## Domino Tiling

Input file:
Output file: standard input
Time limit: $\quad 2$ seconds
Memory limit: $\quad 64$ megabytes

Chiaki has an $n \times m$ rectangular chessboard. She would like to tile this board with dominoes, where a domino is a $2 \times 1$ rectangle, such that:

- all the squares of the board are covered but no dominoes overlap or lie partially off the board.
- there must be no points where corners of four different dominoes meet.

The figure below shows some forbidden configurations:


The figure below shows two valid tilings of $4 \times 4$ chessboard:


You also need to number the dominoes of chessboard so that no two dominoes have the same number. You can use the number from 1 to $n \times m$.

## Input

There are multiple test cases. The first line of input contains an integer $T$, indicating the number of test cases. For each test case:
The first line contains two integers $n$ and $m(1 \leq n, m \leq 100)$ - the size of the rectangular chessboard.
It is guaranteed that the sum of $n \times m$ over all test cases does not exceed $2 \times 10^{6}$.

## Output

For each test case, output a valid chessboard described above. A valid chessboard consists of $n$ lines and each line contains $m$ integers. Each integer in the output should represent the $i d$ of a domino. The grids sharing the same $i d$ belong to the same domino.
If there is no solution, output "Impossible!" (without the quotes) instead.

## Example

|  | standard input | $\quad$ standard output |  |  |  |
| :--- | :--- | :--- | :--- | :---: | :---: |
| 3 | 1 | Impossible! |  |  |  |
| 4 | 3 | 1 | 1 |  |  |
| 4 | 2 |  |  |  |  |
| 3 | 4 | 2 |  |  |  |
| 3 | 4 | 5 |  |  |  |
| 6 | 6 | 5 |  |  |  |
| 1 | 1 | 2 | 2 |  |  |
|  | 3 | 4 | 4 |  |  |
| 5 |  |  |  |  |  |
|  | 3 | 6 | 6 |  |  |
| 5 | 5 |  |  |  |  |
|  | 7 | 7 | 8 |  |  |

