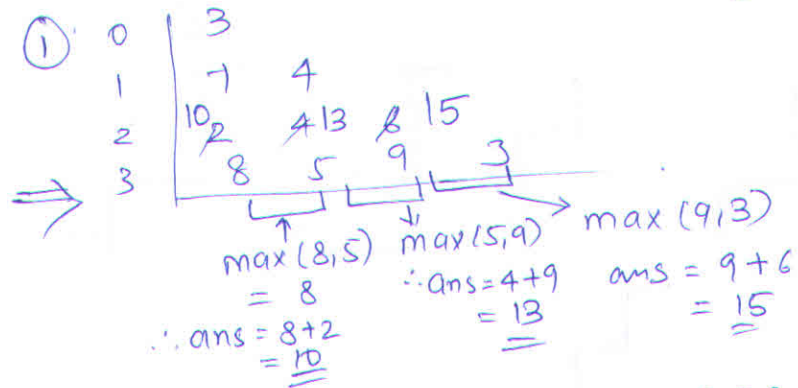


Maximum Path Sum I

$$a[i][j] = \begin{array}{c|cccc} & 0 & 1 & 2 & 3 \\ \hline 0 & 3 & & & \\ 1 & 7 & 4 & & \\ 2 & 2 & 4 & 6 & \\ 3 & 8 & 5 & 9 & 3 \\ \hline & 0 & 1 & 2 & 3 \end{array}$$

→ Start from bottom,
 answer of a cell is = Cell's value
 + Max (total of cell down and to the
 left)
OR max (total of cell down & to
 the right)



②

$\max(8, 5) = 8$
 $\therefore \text{ans} = 8 + 2 = 10$
 $\max(10, 13) = 13$
 $\therefore \text{ans} = 13 + 7 = 20$
 $\max(20, 19) = 20$
 $\therefore \text{ans} = 20 + 3 = 23$

$[2][0], [2][1] \mid [2][2], [2][3]$
 $\max(10, 13)$
 $\text{ans} = 13 + 7$
 $= 20$

③

$\max(8, 5) = 8$
 $\therefore \text{ans} = 8 + 2 = 10$
 $\max(10, 13) = 13$
 $\therefore \text{ans} = 13 + 7 = 20$
 $\max(20, 19) = 20$
 $\therefore \text{ans} = 20 + 3 = 23$

$[1][0], [1][1]$
 $\max(20, 19)$
 $\text{ans} = 20 + 3$
 $= 23$