

```
1 function cost=energy(f,g,k,l,i,j)
2 %This is the function to calculate 2-norm distance between two fuction
3 %between path from (k,l) to (i,j) used in dynamic programming
4 n=length(f);
5 m=length(g);
6 slope=(j-l)/(i-k);
7 gidx=round((l+((k+1:i)-k).*slope)/n*m);
8 cost=norm(f(k+1:i)-g(gidx)*sqrt(slope))^2/n;
```