
```
n=4;  
a=zeros(n,n);  
f=zeros(n,1);  
  
f(1)=-1500;  
f(n)=-100;  
f(2:n:1)=0;  
  
a=zeros(n,n);  
a(1,1)=2;  
a(n,n)=-2;  
  
for i=1:n-1;  
    a(i,i)=-2;  
    a(i,i+1)=1;  
    a(i+1,i)=1;  
end  
  
t=inv(a)*f;  
  
plot(t)
```

