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## From one to en (1)

P69348\_en

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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 1

3

#### Sample output 1

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

### Problem information

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