

Problem A. Fooling Around

Time Limit 1000 ms

Mem Limit 1048576 kB

OS Linux

Alice and Bob take turns playing a game, with Alice going first. They begin with a pile of N stones, each turn removing one less than a prime number of stones. The person who removes the last stone wins. Given N , determine who wins the the game, assuming Alice and Bob both play optimally.

Input

The first line of input consists of a integer Q , the number of testcases, with $1 \leq Q \leq 100$. The next Q lines each contains a single integer N , representing the number of stones in the pile, where $1 \leq N \leq 10^9$.

Output

For each test case, output the winner “Alice” or “Bob”. Each testcase’s output should be printed on their own line.

Sample 1

Input	Output
6	Alice
1	Alice
2	Bob
3	Alice
5	Bob
8	Alice
13	