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The Virtual Learning Environment for Computer Programming

Zeros and ones (1)

P12828_en

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

Input

Input consists of a natural number n > 0.

Output

Print all the combinations of z zeros and o ones such that z + o = n, one per line and in lexicographical order.

Observation

Although a backtracking program is not really necessary to solve this exercise, implement it anyway for the sake of practice.

Sample input

3

Sample output

0	0	C
0	0	1
0	1	C
0	1	1
1	0	C
1	0	1
1	1	C
1	1	1

Problem information

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