```
x = [24, 29, 19, 14, 30, 19, 27, 30, 20, 28, 11];
y = [37, 35, 16, 26, 23, 27, 19, 20, 16, 11, 21];
rx = tiedrank(x);
ry = tiedrank(y);
unique elementsx=unique(x);
unique elementsy=unique(y);
countsx=histc(x,unique elementsx);
countsy=histc(y,unique elementsy);
for i = 1:length(unique elementsx)
fprintf('%d appears %d times.\n', unique elementsx(i), countsx(i));
end
for i = 1:length(unique elementsy)
fprintf('%d appears %d times.\n', unique elementsy(i), countsy(i));
end
c=0;
e=0;
for i = 1:length(countsx)
a=countsx(i);
c=c+((1/12)*a*((a.^2)-1));
for i = 1:length(countsy)
b=countsy(i);
e=e+((1/12)*b*((b.^2)-1));
end
af=e+c;
n=length(x);
d = sum((rx - ry).^2);
disp(d);
nr=(6*(d+af));
disp(nr);
dr=n*((n^2)-1);
disp(dr);
r = (nr/dr);
rho=1-r;
fprintf('Spearman''s rank correlation coefficient: %.4f\n', rho);
```