

Process of Interviews

1st Round → DSA coding Round + MCQ's (500 students)
(Amazon, Google, facebook) (2 problems) (Easy - Moderate)

Data Science → Dataframe
↳ fractal ↳ Train model
(Tier 2 or Tier 3) > 80% { ↳ classification
↳ Submit ↳ Regression

2nd Round → DSA (Technical Aspects)
(45 mins) ↳ fundamentals → **courses**

Interview Questions

85-90%

↳ Easy → Medium → Hard

↳ leetcode

↳ Easy + Medium

System Design

End to End Pipeline

3rd Round → { DSA Questions
+
Basic Data Science

Industry Projects

4th Round → Projects → fundamentals
→ Real time Projects

5th Round → Behavioral Round

(4-6)

6th Round → 4R Round

1) Google → Easy → $\left\{ \begin{array}{l} \underline{(x_1, y_1) = (1, 6)} \\ \underline{(x_2, y_2) = (1, 0)} \\ \underline{(x_3, y_3) = (1, 9)} \end{array} \right\} \begin{array}{l} p_1 \\ p_2 \\ p_3 \end{array}$

collinear or not??

slope

↳ Exception

Approach - 1

$$\left\{ \frac{y_2 - y_1}{x_2 - x_1} \stackrel{=}{=} \frac{y_3 - y_2}{x_3 - x_2} \right\}$$

condition



$$\underline{(y_2 - y_1) * (x_3 - x_2)} = \underline{(x_2 - x_1) * (y_3 - y_2)}$$

LHS **RHS**

Approach - 2 → area of Δ

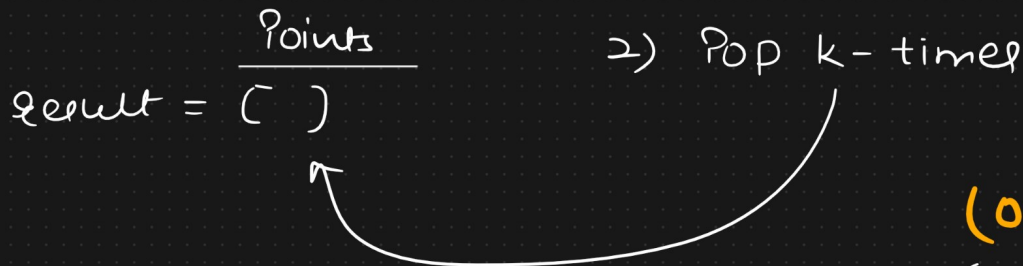
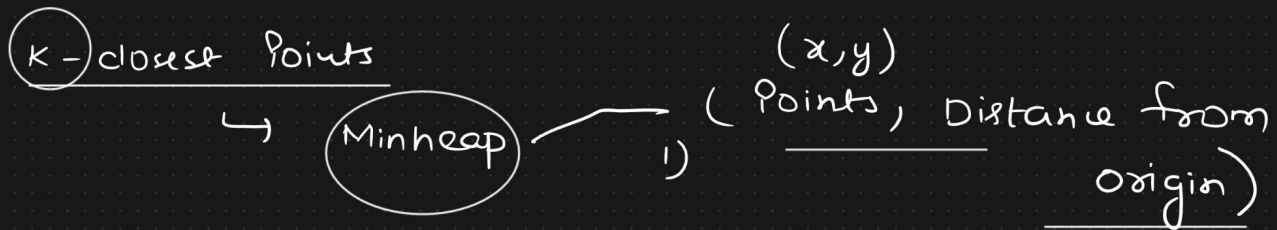
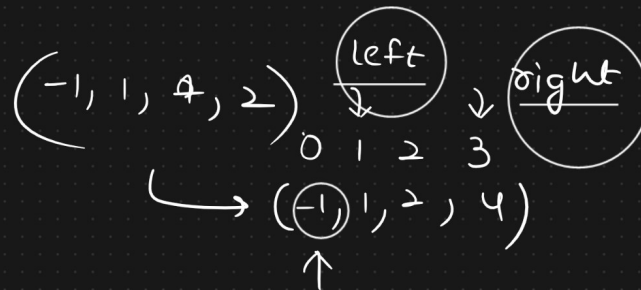
collinear → area of triangle = 0

$$\underline{\text{area} = \frac{1}{2} (x_1 * (y_2 - y_3) + x_2 * (y_3 - y_1) + x_3 * (y_1 - y_2))}$$

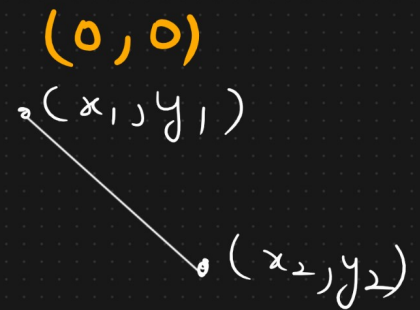
$\left\{ \begin{array}{l} \text{if } \text{area} == 0: \\ \quad \text{Print ('Yes')} \\ \\ \text{else:} \\ \quad \text{Print ('No')} \end{array} \right.$

2) Amazon

Featured Products

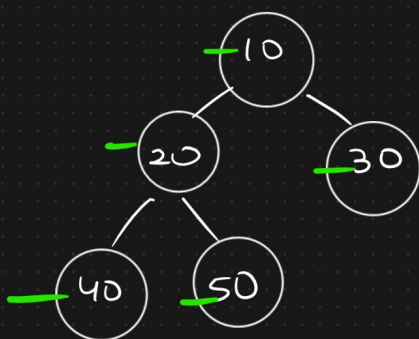


Euclidean's Distance

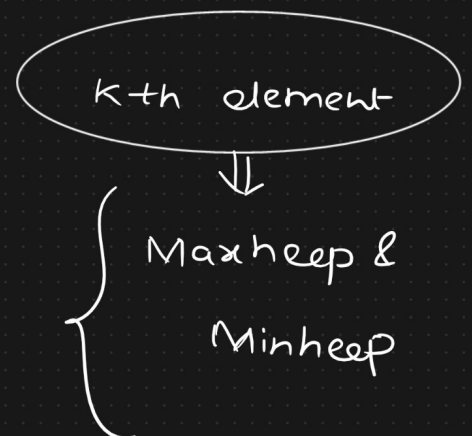


$$\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$\Rightarrow \sqrt{x_2^2 + y_2^2}$$



Maxheap



{ Personal Branding
↳ Binary vs Ternary search
↳ Notel