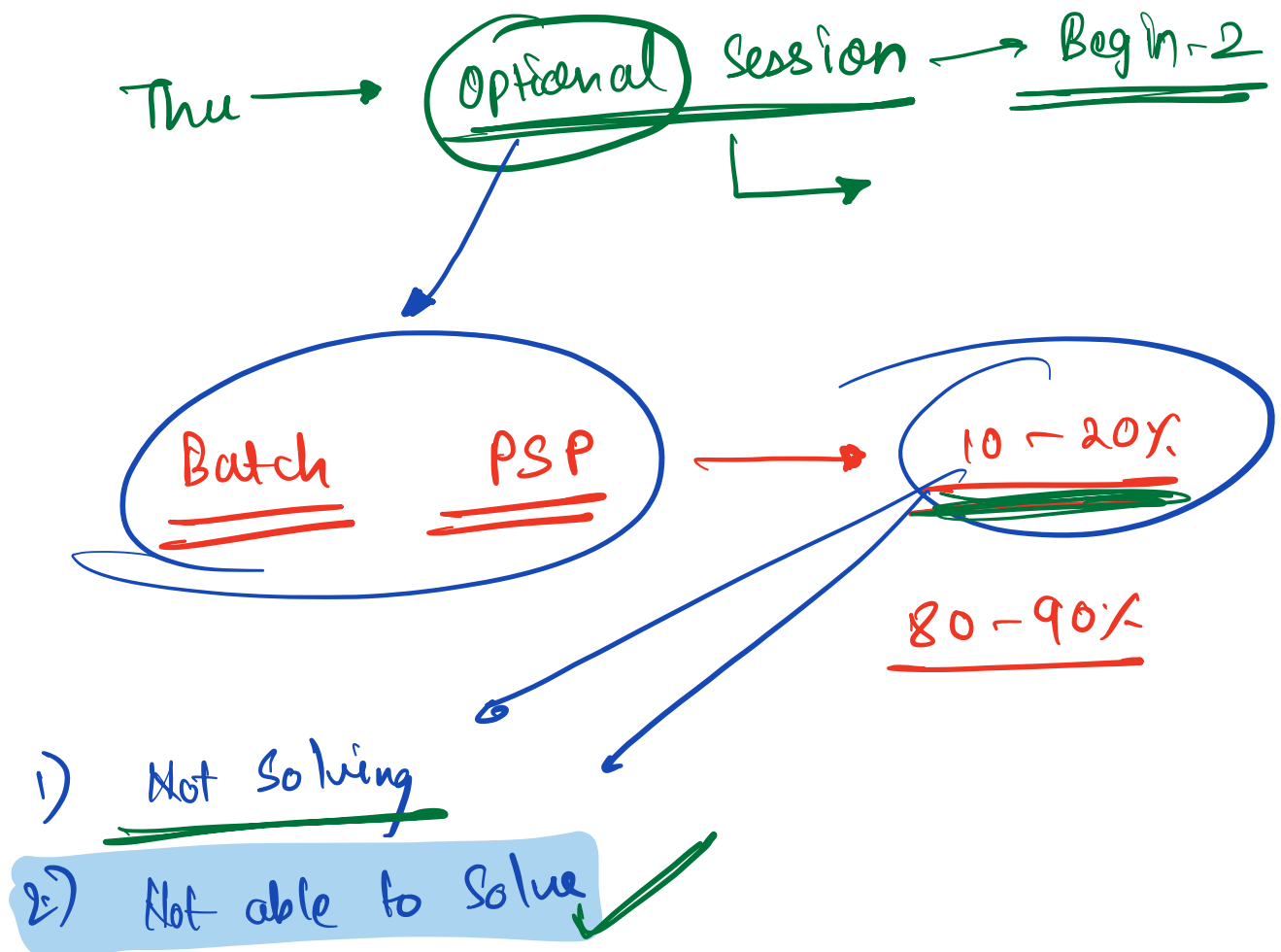


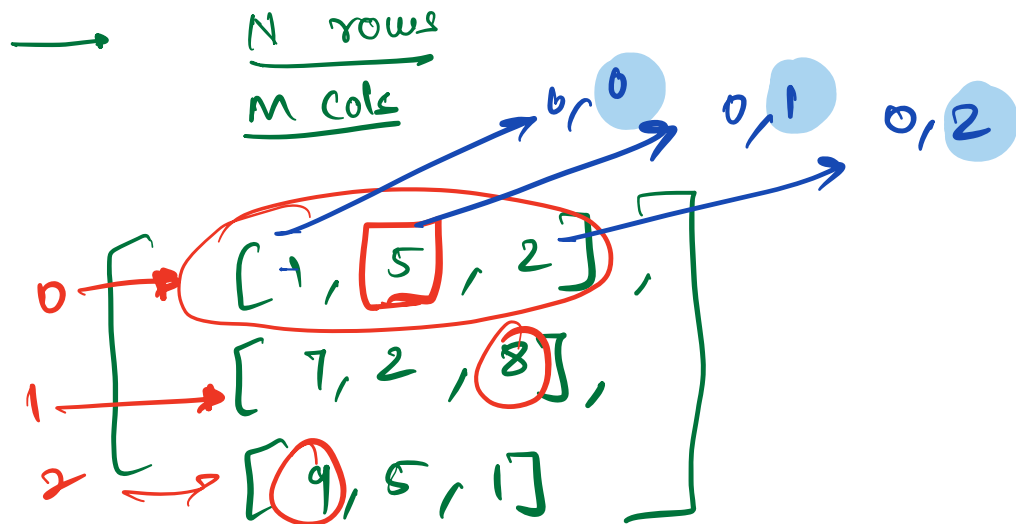
"Hello Everyone!"

## Problem Solving



(Q.5)  $\longrightarrow$  Lists 2D :

Largest in each Row of a 2D Array



0 1 2  
↓  
o/p: [5, 8, 9]

---

$a = [8, 9, 15, 20, 2]$

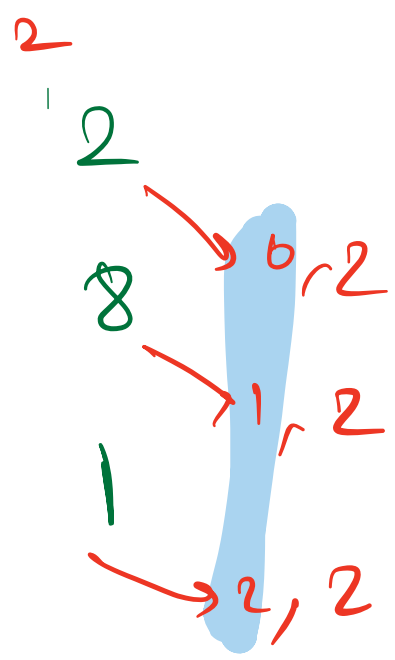
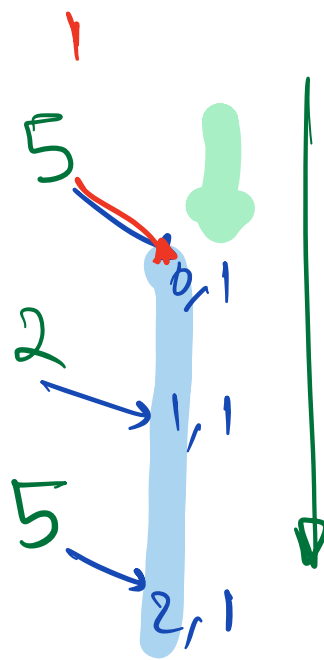
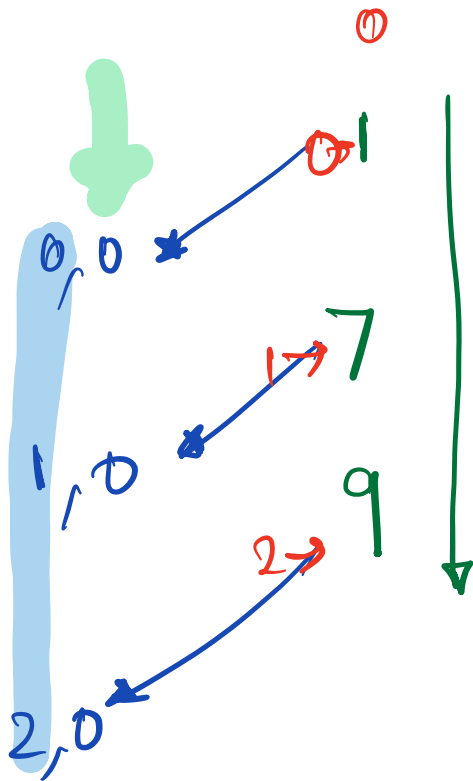
$\max = a[0]$

Column-wise max:

$a = \begin{bmatrix} [1, 5, 2] \\ [7, 2, 8] \\ [9, 5, 1] \end{bmatrix}$

---

$ans = [9, 5, 8]$



$0,0$      $1,0$      $2,0$      $0,1$   
 $1$      $7$      $9$

		0	1	2	3
0	[	1	5	2	9]
1	[	1	2	8	1]
2	[	9	5	1	8]
	]				

fix = col

change = row

$r \rightarrow 3$

$c \rightarrow 4$

```

for i in range(3):
    for j in range(4):
        print a(j)(i)
  
