QUIZ 2

COMP9021 PRINCIPLES OF PROGRAMMING

SAMPLE OUTPUTS

```
$ python3
>>> from quiz_2 import *
>>> encode(0, 0)
>>> encode(1, 0)
>>> encode(1, 1)
>>> encode(0, 1)
>>> encode(-1, 1)
>>> encode(-1, 0)
>>> encode(-1, -1)
>>> encode(0, -1)
>>> encode(1, -1)
>>> encode(2, -1)
>>> encode(2, 0)
10
>>> encode(2, 1)
11
>>> encode(2, 2)
12
>>> encode(1, 2)
13
>>> encode(0, 2)
14
>>> encode(4, -2)
50
```

- >>> decode(0)
- (0, 0)
- >>> decode(1)
- (1, 0)
- >>> decode(2)
- (1, 1)
- >>> decode(3)
- (0, 1)
- >>> decode(4)
- (-1, 1)
- >>> decode(5)
- (-1, 0)
- >>> decode(6)
- (-1, -1)
- >>> decode(7)
- (0, -1)
- >>> decode(8)
- (1, -1)
- >>> decode(9)
- (2, -1)
- >>> encode(10)
- (2, 0)
- >>> encode(11)
- (2, 1)
- >>> encode(12)
- (2, 2)
- >>> encode(13)
- (1, 2)
- >>> encode(14)
- (0, 2)
- >>> decode(50)
- (4, -2)