[Instructions] [Notes] [PostgreSQL] [C] [Q1] [Q2] [Q3] [Q4] [Q5] [Q6] [Q7] [Q8]

Question 5 (5 marks)

Consider two tables R(x, y, z) and S(a, x, b) with bR = 100 and bS = 20, and a natural join on these two tables (via attribute x). If we have a buffer pool with B = 20 buffers, then calculate how many pages would be read/written when performing the join operation using the methods below. Do not include the cost of writing the final result.

- a. Block nested loop join, with R as outer table and S as inner.
- Sort merge join, using intermediate files for sorting.
 Do not assume any sort order on the original files.
- C. Grace hash join, with R as outer table and S as inner.
 Use buffers as appropriate for input, output and in-memory hash tables.
 You can assume that all hash functions distribute tuples uniformly and that all partitions of R will fit in the in-memory hash table.

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Instructions:

• Type your answer to this question into the file called q5.txt

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