```

Annotations:   
 - Above the first loop: [0, 1, 2]   
 - Above the second loop: [0, 1, 2, 3]   
 - Below the function call:  $\leftarrow r, c$

0, 0  
1, 0  
2, 0

$(3, 0)$   
index out of range

$a = [1, 7, 9, 2]$

$\text{max\_e} = a[0] = 1$

for  $i$  in range(4)

$\text{max\_e} = \max(\text{max\_e}, a[i])$

$\text{max\_e}$

↓

1

~~7~~

~~9~~

9

$= \max(1, 1) \rightarrow$

$\text{max\_e} = \max(1, 7)$

$= \max(7, 9)$

$\text{max\_e}$

$= \max(9, 2)$

9

Q3 :: Any Base mul :: P Solving 4  $\rightarrow$  Q4

$$\begin{array}{l} A = 3 \\ B = 11 \\ C = 10 \end{array}$$

$$\frac{11 \times 10}{\text{decimal}}$$

Logic:-

$$(B)_A \longrightarrow (B)_{10}$$

$$(C)_A \longrightarrow (C)_{10}$$

$$(11)_3 \longrightarrow ( \text{?} )_{10}$$

$$\begin{array}{c}
 1^1 \quad 1^0 \\
 \swarrow \quad \searrow \\
 \textcircled{1 \times 3^1 + 1 \times 3^0} = (3 + 1)
 \end{array}$$

$$= \underline{(4)}_{10}$$

$$(10)_3 \longrightarrow (3)_{10}$$

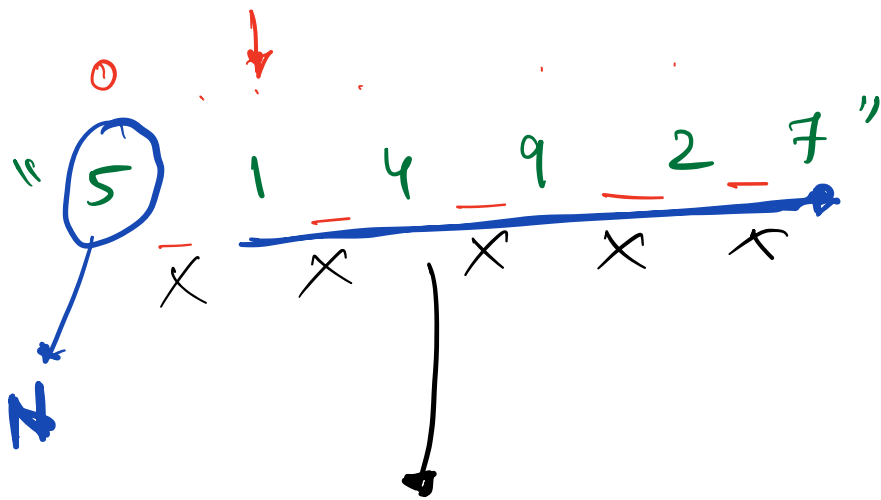
$$\begin{array}{c}
 4 \times 3 \\
 \text{\scriptsize 10} \quad \text{\scriptsize 10}
 \end{array}
 \longrightarrow \textcircled{(12)_{10}}$$

$$\begin{array}{r}
 3 \overline{) 12} \\
 3 \overline{) 4} \\
 3 \overline{) 1} \\
 \hline
 0
 \end{array}$$

$$\begin{array}{c}
 0 \\
 1 \\
 1
 \end{array}
 \uparrow$$

$$\textcircled{110}$$





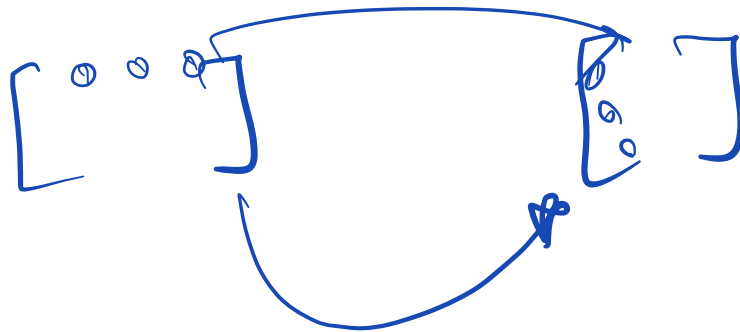
`ip.split()`

`["5", "1", "4", "9", "2", "7"]`  
`int("5")`  
`int`

→ [5, 1, 4, 9, 2, 7]  
↑  
a[1:]

H.W → Reach about  
matrix multiplication

---



(Q.2) → sets & Tuple



Solve after clear with  
details of mutable/immutable



top =

Intermediate

