

Quiz 6

COMP9021 Principles of Programming

2014 session 1

Sample outputs

```
$ a.out 1 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
```

No chess knight has explored this board.

```
$ a.out -20 0
```

Here is the grid that has been generated:

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

At least 3 chess knights have explored this board.

```
$ a.out -10 0
```

Here is the grid that has been generated:

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

At least 7 chess knights have explored this board.

```
$ a.out -5 0
```

Here is the grid that has been generated:

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

At least 9 chess knights have explored this board.

```
$ a.out 2 0
```

Here is the grid that has been generated:

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

At least 3 chess knights have explored this board.

```
$ a.out 4 0
```

Here is the grid that has been generated:

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

At least 1 chess knight has explored this board.