Gunnar and Emma play a lot of board games at home, so they own many dice that are not normal 6-sided dice. For example they own a die that has 10 sides with numbers 47, 48, \ldots, 56 on it.

There has been a big storm in Stockholm, so Gunnar and Emma have been stuck at home without electricity for a couple of hours. They have finished playing all the games they have, so they came up with a new one. Each player has 2 dice which he or she rolls. The player with a bigger sum wins. If both sums are the same, the game ends in a tie.

**Task**

Given the description of Gunnar’s and Emma’s dice, which player has higher chances of winning?

All of their dice have the following property: each die contains numbers \(a, a + 1, \ldots, b\), where \(a\) and \(b\) are the lowest and highest numbers respectively on the die. Each number appears exactly on one side, so the die has \(b - a + 1\) sides.

**Input**

The first line contains four integers \(a_1, b_1, a_2, b_2\) that describe Gunnar’s dice. Die number \(i\) contains numbers \(a_i, a_i + 1, \ldots, b_i\) on its sides. You may assume that \(1 \leq a_i \leq b_i \leq 100\). You can further assume that each die has at least four sides, so \(a_i + 3 \leq b_i\).

The second line contains the description of Emma’s dice in the same format.

**Output**

Output the name of the player that has higher probability of winning. Output "Tie" if both players have same probability of winning.

**Sample Input 1**

```
1 4 1 4
1 6 1 6
```

**Sample Output 1**

```
Emma
```

**Sample Input 2**

```
1 8 1 8
1 10 2 5
```

**Sample Output 2**

```
Tie
```

**Sample Input 3**

```
2 5 2 7
1 5 2 5
```

**Sample Output 3**

```
Gunnar
```