

QUIZ 7

COMP9021 PRINCIPLES OF PROGRAMMING

```
$ python3 quiz_7.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 0 1 1
```

```
The maximum number of spikes of some shape is: 1
```

```
$ python3 quiz_7.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: 3
```

```
$ python3 quiz_7.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: 7
```

\$ python3 quiz_7.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 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: 8

\$ python3 quiz_7.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: 5

\$ python3 quiz_7.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: 4