

[MAP REDUCE]

4 MAPPERS
2 REDUCERS

QUESTION 3

$$\begin{bmatrix} 5 & -3 & 3 & 7 \\ 4 & 2 & -8 & 6 \end{bmatrix} \begin{bmatrix} 3 \\ 7 \\ -9 \\ 2 \end{bmatrix}$$

Row Column

MAPPER :

$$\begin{array}{l} \left\{ \begin{array}{l} (1, 1), 5 \\ (1, 2), -3 \\ (1, 3), 3 \\ (1, 4), 7 \end{array} \right\} \quad \begin{array}{l} (1, 15) \\ (1, -21) \\ (1, -27) \\ (1, 14) \end{array} \\ \left\{ \begin{array}{l} (2, 1), 4 \\ (2, 2), 2 \\ (2, 3), -8 \\ (2, 4), 6 \end{array} \right\} \quad \begin{array}{l} (2, 12) \\ (2, 14) \\ (2, +72) \\ (2, 12) \end{array} \end{array}$$

REDUCER 1 :

$$15 - 21 - 27 + 14 = (1, -19)$$

REDUCER 2 :

$$12 + 14 + 72 + 12 = (2, 110)$$