Problem A: Crosswords

ACM Scholastic Programming Contest
ETH Regional Contest

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Sourcefile:	`cross.pas` or `cross.c`
Inputfiles:	`cross1.inp` and `cross2.inp`
Outputfile:	`cross.out`

This problem deals with crosswords, as they are known from every newspaper. A crossword is words arranged horizontally and vertically in a rectangle. Two words can share one character where they are crossing. The problem is to decide whether the crossword is solved correctly or not.

Description of the inputfiles:

- `cross1.inp` contains any number of lines of the format: `word x y d <cr>`. The file is terminated by the standard end-of-file. `word, x, y` and `d` are in standard text format. `x` and `y` mean the coordinate of the starting point of the word and `d` is the direction in which the word is written. The coordinate system starts at the upper left of the rectangle with the coordinates (1,1). The direction is given by a single character where u means upwards, r means right, d means down and l means left.
- `cross2.inp` contains the "solution" in the following format: The first line is the width of the crossword, and the second line is the higth. The third line is all the characters of the crossword listed from left to right, from top to bottom.

Description of the outputfile:

`cross.out` contains one of the following sentences:

- `The crossword is correct`

or

- `The crossword is incorrect.`

Example:

The inputfile `cross1.inp`:

```
second 1 1 r<cr>
vis 1 3 r<cr>
file 2 4 u<cr>
castle 3 1 d<cr>
end 6 3 u<cr>
<eof>
```

and `cross2.inp`:

```
6<cr>
6<cr>
second la  nvis  e ft     l     e   <eof>
```

This should produce the output `cross.out`:

```
The crossword is correct.
```

[End of problem A]