

Input: Transaction $t \in \mathcal{D}$ and code table CT , with CT and \mathcal{D} over a set of items \mathcal{I} .

Output: A cover of t using non-overlapping elements of CT .

- 1: $S \leftarrow$ smallest element X of CT in **Standard Cover Order** for which $X \subseteq t$
- 2: **if** $t \setminus S = \emptyset$ **then**
- 3: $Res \leftarrow \{S\}$
- 4: **else**
- 5: $Res \leftarrow \{S\} \cup \text{STANDARDCOVER}(t \setminus S, CT)$
- 6: **end if**
- 7: **return** Res