E. Furlo and Rublo and Game

time limit per test: 2 seconds
memory limit per test: 256 megabytes
input: standard input
output: standard output

Furlo and Rublo play a game. The table has n piles of coins lying on it, the i-th pile has a_i coins. Furlo and Rublo move in turns, Furlo moves first. In one move you are allowed to:

- choose some pile, let's denote the current number of coins in it as x;
- choose some integer y $(0 \le y < x;\ x^{1/4} \le y \le x^{1/2})$ and decrease the number of coins in this pile to y. In other words, after the described move the pile will have y coins left.

The player who can't make a move, loses.

Your task is to find out, who wins in the given game if both Furlo and Rublo play optimally well.

Input

The first line contains integer n $(1 \le n \le 77777)$ — the number of piles. The next line contains n integers $a_1, a_2, ..., a_n$ $(1 \le a_i \le 777777777777)$ — the sizes of piles. The numbers are separated by single spaces.

Please, do not use the `%lld` specifier to read or write 64-bit integers in C++. It is preferred to use the `cin`, `cout` streams or the `%I64d` specifier.

Output

If both players play optimally well and Furlo wins, print "`Furlo`", otherwise print "`Rublo`". Print the answers without the quotes.

Examples

input
1 1
output
Rublo

input
2 1 2
output
Rublo

input
10 1 2 3 4 5 6 7 8 9 10
output
Furlo