

Disk game

RK and Nakul are playing with M disks stored in a box. They will pick disks turn by turn such that the number of disks picked is a power of four. The person who is unable to pick a valid number of disks is declared a loser. If RK goes first, find the winner of the game if both of them play optimally.

Input format

- First line: T
- Each test case: M

Output format

For each test case print "RK", if RK wins, or "Nakul", if Nakul wins

Constraints

$$1 \leq T \leq 1000$$

$$1 \leq M \leq 10^{17}$$

Sample Input ⓘ

```
2
1
2
```

Sample Output ⓘ

```
RK
Naku1
```

Explanation

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