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Lift queries



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Attempted by: **13851** / Accuracy: **51%** / Maximum Points: **20** / ★★★★★☆ 368 Votes /

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PROBLEM

EDITORIAL

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ANALYTICS

DISCUSSIONS

NEW

There are 7 floors in BH3 and only 2 lifts. Initially **Lift A** is at the ground floor and **Lift B** at the top floor. Whenever someone calls the lift from **N** th floor, the lift closest to that floor comes to pick him up. If both the lifts are at equidistant from the **N** th floor, then the lift from the lower floor comes up.

INPUT

First line contains a integer **T** denoting the number of test cases.

Next **T** lines contains a single integer **N** denoting the floor from which lift is called.

OUTPUT

Output **T** lines containing one character "A" if the first lift goes to **N** th floor or "B" for the second lift.

CONSTRAINTS

 $0 \leq N \leq 7$ $1 \leq T \leq 100000$

SAMPLE INPUT



```
2
3
5
```

SAMPLE OUTPUT



```
A
A
```



Explanation

3rd floor calls, Lift A(0) goes there.

5th floor calls, Lift A(3) and Lift B(7) are equidistant from 5, so Lift from lowest floor goes there i.e. A.

Time Limit: 1.0 sec(s) for each input file.

Memory Limit: 256 MB

Source Limit: 1024 KB

BEST SUBMISSION



SIMILAR PROBLEMS



CONTRIBUTORS

