

```
def lstm_full(inp, dout, dstate):  
    with tf.name_scope('dimensionality'):  
        T = len(inp)  
        n = inp[0].get_shape()[0]  
    with tf.name_scope('states'):  
        state = tf.Variable(tf.zeros([n, dstate]), trainable=False)  
        out = tf.Variable(tf.zeros([n, dout]), trainable=False)  
    for t in range(T):  
        with tf.name_scope('step' + str(t)):  
            out, state = lstm_step(inp[t], out, state)  
            state = tf.layers.batch_normalization(state)  
            out = tf.layers.batch_normalization(out)  
            state = tf.nn.dropout(state, keep_prob=keep_prob_)  
            out = tf.nn.dropout(out, keep_prob=keep_prob_)  
    return out
```