```
import numpy
import modules as md
import copy
def buildcnn():
    nn = md.Network([
         md.Convolution('cnn/c1-5x5x3x10',write=True),md.ReLU(),md.Pooling(),
         md.Convolution('cnn/c2-5x5x10x50',write=True),md.ReLU(),md.Pooling(),
md.Convolution('cnn/c3-4x4x50x250',write=True),md.ReLU(),md.Pooling(),
md.Convolution('cnn/c4-1x1x250x10',write=True),
    nn.layers[-1].W*=0
     return nn
def geterrorgrad(y,t):
     return numpy.exp(y) / (numpy.exp(y).sum(axis=1)[:,numpy.newaxis] + 1) - t
lowest = -1
highest = 1
class FirstConvolution(md.Convolution):
     def relprop(self,R):
         iself = copy.deepcopy(self); iself.B *= 0
         nself = copy.deepcopy(self); nself.B *= 0; nself.W = numpy.minimum
         pself = copy.deepcopy(self); pself.B *= 0; pself.W = numpy.maximum
(0, pself.W)
         X,L,H = self.X,self.X*0+lowest,self.X*0+highest
         Z = iself.forward(X) - pself.forward(L) - nself.forward(H) + 1e-9; S = R/Z
         R = X*iself.gradprop(S)-L*pself.gradprop(S)-H*nself.gradprop(S)
         return R
```