

Math. 104 - Finite Mathematics
Tuesday, November 25, 1997

NAME _____

Write your birthday as a 3x1 matrix as follows:

$$\begin{pmatrix} \text{mo} \\ \text{day} \\ \text{yr} \end{pmatrix}$$

(use two digits for the year.) Now compute the 3x1 matrix

$$\begin{pmatrix} 2 & 1 & -1 \\ 1 & 2 & -1 \\ 1 & -1 & 2 \end{pmatrix} \times \begin{pmatrix} \text{mo} \\ \text{day} \\ \text{yr} \end{pmatrix}$$

Answer $\begin{pmatrix} \text{---} \\ \text{---} \\ \text{---} \end{pmatrix}$

(This is an example of secret coding, anyone who knows what 3x3 matrix you used can recover your birthday from the 3x1 matrix you computed.)

Happy



Day!