Time series data

Sensitivity analysis

Which variables are important?

Book – Cracking the Coding Interview

Data structures

Algorithms

Concepts

**Best Line**

2D Graph

Line through most number of points

Assumptions:

positive numbers

no overlap (concide)

Can shift linear transition in quadrant

Tuples?

List of tuples

Get first point?

If we draw line thru each two points

Line is two points

y = mx + b

i = 1 … n

p1 -> p2

p2.. pn

or slope first?

Then check longest line

Algorithm

Pts = [(4,5), (9,6)….]

For i in range (len(pts))

Pt1 = pt(i)

For j in range (1, len(pts))

Solution m & b

Pts = [(4,5), (9,6)….]

y1 x1

y2 = m x2 + b

y3 x3

identity matrix

scalar vector

times the inverse

Solution:

O(n2)

Hash table

Values of the tuples

Access the value of tuple?

**Pond Level**

Assumptions

2d array

Need list of list = list[[list]]

Like mine sweeper algorithm

Identification of ponds

Then dict

Tips:

Greedy algorithm

Recursion

O(n2)