```
In [7]:
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outlook = [0, 0, 1, 0, 1, 1, 0] # sunny = 0 and cloudy = 1
temparature=[0,1,1,1,0,0,0] # cold = 0 and warm = 1
routine=[0,1,0,0,0,1,1] #indoor = 0 and outdoor = 1
coat = [0,0,0,0,1,1,1] \# no = 0 \ and \ yes = 1
sunny=0
cloudy=0
indoor=0
warm=0
outdoor=0
cold=0
yes=0
t=len(outlook)
for i in range (0,7):
    if coat[i]==1:
        yes=yes+1
        if outlook[i] == 1:
             cloudy=cloudy+1
        if temparature[i] == 1:
             warm=warm+1
        if routine[i]==1:
             outdoor=outdoor+1
if warm==0 or couldy ==0 or outdoor ==0:
    upper=0
else:
    upper=(cloudy/yes) * (warm/yes) * (outdoor/yes) * (yes/t)
if warm==0 or couldy ==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
01=0
t=len(outlook)
for i in range(0,t):
    if coat[i] == 0:
```

```
yes=yes+1
        if outlook[i]==1:
            cloudy=cloudy+1
        if temparature[i]==1:
            warm=warm+1
        if routine[i] == 1:
            outdoor=outdoor+1
print(cloudy)
print(warm)
print(outdoor)
print(yes)
for i in range (0,t):
    if outlook[i]==1:
            c1 = c1 + 1
    if temparature[i] == 1:
            w1 = w1 + 1
    if a3[i]==1:
            01=01+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
0.34027777777778
```