

Problem Statement :

On a area, we set many points. We want to know where we need to position a rectangle to cover the maximum of points.

Input :

The first line, define the area size and the rectangle size, separated by a comma, like this : areaX areaY, rectX rectY

Next line are the points, define like pointX pointY

The input can contains multiple case to solve

Output :

We expect as output the position of the rectangle and how many points we get. The first line repeat the area and rectangle definition. The second line is the rectangle position and the count of point.

Sample :

X			X		
X	X				
				X	

We have a 6 x 4 area. We have 5 points on the area. If the rectangle is 2 x 1, it's best position is x: 0, y : 2, containing 2 points

Sample Input

6 4, 2 1

0 0

0 2

1 2

3 0

4 3

Sample Output

6 4, 2 1

0 2, 2