

QUIZ 7

COMP9021 PRINCIPLES OF PROGRAMMING

```
$ python3 quiz_7.py
```

```
Enter two positive integers: 0 0
```

```
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
```

The size of the largest homogenous region from the top left corner is 100.

The size of the largest area with a checkers structure is 1.

```
$ python3 quiz_7.py
```

```
Enter two positive integers: 0 20
```

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

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

The size of the largest homogenous region from the top left corner is 98.

The size of the largest area with a checkers structure is 5.

```
$ python3 quiz_7.py
```

```
Enter two positive integers: 0 12
```

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

```

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

```

```
The size of the largest homogenous region from the top left corner is 96.
```

```
The size of the largest area with a checkers structure is 7.
```

```
$ python3 quiz_7.py
```

```
Enter two positive integers: 0 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 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 size of the largest homogenous region from the top left corner is 71.
```

```
The size of the largest area with a checkers structure is 11.
```

```
$ python3 quiz_7.py
```

```
Enter two positive integers: 0 1
```

```
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 size of the largest homogenous region from the top left corner is 3.
```

```
The size of the largest area with a checkers structure is 38.
```

```
$ python3 quiz_7.py
```

```
Enter two positive integers: 0 2
```

```
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 size of the largest homogenous region from the top left corner is 22.
```

```
The size of the largest area with a checkers structure is 27.
```