

Grid snapping

Task: For geometric algorithms, it is often helpful to discretize input points. In this task, we consider a standard grid in \mathbb{R}^2 . Given the grid width and a set of points, compute the lower left corner of the grid cell that each point falls into.

Input: The first line contains the number of points n , which is at most 100. The second line contains the grid width with two positions after the point. The coordinates are between -10000 and 10000 . The following n lines each contain a point, consisting of two floating point numbers with two positions after the point, separated by a space.

Output: A line for each input point, containing the lower left corner of the grid cell that it falls into, with two positions after the point.

Sample Input:

```
3
0.75
0.00 0.00
-0.75 0.00
1.00 2.15
```

Sample Output:

```
0.00 0.00
-0.75 0.00
0.75 1.50
```