









Rank









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Cats and a Mouse



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Two cats named $m{A}$ and $m{B}$ are standing at integral points on the x-axis. Cat $m{A}$ is standing at point $m{x}$ and cat $m{B}$ is standing at point $m{y}$. Both cats run at the same speed, and they want to catch a mouse named C that's hiding at integral point z on the x-axis. Can you determine who will catch the mouse?

You are given $m{q}$ queries in the form of $m{x}$, $m{y}$, and $m{z}$. For each query, print the appropriate answer on a new line:

- If cat \boldsymbol{A} catches the mouse first, print Cat A.
- If cat **B** catches the mouse first, print Cat B.
- If both cats reach the mouse at the same time, print Mouse C as the two cats fight and mouse escapes.

Input Format

The first line contains a single integer, q, denoting the number of queries.

Each of the q subsequent lines contains three space-separated integers describing the respective values of x (cat A's location), y (cat B's location), and \boldsymbol{z} (mouse \boldsymbol{C} 's location).

Constraints

- $1 \le q \le 100$
- $1 \le x, y, z \le 100$

Output Format

On a new line for each query, print Cat A if cat A catches the mouse first, Cat B if cat B catches the mouse first, or Mouse C if the mouse escapes.

Sample Input 0

1 2 3

1 3 2 2 1 3

Sample Output 0

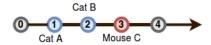
Cat B

Mouse C

Cat A

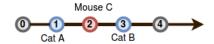
Explanation 0

Query 0: The positions of the cats and mouse are shown below:



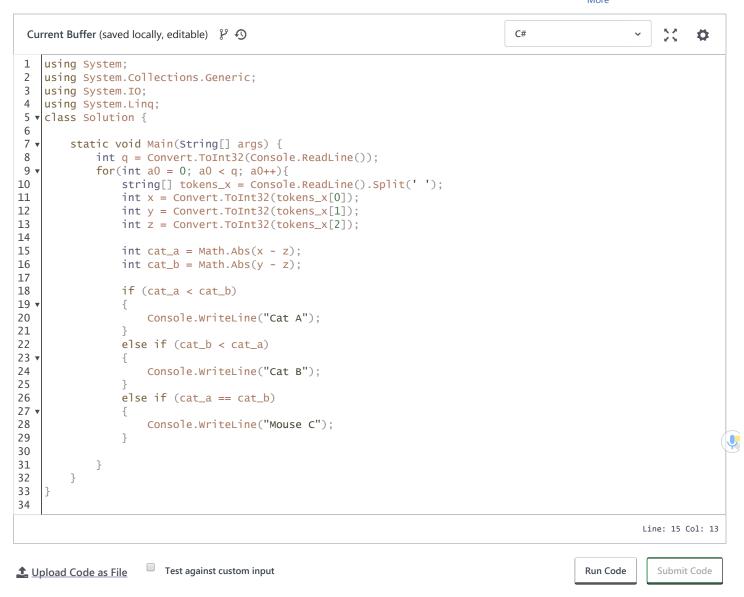
Cat \boldsymbol{B} will catch the mouse first, so we print Cat B on a new line.

Query 1: In this query, cats \boldsymbol{A} and \boldsymbol{B} reach mouse \boldsymbol{C} at the exact same time:



Because the mouse escapes, we print Mouse C on a new line.

Submissions: 1201 Max Score: 15 Difficulty: Easy Rate This Challenge: ☆☆☆☆☆



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