

... ding! Time's up. The answer is 29.

Given at most 10 line segments, you are to **write a program** that counts the number of triangles bounded by them. Note that three colinear points do **not** make a triangle.

## Input

Input consists of several test cases. Each case begins with a line containing an integer N ( $3 \le N \le 10$ ). The following N lines each gives four integers,  $x_1$ ,  $y_1$ ,  $x_2$  and  $y_2$ , meaning that you draw a straight line segment from  $(x_1, y_1)$  to  $(x_2, y_2)$ . All the coordinates given have their absolute values no greater than 100.

Input is terminated by EOF.

## Output

For each case, output the number of triangles bounded by the N lines.

## **Sample Input**

## Sample Output