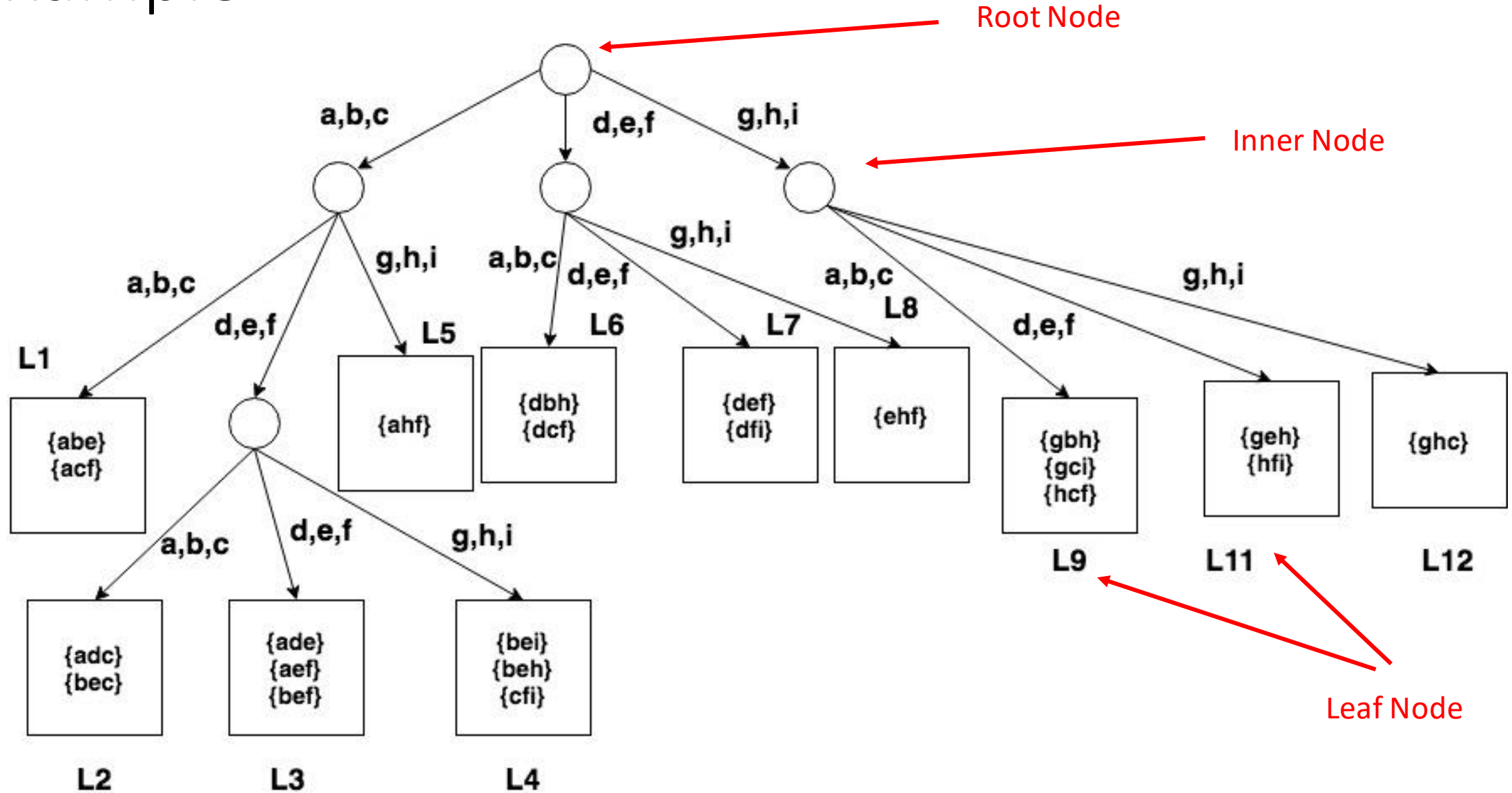


Apriori Hash Tree

CSCI 4502/5502 Fall 2023

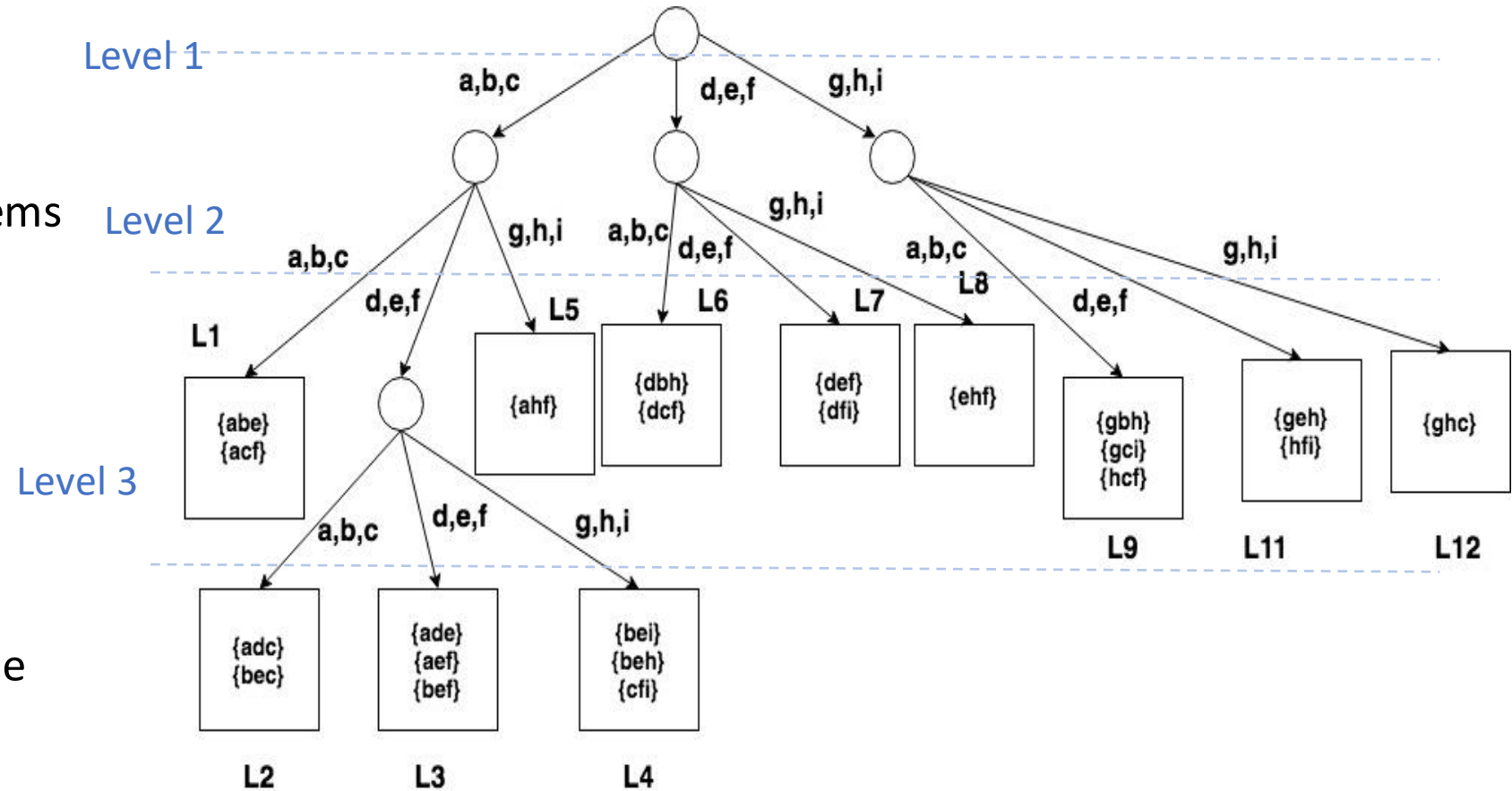
Example



