## C. Homework

time limit per test: 3 seconds memory limit per test: 256 megabytes

input: standard input output: standard output

Today Peter has got an additional homework for tomorrow. The teacher has given three integers to him: n, m and k, and asked him to mark one or more squares on a square grid of size  $n \times m$ .

The marked squares must form a connected figure, and there must be exactly k triples of marked squares that form an L-shaped tromino — all three squares are inside a  $2 \times 2$  square.

The set of squares forms a connected figure if it is possible to get from any square to any other one if you are allowed to move from a square to any adjacent by a common side square.

Peter cannot fulfill the task, so he asks you for help. Help him to create such figure.

## Input

Input data contains one or more test cases. The first line contains the number of test cases t ( $1 \le t \le 100$ ).

Each of the following t test cases is described by a line that contains three integers: n, m and k ( $3 \le n$ , m,  $n \times m \le 10^5$ ,  $0 \le k \le 10^9$ ).

The sum of values of  $n \times m$  for all tests in one input data doesn't exceed  $10^5$ .

## **Output**

For each test case print the answer.

If it is possible to create such figure, print n lines, m characters each, use asterisk '\*' to denote the marked square, and dot'.' to denote the unmarked one.

If there is no solution, print -1.

Print empty line between test cases.

## Example

| Tilput |  |  |
|--------|--|--|
| 3      |  |  |
| 3 3 4  |  |  |
| 3 3 5  |  |  |
| 3 3 3  |  |  |
| output |  |  |
| .*.    |  |  |
| ***    |  |  |
| .*.    |  |  |
| **.    |  |  |
| **.    |  |  |
| *      |  |  |
|        |  |  |
| .*.    |  |  |
| ***    |  |  |
| *      |  |  |
|        |  |  |