Data: T, ϵ_1, ..., ϵ_n, M' `/* global variables */`
Result: the skypatterns in T
$\mathcal{S} \leftarrow \emptyset$ `/* global variable */`
`mine`$(\emptyset, \ldots, \emptyset, D_1, \ldots, D_n)$
return $\mathcal{S}$

Function `mine`(L, U)**:**
  if $\forall P \in \mathcal{S}$,
   $\exists m' \in M' \mid m'(P,P) < m'(L,U) \vee \forall m' \in M', m'(P,P) \leq m'(L,U)$
   then
    if $L = U$ **then**
     $\mathcal{S} \leftarrow \{P \in \mathcal{S} \mid L_M P\} \cup \{L\}$
    else
     choose $e \in \cup_{i=1}^{n} U_i \setminus L_i$
     `/* Let` k `the index of the dimension` e `is chosen in */`
     `mine`$(L_1, \ldots, L_k \cup \{e\}, \ldots, L_n, U'_1, \ldots, U'_n)$
     `/* where` $\forall i \in \{1, \ldots, n\}$`,` U'_i `is defined as in tree */`
     `mine`$(L_1, \ldots, L_n, U_1, \ldots, U_k \setminus \{e\}, \ldots, U_n)$
    end
  end