{ } -> Candidate

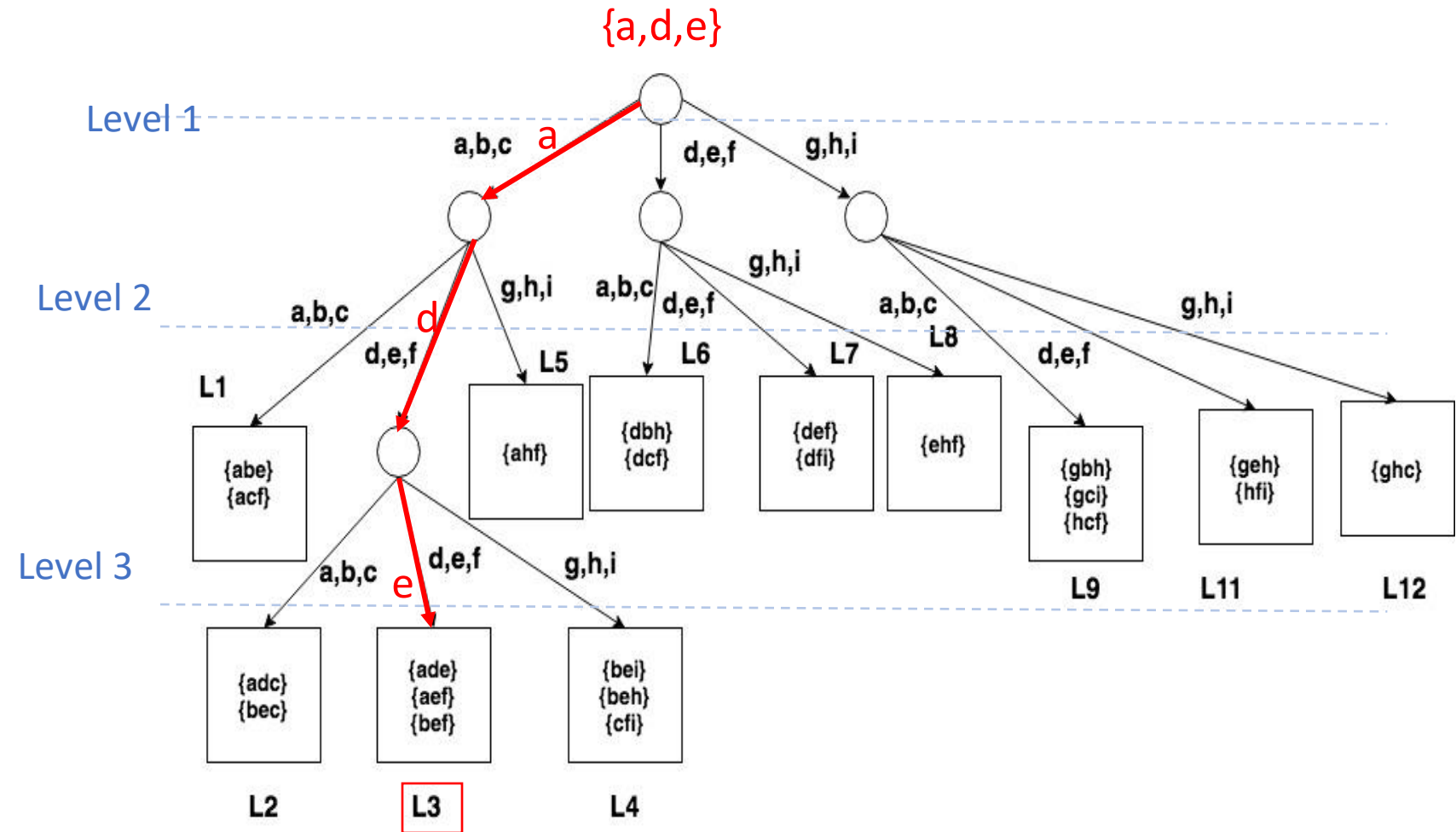
Example – Finding Candidate k-itemsets in HashTree

- Transaction $T = \{a,d,e,g\}$
- $k = 3$
- Enumerate subsets of 3 items
- Candidates C3 :
 - $\{a,d,e\}$
 - $\{a,d,g\}$
 - $\{a,e,g\}$
 - $\{d,e,g\}$
- Parse from root to find the path



