

## Quiz 5

COMP9021 Principles of Programming

2017 session 2

### Sample outputs

```
$ python3 quiz_5.py
Enter four nonnegative integers: 0 1 4 4
Here is the grid that has been generated:
  1 1 0 1
  1 1 1 1
  1 0 0 1
  0 0 1 0
```

The number of paths from 1 to 1 is: 10

```
$ python3 quiz_5.py
Enter four nonnegative integers: 0 2 4 4
Here is the grid that has been generated:
  1 1 0 1
  2 1 1 1
  1 1 2 0
  2 0 1 0
```

The number of paths from 1 to 1 is: 3

The number of paths from 1 to 2 is: 7

```
$ python3 quiz_5.py
Enter four nonnegative integers: 0 3 4 6
Here is the grid that has been generated:
  3 3 0 2 3 3
  2 3 2 1 1 2
  1 0 2 1 2 0
  0 2 3 0 2 3
```

The number of paths from 1 to 2 is: 2

The number of paths from 1 to 3 is: 6

```

$ python3 quiz_5.py
Enter four nonnegative integers: 0 4 5 8
Here is the grid that has been generated:
  3 3 0 2 4 3 3 2
  3 2 4 1 4 1 2 1
  0 4 2 4 4 1 2 0
  0 2 3 4 0 2 3 2
  4 1 4 3 3 4 2 0

```

The number of paths from 1 to 2 is: 1

The number of paths from 1 to 3 is: 5

The number of paths from 1 to 4 is: 2

```
$ python3 quiz_5.py
```

```

Enter four nonnegative integers: 0 4 6 6
Here is the grid that has been generated:

```

```

  3 3 0 2 4 3
  3 2 3 2 4 1
  4 1 2 1 0 4
  2 4 4 1 2 0
  0 2 3 4 0 2
  3 2 4 1 4 3

```

The number of paths from 1 to 1 is: 2

The number of paths from 1 to 2 is: 1

The number of paths from 1 to 3 is: 5

The number of paths from 1 to 4 is: 1