Find-S Algorithm

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1. Program:

```
import csv

h = [['%', '%', '%','%','%','%']]

examples = []

with open('Training_examples.csv') as csv_file:

    readcsv = csv.reader(csv_file, delimiter = ',')

    examples = list(readcsv)

print("The given training examples are: ")

for i in examples:

    print(i)

print("The positive training examples are: ")

for i in examples:

    if i[-1] == 'Yes':

        print(i)

print("Steps of Find-S algorithm are: ")

print(h)

#initialise h to the most specific hypothesis

pos_e = []

for i in examples:

    if i[-1] == 'Yes':

        pos_e = examples[:-1]

for x in examples:

    if x[-1] == 'Yes':

        j = 0
```

```
        h = examples[j]
        print(h[:-1])
        for i in range(0,6):
            if h[i] != examples[j][i]:
                h[i] = '?'
            else:
                j += 1
    else:
         continue
print(f"The most specific hypothesis: {h[:-1]}")
```

2. Output