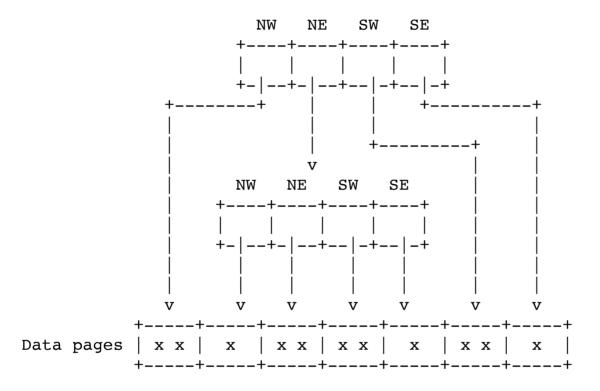
COMP9315 20T1 Final Exam Q6

Type your answer(s) to replace the xxx's Submit this file as your answer for Q6

a.

Quad tree:



- The quad-tree has 2 nodes

b.

- NW and NE contain relevant regions
- All sub-quadrants of NE contain relevant regions
- So 6 quadrants and sub-quadrants are examined:
 - NW, NE, NE-NW, NE-NE, NE-SW, NE-SE

c.

- Assuming that the tuple in NE-SE doesn't have a value less than 'f' for B
- 4 tuples in the result set:
 - One from NE-NW
 - Two from NE-NE
 - One from NE-SW