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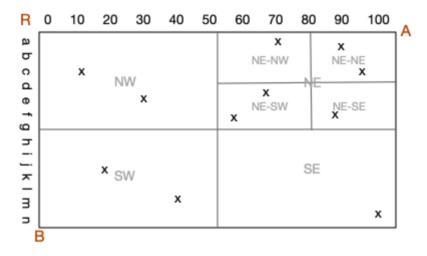
The University of New South Wales COMP9315 DBMS Implementation Final Exam

DBMS Implementation

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

Question 6 (3 marks)

Consider the following tuple space for a relation T(A,B) which has been indexed/partitioned by a quad-tree.



- a. How many nodes are in the quad-tree?
- b. If we ask the query select * from R where A > 40 and B < 'f', then which quadrants (and sub-quadrants and ...) would need to be examined?
- c. How many tuples (appearing as x's on the diagram) would be in the result set?

Show all working.

Instructions:

- Type your answer to this question into the file called q6.txt
- Submit via: give cs9315 exam_q6 q6.txt
 or via: Webcms3 > exams > Final Exam > Submit Q6 > Make Submission

End of Question