Remarks

* Find S-Algorithm.

The Find S-Algorithm is a basic concept of learning algorithm in machine learning. The Find S-algorithm find the most specific hypothesis that fits all the positive example we have to note here that the algorithm consider only those positive training example

* Algorithm

Step 1:- Initialize h to the most specific hypothesis in H.

Step 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.

Step 3:- Output hypothesis h.

Example	Colour	Toughness	Fungus	Apperance	poisonous
1	Green	Hard	NO	Wrinkled	Yes
2	Green	Hard	yes	Smooth	No
3	Brown	soft	No	Wrinkled	NO
4	Orange	Hard	NO	Wrinkled	Yes
5	Green	Soft	Yes	Smooth	yes.

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find we consider the hypothesis to be a more specific hypothesis. Hence our hypothesis would be $h = \{\phi, \phi, \phi, \phi, \phi, \phi\}$

Consider example 1:-

$h = \{$ Green, Hard, No, wrinkled $\}$

Consider example2:-

$h = \{$ Green, Hard, no, wrinkled $\}$

Consider example3:-

$h = \{$ Green, Hard, no, wrinkled $\}$

Here we see that above 2 example has a negative outcomes. Hence we neglate this example and our hypothesis remain the same.

Consider example 4:-

$h = \{?$, Hard, No, wrinkled $\}$

Consider example 5:-

$h = \{?, ?, ?, ?\}$

Hence for the given data the final hypothesis would be

Final hypothesis : $h = \{?, ?, ?, ?\}$