q. Consider the family of intervals defined as

An = (0, 4n)

=> A1= (0, V, A2= (0, 1/2), A3= (0, 1/3), etc.

we see that each successive interval Ant, is smaller than and contained in An , i.e. Ant, CAn because (In END [inti and Since the intervals get smaller with increasing n, and In to as now, An = \$\phi\$ as they have no common elements (0 is not included in An = (0, 1/L) as it's an open interval)