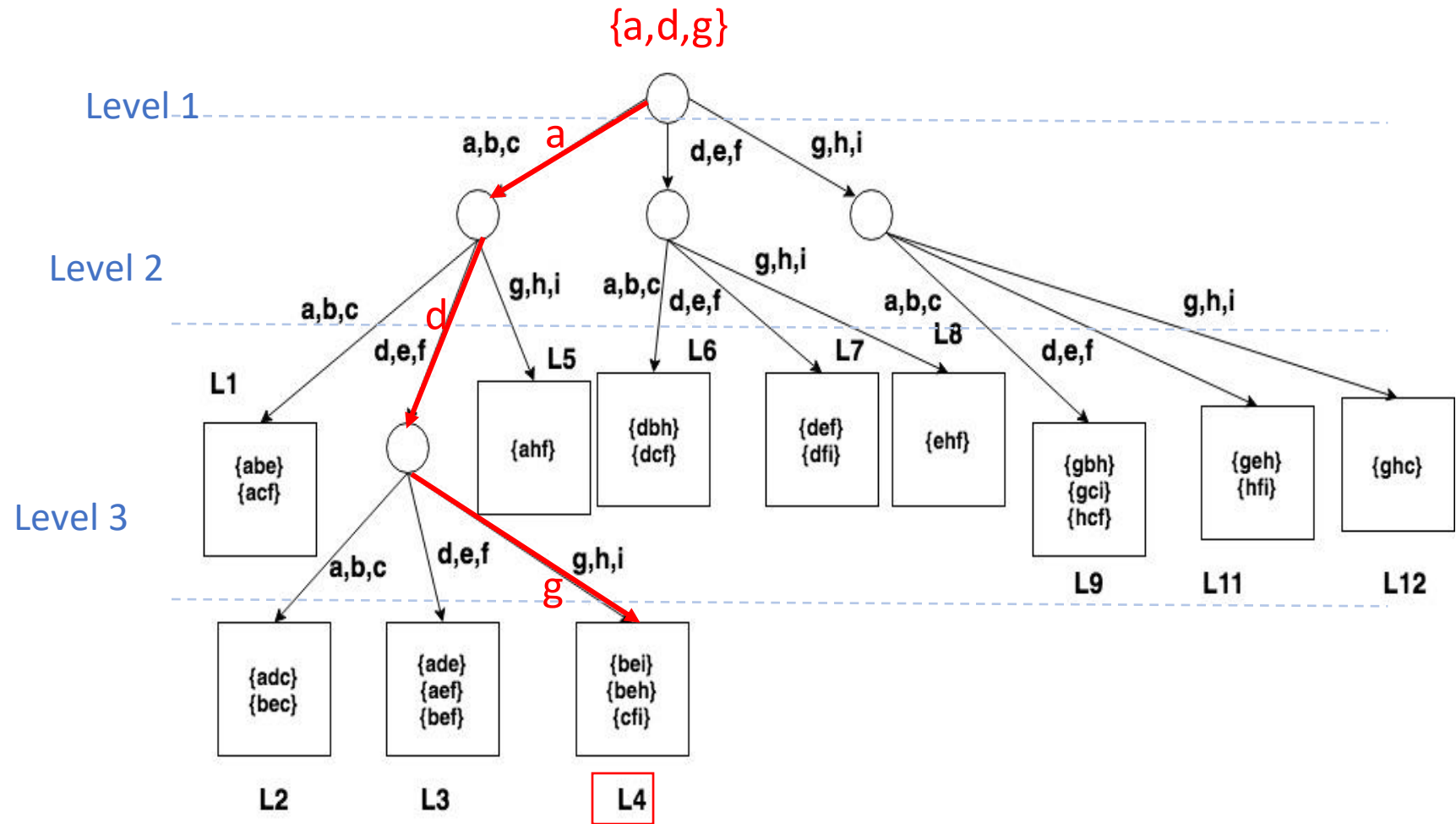
Example – Finding Candidate k-itemsets in HashTree

- Transaction T = {a,d,e,g}
- Candidates C3 :
 $\{a,d,e\}$
 $\{a,d,g\}$
 $\{a,e,g\}$
 $\{d,e,g\}$



