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**Zeros and ones****P20867\_en**

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Write a program that prints all the combinations of  $z$  zeros and  $o$  ones such that  $z + o = n$ , for a given  $n$ .

**Input**

The input consists of a natural  $0 < n < 11$ .

**Output**

Your program must print all the combinations in lexicographical order (look the instance), one per line, the characters separated by spaces.

**Sample input 1**

3

**Sample output 1**

0 0 0
0 0 1
0 1 0
0 1 1
1 0 0
1 0 1
1 1 0
1 1 1

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**Problem information**

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