© 2017 Sudarshan S. Chawathe

- 1. (1 pt.)
 - This quick check is closed book, notes, etc.
 - Use the textbook's conventions and terminology.

Read the above carefully; then write your name below:

2. (4 pts.) List the four steps in the development of a dynamic programming algorithm.

- 3. (2 pts.) The asymptotic running time of the *recursive* (non-memoized) version of the cut-rod algorithm is (bit-theta):
- 4. (2 pts.) Merge-Sort is an example of which algorithm-design approach?
- 5. (2 pts.) Name the sorting algorithm, other than MERGE-SORT, that is described in detail in Chapter 2 of the textbook.
- 6. (4 pts.) State the theorem in Chapter 3 that relates the asymptotic bounds O, Ω , and Θ .