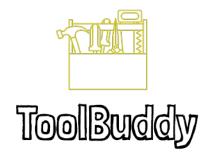


Figure 3: caption of image

### 8.1 Nested

Nested Text

- $\bullet\,$  sentence nested 1
- sentence nested 2

Nested None

sentence nested 3 sentence nested 4

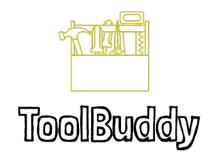


Figure 4: caption of image

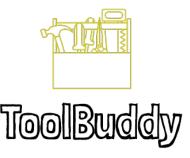


Figure 5: caption of image

#### 8.1.1 Nested Nested

Nested Nested Text

- sentence nested nested 1
- sentence nested nested 2

### 8.1.2 Nested Nested Code Block

#### Code Block

```
/* Prime modulus multiplicative linear congruential generator
     Z[i] = (630360016 * Z[i-1]) (mod(pow(2,31) - 1)), based on Marse
       and Roberts'
     portable FORTRAN random-number generator UNIRAN. Multiple (100)
       streams are
     supported, with seeds spaced 100,000 apart. Throughout, input
      argument
     "stream" must be an int giving the desired stream number. The
      header file
     lcgrand.h must be included in the calling program (#include "
      lcgrand.h")
     before using these functions.
     Usage: (Three functions)
10
     1. To obtain the next U(0,1) random number from stream "stream,"
11
            u = lcgrand(stream);
        where lcgrand is a float function. The float variable u will
13
       contain the
        next random number.
15
```

```
2. To set the seed for stream "stream" to a desired value zset,
16
             lcgrandst(zset, stream);
17
        where lcgrandst is a void function and zset must be a long
18
      set to the
        desired seed, a number between 1 and 2147483646 (inclusive).
19
       Default
        seeds for all 100 streams are given in the code.
20
     3. To get the current (most recently used) integer in the
      sequence being
        generated for stream "stream" into the long variable zget,
      execute
            zget = lcgrandgt(stream);
        where lcgrandgt is a long function. */
25
26
27
  /* Define the constants. */
28
  #define MODLUS 2147483647
  #define MULT1
30
  #define MULT2
                       26143
31
  /* Set the default seeds for all 100 streams. */
33
34
  static long zrng[] =
35
             1.
36
   37
    913566091, \ \ 246780520, 1363774876, \ \ 604901985, 1511192140, 1259851944,
38
    39
40
    762430696\,, 1922803170\,, 1385516923\,, \quad 76271663\,, \quad 413682397\,, \quad 726466604\,, \\
41
    336157058, 1432650381, 1120463904, 595778810, 877722890, 1046574445,
42
     68911991, 2088367019, \ 748545416, \ 622401386, 2122378830, \ 640690903,
43
   44
45
    243649545, 1004818771, \ 773686062, \ 403188473, \ 372279877, 1901633463, \\
46
    498067494\,, 2087759558\,,\  \  \, 493157915\,,\  \  \, 597104727\,, 1530940798\,, 1814496276\,,
47
48
    536444882\,, 1663153658\,, \quad 855503735\,, \quad 67784357\,, 1432404475\,, \quad 619691088\,,
    119025595\,,\ 880802310\,,\ 176192644\,,1116780070\,,\ 277854671\,,1366580350\,,
49
50
   1142483975, 2026948561, 1053920743, 786262391, 1792203830, 1494667770,
   1923011392, 1433700034, 1244184613, 1147297105, \ 539712780, 1545929719,
51
    190641742\,, 1645390429\,, \quad 264907697\,, \quad 620389253\,, 1502074852\,, \quad 927711160\,,
    364849192,2049576050, 638580085, 547070247 };
53
  /* Generate the next random number. */
56
  float lcgrand(int stream)
57
58
      long zi, lowprd, hi31;
59
60
             = zrng[stream];
61
      lowprd = (zi \& 65535) * MULT1;
63
      hi31
             = (zi \gg 16) * MULT1 + (lowprd \gg 16);
             = ((lowprd & 65535) - MODLUS) +
                ((hi31 \& 32767) << 16) + (hi31 >> 15);
65
       if (zi < 0) zi += MODLUS;
66
      lowprd = (zi \& 65535) * MULT2;
```

```
= (zi >> 16) * MULT2 + (lowprd >> 16);
= ((lowprd & 65535) - MODLUS) +
((hi31 & 32767) << 16) + (hi31 >> 15);
68
70
71
        if (zi < 0) zi += MODLUS;
        zrng[stream] = zi;
72
73
        return (zi >> 7 | 1) / 16777216.0;
74
75
76
  void lcgrandst (long zset, int stream) /* Set the current zrng for
                                                        "stream" to zset. */
79
        zrng[stream] = zset;
80
81 }
82
83
  long lcgrandgt (int stream) /* Return the current zrng for stream "
84
       stream". */
85
        return zrng[stream];
86
```

Listing 3: C example

# References

[1] kevin, NCKU student