Quiz 5

COMP9021 Principles of Programming

2016 session 2

Sample outputs

```
$ python3 quiz_5.py
Enter two integers: 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

No chess knight has explored this board.
$ python3 quiz_5.py
Enter two integers: 0 -20
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 1 0 0 1 0 0 0 0 0
     0 0 0 0 0 0 0 0 0 0
     0 0 0 0 0 0 0 0 0 0
     0 0 0 0 0 0 0 0 0 0
     0 0 0 0 0 0 0 0 0 0
     0 0 0 0 0 0 0 0 0 0

At least 2 chess knights have explored this board.
```

```
$ python3 quiz_5.py
Enter two integers: 0 -6
Here is the grid that has been generated:
     0 0 1 0 0 0 0 0 0 0
     0 0 0 0 0 0 1 0 0 0
     0 0 0 0 1 0 1 0 0 0
     0 1 0 0 0 0 0 0 0 0
     0 0 0 1 0 1 1 0 0 0
     0 0 1 0 0 0 0 0 0 0
     1 0 0 0 0 0 0 0 1 1
     0 0 0 1 0 0 0 0 1 0
     0 0 0 0 0 0 0 0 1 0
     0 0 0 0 0 0 0 0 1 0

At least 7 chess knights have explored this board.
$ python3 quiz_5.py
Enter two integers: 0 -5
Here is the grid that has been generated:
     0 0 1 0 0 0 0 0 0 0
     0 0 0 0 0 0 1 0 0 0
     0 0 0 1 1 0 0 0 1 0
     0 0 0 0 0 0 0 0 0 1
     0 1 1 0 1 0 0 0 0 0
     1 0 0 0 0 0 0 0 1 1
     0 0 0 1 0 0 0 1 0 0
     0 0 0 0 0 0 0 0 1 0 0
     0 0 0 0 0 0 0 0 1 0 0
     0 1 1 0 0 1 1 0 0 0

At least 8 chess knights have explored this board.
```

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

At least 6 chess knights have explored this board.
$ python3 quiz_5.py
Enter two integers: 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

At least 3 chess knights have explored this board.
```