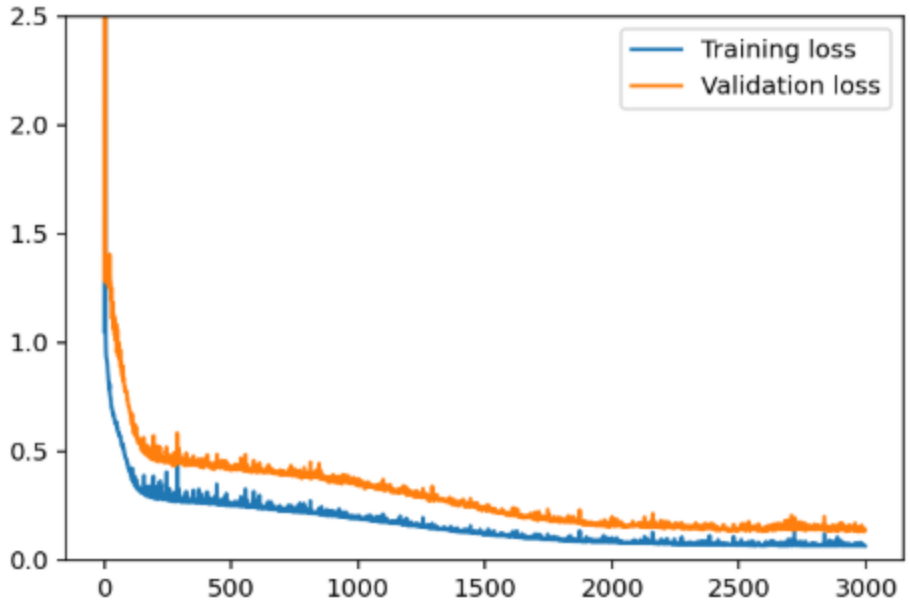
Compare Results

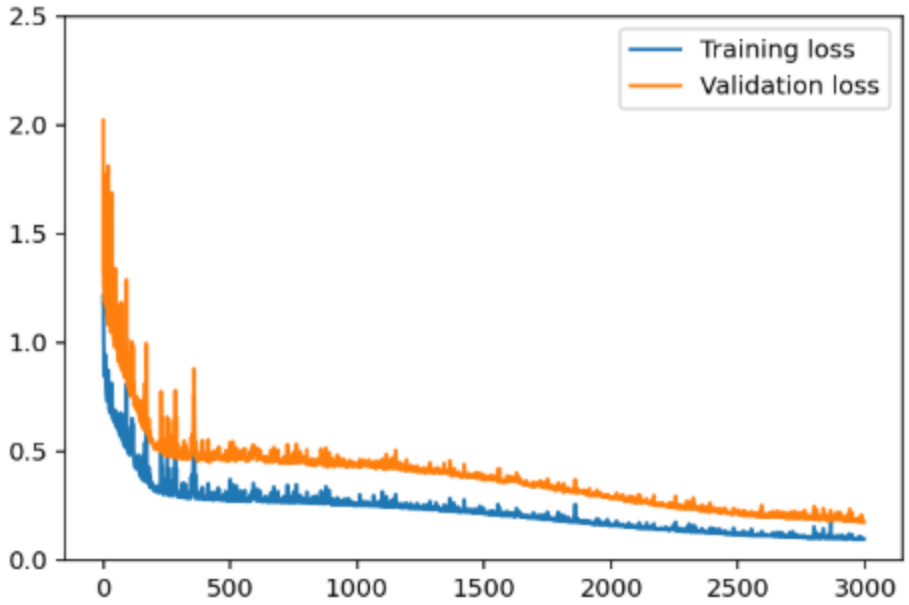
iterations = 3000
learning_rate = 0.8
hidden_nodes = 14
output_nodes = 1
Progress: 100.0% ... Training loss: 0.066 ... Validation loss: 0.164

