In [17]:

```
import pandas as pd
import numpy as np

data = pd.read_csv("ENJOYSPORT.csv")
print(data,"\n")

#array of all the attributes
d = np.array(data)[:,:-1]
print("\n The attributes are: ",d)

target = np.array(data)[:,-1]
print("\n The target is: ",target)

global specific_hypothesis
def findS(c,t):
    for i, val in enumerate(t):
        if val == 1:
            specific_hypothesis = c[i].copy()
            break

    for i, val in enumerate(c):
        if t[i] == 1:
            for x in range(len(specific_hypothesis)):
                if val[x] != specific_hypothesis[x]:
                    specific_hypothesis[x] = '?'
                else:
                    pass

    return specific_hypothesis

print("\n The final hypothesis is:",findS(d,target))
```

	Sky	AirTemp	Humidity	Wind	Water	Forecast	EnjoySport
0	Sunny	Warm	Normal	Strong	Warm	Same	1
1	Sunny	Warm	High	Strong	Warm	Same	1
2	Rainy	Cold	High	Strong	Warm	Change	0
3	Sunny	Warm	High	Strong	Cool	Change	1

```
The attributes are:  [['Sunny' 'Warm' 'Normal' 'Strong' 'Warm' 'Same']
['Sunny' 'Warm' 'High' 'Strong' 'Warm' 'Same']
['Rainy' 'Cold' 'High' 'Strong' 'Warm' 'Change']
['Sunny' 'Warm' 'High' 'Strong' 'Cool' 'Change']]

The target is:  [1 1 0 1]

The final hypothesis is: ['Sunny' 'Warm' '?' 'Strong' '?' '?']
```

In [ ]: