QUIZ 5

COMP9021 PRINCIPLES OF PROGRAMMING

For clarifications on expected outputs, see Ed or program stub.

```
$ python3 quiz_8.py
Enter one integer: 1
Here is the grid that has been generated:
    0 0 1 0
              1
                1 1 1 0
           1 0 1 1 0 0
                         1
         0 0 1
                0 1
     1
         1
           0
              0 1
                  1
                     0 1
         0 1 1 0 1 1 1 1
           1
             1 0 1
           1 1 0 1 0 1 1
      0 0 0 0 0 1 1 1 1
           0
              0 1 0 1 1 0
           1 1 0 1 1 0 0
```

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:

		_	0					_			
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	0	1			0	0	1	1	1		

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

Date: Session 2, 2018.

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

Here is the grid that has been generated:

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

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

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

QUIZ 5

```
$ python3 quiz_8.py
Enter one integer: 16
```

Here is the grid that has been generated:

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

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:

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

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)]