1) Re is Kausdorff because it is finer than R. 2) Product of Housdorff spaces is Housdorff.
2) Product of Househorff spaces is Kousdorff.
3) therefore, Re ×Re = Re is Handorff. 4) Enterpores of Hours dorff spaces is Hansdorff.
5) Therefore LC IRe is Hausdorff. 6) In Hausdorff spaces singletons are closed. 7) Then singletons in L are clopen.
6) In Hausdorff spaces singletons are closed.
+) (New single vers in I am Deposit