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The Virtual Learning Environment for Computer Programming

Zeros and ones (2)

P45965_en

Write a program to print all the combinations of n - o zeros and o ones, for some given n and o.

Input

Input consists of n and o, two natural numbers such that n > 0 and $0 \le o \le n$.

Output

Print all the combinations of n-o zeros and o ones, one per line and in lexicographical order.

Sample input

5 2

Sample output

| 0 | 0 | 0 | 1 | 1 |
|---|---|---|---|---|
| 0 | 0 | 1 | 0 | 1 |
| 0 | 0 | 1 | 1 | C |
| 0 | 1 | 0 | 0 | 1 |
| 0 | 1 | 0 | 1 | C |
| 0 | 1 | 1 | 0 | C |
| 1 | 0 | 0 | 0 | 1 |
| 1 | 0 | 0 | 1 | C |
| 1 | 0 | 1 | 0 | C |
| 1 | 1 | 0 | 0 | C |
| | | | | |

Problem information

Author : Salvador Roura Translator : Carlos Molina Generation : 2024-05-03 15:44:13

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