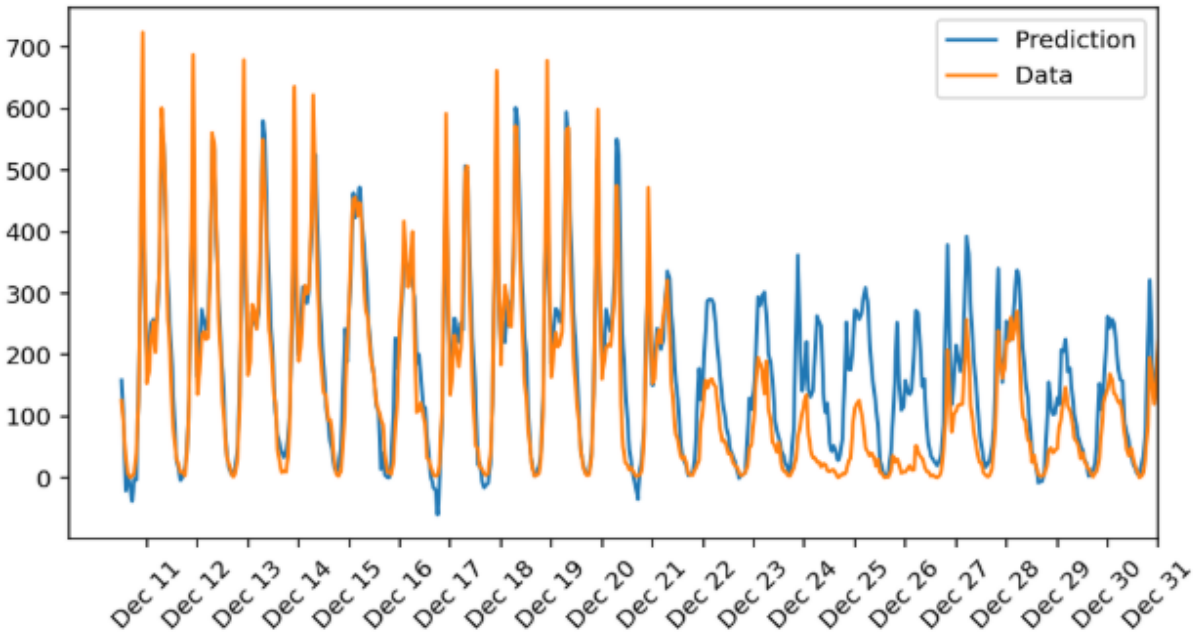
```
plt.plot(losses['train'], label='Training loss')
plt.plot(losses['validation'], label='Validation loss')
plt.legend()
_ = plt.ylim(top=2.5, bottom=0)
```



iterations = 3000
learning_rate = 0.5
hidden_nodes = 14
output_nodes = 1
Progress: 100.0% ... Training loss: 0.079 ... Validation loss: 0.197

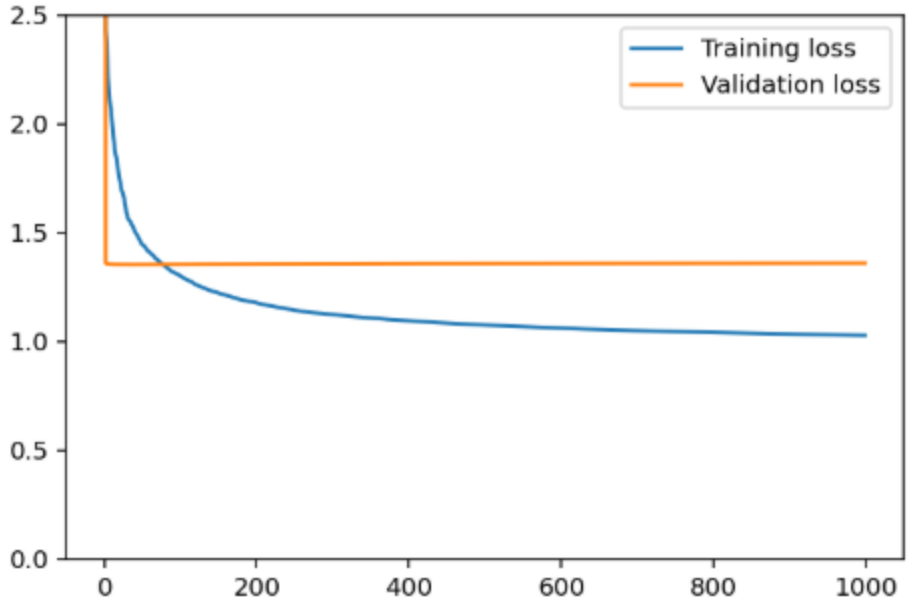
```
:  plt.plot(losses['train'], label='Training loss')
   plt.plot(losses['validation'], label='Validation loss')
   plt.legend()
   _ = plt.ylim(top=2.5, bottom=0)
```

