Quiz 8

COMP9021 Principles of Programming

2016 session 2

Sample outputs

We print out a list (we pass a list as argument to print()). So this list is printed out on one line.

There is no path from the top left corner

\$ python3 quiz_8.py

Enter one integer: 7

Here is the grid that has been generated:

1	0	1	0	0	0	1	0	0	0	
0	1	1	0	0	0	1	0	0	0	
0	1	0	0	0	0	1	1	0	0	
1	0	0	0	1	0	0	0	0	1	
1	1	1	1	1	1	0	0	0	0	
1	1	1	1	1	0	0	1	0	1	
0	1	1	0	0	1	1	1	1	1	
0	0	1	1	0	0	1	1	1	1	
1	0	1	1	0	0	1	0	0	1	
0	Ω	1	1	1	Ω	0	1	1	1	

The leftmost longest path from the top left corner is [(0, 0)])

```
$ python3 quiz_8.py
Enter one integer: 0
```

Here is the grid that has been generated:

The leftmost longest path from the top left corner is [(0, 0), (0, 1), (1, 1)] \$ python3 quiz_8.py

Enter one integer: 9

Here is the grid that has been generated:

```
1
 1
    1
      0
        0 0
             1
                1
                  0
                    1
 1
    0
      1
         1
           0
             0
                0
                  0
                    0
  0 1
      0 1
           0
              0
                1
0
 1
    1 1 0
           0
              0
    0
      0
                0
    0
      0
           0
              1
                0
 0
    0 0 0
           0 0 1 0 1
0 0
    1 0 0
           0
             1 0
                  1 0
 1
    0
                1 0 1
      1
         0
           0
             1
  0
    0 1 1 1 0
                1 1 0
```

The leftmost longest path from the top left corner is [(0, 0), (0, 1), (0, 2)])

```
$ python3 quiz_8.py
```

Enter one integer: 16

Here is the grid that has been generated:

The leftmost longest path from the top left corner is [(0, 0), (0, 1),

$$(0, 2), (0, 3), (0, 4), (1, 4), (1, 5), (2, 5), (3, 5), (3, 4), (4, 4)])$$

\$ python3 quiz_8.py

Enter one integer: 17

Here is the grid that has been generated:

The leftmost longest path from the top left corner is [(0, 0), (0, 1), (1, 1),

$$(1, 2), (0, 2), (0, 3), (1, 3), (2, 3), (2, 4), (3, 4), (4, 4), (5, 4), (6, 4),$$

$$(6, 5), (7, 5), (8, 5), (8, 6), (8, 7), (7, 7), (7, 6), (6, 6), (5, 6), (4, 6),$$

^{(3, 6), (2, 6)])}