

2D list problems:

$l = \underbrace{[1, 2, 5]}_0, \underbrace{[5, 6]}_1$

$l[i] = [5, 6]$

$l[i][0] = 5$

$\text{len}(l) = 2$

Agenda:

★ No session on Sunday :>

- ⇒ lots of questions today.
- ⇒ Solve a problem like we do in assignments. (the format)
- ⇒ How to solve/approach question

$$\text{Sachin} = \begin{bmatrix} [1, 2, 3], \\ [4, 5, 6], \\ [2, 0, 2] \end{bmatrix}$$

Size of
Sachin lists
is same

$$\text{Ganguly} = \begin{bmatrix} [2, 5, 0], \\ [1, 0, 2], \\ [5, 2, 1] \end{bmatrix}$$

$$\Rightarrow \text{Indexes : } \begin{array}{l} \text{Sachin}[0][0] + \text{Ganguly}[0][0] \\ \text{Sachin}[0][1] + \text{Ganguly}[0][1] \\ \text{Sachin}[0][2] + \text{Ganguly}[0][2] \end{array}$$

$$\begin{array}{l} \text{Sachin}[1][0] + \text{Ganguly}[1][0] \\ \text{Sachin}[1][1] + \text{Ganguly}[1][1] \\ \text{Sachin}[1][2] + \text{Ganguly}[1][2] \end{array}$$

$$\begin{array}{l} \text{Sachin}[2][0] + \text{Ganguly}[2][0] \\ \text{Sachin}[2][1] + \text{Ganguly}[2][1] \\ \text{Sachin}[2][2] + \text{Ganguly}[2][2] \end{array}$$

* Identity Matrix :

$$A = \begin{bmatrix} [1, 1], \\ [0, 1] \end{bmatrix}$$

(0,0), (1,1)

No

- ⇒
- i) Diagonal elements should be 1
 - ii) All other elements should be 0

⇒ for diagonal element $i == j$

⇒ $A = \begin{bmatrix} \overset{00}{1}, 0, 0, \\ 0, \overset{11}{1}, 0, \\ 0, 0, \overset{22}{1} \end{bmatrix}$

⇒ Yes, it is identity matrix