FIND-S: FINDING THE MOST SPECIFIC HYPOTHESIS

- 1. Initialize h to the most specific hypothesis in H
- 2. For each positive training instance x
 - For each attribute constraint ai in h

If the constraint a_i is satisfied by x

Then do nothing

Else replace a_i in h by the next more general constraint that is satisfied by x

3. Output hypothesis h

TABLE 2.3

FIND-S Algorithm.

Step 1: FIND-S

Example	Sky	$\Lambda ir Temp$	Humidity	Wind	Water	Forecast	EnjoySport
1	Sunny	Warm	Normal	Strong	Warm	Same	Yes
2	Sunny	Warm	High	Strong	Warm	Same	Yes
3	Rainy	Cold	High	Strong	Warm	Change	No
4	Sunny	Warm	High	Strong	Cool	Change	Yes

1. Initialize h to the most specific hypothesis in H

h0 = <Ø, Ø, Ø, Ø, Ø, Ø>

Step 2: FIND-S

2. For each positive training instance x
For each attribute constraint a_i in h

If the constraint a_i is satisfied by x

Then do nothing

Else replace a_i in h by the next more general constraint that is satisfied by x



