Problem D. Streak

Time limit	1000 ms
Code length Limit	50000 B
OS	Linux

CodeChef offers a feature called *streak count*. A streak is maintained if you solve **at least one** problem daily.

Om and Addy actively maintain their streaks on CodeChef. Over a span of N consecutive days, you have observed the count of problems solved by each of them.

Your task is to determine the **maximum** streak achieved by Om and Addy and find who had the longer maximum streak.

Input Format

- The first line of input will contain a single integer T, denoting the number of test cases.
- Each test case consists of multiple lines of input.
  - The first line of each test case contains an integer N — the number of days.
  - The second line of each test case contains N space-separated integers, the i^{th} of which is A_i, representing the problems solved by Om on the i^{th} day.
  - The third line of each test case contains N space-separated integers, the i^{th} of which is B_i, representing the problems solved by Addy on the i^{th} day.

Output Format

For each test case, output:

- `OM` , if Om has longer maximum streak than Addy;
- `ADDY` , if Addy has longer maximum streak than Om;
- `DRAW` , if both have equal maximum streak.

You may print each character in uppercase or lowercase. For example, `OM` , `om` , `Om` , and `oM` , are all considered the same.

Constraints

- $1 \leq T \leq 10^5$
- $1 \leq N \leq 10^5$
- $0 \leq A_i, B_i \leq 10^9$
- The sum of N over all test cases won't exceed $6 \cdot 10^5$.

Sample 1

Input	Output
3 6 1 7 3 0 2 13 0 2 3 4 5 0 3 1 3 4 3 1 2 5 1 2 3 0 1 1 2 0 2 3	Addy Draw Om

Test case 1: Om has a maximum streak of 3 days, while Addy has a maximum streak of 4 days.

Test case 2: Both have the same maximum streak of 3 days.

Test case 3: Addy has a maximum streak of 2 days and Om has a maximum streak of 3 days.