

QUIZ 5

COMP9021 PRINCIPLES OF PROGRAMMING

For clarifications on expected outputs, see Ed or program stub.

```
$ python3 quiz_5.py
Enter 2 integers, the second one being nonnegative: 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_5.py
Enter 2 integers, the second one being nonnegative: 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 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_5.py
```

```
Enter 2 integers, the second one being nonnegative: 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 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

```

```
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_5.py
```

```
Enter two nonnegative 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_5.py
```

```
Enter two nonnegative 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_5.py
```

```
Enter two nonnegative 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.
```