Please put away all electronic devices. This sheet will be collected but not assessed. The professor will look at the second page but will ignore the first page.

**Forgiveness** (adapted from PositivePsychology.com). Seligman & Csikszentmihalyi (2000) identified forgiveness as a key positive individual trait. Indeed, several studies indicate that individuals with a propensity for forgiveness show signs of better physical and psychological health. For instance, Berry, Worthington, O’Connor, Parrott, & Wade (2005) found that forgiveness had beneficial effects on systolic blood pressure, diastolic blood pressure, and mean arterial pressure.

Think of a story of when somebody (not you) forgave someone else. This story could come from a fictionalized source (book, movie, etc.) or from reality (a biography you read, someone you know, or similar). Write down how the individual may have benefitted from the act of forgiveness.

Now think about a time when you forgave someone (or think about a specific opportunity in your life to forgive someone). Write down the benefits you experienced (or might experience).

LU decomposition is…

1. An O(n2) method for solving Ax = b
2. An O(n4) method for solving Ax = b
3. A way to tabulate the steps of Gaussian elimination
4. An efficient iterative method for solving Ax = b

Answer:

Find the LU decomposition of

Answer: