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Name:

- 1. Write your group's name in the space provided above.
- 2. List the members of your group below:

3. Represent all nonisomorphic n-ary relations R_n whose attributes have the common domain $[m] = \{1, 2, 3, ..., m\}$ for n = 0, 1, 2, 3, ... and m = 0, 1, 2, 3, ... (as high as you can manage for both n and m).

- 4. Provide an algorithm to systematically generate all the relations from Question 3. Explain why your algorithm is correct.
- 5. Quantify the running time of your algorithm analytically.
- 6. (homework) Implement your algorithm and analyze its performance experimentally.