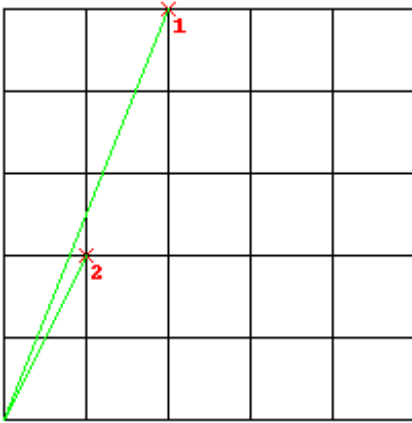


# Grid points

There's a Cartesian lattice with  $0 \leq x, y \leq n$ . Given one point  $(x_1, y_1 > 0)$  in this lattice rotating clockwise as little as possible around the origin find the next point  $(x_2, y_2)$ . The given and searched points mustn't have another point between the origin  $(0, 0)$  and this point itself.  $x_1, y_1, x_2, y_2$  are non-negative integers.



Score is source length.

## Input

In the first line the number  $T$  ( $T < 100$ ) of test cases.  
Then  $T$  lines with the space-separated  $n$  ( $1 \leq n \leq 50$ ),  $x_1$  and  $y_1$ .

## Output

For each test case the space-separated  $x_2$  and  $y_2$ .

## Example

**Input:**

```
3
1 1 1
5 3 2
50 48 49
```

**Output:**

```
1 0
5 3
49 50
```