

In [2]:

```
coat=[0,0,1,0,1,1,0] # 0=wear coat and 1=not wear coat
outlook=[0,1,1,1,0,0,0] # 0=sunny and 1=cloudy
temp=[0,1,0,0,0,1,1] # 0=cold and 1=warm
routine=[0,0,0,0,1,1,1] # 0=indoor and 1=outdoor
```

```
sunny=0
cloudy=0
indoor=0
warm=0
outdoor=0
cold=0
yes=0
t=len(a1)
for i in range(0,7):
    if routine[i]==1:
        yes=yes+1
        if coat[i]==1:
            cloudy=cloudy+1
        if outlook[i]==1:
            warm=warm+1
        if temp[i]==1:
            outdoor=outdoor+1

if warm==0 or cloudy ==0 or outdoor ==0:
    upper=0
else:
    upper=(cloudy/yes)*(warm/yes)*(outdoor/yes)*(yes/t)

if warm==0 or cloudy ==0 or outdoor ==0:
    lower=0
else:
    lower=(cloudy/t)*(warm/t)*(outdoor/t)

if upper==0 or lower==0:
    total=0
else:
    total=(upper/lower)
print(total)
```

```
sunny=0
cloudy=0
indoor=0
warm=0
outdoor=0
cold=0
yes=0
c1=0
w1=0
o1=0
```

```
t=len(coat)
for i in range(0,t):
    if routine[i]==0:
        yes=yes+1
```

```

        if coat[i]==1:
            cloudy=cloudy+1
        if outlook[i]==1:
            warm=warm+1
        if temp[i]==1:
            outdoor=outdoor+1

print(cloudy)
print(warm)
print(outdoor)
print(yes)

for i in range(0,t):
    if coat[i]==1:
        c1=c1+1
    if outlook[i]==1:
        w1=w1+1
    if temp[i]==1:
        o1=o1+1

print(o1)
print(w1)
print(c1)

if warm==0 or cloudy ==0 or outdoor ==0:
    upper=0
else:
    upper=(cloudy/yes)*(warm/yes)*(outdoor/yes)*(yes/t)

if w1==0 or cloudy ==0 or outdoor ==0:
    lower=0
else:
    lower=(c1/t)*(w1/t)*(o1/t)

if upper==0 or lower==0:
    total=0
else:
    total=(upper/lower)

print(total)

```

```

0
1
3
1
4
3
3
3
0.3402777777777778

```