

Pascal Triangle

No more boring stories ;) A straightforward question. Given a number N print a Pascal Triangle of size N.

For example a Pascal Triangle of size 5 looks like this:

```
      1
     2 1 2
    3 2 1 2 3
   4 3 2 1 2 3 4
  5 4 3 2 1 2 3 4 5
```

Input

1st line contains a number T – no. of test cases

Each of the next T lines has an integer ($1 \leq N \leq 15$)

Output

Print the required output (Use tabs not spaces)

After the last line print an extra blank line as in:

“5t4t3t2t1t2t3t4t5nn”

Example

Input:

1

5

Output:

```
      1
     2 1 2
    3 2 1 2 3
   4 3 2 1 2 3 4
  5 4 3 2 1 2 3 4 5
```