

TRIECONSTRUCTION(*Patterns*)

Trie \leftarrow a graph consisting of a single node *root*

for each string *Pattern* in *Patterns*

currentNode \leftarrow *root*

for *i* \leftarrow 1 to $|Pattern|$

currentSymbol \leftarrow *i*-th symbol of *Pattern*

if there is an outgoing edge from *currentNode* with label *currentSymbol*

currentNode \leftarrow ending node of this edge

else

 add a new node *newNode* to *Trie*

 add a new edge from *currentNode* to *newNode* with label *currentSymbol*

currentNode \leftarrow *newNode*

return *Trie*