

The first picture is combined file that consist of

1) matrixmultiplication.cpp - it was the class (location on the right)

matrixmultiplication.h - it was the classfile (location on the middle)

3) testmatrixmultiplication.cpp - it was the test file (location on the left)

then the second picture was the continued code from the previous file.

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C:\Command Prompt

C:\Users\Debby\Documents\cpp\MatrixMult>u
Enter rows of matrix: 3
Enter columns of matrix: 4
Enter matrix A (3x4):
Element [0][0]: 1
Element [0][0]: 1
Element [0][0]: 3
Element [0][2]: 3
Element [0][3]: 4
Element [0][3]: 4
Element [1][0]: 5
Element [1][0]: 5
Element [1][1]: 6
Element [1][2]: 7
Element [1][2]: 7
Element [2][0]: 9
Element [2][1]: 7
Element [2][2]: 2
Element [2][3]: 2
Enter matrix B (4x3):
Element [0][0]: 1
Element [0][0]: 1
Element [0][0]: 1
Element [0][1]: 5
Element [0][1]: 7
Element [0][2]: 1
Element [0][2]: 1
Element [1][2]: 2
Element [1][2]: 2
Element [2][2]: 4
Element [2][2]: 5
Element [2][2]: 4
Element [2][2]: 5
Element [2][2]: 4
Element [2][2]: 4
Element [2][2]: 4
Element [2][2]: 4
Element [2][2]: 5
Element [2][2]: 4
Element [2][2]: 5
Enter matrix A
Element [2][2]: 6
Element [2][2]: 7
Enter matrix A
Element [2][2]: 7
Enter matrix A
Element [2][2]: 7
Enter matrix A
Element [2][2]: 7
Enter matrix B
Element [2][0]: 9
Element [2][0]: 9
Enter matrix B
Element [2][0]: 9
Enter matrix
```

Then the 3&4 picture shows the code that was already compiled it into command prompt.

Matrix A
$$\begin{pmatrix} 1 & 2 & 3 & 4 \\ 5 & 6 & 7 & 8 \\ 9 & 7 & 2 & 2 \end{pmatrix}$$
 matrix multiplication:

Matrix B $\begin{pmatrix} 1 & 3 & 4 \\ 5 & 6 & 7 \\ 1 & 2 & 4 \\ 6 & 7 & 8 \end{pmatrix}$ $\begin{pmatrix} 38 & 49 & 62 \\ 90 & 121 & 154 \\ 58 & 87 & 109 \end{pmatrix}$