Scanner

Proseminar SS25

01.07.2024

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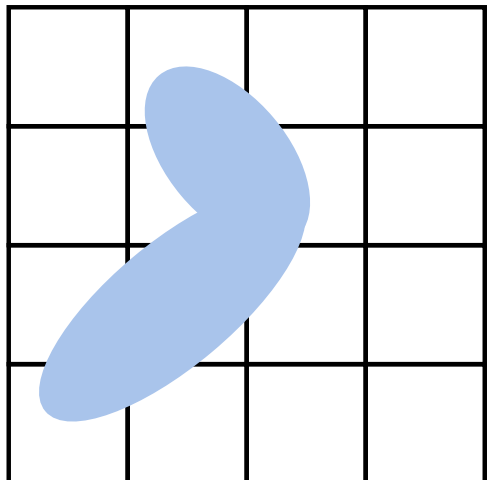
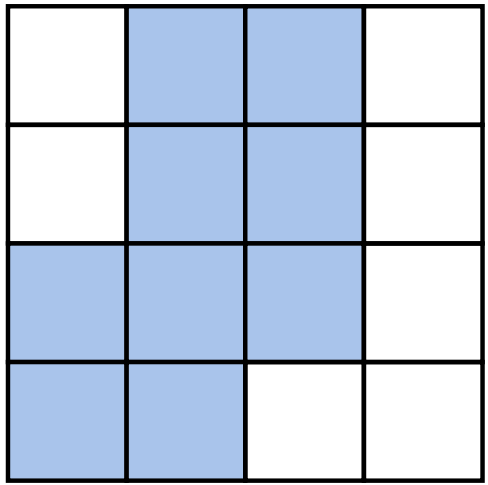
Contents

1 Problem Definition

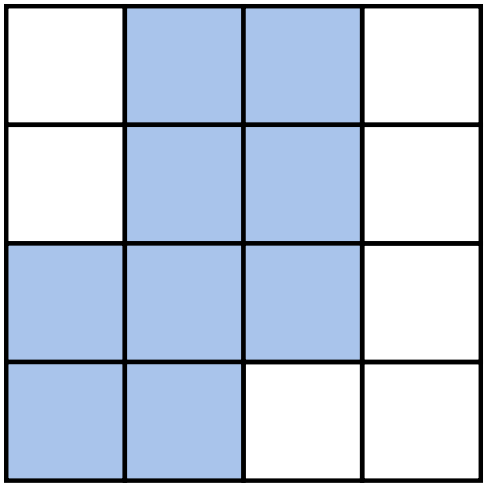
Result Matrix



Result Matrix



Result Matrix

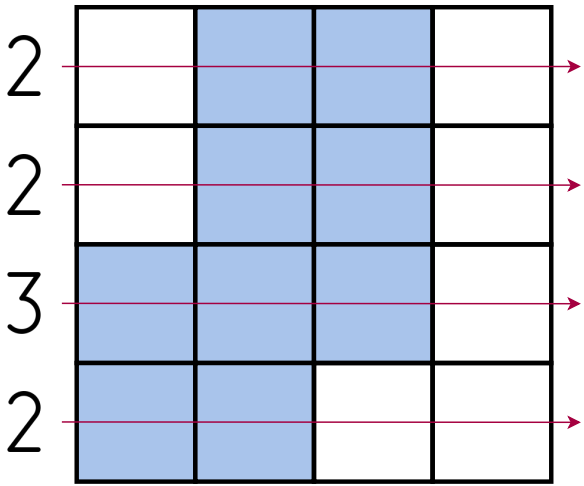


```
.##.
.##.
###.
##..
```

This is our actual output

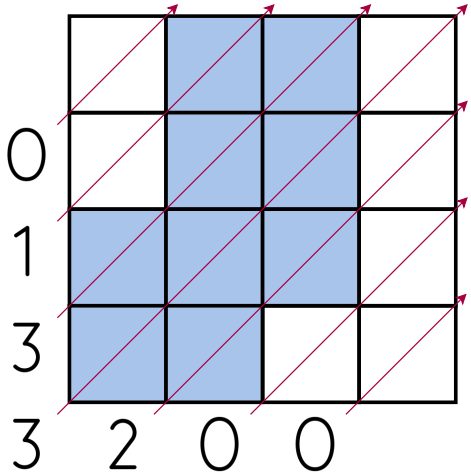
But what is our input?

Getting the input



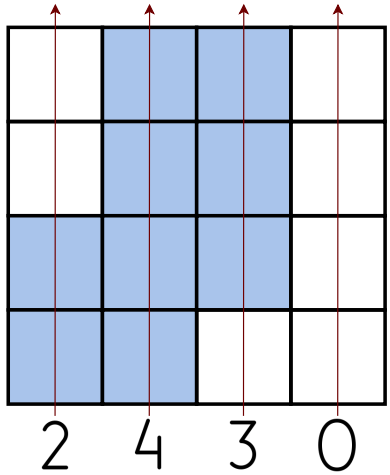

```
2 2 3 2
```

Getting the input



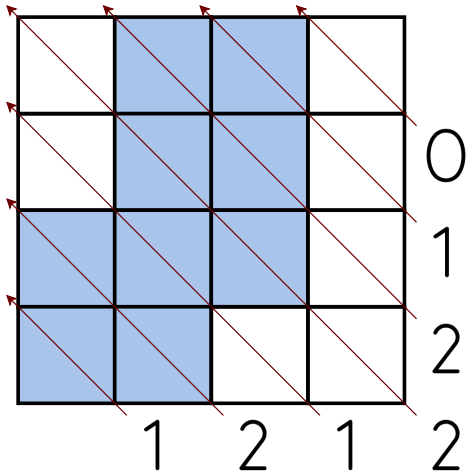

```
2 2 3 2
0 1 3 3 2 0 0
```

Getting the input




```
2 2 3 2
0 1 3 3 2 0 0
2 4 3 0
```

Getting the input




```
2 2 3 2
0 1 3 3 2 0 0
2 4 3 0
1 2 1 2 2 1 0
```

Getting the input

The number at the top represents the number of matrices that will follow.

In our case, it's just one.

```
1
2 2 3 2
0 1 3 3 2 0 0
2 4 3 0
1 2 1 2 2 1 0
```

And that's our input!

Live Demo

insert picture

2 Solution

Tools

- Python
- Numpy

Algorithm

yay