

```
function c_out = newtonCoeff(xlst,ylst)
flst=ylst;
listlenX=length(xlst);
    for k=1:listlenX
        temp1=flst(k);
        for n=k:listlenX-1
            temp2=flst(n+1);
            flst(n+1)=diffq(xlst(n-k+1),xlst(n+1),temp1,temp2);
            temp1=temp2;
        end
    end
    c_out=flst;
end
```