

```
//example 4.3//  
//Determine the fan-out of IC 74LS04//  
clc  
//clears the variables//  
clear  
//clears the screen//  
a=.5;  
//input loading factor(high state) in UL//  
b=.25;  
//input loading factor(low state) in UL//  
c=10;  
//output loading factor(high state) in UL//  
d=5;  
//output loading factor(low state) in UL//  
disp('The HIGH-state fan-out can be computed from: fan-out=output  
loading factor (HIGH)/input loading factor (HIGH)')  
s=c/a;  
disp(s, '=')  
disp('The LOW-state fan-out can be computed from: fan-out = output  
loading factor (LOW)/input loading factor (LOW)')  
u=d/b;  
disp(u, '=')  
z=min(s,u)  
disp(z, 'fan-out')
```