## Largest Non-Coprime Submatrix

Given a matrix you need to find the submatrix with the largest number of elements, where the GCD (Greatest Common Divisor) of its elements is greater than one. A submatrix of the matrix is a sub-section composed of contiguous rows and columns of the original matrix.

Input Two numbers $n, m$ in the first line. Followed by $n$ lines with $m$ numbers in each line.

## Constraints

$1<=N, M<=200$
$1<=$ numbers $<=10000$
Output Just a largest area where GCD is greater than 1 .

## Sample Input

```
3 3
2 8
4 3
6 9 4
```


## Sample Output

4

If you observe the following submatrix:

```
2 6
4
```

The GCD is 2 . There is no matrix larger than this with a GCD $>1$.

