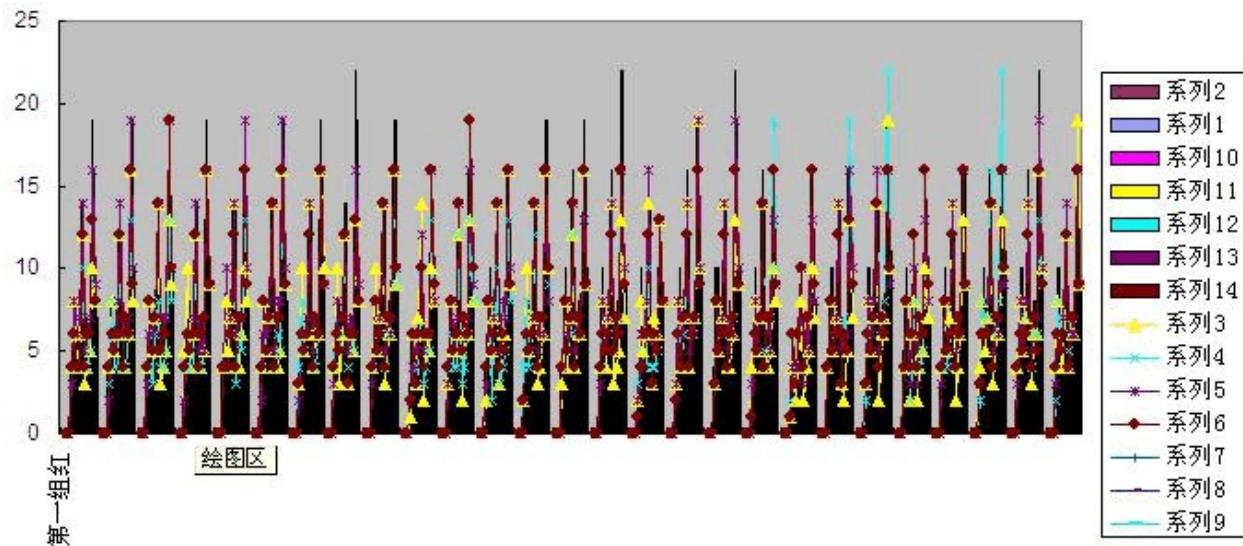


问题一：分析附件 1 中两组评酒员的评价结果有无显著性差异，哪一组结果更可信？



[problem1.m] 哪一组结果更可信

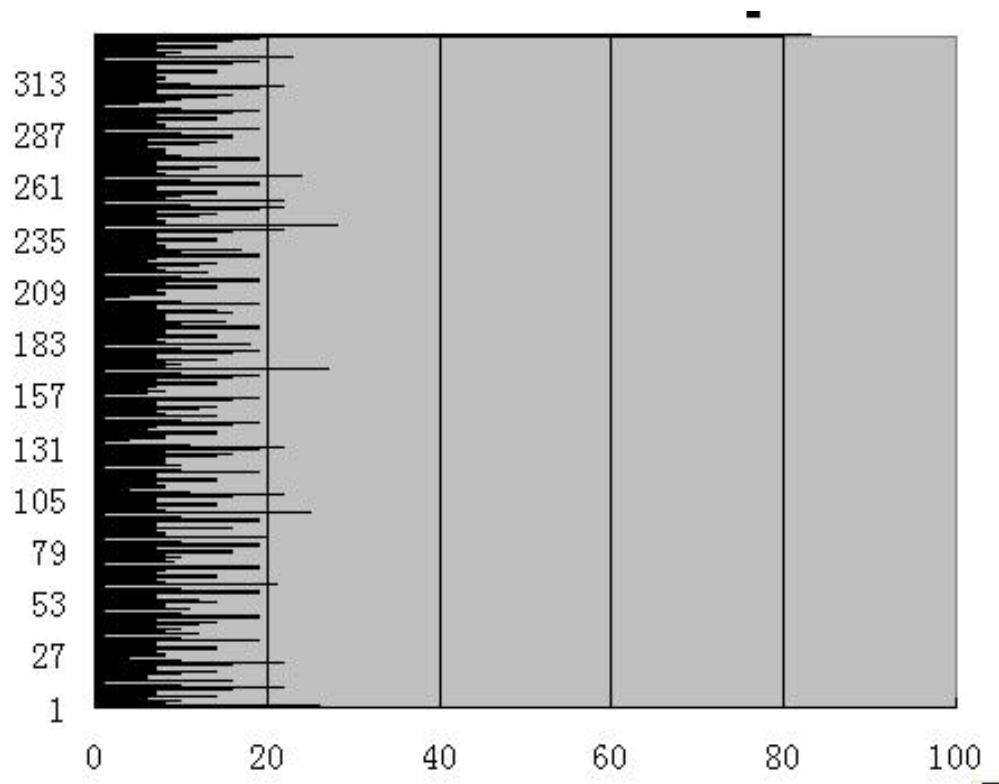
```
functiony= xlsread('D \cumcm2012problems\A'
globala10a20a30 totalk;
symask a10;
x1=dsolve('Dx1=-0.75*x1','x1(0)=a10');
t=1;a20=subs(x1);
```

```
x21=dsolve('Dx21=-(0.75+0.32*k)*x21','x21(0)=a20');
t=2/3;a21=subs(x21);
x22=dsolve('Dx22=-0.75*x22','x22(2/3)=a21');
t=1;a30=subs(x22);
x31=dsolve('Dx31=-(0.75+k)*x31','x31(0)=a30');
t=2/3;a31=subs(x31);
x32=dsolve('Dx32=-0.75*x32','x32(2/3)=a31');
nn=1.109*10^11*(0.5*a21+a31);
eq1=a10-nn*1.22*10^11/(1.22*10^11+nn);
S=solve(eq1,a10);a10=S(2);
symst;
t3=subs(subs(int(0.32*k*x21,t,0,2/3)));
t4=subs(subs(int(k*a31,t,0,2/3)));
total=17.86*t3+22.99*t4;
k=x;
y=subs(-total);
```

```
functiony= problem1(x)
globala10a20a30 total;
[k,mtotal]=fminbnd('buyu',16,18);
ezplot(total,0,25)
```

```
xlabel(组别')
ylabel(系列')
title(' ')
formatlong;
k
total=-mtotal
a10=eval(a10)
a20=eval(a20)

a30=eval(a30)
formatshort
clear
```



综上所述，第二组更可信。