Quiz 6

COMP9021 Principles of Programming

2017 session 1

Sample outputs

```
$ python3 quiz_5.py
Enter two integers, the second one being strictly positive: 0 8
Here is the grid that has been generated:
    1 1 0 1 1 1 1 1 1 1
    1 1 1 1 1 1 1 1 1 1
    1 1 1 1 1 1 1 1 1 0
    0 1 1 0 1 1 1 1 1 1
    1 1 1 1 1 1 1 1 1 1
    1 1 1 1 1 1 1 1 1 1
    1 1 1 1 0 1 1 1 1 1
    1 0 1 1 1 1 1 1 1 1
    1 1 1 1 1 1 1 1 1 0
    1 1 1 1 1 1 1 0 1 1

The maximum number of spikes of some shape is equal to 1
$ python3 quiz_5.py
Enter two integers, the second one being strictly positive: 0 7
Here is the grid that has been generated:
    1 1 1 1 0 1 1 1 1 1
    1 1 1 1 1 1 1 1 1 1
    1 0 1 1 1 1 1 1 1 1
    1 0 1 0 1 1 1 1 1 0
    1 1 1 1 1 1 1 1 1 1
    1 1 0 1 1 0 0 1 1 1
    1 1 1 1 1 0 1 1 1 1
    1 1 1 1 1 1 0 1 1 1
    1 1 1 1 1 1 0 0 1 1
    1 0 1 1 1 1 0 1 1 1

The maximum number of spikes of some shape is equal to 3
```

```
$ python3 quiz_5.py
Enter two integers, the second one being strictly positive: 0 2
Here is the grid that has been generated:
    1 1 0 1 1 1 1 1 1 0
    0 1 0 0 1 0 1 0 0 1
    1 0 1 1 1 0 1 1 1 0
    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 maximum number of spikes of some shape is equal to 7
$ python3 quiz_5.py
Enter two integers, the second one being strictly positive: 0 4
Here is the grid that has been generated:
    1 1 0 1 1 1 1 1 1 1
    1 1 1 0 1 1 1 0 0 1
    1 0 1 1 1 1 1 1 1 0
    0 0 1 0 1 1 1 1 0 1
    1 1 1 1 0 0 1 1 0 1
    1 0 1 1 1 1 0 1 1 1
    1 1 1 1 0 1 1 0 0 1
    1 0 0 1 1 1 1 1 1 1
    1 1 0 1 0 1 1 1 1 0
    1 0 1 1 1 1 1 0 0 1

The maximum number of spikes of some shape is equal to 8
```

```
$ python3 quiz_5.py
Enter two integers, the second one being strictly positive: 1 2
Here is the grid that has been generated:
    0 0 1 0 1 1 1 1 0 0
    1 0 1 1 0 1 1 0 0 1
    0 0 0 0 1 0 1 0 0 1
    1 0 1 0 0 1 1 0 1 0
    0 1 0 1 1 0 1 1 1 1
    0 1 0 1 1 0 1 1 0 1
    0 0 1 1 1 0 1 0 1 1
    0 0 0 0 0 0 1 1 1 1
    1 0 1 0 0 1 0 1 1 0
    1 1 1 1 1 0 1 1 0 0

The maximum number of spikes of some shape is equal to 5
$ python3 quiz_5.py
Enter two integers, the second one being strictly positive: 2 2
Here is the grid that has been generated:
    0 0 0 1 0 1 1 0 0 0
    1 1 1 1 1 0 0 1 1 1
    1 1 0 0 0 0 0 0 1 0
    0 1 0 1 1 1 1 1 1 0
    1 1 0 1 1 1 1 1 1 1
    1 1 0 1 0 1 1 1 1 1
    1 0 1 1 0 1 0 0 0 0
    0 1 0 0 0 1 0 0 0 1
    0 0 1 1 0 0 0 0 0 0
    0 0 0 1 1 0 0 0 0 1

The maximum number of spikes of some shape is equal to 4
```