
From one to en (1)

P69348_en

Write program that prints all the permutations of $\{1, \dots, n\}$ for a given n .

Input

Input consists of a natural number $n > 0$.

Output

Print all the permutations of $\{1, \dots, n\}$ in lexicographical order.

Sample input

3

Sample output

(1, 2, 3)
(1, 3, 2)
(2, 1, 3)
(2, 3, 1)
(3, 1, 2)
(3, 2, 1)

Problem information

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