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☆ Find the Winner!

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Andrea and Maria each have an array of n integers, $andrea = [a_0, a_1, ..., a_{n-1}]$ and $maria = [m_0, m_1, ..., m_{n-1}]$, respectively. They decide to play the following game:

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Even game.

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• $2 \le n \le 10^5$

Constraints

• $1 \le a_i, m_i \le 10^3$, where $0 \le i < n$

• At the beginning of the game, they decide if it's going to be an **Odd** game or an

- During each move:
 - 1. They choose an array index, i (where $0 \le i < n$), that satisfies both of the following conditions:
 - Index i was not chosen during any prior move.
 - For **Even** games, index *i* must be an even number; for **Odd** games, it must be odd.
 - 2. Andrea earns $a_i m_i$ points.
 - 3. Maria earns $m_i a_i$ points.
- Once all the indices have been chosen, the game ends and whoever has the most points wins.

Complete the winner function in the editor. It has the following parameters:

Name	Туре	Description
andrea	integer array	An array of n integers denoting Andrea's array.
maria	integer array	An array of n integers denoting Maria's array.
S	string	The string Odd if the game is odd, or Even if the game is even.

The function must return a string denoting the outcome of the game. Return **Andrea** if Andrea won, or return **Maria** if Maria won; if their scores are tied, return **Tie** instead.

Input Format

The first line contains an integer, n, denoting the number of elements in *andrea*. Each line i of the n subsequent lines (where $0 \le i < n$) contains an integer describing a_i . The next line contains an integer, n, denoting the number of elements in *maria*. Each line i of the n subsequent lines (where $0 \le i < n$) contains an integer describing m_i . The next line contains string s.

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Return a string denoting the outcome of the game. Return **Andrea** if Andrea won, or return **Maria** if Maria won; if their scores are tied, return **Tie** instead.

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Sample Input 0

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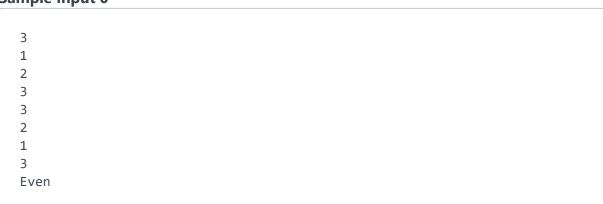
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Sample Output 0

Maria

Explanation 0

In this game, andrea = [1, 2, 3] and maria = [2, 1, 3]. Because s = Even, the only indices we can choose during moves are in the set $\{0, 2\}$. The game proceeds like so:

- When i = 0, Andrea gets $a_0 m_0 = 1 2 = -1$ point and Maria gets $m_0 a_0 = 2 1$ = 1 point.
- When i = 2, Andrea gets $a_2 m_2 = 3 3 = 0$ points and Maria gets $m_2 a_2 = 3 3 = 0$ points.

When we sum the total number of points earned by both players, Andrea has -1 + 0 = -1 point and Maria has 1 + 0 = 1 point. Because Maria has the most points, we return Maria as the winner.

Sample Input 1

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1
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Odd

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Andrea

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Explanation 1

In this game, andrea = [1, 2, 3] and maria = [2, 1, 3]. Because s = Odd, the only indices we can choose during moves are in the set $\{1\}$. The game proceeds like so:

• When i = 1, Andrea gets $a_1 - m_1 = 2 - 1 = 1$ point and Maria gets $m_1 - a_1 = 1 - 2 = -1$ point.

When we sum the total number of points earned by both players, Andrea has 1 point and Maria has -1 point. Because Andrea has the most points, we return **Andrea** as the winner.

YOUR ANSWER

We recommend you take a quick tour of our editor before you proceed. The timer will pause up to 90 seconds for the tour.

Start tour

```
Original code
                                      Java 7
                                                                      Ö
 1 ▶ import ↔;
 6
 7
    public class Solution {
 8
 9 ▼ /*
10
     * Complete the function below.
11
12
        static String winner(int[] andrea, int[] maria, String s) {
13 ▼
14
15
16
        }
17
18
19 ▶
        public static void main(String[] args) throws IOException{↔
```



① 01h:15m:39s to test end

 \equiv Run Code Submit code & Continue (You can submit any number of times) Test against custom input **▲** Download sample test cases The input/output files have Unix line endings. Do not use Notepad to edit them on windows. About Privacy Policy Terms of Service