

This exercise complements classroom discussion an earlier handout¹ summarizing relational algebra, with an emphasis on implementation and some theoretical topics.

1. List the members of your group below. Underline your name.
2. Briefly explain the formal definition of a *query* and *query language*.
3. Provide, and briefly explain, an illustrative example of a C-generic mapping from integers to strings. Repeat for a non-C-generic mapping.
4. Provide, and briefly explain, an illustrative example of a mapping from integers to strings.
5. Provide an example of a function that is not well-typed in the sense used by the handout.

¹Sudarshan S. Chawathe, A Short Tour of Relational Algebra, Class notes for COS 140, University of Maine, 2010.

- Determine the number of block accesses made by Algorithms 1 and 2 with the parameter $C = 4$. Note any additional assumptions.