Given a set of points (X1, Y1), (X2, Y2), …, (Xn, Yn), find a line Y=aX+b, or X=a that passes most points. Write a program **as efficient as possible**, and discuss the complexity.

Your input will be a **file** containing the n points. Your output will be the **line equation and number of points it passes**. If there are multiple solutions which result in same number of passed points, you only need to provide one solution. Your program will be graded by its **correctness and efficiency**. Program that does not produce correct output for the given samples would not be graded.

Your program is required to be run as following. The output should be written to **console**.

Java: java FindLine <input file name>

C++: ./FindLine <input file name>

**Sample file input 1:**

4

(1,2)

(2,3)

(3,4)

(100,100)

**Sample output 1:**

Y=x+1, 3

**Sample file input 2:**

4

(0,1)

(0,2)

(0,3)

(100,100)

**Sample output 2:**

X=0, 3