## Problem K. Chess Positions

| Input file: | standard input |
| :--- | :--- |
| Output file: | standard output |
| Time limit: | 1 second |
| Memory limit: | 256 megabytes |

You have an unlimited number of white and black chess pieces such as the queen, bishop, knight and rook. You are also given two numbers, $w$ and $b$, the number of white and black pieces that must be under attack. It is required to create a position on the board $8 \times 8$ suitable for the restrictions described above.

The queen, the bishop and the rook move in the allowed direction before another figure is met and can attack if it is of a different color. The Knight also attacks a figure of a different color and and can jump over other pieces.

## Input

First line contains integer $t$ - number of tests. Next $t$ lines contain two integers $w$ and $b$ each - number of white and black chess pieces under attack, correspondingly.

$$
\begin{gathered}
1 \leq t \leq 10^{3} \\
0 \leq w, b \leq 50 \\
w+b \leq 64
\end{gathered}
$$

## Output

For each test, you are required to output a chess position which satisfies given conditions. The position should be represented by 8 lines containing 8 symbols each. The positions should be split by an empty line. Empty cells should be printed as '.', cells containing queen should be represented as ' $q$ ', bishop cells - ' $b$ ', knight cells - ' $k$ ', and rook cells - ' $r$ '. White pieces should be printed in upper case and black ones in lower case. If there are multiple correct positions, you may print any of them. It is guaranteed that the correct answer always exists.

## Example



Note

9th BSUIR Open Programming Championship. Final
Belarus, Minsk, 24 April 2019

| - |  |  | - |  |  | - |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | O |  | O |  | O |  |  |
|  |  | O | - | O |  |  |  |
| - | O | - | May | - | O | $\bullet$ | - |
|  |  | O | $\bullet$ | O |  |  |  |
|  | O |  | - |  | - |  |  |
| O |  |  | $\bullet$ |  |  | O |  |
|  |  |  | - |  |  |  | - |

Queen


Knight


Bishop


Rook

