

## Quiz 3

COMP9021 Principles of Programming

2016 session 2

### Sample outputs

```
$ python3 quiz_3.py
```

Enter two integers, the second one being strictly positive: 0 1

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
0 0 0 0 0 0 0 0 0 0
```

The largest block construction has 0 blocks.

```
$ python3 quiz_3.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 largest block construction has 6 blocks.

```
$ python3 quiz_3.py
```

```
Enter two integers, the second one being strictly positive: 0 3
```

```
Here is the grid that has been generated:
```

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

```
The largest block construction has 14 blocks.
```

```
$ python3 quiz_3.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 1 0 1 1
1 1 1 1 0 1 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 largest block construction has 17 blocks.
```

```
$ python3 quiz_3.py
```

```
Enter two integers, the second one being strictly positive: 0 5
```

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

```
The largest block construction has 33 blocks.
```

```
$ python3 quiz_3.py
```

```
Enter two integers, the second one being strictly positive: 0 6
```

```
Here is the grid that has been generated:
```

<sup>1</sup> 1	<sup>1</sup> 1	1	0	1	1	1	1	1	1
<sup>2</sup> 1	<sup>2</sup> 1	<sup>1</sup> 1	1	1	1	0	1	1	1
<sup>3</sup> 1	<sup>3</sup> 1	<sup>2</sup> 1	1	0	1	0	1	1	1
<sup>4</sup> 1	0	<sup>3</sup> 1	1	1	1	1	1	1	1
<sup>5</sup> 1	<sup>4</sup> 1	1	0	1	0	0	1	1	1
<sup>6</sup> 1	<sup>2</sup> 1	0	1	1	1	1	1	1	1
0	<sup>3</sup> 1	<sup>1</sup> 1	1	1	1	1	1	0	0
<sup>1</sup> 1	<sup>4</sup> 1	<sup>2</sup> 1	0	1	1	1	1	0	1
<sup>2</sup> 1	<sup>5</sup> 1	<sup>3</sup> 1	1	1	1	1	1	0	1
<sup>3</sup> 1	<sup>6</sup> 1	<sup>4</sup> 1	1	1	1	1	1	0	1

```
The largest block construction has 42 blocks.
```