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**The travelling tortoise****P22295\_en**

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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 natural 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**

```
2 2
IG
BA
1 0 0 1
```

**Sample output 1**

```
BIG
BAG
```

**Sample input 2**

```
3 2
ab
de
ab
0 0 2 1
```

**Sample output 2**

```
adab
adeb
abeb
abedab
```

**Sample input 3**

```
1 1
A
0 0 0 0
```

**Sample output 3**

```
A
```

**Problem information**

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Generation: 2026-01-25T10:14:02.167Z

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