Problem G. Zenyk, Marichka and Interesting Game

Input file:	*standard input*
Output file:	*standard output*
Time limit:	1 second
Memory limit:	256 mebibytes

As you may know Zenyk and Marichka are together for years. They will live forever in our hearts. And problem statements.

But they are bored of such casual life. So they decide to play an interesting game. Zenyk and Marichka have N piles of stones. i-th pile contains X_i stones. Zenyk and Marichka take turns alternately. Zenyk moves first. Zenyk takes exactly A stones from any pile in one move (of course, this pile should contain at least A stones). Marichka takes exactly B stones from any pile.

Player who cannot make a move, that means that any pile contains enough stones, loses the game.

Marichka is interested who will win if both players play optimally.

Input

The first line contains 3 integers N, A, B. ($1 \le N \le 10^5$, $1 \le A, B \le 10^9$).

The second line contains N integers X_i ($1 \le X_i \le 10^9$).

Output

Print "`Zenyk`", if Zenyk will win and "`Marichka`", otherwise.

Example

standard input	standard output
4 4 7 7 2 14 7	Marichka