

## Additional Problems

B = [2,5]

$$\Rightarrow A = \begin{bmatrix} [2, 3], [6, 9] \end{bmatrix}$$

$$A = \begin{bmatrix} \begin{bmatrix} 2 \\ 3 \end{bmatrix}, \begin{bmatrix} 4 \\ 9 \end{bmatrix}, \begin{bmatrix} 10 \\ 13 \end{bmatrix}, \begin{bmatrix} 18 \\ 20 \end{bmatrix} \end{bmatrix}$$
 $B = \begin{bmatrix} 0 \\ 2 \end{bmatrix}, \begin{bmatrix} 15 \\ 17 \end{bmatrix}, \begin{bmatrix} -2 \\ 7 \end{bmatrix}, \begin{bmatrix} 2 \\ 3 \end{bmatrix}$ 

i) moxCstcrt) > minCEnd) => no possibility of merge

Ly negate this condition to find the index where the

first merge occurs

ii) until we meet the above condition, we can safely keep on adding the intervals from original list to answer list