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## Forbidden words

P89318\_en

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Write a program that, given a number  $n$ , prints all the words that are a permutation of the first  $n$  lowercase letters, with one restriction: there cannot be two letters  $x$  and  $y$  such that  $y$  is immediately to the right of  $x$  in the word and  $y$  is the letter following  $x$  in the alphabet.

### Input

Input consists of a natural number  $n$  between 1 and 9.

### Output

Print in order and one per line all the words that satisfy the restriction.

#### Sample input 1

3

#### Sample output 1

acb  
bac  
cba

#### Sample input 2

4

#### Sample output 2

acbd  
adcb  
badc  
bdac  
bdca  
cadb  
cbad  
cbda  
dacb  
dbac  
dcba

### Problem information

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