# **Artificium**

#### Chain Words

Runtime Limit - 3s

# **Problem Statement**

Alice and Bob play a word chain game. In this game, the two players take alternating turns, with Alice going first.

The players have a word list consisting of N words. All words in the word list are distinct.

In each player's turn, the player chooses a word from the word list that satisfies the following two conditions:

- The word has not been chosen before by either player.
- Other than the first turn of the game, the first character of the chosen word must be the same as the last character of the previous word.

If a player is unable to choose a word satisfying the above conditions, that player loses and the other player wins.

Determine who wins, if both players play optimally.

### **Format**

#### **Input**

Line 1: An integer N: the number of words in the word list.

Next N lines: A single string - a word in the word list.

#### **Output**

Print Alice or Bob, the winner of the game.

# **Constraints**

The words in the word list are at most 12 letters long.

The words in the word list are all distinct.

# Sample

# Input

4

dog

cat

goat

toad

# Output

Alice