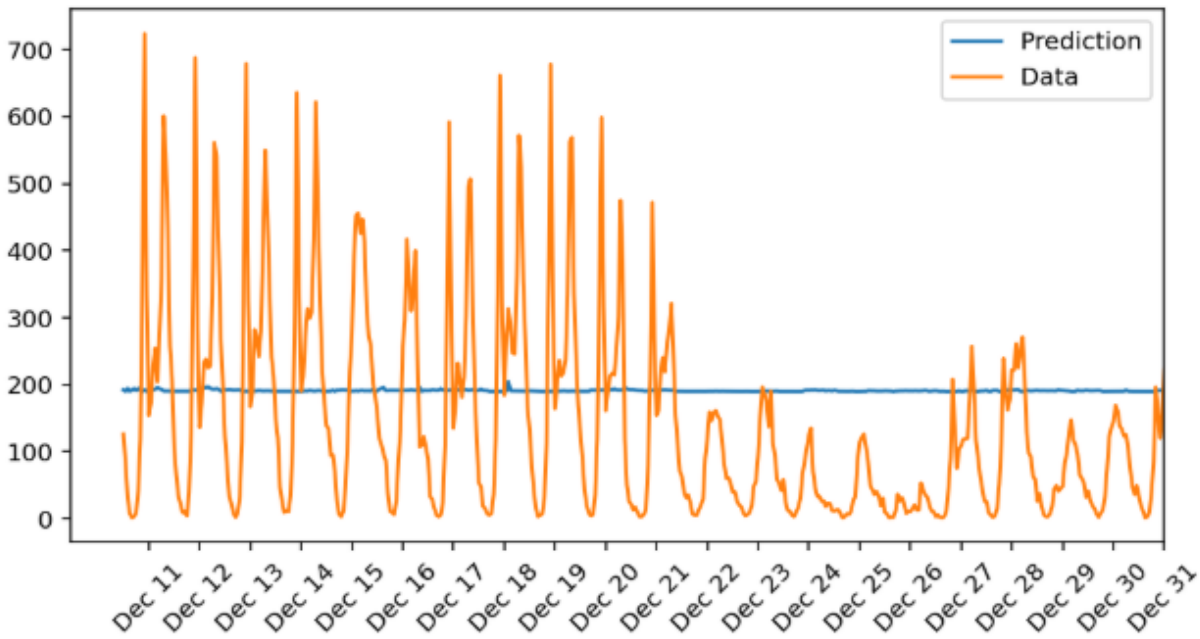




##
Set your hyperparameters here
##

iterations = 1000
learning_rate = 0.5
hidden_nodes = 56
output_nodes = 1

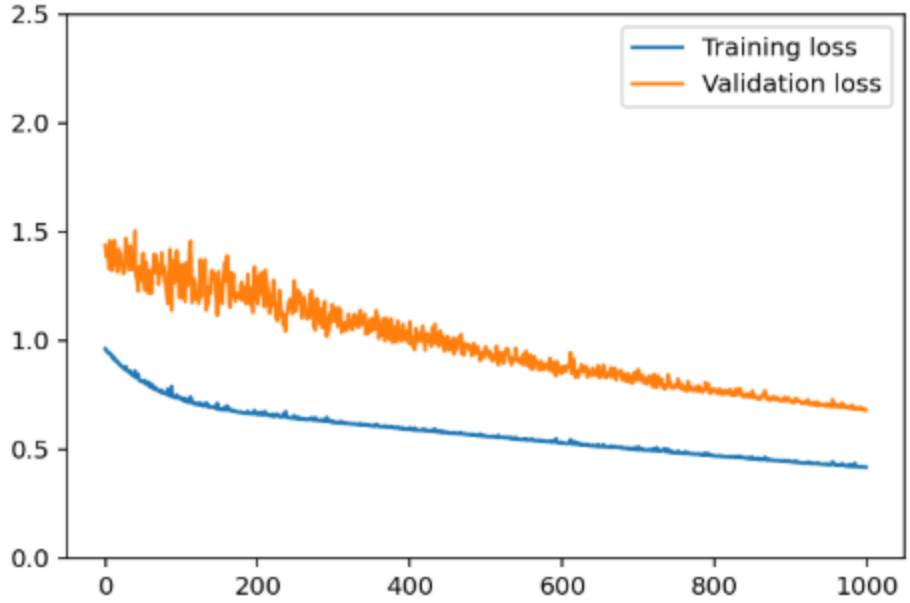


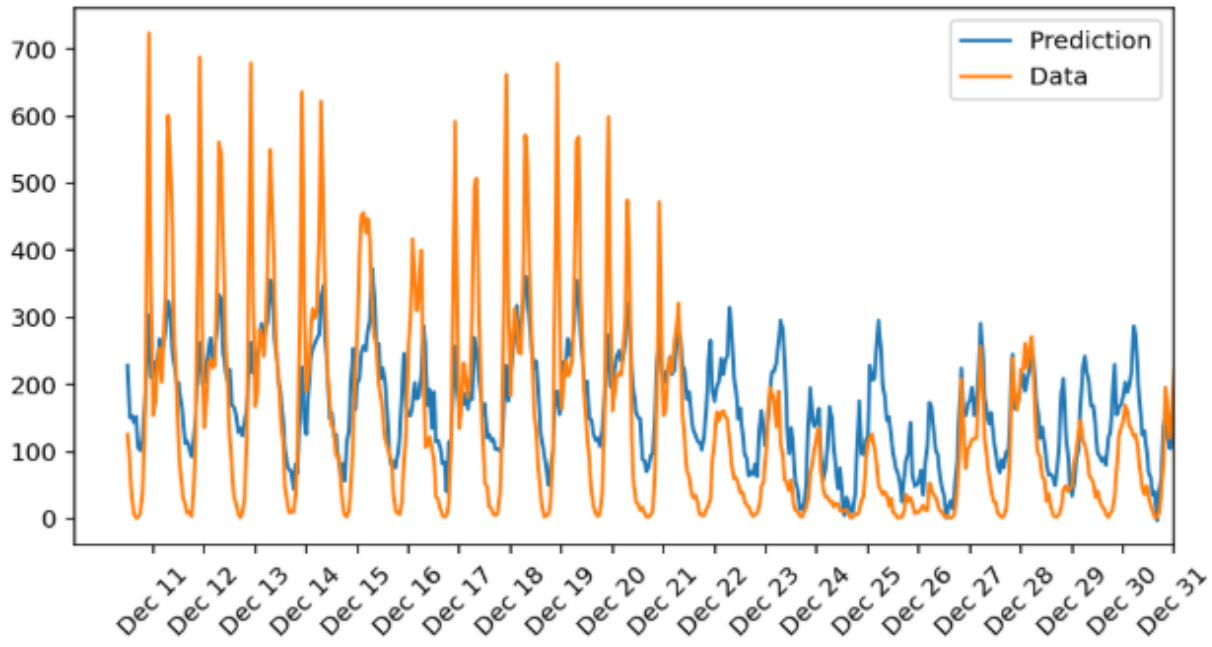


