King of Fighters (KOF) is one of my favorite fighting games. So when I tried to make my own fighting games (though I never actually started...), I took sometime investigating how the KOF system works.

After sometime, I came up with the following simple model:

- At any time, each person can be in one of its designed states (e.g. standing, running, jumping, punching etc).
- Each state has a set of frames.
- Each frame is an image (frame of animation) plus two areas: attacking area and weak area. Note that both areas can be composed of several disjoint regions.
- Taking into account both characters' positions, if one character's attacking area overlaps (with non-zero intersection area) with his opponent's weak area, the opponent gets hit.
- It's possible that both characters get hit at the same time.


Athena in KOF97
For simplicity, both attacking areas and weak areas are approximated by union of rectangles. The rectangles might be intersecting. Only their union represents the attacking areas and weak areas.

Your task is to decide, given the positions of these areas, who is getting hit.

## Input

The first line contains the number of test cases $T(T \leq 100)$. Each test case contains two parts in the same format, describing the first character, then the second one. The first line of each part contains two integers $a$ and $w(0 \leq a, w \leq 5)$, the number of rectangles in the attacking area and weak area, respectively. Each of the $a$ lines contains four non-negative integers $x_{1}, y_{1}, x_{2}, y_{2}\left(0 \leq x_{1}<x_{2} \leq 100\right.$, $0 \leq y_{1}<y_{2} \leq 100$ ), that means the set of points $(x, y)$ satisfying $x_{1} \leq x \leq x_{2}, y_{1} \leq y \leq y_{2}$ is in the attacking area. The next $w$ lines describe the weak area in the same format.

## Output

For each test case, print 'First' if only the first character is hit, 'Second' if only the second character is hit, 'Both' if both are hit, 'Neither' if neither is hit.

## Sample Input

3
11
253
024
01
464
31
224
024
254
0144
35
4055
224
1023
0214
2354
2143
0054
0113
00
51
0243
2133
1455
0335
0045
1145

## Sample Output

Case 1: Second
Case 2: Both
Case 3: Neither

