# Jutge.org

The Virtual Learning Environment for Computer Programming

# Word search puzzle

P87801\_en

Examen final d'Informàtica, FME (2014-01-14)

Consider an  $r \times c$  board where each cell has a letter and a number that indicates the value of that cell. Given several words w, compute the maximum number of points achievable by placing w horizontally (to the right) or vertically (down), so that all the letters match those of the board.

# Input

Input consists of several cases, each with the dimensions r and c, followed by r rows with c lowercase letters each, followed by r rows with c natural numbers each. Then comes a number t followed by t nonempty words made up of lowercase letters. You can assume that t and t are between 1 and 100, that the value of each cell is between 0 and t and that the given words do not have more than 100 letters.

### Output

For each word of each case, print the maximum possible score placing the word horizontally or vertically. If the word cannot be found, print "no".

# Sample input

# 3 4 a b c a b c a e c a b d 10 20 30 40 50 60 70 80 15 25 35 45 3 bca cabb a 1 1 z 10000000 2 y z

# Sample output

180 no 70 no 1000000

### **Problem information**

Author : Salvador Roura Translator : Salvador Roura Generation : 2020-08-19 15:56:51

© *Jutge.org*, 2006–2020. https://jutge.org