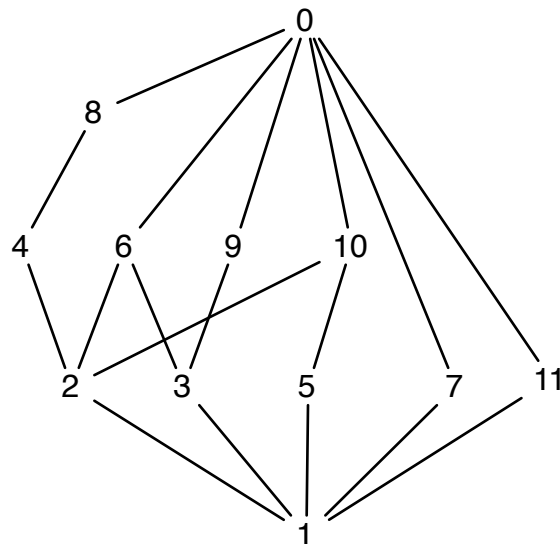


► Problem DM-3.9-2

(a) Draw a diagram to represent the  $|$  (divides) partial order on  $\{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11\}$ .

(b) Identify all minimal, minimum, maximal, and maximum elements in the diagram.

**Solution.** (a)



(b) minimal element: 1

minimum element: 1

maximal element: 0

maximum element: 0

□