Doctor's Algorithm

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df=pd.read_csv('DATA.csv')
df.loc[0:26, 'Fever':'Result']
result=[]
a=[int(x) for x in a]
b=[]
for i in range(0,27):
    a1=df.loc[i, 'Fever':'pains']
    b.append([i==j for i, j in zip(a1, a)].count(True))
a1=max(b)
if a1!=13:
    b1=[i for i in range(len(b)) if a1==b[i] and i!=21]
    p=[]
    for i in range(len(a)):
        if a[i]==1:
            k=[]
            for j in range(len(a)):
                if j==i:
                    k.append(1)
                else:
                    k.append(0)
            p.append(k)
        else:
            continue
    for k in p:
        b2=[]
        for j in range(0,27):
            a1=df.loc[j, 'Fever':'pains']
            b2.append([i==j for i, j in zip(a1, k)].count(True))
        result.append(b2.index(13))
    if len(b1)!=0:
        for i in b1:
            if i not in result:
                result.append(i)
else:
    result.append(b.index(a1))

f=[]
for i in result:
    f.append(df.loc[i,'Result'])
```

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    k=sum(a)/len(a)
    return set(f),k
```