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The Virtual Learning Environment for Computer Programming

## Forbidden words

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 input 2

4

Sample output 1
acb
bac
cba

## Sample output 2

acbd
adcb
badc
bdac
bdca
cadb
cbad
cbda
dacb
dbac
dcba

## Problem information

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