

QUIZ 5

COMP9021 PRINCIPLES OF PROGRAMMING

```
$ python3 quiz_5.py
```

```
Enter two integers, the second one being strictly positive: 0 1
```

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

```
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
```

```
There is no parallelogram with horizontal sides.
```

```
$ python3 quiz_5.py
```

```
Enter two integers, the second one being strictly positive: 0 2
```

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

```
The largest parallelogram with horizontal sides has a size of 4.
```

```
$ python3 quiz_5.py
```

```
Enter two integers, the second one being strictly positive: 0 3
```

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

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

```
The largest parallelogram with horizontal sides has a size of 12.
```

```
$ python3 quiz_5.py
```

```
Enter two integers, the second one being strictly positive: 0 4
```

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

```

1 1 0 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 1 0 1 0 1 1 1 1 0
1 0 1 1 1 1 1 0 0 1

```

```
The largest parallelogram with horizontal sides has a size of 12.
```

```
$ python3 quiz_5.py
```

```
Enter two integers, the second one being strictly positive: 1 4
```

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

```

1 0 1 0 1 1 1 1 1 0
1 0 1 1 0 1 1 1 0 1
0 0 0 0 1 1 1 0 1 1
1 1 1 1 1 1 1 0 1 0
1 1 0 1 1 1 1 1 1 1
0 1 1 1 1 1 1 1 0 1
0 1 1 1 1 0 1 0 1 1
1 1 1 0 1 1 1 1 1 1
1 0 1 1 1 1 0 1 1 1
1 1 1 1 1 0 1 1 0 1

```

```
The largest parallelogram with horizontal sides has a size of 16.
```

```
$ python3 quiz_5.py
```

```
Enter two integers, the second one being strictly positive: 0 5
```

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

```

```
The largest parallelogram with horizontal sides has a size of 15.
```