Friday,	April	15
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Name _____

Email _____

6.035 Spring 2016

Miniquiz #24

5 Minutes

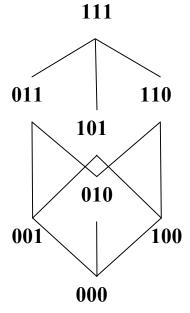
Let set $P = \{000, 001, 010, 011, 100, 101, 110, 111\}$ and a partial order $x \le y$ is defined as:

 $x \le y$ if (x & y) = x where & is a biwise and

The figure on the right shows the Hasse diagram of the lattice (P, \leq)

1. What are the top and bottom elements of the lattice?

2. Is this a complete lattice?



3. What is the least upper bound of the set $\{000, 100, 001\}$?

4. What elements does 011 cover?