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**Algorithm:** Exhaustive search for optimal pruning ratios.

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**Input:** Pruning budget  $k/L$ , polynomial  $\mathcal{P}(\tilde{m}^a, \tilde{m}^g)$

**Output:** Optimal configuration  $(\tilde{m}^{a*}, \tilde{m}^{g*})$

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1 best_score  $\leftarrow -\infty$ ;  
2 for  $\tilde{m}^a \in \{0, 1/L, \dots, k/L\}$  do  
3    $\tilde{m}^g \leftarrow k/L - \tilde{m}^a$ ;  
4   if  $\tilde{m}^g \in \{0, 1/L, \dots, 1\}$  then  
5     score  $\leftarrow \mathcal{P}(\tilde{m}^a, \tilde{m}^g)$ ;  
6     if score  $>$  best_score then  
7       best_score  $\leftarrow$  score;  
8        $((\tilde{m}^a)^*, (\tilde{m}^g)^*) \leftarrow (\tilde{m}^a, \tilde{m}^g)$ ;  
9     end  
10  end  
11 end  
12 return  $(\tilde{m}^{a*}, \tilde{m}^{g*})$ ;
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