Algorithm: Exhaustive search for optimal pruning ratios.

Input: Pruning budget k/L, polynomial $\mathcal{P}(\tilde{m}_a, \tilde{m}_g)$

Output: Optimal configuration $(\tilde{m}_a^\star, \tilde{m}_g^\star)$

1 best_score $\leftarrow -\infty$;

2 for $\tilde{m}_a \in \{0, 1/L, \ldots, k/L\}$ do

3 $\tilde{m}_g \leftarrow k/L - \tilde{m}_a$;

4   if $\tilde{m}_g \in \{0, 1/L, \ldots, 1\}$ then

5   score $\leftarrow \mathcal{P}(\tilde{m}_a, \tilde{m}_g)$;

6   if *score > best_score* then

7   best_score $\leftarrow$ score;

8 $(\tilde{m}_a^\star, \tilde{m}_g^\star) \leftarrow (\tilde{m}_a, \tilde{m}_g)$;

9   end

10   end

11 end

12 return $(\tilde{m}_a^\star, \tilde{m}_g^\star)$;