Birds

Birds living in a forest have their own rectangular area around their nest for feeding and mating. Such an area is called a *territory*. If territories of two birds intersect, the birds may start a fight. Develop a console application in C# which can determine

- birds with non-intersecting territories,
- the most dangerous place where the maximal number of territories intersect,
- places that do not belong to any bird.

The data of the birds are stored in the file `birds.in`. In its first line there is the number of birds *N* and the dimensions of the forest. The next *N* lines are the positions of nests and the radii of territories separated by semicolons. For example, if bird *i* has its nest at (x_i, y_i) and its territory has radius *r* then the top-left corner of its territory is at ($x_i - r$, $y_i - r$) while the bottom-right corner is at ($x_i + r$, $y_i + r$). Positions that are out of the forest can be ignored.

Put the answers for the three questions into the file `birds.out`. The first line of this file should store the indexes of non-fighting birds, the second line the co-cordinates of the most dangerous place and the number of intersecting territories, finally the third line should store the number of empty places. Also, design and implement a nice-looking user interface for the application using console graphics.

Use object-oriented programming for both desing and implementation!

Example.

birds.in

```
5;10
3;3;1
10;3;5
5;5;2
1;9;1
2;5;1
```

birds.out

```
4
3;3;4
26
```

			5	5	5		4	**4**	4
	1	1	15	**5**	5		4	4	4
	1	**1**3	135	35	35	3			
	1	13	13	3	3	3			
2	2	23	23	2**3**	23	23	2		
2	2	23	23	23	23	2	2		
2	2	23	23	23	23	2	2		
2	2	2	2	2	2	2	2		
2	2	2	2	2	2	2	2		
2	2	**2**	2	2	2	2	2		