

Homework for Chapter 19:

1. Using the EnjoySport example from the notes, give the sequence of G and S boundary sets if the 4 training examples are presented in the reverse order.
2. Consider again the EnjoySport example from the notes, and its hypothesis space H containing hypotheses consisting of a list of 6 attributes, e.g. [?, Cold, High, ?, ?, ?]. Let us define a new hypothesis space H' consisting of pairwise disjunctions of hypotheses in H. For example, an hypothesis in H' is:

$$[?, \text{Cold}, \text{High}, ?, ?, ?] \vee [\text{Sunny}, ?, \text{High}, ?, ?, \text{Same}]$$

Trace the execution of the Candidate Elimination algorithm for the same 4 training examples, showing the S and G sets at each step.