

# Simple Game Theory

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## Description

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Alice and Bob want to play a game. The rules are as follows:

At the beginning there are  $n$  stones. Alice goes first and the two alternate rounds. On each turn, the player takes  $p^k$  stones, where  $p$  is any prime number and  $k$  is any non-negative integer. If a player takes all the stones on his turn, he wins the game.

It can be proven that one side of the game has a sure win strategy. Now they have to play  $t$  times and you need to output who will definitely win each time.

## Input Format

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The first line includes one integer  $t$ .

For the next  $t$  lines, each line contains one integer  $n$ .

## Output Format

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In the  $i$ -th line, you should output who will definitely win at the  $i$ -th time (Alice or Bob).

## Sample

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### Sample Input

```
3
3
6
15
```

### Sample Output

```
Alice
Bob
Alice
```

For 40% testcases:

- $t = 1$
- $n \leq 100$

For 100% testcases:

- $1 \leq t \leq 10^2$
- $1 \leq n \leq 10^9$

