

QUIZ 6

COMP9021 PRINCIPLES OF PROGRAMMING

```
$ python3 quiz_6.py
```

```
Enter three positive integers: 0 1 2
```

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

```
1 1
```

```
0 1
```

```
$ python3 quiz_6.py
```

```
Enter three positive 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
```

```
$ python3 quiz_6.py
```

```
Enter three positive 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
```

```
$ python3 quiz_6.py
```

```
Enter three positive 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
```

```
$ python3 quiz_6.py
```

```
Enter three positive 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
```

```
For steps of size 4, we have:
```

```
1 stair with 1 step
```

```
$ python3 quiz_6.py
```

```
Enter three positive 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
```