6.6~#2

Let

$$Lu = -\sum_{i,j=1}^{n} (a^{ij}u_{x_i})_{x_j} + cu.$$

Prove that there exists a constant  $\mu > 0$  such that the corresponding bilinear form B[, ] satisfies the hypotheses of Lax-Milgram Theorem, provided

$$c(x) \ge -\mu \qquad (x \in U).$$