## Problem A. Red-blue table

Input file:
Output file:
Time limit:
Memory limit:
standard input
standard output
2 seconds
256 megabytes

Aidos and Tima are going to play an interesting game on a table of sizes $N \times M$. Also, they have an unlimited number of stones of two colors: red and blue. They want to fill the entire table in such a way that each cell of the table contains exactly one stone.
Aidos likes rows of the table with the number of red stones strictly greater than the number of blue stones. Let's denote the number of these rows as $A$.
Tima likes columns of the table with the number of blue stones strictly greater than the number of red stones. Let's denote the number of these columns as $B$.
As they are given only one table, they decided not to annoy each other and fill the table such that the total number of rows that Aidos likes and columns that Tima likes would be as many as possible.

Formally, they will try to maximize the value of the expression $A+B$.
Help the guys to fill the table.

## Input

The first line contains a single integer $T(1 \leq T \leq 1000)$ - the number of tests.
Next $T$ lines contain two integers numbers $N, M(1 \leq N, M \leq 1000)$. It is guaranteed that the sum of $N \cdot M$ over all the tests will not exceed $10^{6}$.

## Output

The answer for each test consists of $N+1$ lines. Output the maximum value of $A+B$ in one line. In each of the next $N$ lines output $M$ symbols (' + ' - for a red stone, ${ }^{\prime}-$ ' - for a blue stone). If there are several solutions you can output any of them.

## Scoring

This task contains six substasks:

1. $1 \leq T \leq 16,1 \leq N, M \leq 4$. Scored 17 points.
2. $1 \leq T \leq 1000,1 \leq N, M \leq 50, \min (N, M) \leq 3$. Scored 10 points.
3. $1 \leq T \leq 1000,1 \leq N, M \leq 50, \min (N, M) \leq 5$. Scored 16 points.
4. $1 \leq T \leq 1000,1 \leq N, M \leq 1000 . N$ and $M$ - odd numbers. Scored 11 points.
5. $1 \leq T \leq 1000,1 \leq N, M \leq 1000, N=M$. Scored 15 points.
6. $1 \leq T \leq 1000,1 \leq N, M \leq 1000$. Scored 31 points.

## Example

|  | standard input |  | standard output |
| :--- | :--- | :--- | :--- |
| 2 | 3 | 3 |  |
| 3 | 3 | --- |  |
|  |  | 4 |  |
|  |  | +-+ |  |
|  |  | +-+ |  |
|  |  | ++ |  |

