$$(2+2+3+\cdots+n^2=\frac{h(n+1)(2n+1)}{b}$$

Operation counts:

$$\frac{2}{3}n^3 + \frac{1}{2}n^2 - \frac{7}{7}n$$
 operations.

$$\begin{bmatrix} a_{11} & a_{12} & \cdots & a_{m} & b_{1} \\ o & a_{21} & \cdots & a_{m} & b_{21} \\ \vdots & \vdots & \ddots & \vdots \\ o & o & \cdots & a_{n} & b_{n} \end{bmatrix} \xrightarrow{A_{1}} \begin{bmatrix} x_{1} \\ x_{2} \\ \vdots \\ x_{n} \end{bmatrix}$$

$$n = \frac{bn}{a_{nn}}$$
 operations

$$\chi_{rr2} = \frac{b_{rr2} - a_{rr2, rr} \chi_{rr2}}{a_{rr2, rr2}} = \frac{b_{rr2} - a_{rr2, rr} \chi_{rr2}}{a_{rr2, rr2}} = \frac{3}{3}$$

$$\frac{1}{\lambda_{1}} = \frac{b_{1} - a_{12} \gamma_{2} - \dots - a_{1n} \gamma_{2n}}{a_{11}} \quad 2(h-1) + 1$$

$$|+3+5+\cdots+2(n-1)+|=\frac{(|+2(n-1)+|)\cdot n}{2}=n^2.$$

back substitution :
$$n^2$$
 $O(n^2)$

Gaussian Elimination:
$$\frac{2}{3}n^3 + \frac{1}{2}n^2 - \frac{7}{5}n + n^2$$
 $D(n^3)$.