# Problem E <br> Elementary Math 

Time limit: 10 seconds

Ellen is teaching elementary math to her students and the time for the final exam has come. The exam consists of $n$ questions. In each question the students have to add $(+)$, subtract $(-)$ or multiply $(*)$ a pair of numbers.

Ellen has already chosen the $n$ pairs of numbers. All that remains is to decide for each pair which of the three possible operations the students should perform. To avoid students getting bored, Ellen wants to make sure that the $n$ correct answers to her exam are all different.

Please help Ellen finish constructing the exam by automating


Example exam by Ellen this task.

## Input

The input consists of:

- one line with one integer $n(1 \leq n \leq 2500)$, the number of pairs of numbers;
- $n$ lines each with two integers $a$ and $b\left(-10^{6} \leq a, b \leq 10^{6}\right)$, a pair of numbers used.


## Output

For each pair of numbers $(a, b)$ in the same order as in the input, output a line containing a valid equation. Each equation should consist of five parts: $a$, one of the three operators, $b$, an equals $\operatorname{sign}(=)$, and the result of the expression. All the $n$ expression results must be different.

If there are multiple valid answers you may output any of them. If there is no valid answer, output a single line with the string "impossible" instead.

| Sample Input 1 | Sample Output 1 |
| :---: | :---: |
| 4 | $1+5=6$ |
| 15 | $3 * 3=9$ |
| 33 | $4-5=-1$ |
| 45 | $-1--6=5$ |
| -1 -6 |  |

## Sample Input 2 Sample Output 2

| 4 |  | impossible |
| :--- | :--- | :--- |
| -4 | 2 |  |
| -4 | 2 |  |
| -4 | 2 |  |
| -4 | 2 |  |

