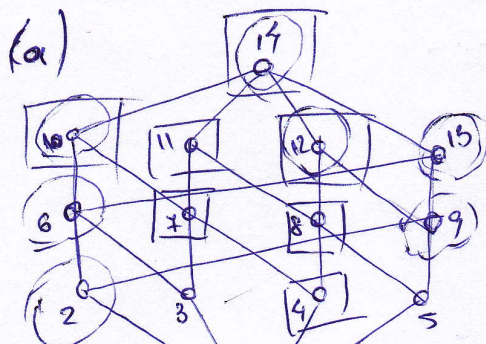


• Exerc.: Arăta că unu pădurea nu sunt latice.



Sup_{2,4}

$\Gamma_i = \{x \in L \mid x \leq i\}$

(a) Majoranții lui 2: $\{2, 6, 10, 12, 9, 13, 14\}$
 — 4: $\{4, 8, 7, 10, 11, 12, 14\}$

Majoranții lui $\{2, 4\}$: $\{10, 12, 14\}$

$10 \neq 12$

$12 \neq 10$

$10 < 14 \Rightarrow (10 \neq 14)$
 $10 \leq 14 \Rightarrow 10 = 14$
 Arăta că are $14 \leq 10$

$\Rightarrow 14 \neq 10$

$\Rightarrow \nexists \text{ min } \{10, 12, 14\} \Leftrightarrow \nexists \text{ sup } \{2, 4\}$

\Rightarrow pădurea nu este latice

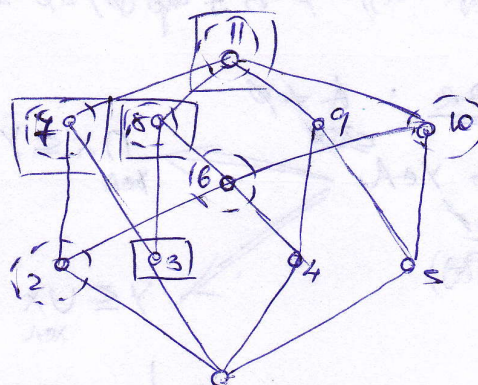
• Exerc.: $T \rightarrow \text{mult}$, $A \subseteq \mathcal{P}(T)$; Arăta că $(\mathcal{P}(T), \subseteq)$:

$$\begin{cases} \text{Inf}(A) = \bigcap_{X \in A} X \\ \text{Sup}(A) = \bigcup_{X \in A} X \end{cases}$$

Rez:

Caz 1: $A = \emptyset$ Ca un orice poset:

(b)



Sup_{2,3}

(b) Maj' lui 2: $\{2, 7, 8, 6, 10, 11\}$

— 3: $\{3, 8, 7, 11\}$

Maj' lui $\{2, 3\}$: $\{7, 8, 11\}$

$7 \neq 8$ $8 \neq 7$
 $7 < 11 \Rightarrow 11 \neq 7$
 $\Rightarrow \nexists \text{ min } \{7, 8, 11\}$

$\Rightarrow \nexists \text{ sup } \{2, 3\}$

\Rightarrow posetul nu este latice