Special Triangle

Input: • n is the no of lines.

• x_1, y_1 & x_2, y_2 are two ashitary coordinate of the straigth line xy.

• There ~~the~~ are n no of such co-ordinates

Algorithm

1. Calculate slope for individual straight line.

Ex: $s_1, s_2, s_3 \cdots s_n$

2. if $s_1 \neq s_2 \neq s_3 \neq \cdots \neq s_n$.

then no of special triangle : n

3. if $s_1 = s_2$ & $s_2 \neq s_3 \neq s_4 \cdots \neq s_n$

then no of special triangle : $(n-1)$

4. if $s_1 = s_2 = s_3$ & $s_3 \neq s_4 \neq \cdots s_n$

then no of special triangle : $(n-2)$

5. if ~~maximum~~ minimum 3 slopes are not equal to each other then no of special triangle : 0

for n=3

if $s_1 \neq s_2 \neq s_3$ no of special triangle : 1

else no of special triangle : 0

for n=4

if $s_1 \neq s_2 \neq s_3 \neq s_4$

no of triangle : 2

else if $s_1 \neq s_2 \neq s_3 = s_4$

no of triangle : 1

else no of triangle : 0