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The Virtual Learning Environment for Computer Programming

## Antipalindromic words

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Examen final d'Algorísmia, FME (2011-01-12)

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  $1 \le n \le 50$  and  $1 \le x \le 26$ .

### 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

### Sample output 1

8 3

abcabcab acbacbac bacbacba bcabcabc cabcabca cbacbacb

#### Sample input 2

#### Sample output 2

3 4

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**

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