

AGI

Input file: standard input
Output file: standard output
Time limit: 1 second
Memory limit: 1024 megabytes

Dr. Menji is an expert in AI. Now, he is training Bot, an AGI(Artificial Game Intelligence).

To teach Bot how to play games, he plays with Bot every day. Today they are playing the following game:

The game starts with a sequence of $2n$ non-negative integers, a_1, a_2, \dots, a_{2n} , and a number S . Initially, $S = 0$.

Menji and Bot take turns; Menji goes first:

- In Menji's turn, he chooses a number x from the sequence, sets $S \leftarrow S \oplus x$, and deletes x from the sequence. Note that \oplus is the bitwise XOR(exclusive or) function.
- In Bot's turn, he chooses a number x from the sequence and deletes x from the sequence.

The game ends when no numbers remain in the sequence. Menji wins if and only if $S = 0$ in the end; otherwise, Bot wins.

Menji wonders if both players play optimally, who is the winner of the game.

Input

The input contains multiple testcases. The first line contains an integer T ($1 \leq T \leq 10^5$), the number of testcases.

For each testcase, the first line contains an integer n ($1 \leq n \leq 10^5$), described in the statement.

The second line contains $2n$ integers a_1, a_2, \dots, a_{2n} ($0 \leq a_i < 2^{30}$), representing integers in the game.

It's guaranteed that the sum of n over all testcases does not exceed 2×10^5 .

Output

For each testcase, if Menji can win the game, print **Menji** in one line; otherwise, print **Bot** in one line.

Example

standard input	standard output
5	Bot
2	Menji
1 1 3 3	Menji
2	Menji
1 1 1 3	Bot
3	
1 1 4 5 1 4	
3	
1 9 1 9 8 10	
6	
1 1 4 5 1 4 1 9 1 9 8 10	

Note

For the first testcase, no matter what number Menji chooses, Bot can always choose a same number, so Menji always chooses an 1 and a 3, $S = 1 \oplus 3 = 2 \neq 0$, so Bot can always win.

For the second testcase, Menji can choose an 1 in the first turn; no matter what Bot chooses, Menji can choose another 1, so Menji always receives two 1s, $S = 1 \oplus 1 = 0$, so Menji can always win.