Lab Project
Saturday, October 20 12

Implement a program that multiplies a matrix times a vector.

$$\begin{bmatrix} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{12} & a_{13} \\ a_{31} & a_{32} & a_{33} \end{bmatrix} \cdot \begin{bmatrix} b_{11} \\ b_{21} \\ b_{31} \end{bmatrix} =$$

$$\begin{bmatrix} a_{11}b_{11} + a_{12}b_{21} + a_{13}b_{31} \\ a_{21}b_{11} + a_{22}b_{21} + a_{23}b_{31} \end{bmatrix} = \begin{bmatrix} c_{11} \\ c_{21} \\ c_{31} \end{bmatrix}$$

$$\begin{bmatrix} a_{11}b_{11} + a_{22}b_{21} + a_{33}b_{31} \\ c_{31} \end{bmatrix} = \begin{bmatrix} c_{11} \\ c_{21} \\ c_{31} \end{bmatrix}$$

- Matrix and vector definet in code.

- Extra points.

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- reat ma hix, vector pour file.
- Use of classes.
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| loat reat [3][3] = { 1,2,3 - - - - > };
| loat row M[3]
| qetrow (int row) {
| (row = mat (sow):);
| for (i=o; i \(\)

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