# **Reviewing Reviews**

Max. score: 100

This problem is no longer available for practice. Apology for any inconvenience!

Shopee has a feature that allows you to upload an image in your product reviews. However, one of the pertaining challenges is content moderation, such as checking if an image is offensive. Of course, we're not tasking you to create a full-blown image detection algorithm. Instead, we'll do something simpler.

Let's represent a black and white image I as a matrix of  $M \times N$ , containing values 0-255. An image is deemed offensive if it contains another smaller black and white image I' of size  $M' \times N'$  without any transformations. To rate the image, we will give it a score, determined by how many times I' appears in I.

#### Input

The first line contains four numbers  $M,\ N,\ M'$ , and  $N'\ (1\leq M,N\leq 1000,1\leq M'\leq M,1\leq N'\leq N)$ . The next M rows represent I, and each row contains N values  $x_{ij}\ (0\leq x_{ij}\leq 255,\ 1\leq i\leq M,\ 1\leq j\leq N)$ . Following that is another M' rows representing I', each containing N' values  $x'_{i'j'}\ \left(0\leq x'_{i'j'}\leq 255,\ 1\leq i'\leq M',\ 1\leq j'\leq N'\right)$ .

## Output

Output the offensive score of  ${\it I}$ .

```
SAMPLE INPUT

5 5 3 1
0 1 0 1 0
1 2 1 2 1
2 1 2 1
2 1 2 1
0 1 0 1 0
1
1
2 1 2 1
1
```

SAMPLE OUTPUT
7

### **Explanation**

#### NA

| Time Limit:        | 2.0 sec(s) for each input file.  |
|--------------------|--|
| Memory Limit:      | 256 MB   |
| Source Limit:      | 1024 KB  |
| Marking Scheme:    | Score is assigned when all the testcases pass.   |
| Allowed Languages: | Bash, C, C++, C++14, C++17, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, Java 14, JavaScript(Rhino), JavaScript(Node.js),    |
|                    | Julia, Kotlin, Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, Python 3.8, Racket, Ruby, Rust, Scala, |
|                    | Swift-4.1, Swift, TypeScript, Visual Basic   |