# Jutge.org

The Virtual Learning Environment for Computer Programming

## Words with a, b and c (1)

Examen parcial d'Algorísmia, FME (2013-11-08)

In this problem we consider words of size n made up only of letters 'a', 'b' and 'c', and without two or more consecutive equal letters. Suppose that some positions of the word have fixed letters. Write a program to print all the words that meet these constraints.

#### Input

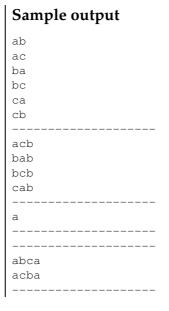
Input consists of several cases. Every case starts with n, followed by the number of fixed positions f, followed by f pairs  $p_i c_i$ , where  $p_i$  is a position between 0 and n - 1 and  $c_i$  is 'a', 'b' or 'c'. Suppose  $1 \le n \le 15$ ,  $0 \le f \le n$ , and that all  $p_i$ 's are different.

### Output

For every case, print in alphabetical order all words that satisfy the constraints. Print a line with 20 dashes at the end of each case.

#### Sample input

2 0 3 1 2 b 1 1 0 a 2 2 0 b 1 b 4 2 3 a 0 a



### **Problem information**

Author : Salvador Roura Translator : Salvador Roura Generation : 2024-05-03 01:12:03

© *Jutge.org*, 2006–2024. https://jutge.org