



$$3 \rightarrow 5 \rightarrow 7 \rightarrow 4 \rightarrow 13 \rightarrow 3 \rightarrow 1 = 38$$

$$L = \begin{matrix} \text{NULL} & \text{NULL} & \text{NULL} \\ -1 & 23 & 27 \\ 34 & 37 & 38 \end{matrix}$$

$$R = \begin{matrix} \text{NULL} & \text{NULL} & \text{NULL} \\ 30 & 34 & 19 \\ 41 & 37 & 20 \end{matrix}$$

$$A = \begin{matrix} 3 & 8 & 15 \\ 30 & 34 & 27 \\ 41 & 37 & 38 \end{matrix}$$

← we get 38

$$L[i,j] = \max(A[i-1,j], L[i,j-1]) + v[i,j]$$

$$R[i,j] = \max(A[i-1,j], R[i,j+1]) + v[i,j]$$

$$A[i,j] = \max(A[i-1,j], L[i,j-1], R[i,j+1]) + v[i,j]$$