



Q( Construct the Hasse diagram of the lelation S' defined as "divides" on set  $A = \{2,3,4,6,12,36,48\}$ i.e asb if "advidesb"

Q. 9 t  $A = \{1, 2, 3, 4, 6, 8, 9, 12, 18, 24\}$  be ordered by the relation "a divides b".

Maximal Element and Minimal Element: An Element of a poset is called Maximal if it is not less than any element of the poset. That is a is Maximal element in poset (A.≤) if there is no b∈A such that a≤b/a<b : Similarly an Element element of a poset is called Minimal if it is not greater than any element of the poset. ie an element a is minimal if there exist no b∈A such that b < a.

Note: There will be No Successor of Maximal Elements

In the Hasse Diagram The Top & Bottom elements are Maximal and Minimal elements.

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Maximel: 48,72

Minimal: 3,4

