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The Virtual Learning Environment for Computer Programming

## Antipalindromic words

In this problem, we say that a word is antipalindromic if it does not contain any subword that is a palindrome (with the exception of empty subwords and single letters). Write a program that prints all the antipalindromic words of length $n$ that can be made up with the first $x$ lowercase letters.

## Input

Input consists of $n$ and $x$. Suppose $1 \leq n \leq 50$ and $1 \leq x \leq 26$.

## Output

Print, in alphabetic order, all the antipalindromic words of length $n$ that can be made up with the first $x$ lowercase letters.

## Sample input 1

83

## Sample input 2

34

## Sample output 1

abcabcab
acbacbac
bacbacba
bcabcabc
cabcabca
cbacbacb

## Sample output 2

abc
abd
acb
acd
adb
adc
bac
bad
bca
bcd
bda
bdc
cab
cad
cba
cbd
cda
cdb
dab
dac
dba
dbc
dca
dcb

## Problem information

Author : Salvador Roura
Translator : Salvador Roura
Generation : 2024-05-03 01:34:25
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