**Candidate Elimination Technique**

# Training Data (Hypothesis Table)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Citation | Size | In Library | Prize | Edition | Buy |
| 1 Same | Small | No | Affordable | Many | No |
| 2 Many | Big | No | Expensive | One | Yes |
| 3 Same | Big | Always | Expensive | Few | No |
| 4 Many | Medium | No | Expensive | Many | Yes |
| 5 Many | Small | No | Affordable | Many | Yes |

**ANSWER:**

Specific (S): Most specific hypothesis General (G): Most general hypothesis

S0: {∅, ∅, ∅, ∅, ∅}

S1: {∅, ∅, ∅, ∅, ∅}

S2: {Many, Big, No, Expensive, one}

S3: {Many, ?, No, Expensive, ?}

S4: {Many, ?, No, Expensive, ?}

S5: {Many, ?, No, ?, ?}

G5: {<Many, ?, ?, ?, ?>}

G4: {<Many, ?, ?, ?, ?>}

G3: {<Many, ?, ?, ?, ?>, <?, ? ,?, ?,one>}

G2: {<Many, ?, ?, ?, ?>, <?, Big, ?, ?, ?>, <?, ? ,?, expensive, ?>, <?, ? ,?, ?,one>}

G1: { <Many, ?, ?, ?, ?>, <?, Medium, ?, ?, ?>, <?, Big, ?, ?, ?>, <?, ?, always ?, ?>, <?, ? ,?, expensive, ?>,

<?, ? ,?, ?,one>, <?, ? ,?, ?, few>}

G0: { ?, ?, ?, ?, ? }

**VERSION SPACE:** {Many, ?, No, ?, ?}, {<Many, ?, ?, ?, ?>}