## Jutge.org

The Virtual Learning Environment for Computer Programming

## The travelling tortoise <br> P22295_en

Find all the paths that a tortoise can travel from an initial position to a final position. The ground has $n \times m$ paving stones, each one with a letter painted on it. The tortoise can only make horizontal and vertical movements, and it cannot pass by the same position twice.

## Input

Input begins with $n$ and $m$, followed by $n$ lines with $m$ letters each. Follow a pair of natural numbers indicating the initial row and column, and a pair of naturals numbers indicating the final row and column. The upper-left corner corresponds to the position $(0,0)$.

## Output

Print all the paths from the initial position to the final position.

## Information about the checker

You can print the solutions to this exercise in any order.

## Sample input 1

22
IG
BA
$\begin{array}{llll}1 & 0 & 0 & 1\end{array}$

## Sample input 2

## 32

ab
de
ab
$0 \quad 0 \quad 21$

## Sample input 3

$\begin{array}{lllll}1 & 1 & & \\ \text { A } & & & \\ 0 & 0 & 0 & 0\end{array}$

## Sample output 1

BIG
BAG

## Sample output 2

adab
adeb
abeb
abedab

## Sample output 3

A

## Problem information

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