Let P be a function from IN into 2<sup>N</sup>

Let D = \( \) \

24) Let there exist (a,b) such that a \$\pm\$ b and the interval is finite

Because a \$\pm\$b, there exists a number c within a \$\pm\$b, by axiom

Thus, there exists d between a \$\pm\$c, and \$\pm\$'e' between \$\pm\$ \$\pm\$d

This happens an infinite amount of times.

\$\Rightarrow\$ a nondegenerative interval of real numbers fails to be finite.