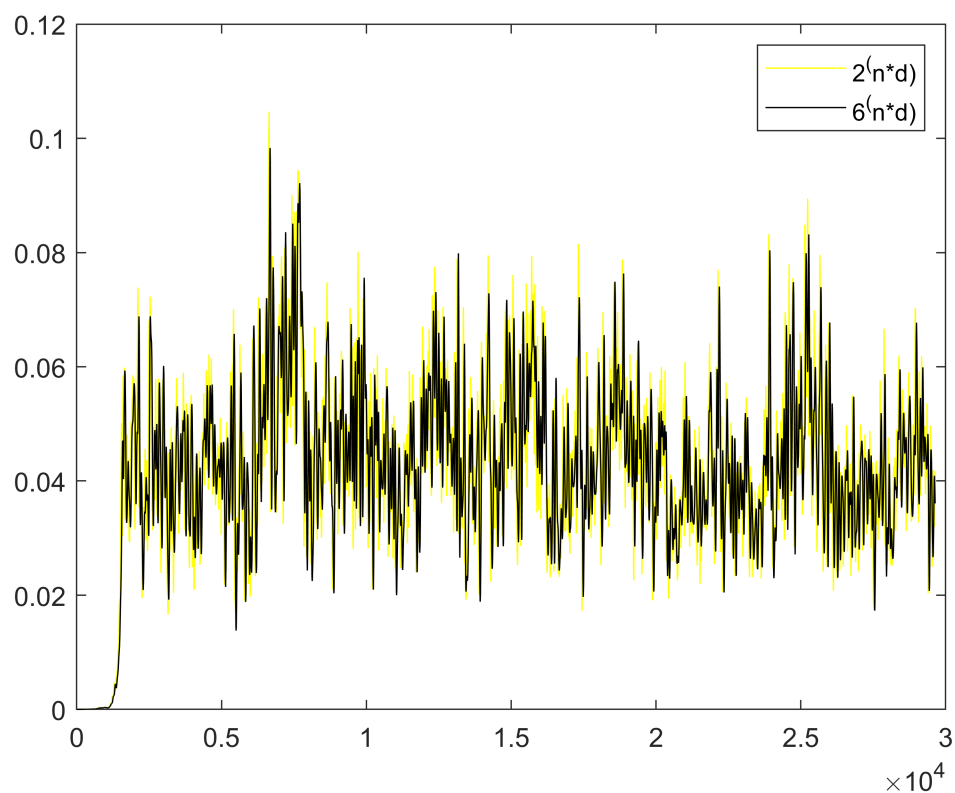


%第三问 b 问第二小问

```
[b4,a4]=butter(2,200/(fs/2));  
h4=filter(b4,a4,y);  
env4=abs(h4);  
[b5,a5]=butter(6,200/(fs/2));  
h5=filter(b5,a5,y);  
env5=abs(h5);  
plot(env4,'y');hold on;  
plot(env5,'k');  
legend('2^(n*d)', '6^(n*d)');%黄色代表二阶, 黑色代表六阶
```



%the higher the order of filter is,the flatter and looser the envelope is.