1 Conflicting Exclusions Theorem

Lemma 1.1. *If a word list has two keywords k_1 and k_2 then* $\Big||k_1| - |k_2|\Big| = 1$

Proof. □

Theorem 1.2. *When a word list has two keywords k_1 and k_2 such that $|k_1| < |k_2|$, the set $K = \{k_10, k_11, k_20, k_21\}$ is not balanced because the subset $\{k_10, k_21\}$ is not balanced. The largest balanced subsets of K are $\{k_10, k_11, k_20\}$ and $\{k_11, k_20, k_21\}$.*

Proof. □