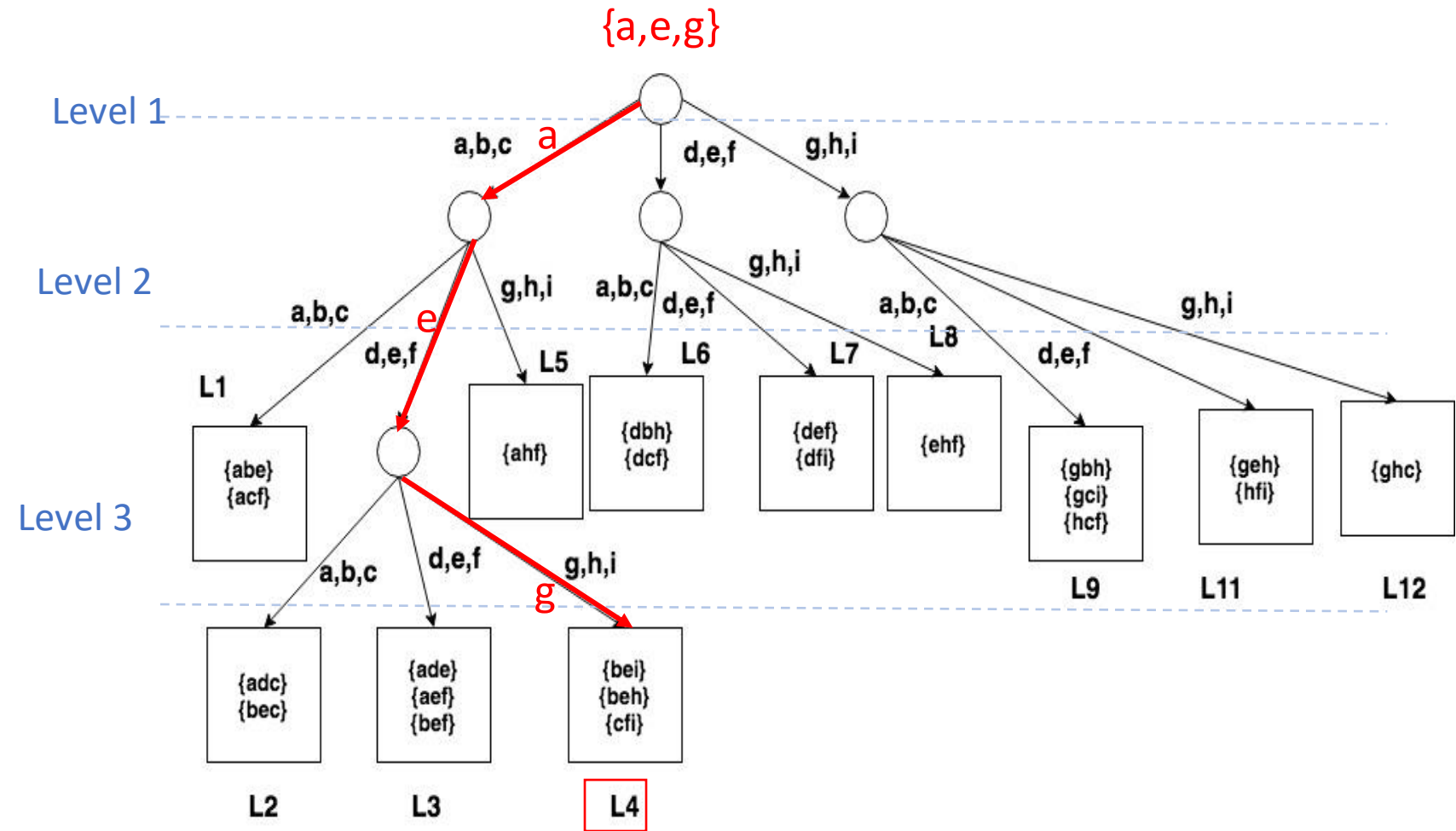
Example – Finding Candidate k-itemsets in HashTree

- Transaction T =
 $\{a,d,e,g\}$
- Candidates C3 :
 $\{a,d,e\}$
 $\{a,d,g\}$
 $\{a,e,g\}$
 $\{d,e,g\}$



Example – Finding Candidate k-itemsets in HashTree

- Transaction T = {a,d,e,g}
- Candidates C3 :
 - {a,d,e}
 - {a,d,g}
 - {a,e,g}**
 - {d,e,g}



Example – Finding Candidate k-itemsets in HashTree

- Transaction T = {a,d,e,g}
- Candidates C3 :
 {a,d,e}
 {a,d,g}
 {a,e,g}
{d,e,g}
- Visited Leaf nodes:
 L3, L4, L7
- Candidates present in visited leaf nodes:
 {a,d,e}

