```
def findprobability(c,t,o,s):
  county=0
  countn=0
  count1=0
  count2=0
  count3=0
  #print(o)
  for key,val in data.items():
      if val[3] =='yes':
        county+=1
      else:
         countn+=1

      if val[0]==c and val[3]==s:
        count1+=1
      if val[1]==t and val[3]==s:
        count2+=1
      if val[2]==o and val[3]==s:
        count3+=1

  #print(county," ",countn," ", count1," ",count2," ",count3)
  total=county+countn
  if s=='yes':
    ans=(count1/county)*(count2/county)*(count3/county)*(county/total)
  else:
    ans=(count1/countn)*(count2/countn)*(count3/countn)*(countn/total)
  print(ans)
  return ans


data={1:['red','sports','domestic','yes'],
      2:['red','sports','domestic','no'],
      3:['red','sports','domestic','yes'],
      4:['yellow','sports','domestic','no'],
      5:['yellow','sports','imported','yes'],
      6:['yellow','suv','imported','no'],
      7:['yellow','suv','imported','yes'],
      8:['yellow','suv','domestic','no'],
      9:['red','suv','imported','no'],
      10:['red','sports','imported','yes']}


print("Enter input: ")
color=input("Color: ")
Type=input("Type: ")
origin=input("Origin: ")

a1=findprobability(color,Type,origin,'yes')
a2=findprobability(color,Type,origin,'no')
if a1>a2:
  print("YES")
else:
  print("NO")
```

```
Enter input:
Color: red
Type: suv
Origin: domestic
0.024
0.072
NO
```