# Number Game Revisited

Problem Code: **NUMGAME2**

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Alice and Bob play the following game.They choose a number N to play with.The runs are as follows :

1.Bob plays first and the two players alternate.

2.In his/her turn ,a player can subtract from N any prime number(including 1) less than 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 ?

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### Input format:

The first line contains the number of test cases T.Each of the next lines contains an integer N.

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### Output format:

Output T lines one for each test case,containing "ALICE" if Alice wins the game ,or "BOB" if Bob wins the game.

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### Example

**Sample Input:**

```
2
1
2
```

**Sample Output:**

```
ALICE
BOB
```

**Constraints:**

```
1 <= T <= 1000000
1 <= N <= 1000000000
```

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.

All submissions for this problem are available.

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|---|---|
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| Editorial: | https://discuss.codechef.com/problems/NUMGAME2 |
| Tags: | april11, easy, snigdha_adm |
| Date Added: | 23-11-2010 |
| Time Limit: | 0.31 secs |
| Source Limit: | 50000 Bytes |
| Languages: | CPP14, C, JAVA, PYTH 3.6, PYTH, CS2, ADA, PYP3, TEXT, PAS fpc, RUBY, PHP, NODEJS, GO, TCL, HASK, PERL, SCALA, BASH, JS, PAS gpc, BF, LISP sbcl, CLOJ, LUA, D, CAML, ASM, FORT, FS, LISP clisp, SCM guile, PERL6, CLPS, WSPC, ERL, ICK, NICE, PRLG, ICON, PIKE, SCM qobi, ST, NEM |

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