Degree of Dirtiness

Problem Statement

There are N toilets in a row indexed from 1 to N. At a time, 2 people enter the washroom. The **degree of dirtiness** of each toilet is 0 initially and it increases by 1 after it is used each time. The 1^{st} person occupies the 1^{st} toilet with the lowest degree of dirtiness moving from 1 to N. The 2^{nd} person occupies the toilet with the lowest degree of dirtiness moving from N to 1. The next two people enter the toilet when the first two people have left. Find the index of toilet and degree of dirtiness for the M^{th} person.

Note In case M is odd, the last person walks into the washroom alone and occupies the least dirty toilet moving from 1 to N.

Input Format
The first line contains T, the number of test cases. Each test case consists of one line containing N, the number of toliets, and M, the person to enter the toilet, seperated by space.

Output Format
The index of the toilet used by M and its degree of dirtiness D.

Constraints
$1 \leq T \leq 10$
$1 \leq N \leq 50000$
$1 \leq M \leq 10^6$

Sample Input

```
3
10 3
5 8
4 26
```

Sample Output

```
2 0
4 1
4 6
```

Explanation

In the second test case,
for the first two persons, positions are 1 _ _ _ 2, degree of dirtiness 0 0 0 0 0 (dirtiness is 0 since they are the first to use it)
for person 3 and 4, positions are _ 3 _ 4 _ , degree of dirtiness 1 0 0 0 1
for 5 and 6, positions are _ _ 5 _ 6, degree of dirtiness 1 1 0 1 1
for 7 and 8, positions are 7 _ _ 8 _, degree of dirtiness 1 1 1 1 2 so the answer is 4,1