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

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
         0
           0
             1
       0
         0
           0
             1
0
         0
           0 1
1
    0 0
         1
           0 0 0 0
1
         1
       1
           1 0
1
  1
    1
       1
         1
           0 0 1 0
                     1
0
  1
    1
      0 0 1 1 1 1
0
 0 1 1 0 0 1 1 1 1
      1 0 0 1 0 0
1
 0
   1
                     1
    1
      1
        1
           0 0 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:

```
1
        1
          1
             1
               1
                 1
0
    0 0
        1
           0 1
                    1
1
      1 1 0 1 1
                    0
  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 0 1 0 1 1 0 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 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
   0
       0
           0
                                   1
1
1
   1
       0
           1
                       0
                           1
                                   1
   0
           0
0
       1
               1
                   0
                       1
                                  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:

- 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)]