Coordinate snail

- Time limit: 1 second

- Memory limit: 64 MB

The figure below shows a coordinate snail. Each coordinate snail with size n It starts from number one in the center of the coordinates and travels according to the image below.
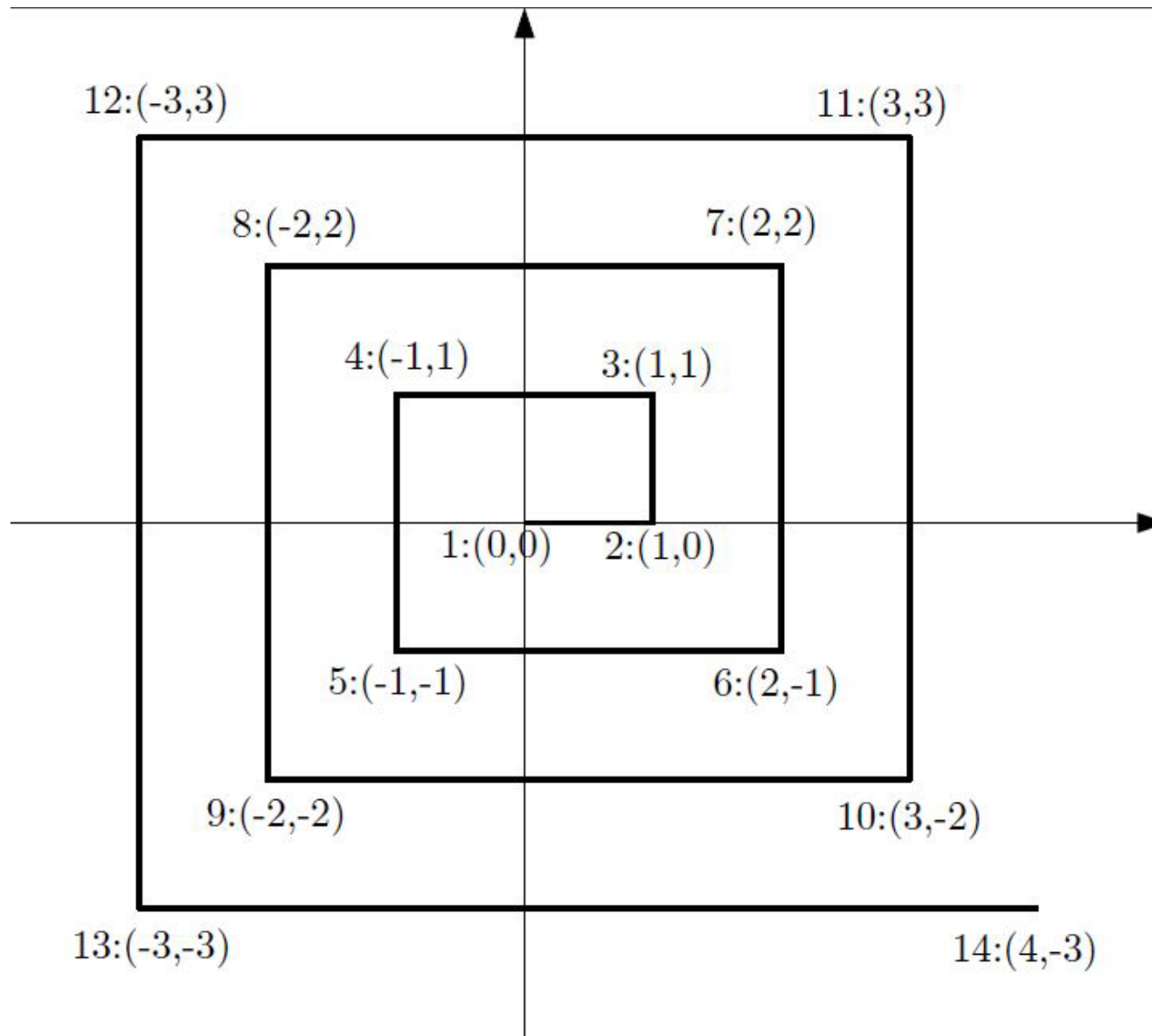
12:(-3,3)　　　　　　　　　11:(3,3)

8:(-2,2)　　　　　　7:(2,2)

4:(-1,1)　　　3:(1,1)

1:(0,0)　　2:(1,0)

5:(-1,-1)　　　　　6:(2,-1)

9:(-2,-2)　　　　　　　10:(3,-2)

13:(-3,-3)　　　　　　　　14:(4,-3)

We want to write a program that the number *n* receive from the user and then deliver the coordinates

of that point to the user.

Input

In a number line n will be given to you.

$$1 \le n \le 10^6$$

Output

Print the coordinates separated by spaces in a single output line.

Example

Sample input

```
14
```

Sample output

```
4 -3
```

Explanation:

Number one is placed at the origin of coordinates, number two is placed at point `(1 0)`, and number

Number one is placed at the origin of coordinates, number two is placed at point `(1,0)`, and number three is placed at point `(1,1)`, and so on until finally, point 14 is `(3-,4)` placed at

POST AN ANSWER TO THIS QUESTION

.The training period is over