



EASY GAME

After a hard week of work, Jerry can finally chill out. While Jerry is thinking about what to do at the weekend, Thomas calls him. Thomas is a rich kid and he has a large number of coins. He wants to ask Jerry if Jerry can participate in his following game:

- There are N piles of coins, the number of coins of a pile is p_i ($1 \leq i \leq N$).
- Thomas always plays first. He and Jerry move in alternating turns. During each turn, the current player performs either of the following two moves:
 - + Choose one pile and remove k ($k > 0$) coins from it.
 - + Remove k coins from all N piles, where $1 \leq k \leq \min(p_1, p_2, p_3, \dots, p_N)$. This move becomes unavailable if any pile is empty.
- Player who make the last turn will be the winner. If Jerry wins, he can have all the coins which Thomas used in the game (Thomas is a rich kid, he doesn't mind if he loses all the coins, he just wants a friend to play with). Thomas and Jerry play T games. Given the values of piles for each game, your job is to print the name of the winner (Thomas or Jerry).

Input

The first line of the input contains an integer T ($1 \leq T \leq 15$) - the number of games. The description of T games follows.

- The first line of each test case contains a prime integer N ($2 \leq N \leq 30$) - the number of piles.
- The second line of each test case contains N space-separated integers $p_1, p_2, p_3, \dots, p_N$ ($1 \leq p_i \leq 100000$).

Output

For each test case, print a single line containing the name of the winner (Thomas or Jerry)

Examples

Standard Input	Standard Output
2	Jerry
2	Thomas
1 2	
3	
2 2 3	