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- 1. (1 pt.)
 - This quick check is closed book, notes, etc.
 - You may use a 3 in. \times 5 in. **reference card**, hand-written by you.
 - Use the **classroom and textbook conventions** and terminology.

Read the above carefully; then write your name below:

- 2. (2 pts.) Which representation is used by most of the algorithms described for:
 - (a) single-source shortest paths?
 - (b) all-pairs shortest paths?
- 3. (2 pts.) Section 25.1 related shortest paths to a well known mathematical operation; which operation is it?
- 4. (2 pts.) State the asymptotic time complexities of each of the following algorithms.
 - (a) Slow-All-Pairs-Shortest-Paths.
 - (b) FLOYD-WARSHALL.
- 5. (3 pts.) Provide the textbook's definition of a predecessor matrix.