

Number Pattern

For a given number N. Print the pattern in the following form: 1 121 12321 1234321 for N=4.

Input:

First line of input contains the test cases T. Each line of test case contain the value of N for which the pattern is to be displayed.

Output:

For each value of N, print the pattern in a single line.

Constraints:

$1 \leq T \leq 10$

$1 \leq N \leq 20$

Example:

Input:

2

3

6

Output:

1 121 12321

1 121 12321 1234321 123454321 12345654321