

正向和反向的RNN的W不同,所以初始化隐藏层的数量要翻倍并且两个层的输出是concat在一起的(连起来)

```
PYTHON
# d21 中初始化隐藏层部分
def begin_state(self, device, batch_size=1):
       if not isinstance(self.rnn, nn.LSTM):
           # nn.GRU以张量作为隐状态
           return torch.zeros((self.num_directions * self.rnn.num_la
                                batch_size, self.num_hiddens),
                               device=device)
       else:
           # nn.LSTM以元组作为隐状态
           return (torch.zeros((
               self.num_directions * self.rnn.num_layers,
               batch_size, self.num_hiddens), device=device),
                   torch.zeros((
                       self.num_directions * self.rnn.num_layers,
                       batch size, self.num hiddens), device=device))
```