**nn.LSTMCell(input\_size,hidden\_size)**

单个时间步的LSTM，若要处理序列，则需要手动迭代

**输入输出**

输入：input,(hidden0,cell0)

input是batch×input\_size的大小为time\_steps×batch×input\_size的序列批量某一时间步的输入

(hidden0,cell0)是该时间步下batch×hidden\_size的隐状态和同样大小的内部状态组成的元组

输出：hidden1,cell1

hidden1,cell1是下一时间步下batch×hidden\_size的隐状态和同样大小的内部状态

rnn = nn.LSTMCell(10, 20)*#(input\_size, hidden\_size)*

input = torch.randn(2, 3, 10)*#(time\_steps, batch, input\_size)*

hx = torch.randn(3, 20)*#(batch, hidden\_size)*

cx = torch.randn(3, 20)*#(batch, hidden\_size)*

output = []

for i in range(input.size()[0]):

hx, cx = rnn(input[i], (hx, cx))

output.append(hx)

output = torch.stack(output, dim=0) *#(time\_steps, batch, input\_size)*

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