Read a matrix dimension, and print the matrix filled with consecutive numbers starting from one(1).

The first cell (0,0) must have the number 1.
The last cell (n,m) must have the value n x m (The largest number).
All others will be filled diagonally, left bottom to right top.

For example
Input:
3
4

Output:

1	3	6	9
2	5	8	11
4	7	10	12

Input
3
3

Output

1	3	6
2	5	8
4	7	9

Explanation