
Solitaire of the stones (2)

P52369_en

This exercise is a variation of the exercise : [""](#). The only difference in the rules of the game is that now the jumps do not make disappear the stones that have been jumped.

Write a program such that, given two configurations of a solitaire, prints if is possible to go from one to the other one.

Input

Input consists of a natural $n \geq 3$, followed by the descriptions of the two configurations, each one with n rows with n characters each one. A 'X' indicates a stone. The empty positions are indicated with a dot.

Output

Your program must print "1" if you can go from one configuration to the other one, or "0" if it is not possible.

Sample input 1

```
3
. XX
X . .
. XX

. X .
X . .
XXX
```

Sample output 1

```
1
```

Sample input 2

```
3
XXX
...
XXX

XXX
...
XXX
```

Sample output 2

```
1
```

Sample input 3

```
4
XX . .
. XX .
. . X .
XXX .

XXX .
. . . X
XX . .
. . XX
```

Sample output 3

```
0
```

Problem information

Author : Salvador Roura

Translator : Carlos Molina

Generation : 2013-09-02 14:54:58

© *Jutge.org*, 2006–2013.

<http://www.jutge.org>