

## QUIZ 7

### COMP9021 PRINCIPLES OF PROGRAMMING

```
$ python3 quiz_7.py
Enter four integers: 0 2 2 8
Here is the grid that has been generated:
  1 1 0 1 1 1 1 1
  1 0 0 1 0 0 1 0
Enter four integers: 3 0 4 1
Will compute the number of good paths from (3, 0) to (4, 1)...
There is no good path.
$ python3 quiz_7.py
Enter four integers: 0 2 5 5
Here is the grid that has been generated:
  1 1 0 1 1
  1 1 1 1 0
  0 1 0 0 1
  0 1 0 0 1
  1 0 1 1 1
Enter four integers: 0 0 4 4
Will compute the number of good paths from (0, 0) to (4, 4)...
There is no good path.
$ python3 quiz_7.py
Enter four integers: 0 100 1 10
Here is the grid that has been generated:
  1 1 1 1 1 1 1 1 1 1
Enter four integers: 2 0 4 0
Will compute the number of good paths from (2, 0) to (4, 0)...
There is a unique good path.
$ python3 quiz_7.py
Enter four integers: 0 100 1 10
Here is the grid that has been generated:
  1 1 1 1 1 1 1 1 1 1
Enter four integers: 2 0 5 0
Will compute the number of good paths from (2, 0) to (5, 0)...
There is no good path.
$ python3 quiz_7.py
Enter four integers: 0 3 3 4
Here is the grid that has been generated:
  1 1 0 1
  1 1 1 1
  1 1 1 0
Enter four integers: 1 0 2 1
Will compute the number of good paths from (1, 0) to (2, 1)...
There are 7 good paths.
```

```
$ python3 quiz_7.py
```

```
Enter four integers: 0 3 3 4
```

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

```
1 1 0 1
1 1 1 1
1 1 1 0
```

```
Enter four integers: 1 0 3 1
```

```
Will compute the number of good paths from (1, 0) to (3, 1)...
```

```
There are 6 good paths.
```

```
$ python3 quiz_7.py
```

```
Enter four integers: 0 4 6 5
```

```
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
```

```
Enter four integers: 0 0 3 5
```

```
Will compute the number of good paths from (0, 0) to (3, 5)...
```

```
There are 5 good paths.
```

```
$ python3 quiz_7.py
```

```
Enter four integers: 0 6 12 4
```

```
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
```

```
Enter four integers: 1 0 2 10
```

```
Will compute the number of good paths from (1, 0) to (2, 10)...
```

```
There are 3979 good paths.
```