**Tensor.unsqueeze(dim)**

用于在维度dim上增加1维

#即为原先在dim-1维度上的每个元素都添加一个括号

**Tensor.squeeze(dim)**

若dim维尺寸是1，则将该维度压缩；否则返回原张量

a = torch.Tensor([1,2,3])

print(a)

b = a.unsqueeze(1)

print(b)

c = a.squeeze(-1)

print(c)

>>>

tensor([1., 2., 3.])

tensor([[1.],

[2.],

[3.]])

tensor([1., 2., 3.])

a=torch.arange(0,6).view(2,3)

print(a,a.size())

b=a.unsqueeze(1)

print(b,b.size())

c=b.squeeze(-2)

print(c,c.size())

d=c.squeeze(-1)

print(d,d.size())

>>>

tensor([[0, 1, 2],

[3, 4, 5]]) torch.Size([2, 3])

tensor([[[0, 1, 2]],

[[3, 4, 5]]]) torch.Size([2, 1, 3])

tensor([[0, 1, 2],

[3, 4, 5]]) torch.Size([2, 3])

tensor([[0, 1, 2],

[3, 4, 5]]) torch.Size([2, 3])