

**Procedure LEM2****(input:** a set  $B$ ,**output:** a single local covering  $\mathbb{T}$  of set  $B$ );**begin** $G := B$ ; $\mathbb{T} := \emptyset$ ;**while**  $G \neq \emptyset$ **begin** $T := \emptyset$ ; $T(G) := \{t \mid [t] \cap G \neq \emptyset\}$ ;**while**  $T = \emptyset$  or  $[T] \not\subseteq B$ **begin**select a pair  $t \in T(G)$  with the highest attribute priority,if a tie occurs, select a pair  $t \in T(G)$  such that  $|[t] \cap G|$  is maximum;if another tie occurs, select a pair  $t \in T(G)$  with the smallest cardinality of  $[t]$ ; if a further tie occurs, select first pair; $T := T \cup \{t\}$ ; $G := [t] \cap G$ ; $T(G) := \{t \mid [t] \cap G \neq \emptyset\}$ ; $T(G) := T(G) - T$ ;**end** { while }**for** each  $t$  in  $T$  **do****if**  $[T - \{t\}] \subseteq B$  **then**  $T := T - \{t\}$ ; $\mathbb{T} := \mathbb{T} \cup \{T\}$ ; $G := B - \bigcup_{T \in \mathbb{T}} [T]$ ;**end** { while };**for** each  $T$  in  $\mathbb{T}$  **do****if**  $\bigcup_{S \in \mathbb{T} - \{T\}} [S] = B$  **then**  $\mathbb{T} := \mathbb{T} - \{T\}$ ;**end** { procedure }.