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1 Function  $GroeiNoS(\mathcal{D}, b)$ 
   Data: Dataset  $\mathcal{D}$ , Beam-width  $b$ 
   Result: Code tables  $\mathcal{CT} = \{CT_i, \dots, CT_k\}$ 
2    $k \leftarrow 1;$ 
3    $\mathcal{CT}_1^{cand} \leftarrow \text{Generate}(CT_{\alpha}^{\mathcal{D}});$ 
4    $\mathcal{CT}_1^{best} \leftarrow \{CT \mid \text{best } b \text{ tables from } \mathcal{CT}_1^{cand}\};$ 
5   repeat
6      $k \leftarrow k + 1;$ 
7      $\mathcal{CT}_k^{cand} \leftarrow \text{Generate}(\mathcal{CT}_{k-1}^{best});$ 
8      $\mathcal{CT}_k^{best} \leftarrow \{CT \mid \text{best } b \text{ tables from } \mathcal{CT}_k^{cand} \cup \mathcal{CT}_{k-1}^{best}\};$ 
9   until  $L(\mathcal{D} \mid \mathcal{CT}_k^{best}) \geq L(\mathcal{D} \mid \mathcal{CT}_{k-1}^{best});$ 
10  return  $\mathcal{CT}_k^{best};$ 

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