

Area of Intersection of Polygons

You are given several simple polygons. Approximate the size of the area where all these polygons intersect.

Input: The first line of the input contains the number of polygons n . Then n lines follow. Each line i starts with the number of corners k_i of polygon i followed by k_i pairs of numbers a_{i,k_i} , b_{i,k_i} that describe the coordinates of each corner. The polygon is constructed by connecting consecutive corners by lines and connecting the last corner to the first corner by a line.

You can assume that the coordinates of the corners are integers, and that it holds true that $0 \leq a_{i,k_i}, b_{i,k_i} \leq 10$.

Output: The size of the area where all n polygons intersect with a rounding error of at most 0.05.

Sample Input:

```
2
4 1 1 4 1 4 4 1 4
3 2 0 6 0 4 2
```

Sample Output:

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0.5
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