# Problem H. Game with the Stones

| | |
|---|---|
| Input file: | `stdin` |
| Output file: | `stdout` |
| Time limit: | 2 seconds |
| Memory limit: | 256 megabytes |

Constantine and Mike like to sort things out with the help of strange games. This time they play the following game: $n$ stone piles, $i$-th of which contains $a_i$ stones, lie on the table. Players move in rotation. Each player in his turn splits each pile that contains two or more stones into two non-empty parts. If before player's turn each pile contains exactly one stone, this player loses.

Constantine moves first. Determine who will win if both players play optimally.

## Input

The first line contains the only integer $n$ ($1 \le n \le 100$) — number of stone piles on the table.

The second line contains $n$ space-separated integers $a_1, \ldots, a_n$ ($1 \le a_i \le 10^9$) — numbers of stones in the piles.

## Output

Write «`Constantine`» (without the quotes) if Constantine will win, and «`Mike`» (without the quotes) if the winner will be Mike.

## Examples

| stdin | stdout |
|---|---|
| 4<br>2 4 6 8 | Constantine |
| 4<br>7 5 3 1 | Mike |