Quiz 3

COMP9021 Principles of Programming

2017 session 2

Sample outputs

```
$ python quiz_3.py
Enter three nonnegative integers: 0 1 2
Here is the grid that has been generated:
    1 1
    0 1
$ python quiz_3.py
Enter three nonnegative integers: 0 1 3
Here is the grid that has been generated:
    1 1 0
    1 1 1
    1 1 1

For steps of size 2, we have:
     2 stairs with 1 step
$ python quiz_3.py
Enter three nonnegative integers: 0 3 9
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

For steps of size 2, we have:
     5 stairs with 1 step
     1 stair with 2 steps
     1 stair with 3 steps
     1 stair with 4 steps

For steps of size 3, we have:
     4 stairs with 1 step
```

```
$ python quiz_3.py
Enter three nonnegative integers: 0 3 7
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

For steps of size 2, we have:
     2 stairs with 1 step
     2 stairs with 2 steps

For steps of size 3, we have:
     1 stair with 2 steps
$ python quiz_3.py
Enter three nonnegative integers: 0 4 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
    0 1 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

For steps of size 2, we have:
     7 stairs with 1 step
     3 stairs with 2 steps
     2 stairs with 3 steps

For steps of size 3, we have:
     2 stairs with 1 step
     1 stair with 2 steps
```

```
$ python quiz_3.py
Enter three nonnegative integers: 0 5 9
Here is the grid that has been generated:
    1 1 0 1 1 1 1 1 1
    1 1 1 1 1 1 1 0 1
    1 1 1 1 1 1 0 1 0
    1 1 1 1 0 1 1 1 1
    1 1 1 1 1 1 1 0 1
    0 0 1 1 1 1 1 0 1
    1 1 1 1 1 1 0 1 1
    1 1 1 1 1 0 0 1 1
    1 0 1 1 1 1 0 1 1

For steps of size 2, we have:
     4 stairs with 1 step
     5 stairs with 2 steps
     1 stair with 3 steps
     2 stairs with 4 steps

For steps of size 3, we have:
     9 stairs with 1 step

For steps of size 4, we have:
     2 stairs with 1 step
```