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(CODECHEF Certified) Data Structure & Algorithms Programme (CCDSAP)

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Train Partner | Problem Code: ANKTRAIN









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All submissions for this problem are available.

Read problems statements in Mandarin Chinese, Russian and Vietnamese as well.

Rahul and Rashi are off to the wedding of a close relative. This time they have to travel without their guardians. Rahul got very interested in the arrangement of seats inside the train coach.

The entire coach could be viewed as an arrangement of consecutive blocks of size 8.

Berth Number Compartment

1 - 8		1
9 - 16		2
17 - 24		3
and	so on	

Each of these size-8 blocks are further arranged as:

```
2MB,
           3UB, 4LB, 5MB, 6UB, 7SL, 8SU
1LB,
9LB, 10MB, ...
. . .
. . .
```

Here LB denotes lower berth, MB middle berth and UB upper berth.

The following berths are called Train-Partners:

3UB 6UB 5MB 2MB 1LB 4LB 7SL 8SU All Submissions

Successful Submissions

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Input

The first line of input contains a single integer \mathbf{T} , denoting the number of test cases to follow.

Each of the next ${\bf T}$ lines contain a single integer ${\bf N}$, the berth number whose neighbor is to be found out.

Output

The output should contain exactly ${\bf T}$ lines each containing the berth of the neighbor of the corresponding seat.

Constraints

Subtasks

Subtask #1 (50 points):

- $1 \le T \le 8$
- $1 \le N \le 8$

Subtask #2 (50 points):

- $1 \le T \le 100$
- $1 \le N \le 500$

Example

Input:

3

1

5

3

Output:

4LB

2MB

6UB

Author: 5★ code master01

Tester: 7★ kevinsogo

Tags: <u>code_master01</u>

Date Added: 20-05-2015

Time Limit: 1 secs

Source Limit: 50000 Bytes

Languages: C, CPP14, JAVA, PYTH, PYTH 3.5, PYPY, CS2, PAS fpc, PAS gpc,

RUBY, PHP, GO, NODEJS, HASK, SCALA, D, PERL, FORT, WSPC, ADA, CAML, ICK, BF, ASM, CLPS, PRLG, ICON, SCM qobi, PIKE, ST, NICE, LUA, BASH, NEM, LISP sbcl, LISP clisp, SCM guile, JS, ERL, TCL, PERL6, TEXT, SCM chicken, CLOJ, FS

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CodeChef - A Platform for Aspiring Programmers

CodeChef was created as a platform to help programmers make it big in the world of algorithms, **computer programming** and **programming contests**. At CodeChef we work hard to revive the geek in you by hosting a **programming contest** at the start of the month and another smaller programming challenge in the middle of the month. We also aim to have training sessions and discussions related to **algorithms**, **binary search**, technicalities like **array size** and the likes. Apart from providing a platform for **programming competitions**, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of **computer programming**.

Practice Section - A Place to hone your 'Computer Programming Skills'

Try your hand at one of our many practice problems and submit your solution in a language of your choice. Our **programming contest** judge accepts solutions in over 35+ programming languages. Preparing for coding contests were never this much fun! Receive points, and move up through the CodeChef ranks. Use our practice section to better prepare yourself for the multiple **programming challenges** that take place through-out the month on CodeChef.

Compete - Monthly Programming Contests and Cook-offs

Here is where you can show off your **computer programming skills**. Take part in our 10 day long monthly coding contest and the shorter format Cook-off **coding contest**. Put yourself up for recognition and win great prizes. Our **programming contests** have prizes worth up to INR 20,000 (for Indian Community), \$700 (for Global Community) and lots more CodeChef goodies up for grabs.

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