Number Deletion Game

Input file:	`standard input`
Output file:	`standard output`
Time limit:	1 second
Memory limit:	1024 megabytes

Alice and Bob are playing a number deletion game.

At the beginning, there are n integers $a_1, a_2, \ldots, a_n$. Alice and Bob take turns to delete numbers, with Alice going first. Each person can delete the **largest number** x (if there are multiple largest numbers, delete one of them), choose a non-negative integer y that is **smaller** than x, and add the numbers $1, 2, \ldots, y$. In particular, it is possible to choose $y = 0$, in which case no numbers will be added. This means that when deleting 1, no numbers can be added. The person who deletes the last number wins.

Both players use the optimal strategy. Determine who wins, Alice or Bob.

Input

The first line contains a positive integer n ($1 \leq n \leq 10^3$), indicating the initial number of integers.

The second line contains n positive integers $a_1, a_2 \ldots a_n$ ($1 \leq a_i \leq 10^9$).

Output

Output one line. If Alice wins, output `Alice`. Otherwise, output `Bob`.

Examples

standard input	standard output
2 3 3	Bob
2 2 3	Alice