A Funny Game

Time Limit = 1s, Memory Limit = 32768KB

Alice and Bob decide to play a funny game. At the beginning of the game they pick n($1 <= n <= 10^6$) coins in a circle, as Figure 1 shows. A move consists in removing one or two **adjacent** coins, leaving all other coins untouched. At least one coin must be removed. Players alternate moves with Alice starting. The player that removes the last coin wins. (The last player to move wins. If you can't move, you lose.)

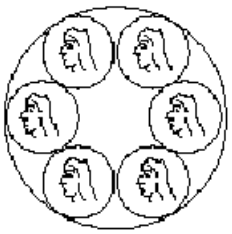

Figure 1

Note: For n > 3, we use c_1, c_2, ..., c_n to denote the coins clockwise and if Alice remove c_2, then c_1 and c_3 are **NOT** adjacent! (Because there is an empty place between c_1 and c_3.)

Suppose that both Alice and Bob do their best in the game.

You are to write a program to determine who will finally win the game.

Input

There are several test cases. Each test case has only one line, which contains a positive integer n ($1 <= n <= 10^6$). There are no blank lines between cases. A line with a single 0 terminates the input.

Output

For each test case, if Alice win the game,output "Alice", otherwise output "Bob".

Sample Input

```
1
2
3
0
```

Sample Output

```
Alice
Alice
Bob
```