## QUIZ 6

```
$ python3 quiz_6.py
Enter three integers: 0 10 0
Here is the grid that has been generated:
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
The longest paths made up of consecutive numbers starting from 0 go up to 0.
There are 100 such paths.
$ python3 quiz_6.py
Enter three integers: 0 6 34
Here is the grid that has been generated:
24 26 2 16 32 31
25 19 30 22 13 32
    8 18 8 6 16 34
    9 19 6 4 21 30
    6 22 27 20 13 30
28 33 16 3 0 5
The longest paths made up of consecutive numbers starting from 0 go up to 0.
There is one such path.
$ python3 quiz_6.py
Enter three integers: 0 4 1
Here is the grid that has been generated:
1 1 0 1
1111
1001
0 0 1 0
The longest paths made up of consecutive numbers starting from 0 go up to 1.
There are 12 such paths.
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\$ python3 quiz_6.py
Enter three integers: 042
Here is the grid that has been generated:
1101
$\begin{array}{llll}2 & 1 & 1\end{array}$
1120
2010
The longest paths made up of consecutive numbers starting from 0 go up to 2 .
There are 4 such paths.
\$ python3 quiz_6.py
Enter three integers: 084
Here is the grid that has been generated:
33024332
32414121
04244120
02340232
41433420
40030432
120014111
43002430
The longest paths made up of consecutive numbers starting from 0 go up to 4.
There are 3 such paths.
\$ python3 quiz_6.py
Enter three integers: 0121
Here is the grid that has been generated:
1100111111111001
001001000111011
100111100001011
010000000110011
$\begin{array}{llllllllllll}0 & 1 & 1 & 0 & 1 & 0 & 1 & 1 & 0 & 1 & 1 & 0\end{array}$
10000011000000
$\begin{array}{llllllllllll}0 & 1 & 1 & 0 & 0 & 1 & 1 & 1 & 1 & 1 & 0 & 1\end{array}$
011100001000101
100000000001
0100000001000
101000011111001
001011100000
The longest paths made up of consecutive numbers starting from 0 go up to 1.
There are 122 such paths.
\$ python3 quiz_6.py
Enter three integers: 0122
Here is the grid that has been generated:
110012111111120
201002122201
0202112001112
202211121002002
122202110212
002000210012
1012212021202
22111021122010
000221100200
002221221200
2212111122210
120122100021
The longest paths made up of consecutive numbers starting from 0 go up to 2 .
There are 53 such paths.
\$ python3 quiz_6.py
Enter three integers: 0123
Here is the grid that has been generated:
330233232112
102120023023
213320003032
122011111300023
022021230321
211111023000110
0321113233202
0321110201212
3000111000000103
02000011003100
302010223103
003122311011
The longest paths made up of consecutive numbers starting from 0 go up to 3 .
There are 12 such paths.
\$ python3 quiz_6.py
Enter three integers: 0124
Here is the grid that has been generated:
330243323241
412104244120
023402324143
342040030432
12201411114300
243024204241
444230432412
111042300110
043424114342
332024034211
020121230011
044400014403
The longest paths made up of consecutive numbers starting from 0 go up to 4.
There is one such path.
\$ python3 quiz_6.py
Enter three integers: 0125
Here is the grid that has been generated:
330243323241
412104245412
050523402324
514334204005
3555543215525
014111430024
302425042414
442304324121
110452300511
005453542411
543423355520
240345211052
The longest paths made up of consecutive numbers starting from 0 go up to 4.
There are 4 such paths.
\$ python3 quiz_6.py
Enter three integers: 0126
Here is the grid that has been generated:
636302433662
324141216046
245641205065
234023245143
364206400563
566550436621
525560144111616
430024302425
042641644423
046324121161
045230056110
605645365424
The longest paths made up of consecutive numbers starting from 0 go up to 2 .
There are 3 such paths.

