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#!/usr/bin/env python
# coding: utf-8

# In[6]:

import csv
file=open('lab2.csv')
#x=csv.reader(file)
#data=list(x)[1:]

data=list(csv.reader(file))[1:]
concepts=[]
target=[]
for i in data:
    concepts.append(i[:-1])
    target.append(i[-1])
specific_h=['0']*len(concepts[0])
general_h= [['?' for i in range(len(specific_h))] for i in
range(len(specific_h))]
for i,instance in enumerate(concepts):
    if target[i]=="yes":
        for x in range(len(specific_h)):
            if specific_h[x]== '0':
                specific_h[x]=instance[x]
            elif instance[x]!=specific_h[x]:
                specific_h[x]='?'
                general_h[x][x] = '?'
    if target[i]=="no":
        for x in range(len(specific_h)):
            if instance[x]!= specific_h[x]:
                general_h[x][x]=specific_h[x]
            else:
                general_h[x][x]='?'
indices=[i for i,val in enumerate(general_h) if val ==
['?','?','?','?','?','?']]
for i in indices:
    general_h.remove(['?','?','?','?','?','?'])
print("Final Specific:",specific_h,sep="\n")
print("Final General:",general_h,sep="\n")

# In[ ]:

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