## 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

```
1, j = 1, 1
          $ python quiz_3.py
         Enter three nonnegative integers: 0 3 7
         Here is the grid that has been generated:
                               Size 2 large (6-size x2)
      1 1 1 1 1 1 0
2 1 1 1 0 0 1 1
                               Size3 large 16-Sz
                             not in used
           4 1 0 0 0 1 0 1
           5 1 1 1 0 1 1 1
           1100110
         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
                                                      j in rarge (j
(j+1),j+sz)
              0 1 1 1 1 1 1 0
              0 1 1 1 0 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
```

For steps of size 4, we have: 1 stair with 1 step

```
$ 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 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 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