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# Square Matrix III

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**Timelimit: 1**

Write a program that read an integer number  $N$  ( $0 \leq N \leq 15$ ) that correspond to the order of a bidimensional array of integers, and build the array according to the above example.

Input

The input consists of several integers numbers, one per line, corresponding to orders from arrays to be built. The end of input is indicated by zero (0).

Output

For each integer number of input, print the corresponding array according to the example. The values of the array must be formatted in a field of size  $T$  right justified and separated by a space, where  $T$  is equal to the number of digits of the biggest number in the array. None space must be printed after the last character of each row of the array. A blank line must be printed after each array.

Sample Input	Sample Output
1	1
2	
3	1 2
4	2 4
5	
0	1 2 4
	2 4 8
	4 8 16
	1 2 4 8
	2 4 8 16
	4 8 16 32
	8 16 32 64
	1 2 4 8 16
	2 4 8 16 32
	4 8 16 32 64
	8 16 32 64 128
	16 32 64 128 256

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