1. Read Chapters 1 and 2 of Pratap. Work through Lessons 1-6 in Chapter 2 and do the exercises at the end of each Lesson at your own pace and for your own edification.

2. Read Chapter 3 (Section 3.6 not needed to complete workset).

3. Do Exercises 1 to 8 on Pages 82 and 83.

4. Consider the following Leslie Matrix:

   \[
   L = \begin{pmatrix}
   0 & 0 & b_1 & b_2 \\
   0.5 & 0 & 0 & 0 \\
   0 & 0.8 & 0 & 0 \\
   0 & 0 & 0.7 & s
   \end{pmatrix}
   \]

   Calculate the eigenvalues, the eigenvectors, and the quantities \( L^n \) for the following cases:
   
   a) for the two cases \( b_1=0, s=0 \) and (i) \( b_2=3.3 \), (ii) \( b_2=3.9 \), both with \( n=13,\ldots,20 \).
   
   b) \( b_1=0.6, s=0, b_2=3 \), with \( n=10,20,30 \).
   
   c) \( b_1=0, s=0.5, b_2=2 \), with \( n=10,20,30 \).

   What observations do you have regarding the solutions in the four cases considered?