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Exercise 1. Using matrix operations, write up the code to calculate a given problem.

$$\begin{pmatrix} 1 & 0 & 0 & 1 & 0 & 0 & 2 & 2 & 2 & 1 & 1 & 1 \\ 0 & 1 & 0 + 0 & 1 & 0 + 2 & 2 & 2 - 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 1 & 2 & 2 & 2 & 0 & 0 & 0 \end{pmatrix} \times \begin{matrix} 1 & 1 \\ 1 & 1 \\ 1 & 1 \end{matrix}$$

Expected Answer:

Hint: You can initialize a small matrix manually as follows.

$$\begin{array}{cccc} 1 & 1 & 1 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$$

=>Mat term3 = (Mat_<float>(matrixSize1) << 1, 1, 1, 0, 0, 0, 0, 0, 0);