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1 Function Groei( $\mathcal{D}, b$ )
   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    $\mathcal{CT}_k^{best} \leftarrow \{CT \mid \text{best } b \text{ tables from } \mathcal{CT}_k^{cand}\}$ ;
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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