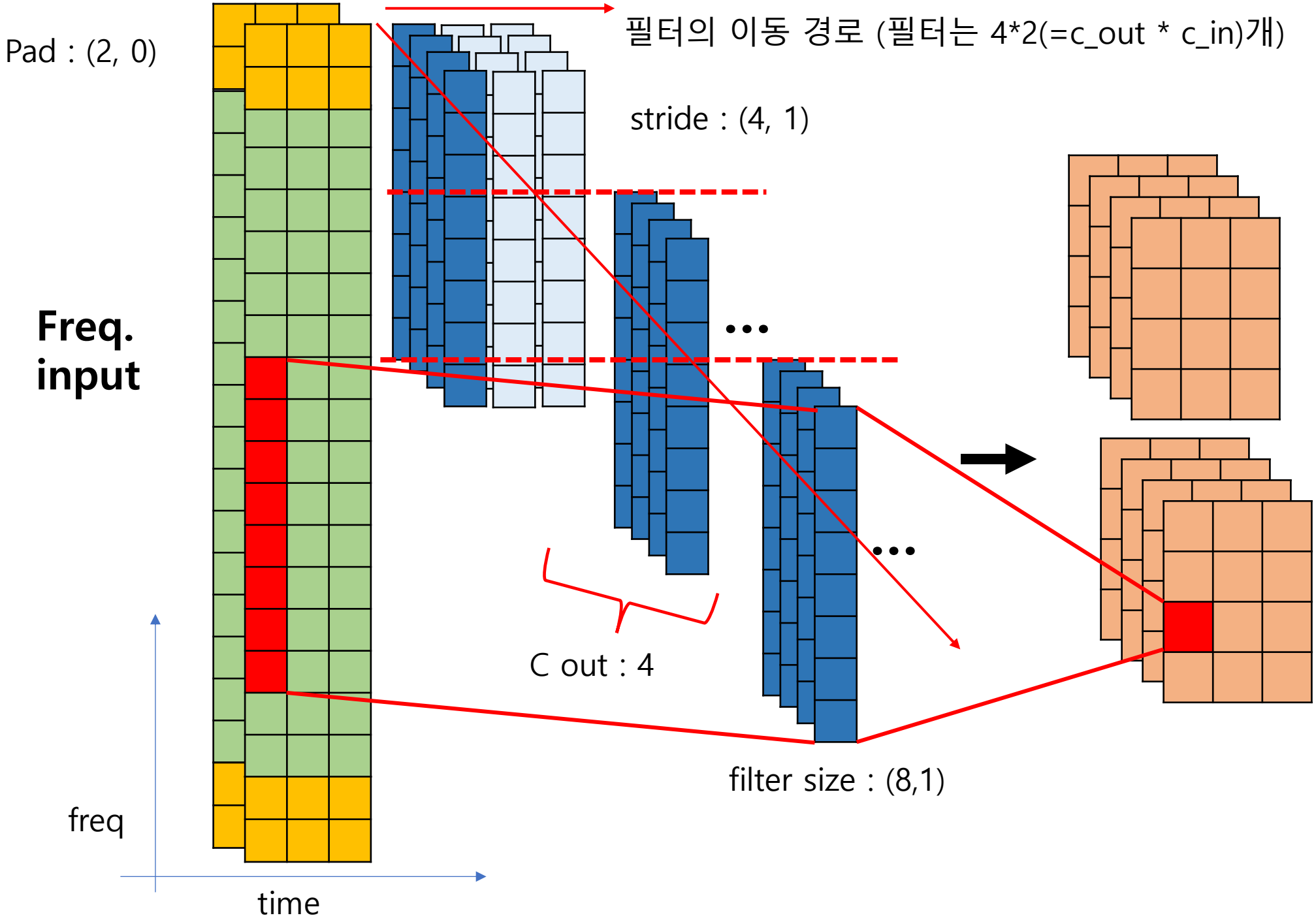
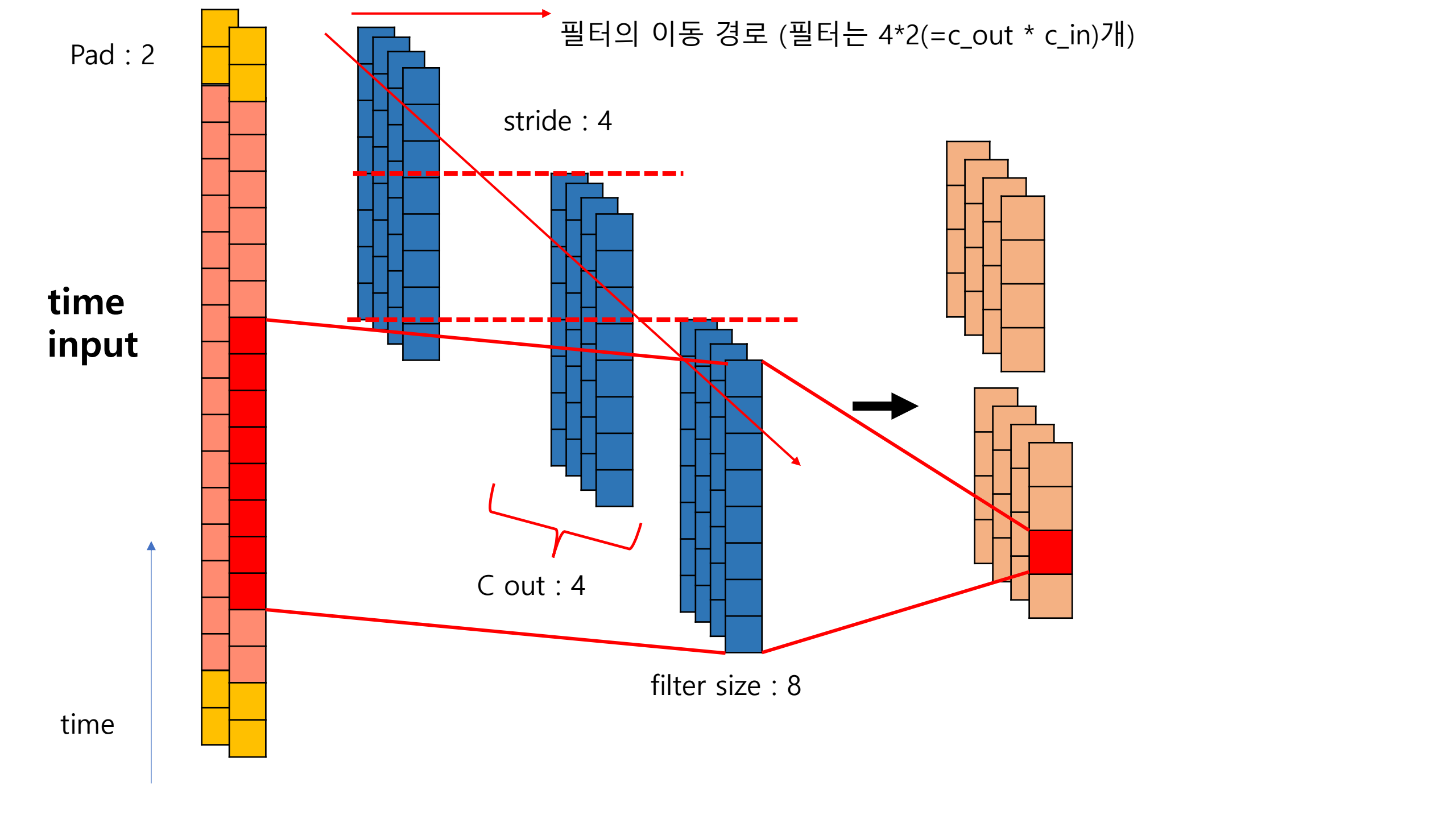

Pad : (2, 0)
필터의 이동 경로 (필터는 4*2(=c_out * c_in)개)
stride : (4, 1)
Freq.
input
C out : 4
filter size : (8,1)
freq
time

```
[12] # input : (Batch, Channel, Frequency, Time steps)
     freq = torch.randn(((2, 1, 16, 3)))
     # (c_in, c_out, kernel_size, stride, padding)
     conv = nn.Conv2d(1, 4, (8, 1), (4, 1), (2, 0))
     conv(freq).shape
```

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


Pad : 2
필터의 이동 경로 (필터는 4*2(=c_out * c_in)개)
stride : 4
time
input
C out : 4
filter size : 8
time

```python
# input : (Batch, Channel, Time steps)
time = torch.randn((2, 1, 16))
# (c_in, c_out, kernel_size, stride, padding)
conv = nn.Conv1d(1, 4, 8, 4, 2)
conv(time).shape
```

```
torch.Size([2, 4, 4])
```