function VERSION-SPACE-LEARNING(*examples*) **returns** a version space
  local variables: V, the version space: the set of all hypotheses

  $V \leftarrow$ the set of all hypotheses
  for each example e in *examples* **do**
    if V is not empty **then** $V \leftarrow$ VERSION-SPACE-UPDATE(V, e)
  end
  return V

---

function VERSION-SPACE-UPDATE(V, e) **returns** an updated version space

  $V \leftarrow \{h \in V : h \text{ is consistent with } e\}$