

## Latin squares

X30739\_en

### Input

The first line is an array representation of a Latin square of order  $n$ , followed by other lines that represent  $n \times n$  matrices with the same set of symbols.

### Output

The output is the list of arrays being orthogonal Latin squares for the provided in the first line of the input. In this case, those in lines 2 and 3, since 4 is not a Latin square and 5 is not orthogonal.

#### Sample input 1

```
{ (1, 1, A) , (1, 2, B) , (1, 3, C) , (2, 1, C) , (2, 2, A) ,
{ (1, 1, A) , (1, 2, B) , (1, 3, C) , (2, 1, B) , (2, 2, C) ,
{ (1, 1, B) , (1, 2, C) , (1, 3, A) , (2, 1, C) , (2, 2, A) ,
{ (1, 1, A) , (1, 2, A) , (1, 3, A) , (2, 1, B) , (2, 2, C) ,
{ (1, 1, B) , (1, 2, A) , (1, 3, C) , (2, 1, C) , (2, 2, B) ,
```

#### Sample output 1

```
{ (2, 1, B) , (2, 2, A) , (2, 3, C) , (3, 1, A) , (3, 2, B) , (3, 3, C) } ,
{ (2, 1, A) , (2, 2, C) , (2, 3, B) , (3, 1, B) , (3, 2, A) , (3, 3, C) } ,
{ (2, 1, B) , (2, 2, A) , (2, 3, C) , (3, 1, A) , (3, 2, B) , (3, 3, C) } ,
{ (2, 1, A) , (2, 2, C) , (2, 3, B) , (3, 1, B) , (3, 2, A) , (3, 3, C) } ,
{ (2, 1, B) , (2, 2, A) , (2, 3, C) , (3, 1, A) , (3, 2, B) , (3, 3, C) } ,
```

### Problem information

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Generation: 2026-01-25T15:03:19.573Z

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