## 12426 Counting Triangles

You are given a convex polygon of $N$ vertices. Find how many ways three vertices can be chosen such that the triangle formed by those has an area not more than $K$.

## Input

The first line of input contains $T$ which is the number of tests cases. Each case contains two integers $N$ and $K$. Each of the next $N$ lines will contain two integers: $x_{i} y_{i}$ denoting $i$-th vertex of the polygon. The vertices will be given in anti-clockwise order.

## Output

For each test case output one line the number of ways to choose a triangle from the vertices of the convex polygon whose area is not more than $K$.

## Sample Input

1
530
-5 -5
-2 -10
30
17
$-24$

## Sample Output

7

