
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 $0 \leq o \leq n$.

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 0
0 1 0 0 1
0 1 0 1 0
0 1 1 0 0
1 0 0 0 1
1 0 0 1 0
1 0 1 0 0
1 1 0 0 0
```

Problem information

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