

// Muhammad Ammar

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① (b). Cost of Multiplication.

Since, each element in the Resultant matrix of two multiplied matrices, obtains by the ^{sum of} multiplication of Column of M_1 and Row of M_2 . So, Total Calculations will be : $M_1 [\text{Column}] \text{ or } M_2 [\text{Rows}]$ for 1-element. So the formula becomes,

$$\begin{aligned} \text{Cost} &: M_1 [\text{Rows}] \times M_1 [\text{Column}] \times M_2 [\text{Column}] \\ &: 120 \times 40 \times 220 \\ &: 1,056,000 \text{ Calculations.} \end{aligned}$$