

Alice Game

Tonight, Alice and Bob are feeling so boring. Alice is a math student. So he suggested to play an interesting game. They play the following game.

They choose a number N to play with. The runs are as follows :

1. In every game Bob starts first and the two players alternate.
2. In his/her turn , a player chooses a number from 1,2,3,5 and 7, which is less than N . And then subtract it from N . The number thus obtained is the new N .
3. The person who cannot make a move in his/her turn loses the game.

Assuming both play optimally, who wins the game ?

Input

The first line contains the number of test cases $T \leq 10000$. Each of the next lines contains an integer $N \leq 1000000$.

Output

Output T lines one for each test case ,containing "ALICE" if Alice wins the game ,or "BOB" if Bob wins the game. Don't Forget about Case Number.

Sample:

Input	Output
2	Case 1: ALICE
1	Case 2: BOB
2	Case 3: BOB
3	

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Note : For the first test case, Bob cannot make any move and hence Alice wins the game. For the second test case, Bob subtracts 1 from N . Now, Alice cannot make a move and loses the game.