by induction, since $x_n \in X$ is NOT variable, can find $x_{n+1} \neq x_n$ such that $(x_{n+1} \times x_n)$. (x_n) is $x_n < x_n < x_n$.

or I a counterexample having a minimal number of elements.

Paper 10 Solution Etd)

Choose such a counterescample (Q, E).

Let MEQ be the set of all iniminal elements of Q, certainly non-empty.

 $m, m' \in M, m \leq m' \Rightarrow m = m',$

by definition of imminality. Hence certainly

M is an antichain of Q.

Consider nour the p.o. set ((OD-M), E)

It has smaller cardinality than the minimal

counteres comple Q, hence it satisfies the

theorem. Take a cover of (Q-M), ÜY:,

containing a minimum # of antichains.