

Bingo Game

Problem Statement

You need to implement a **Bingo Game** that operates as follows:

1. The game starts with a **5×5 Bingo board** filled with **unique numbers**.
 2. A **list of 25 called numbers** is provided, separated by commas.
 3. If a called number exists on the board, it should be **marked as 'X'**.
 4. The game tracks **completed rows, columns, and diagonals**.
 5. The game stops when **all five letters** (B I N G O) are **completely struck**.
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Rules & Gameplay

1. Bingo Board

- The board is a **5×5 grid** containing **unique numbers**.
- Each row consists of **5 space-separated integers**.

2. Called Numbers

- A sequence of **25 numbers** separated by commas is provided as input.
- These numbers are **marked on the board** if present.

3. Marking Numbers

- If a **called number** exists on the board, replace it with **'X'**.
- If a number is **not present**, ignore it.

4. Bingo Completion

- A **full row** marked with 'X' **strikes a Bingo letter**.
- A **full column** marked with 'X' **strikes a Bingo letter**.
- A **full diagonal** marked with 'X' **strikes a Bingo letter**.
- The letters **B I N G O** are awarded **in order**.
- The game stops when **all five letters** are struck.

5. Winning Condition

✓ If all five letters (B I N G O) are marked:

B I N G O

Game Completed!

✗ If fewer than 5 letters are marked after 25 calls:

Remaining Letters: <unmarked letters>



Input Format

1. **5×5 Bingo Board** (Each row contains 5 space-separated numbers).
2. **A single line of 25 called numbers** separated by commas.

Example Input

```
10 20 30 44 50
60 70 80 90 100
1 2 3 4 55
11 22 33 44 55
66 77 88 99 1
10, 1, 55, 4, 3, 2, 44, 43, 32, 30, 20, 34, 80, 50, 58, 42, 90, 8, 94, 88, 33, 100, 89, 99, 19
```



Output Format

- The **updated Bingo board** after marking numbers.
- The **struck BINGO letters**, in order.
- **Final result message** depending on whether all letters are marked.

Example Output

```
X    X    X    X    X
60   70   X    X    X
X    X    X    X    X
11   22   X    X    X
66   77   X    X    X
```

B I N G O
Game Completed!

B I N G O
Game Completed!

✓ Another Example (Game Not Completed)

Input

12 24 36 48 60
13 26 39 52 65
14 28 42 56 70
15 30 45 60 75
16 32 49 64 80
12, 24, 36, 48, 60, 13, 26, 39, 52, 65, 14, 28, 42, 56, 70, 15, 30, 45, 60, 99, 100, 101, 102, 103, 104

Output

X	X	X	X	X
X	X	X	X	X
X	X	X	X	X
X	X	X	X	75
16	32	49	64	80

Remaining Letters: G O

♦ Summary

- ✓ Bingo board with unique numbers
- ✓ Called numbers are exactly 25 (comma-separated)
- ✓ Tracks Bingo completion (rows, columns, diagonals)
- ✓ Stops when all 5 letters are struck
- ✓ Clear output formatting

