

## QUIZ 6

COMP9021 PRINCIPLES OF PROGRAMMING

```
$ python3 quiz_6.py
```

Enter two integers, the second one being strictly positive: 18 2

Here is the grid that has been generated:

```
-----  
|      * *      * * * |  
| * * * * * * * |  
|      * *      * * * |  
| *      * * * * * * * |  
|      *      * * * * |  
| * * * * * * * |  
|      * *      * * * |  
| * *      * *      * * * |  
| * * * * * * * |  
|      *      * * * * * * |  
-----
```

Here are the centres of the stars of those sizes.

```
-----  
|      * *      * * * |  
| * * * * * * * |  
|      * *      * * * |  
| *      * * * * * * * |  
|      *      * * * * |  
| * * * * * * * |  
|      * *      * * * |  
| * *      * *      * * * |  
| * * * * * * * |  
|      *      * * * * * * |  
-----
```

```
$ python3 quiz_6.py
```

Enter two integers, the second one being strictly positive: 3 2

Here is the grid that has been generated:

```

-----
|      * *      * *      |
| * * *          *        |
|      *      * * * * * * |
| *          *      * * * * |
| * * *      *      *      |
|      * *          * *      |
| *          * * *          * |
| * *          *            |
| * * *          * * * * * |
| * * *      * *      * * * |
-----

```

There is 1 star of size 1.

Here are the centres of the stars of those sizes.

```

-----
|      * *      * *      |
| * * *          *        |
|      *      * * * * * * |
| *          *      * 1 * * |
| * * *      *      *      |
|      * *          * *      |
| *          * * *          * |
| * *          *            |
| * * *          * * * * * |
| * * *      * *      * * * |
-----

```

```
$ python3 quiz_6.py
```

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

Here is the grid that has been generated:

```
-----
| * *   * * * * * * * |
| *   *   *       * * * |
| * *   *   *   * * * |
| *   * * * * *   * * |
| * * *   *       * * * |
| * *   * * *   * * * |
|   *       * *       |
| * * *   * * * *   * |
| * *   * * * * *   * |
| * * *   *       *   |
-----
```

There are 10 stars of size 1.

Here are the centres of the stars of those sizes.

```
-----
| * *   * * * * * * * |
| *   1   1       * 1 * |
| * 1   1   *   * * * |
| *   * * * * *   1 * |
| * * *   1       * * * |
| * *   * * *   * * * |
|   *       1 *       |
| * * *   * * * *   * |
| * 1   1 * * * *   * |
| * * *   *       *   |
-----
```

```
$ python3 quiz_6.py
```

```
Enter two integers, the second one being strictly positive: 0 7
```

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

```

-----
| * * * * * * * * * * |
| * * * * * * * * * * |
| *   * * * * * * * * |
| *   *   * * * * * * |
| * * * * * * * * * * |
| * *   * *   * * * * |
| * * * * *   * * * * |
| * * * * * *   * * * |
| * * * * * *   * * * |
| * * * * * *   * * * |
| *   * * * *   * * * |
| *   * * * *   * * * |
-----

```

```
There are 20 stars of size 1.
```

```
There are 5 stars of size 2.
```

```
There are 2 stars of size 3.
```

```
Here are the centres of the stars of those sizes.
```

```

-----
| * * * * * * * * * * |
| * 1 * * 1 * 1 1 1 * |
| *   * 2 * 2 1 2 * * |
| *   *   1 3 3 1 1   |
| * * * * * * * * * * |
| * 1   1 *   1 1 *   |
| * * 2 * *   * * 1 * |
| * 1 2 1 * *   * * * |
| * 1 * 1 1 *   1 *   |
| *   * * * *   * * * |
-----

```