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In [1]:
```
import pandas as pd
import numpy as np
```

In [3]:
```
a=pd.read_csv('snowber.csv')
print(a)
```

```
  Citation    Size InLibrary       Price Editions  Buy
0     Some   Small        no  affordable     many   no
1     Many     Big        no   expensive      one  yes
2     Some     Big    always   expensive      few   no
3     Many  Medium        no   expensive     many  yes
4     Many   Small        no  affordable     many  yes
```

In [5]:
```
concepts = np.array(a)[:,:-1]
print(concepts)
```

```
[['Some' 'Small' 'no' 'affordable' 'many']
 ['Many' 'Big' 'no' 'expensive' 'one']
 ['Some' 'Big' 'always' 'expensive' 'few']
 ['Many' 'Medium' 'no' 'expensive' 'many']
 ['Many' 'Small' 'no' 'affordable' 'many']]
```

In [6]:
```
target = np.array(a)[:,-1]
print(target)
```

```
['no' 'yes' 'no' 'yes' 'yes']
```

In [7]:
```
def train(con,tar):
    for i,val in enumerate(tar):
        if val=='yes':
            specific_h = con[i].copy()
            break

    for i,val in enumerate(con):
        if tar[i]=='yes':
            for x in range(len(specific_h)):
                if val[x] != specific_h[x]:
                    specific_h[x] = '?'
                else:
                    pass
```

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 ['Many' 'Medium' 'no' 'expensive' 'many']
 ['Many' 'Small' 'no' 'affordable' 'many']]
```

In [6]:
```
target = np.array(a)[:,-1]
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['no' 'yes' 'no' 'yes' 'yes']
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In [7]:
```
def train(con,tar):
    for i,val in enumerate(tar):
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    for i,val in enumerate(con):
        if tar[i]=='yes':
            for x in range(len(specific_h)):
                if val[x] != specific_h[x]:
                    specific_h[x] = '?'
                else:
                    pass
    return specific_h
print(train(concepts,target))
```

```
['Many' '?' 'no' '?' '?']
```

In [ ]:

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