##
Set your hyperparameters here
##
iterations = 1000
learning_rate = 0.05

hidden_nodes = 56
output_nodes = 1

Progress: 99.9% ... Training loss: 0.415 ... Validation loss: 0.679

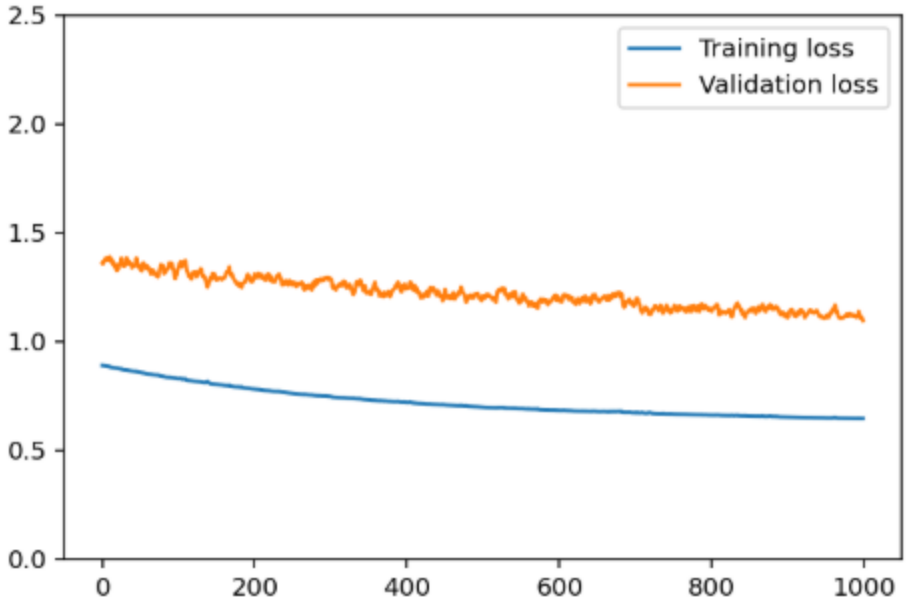


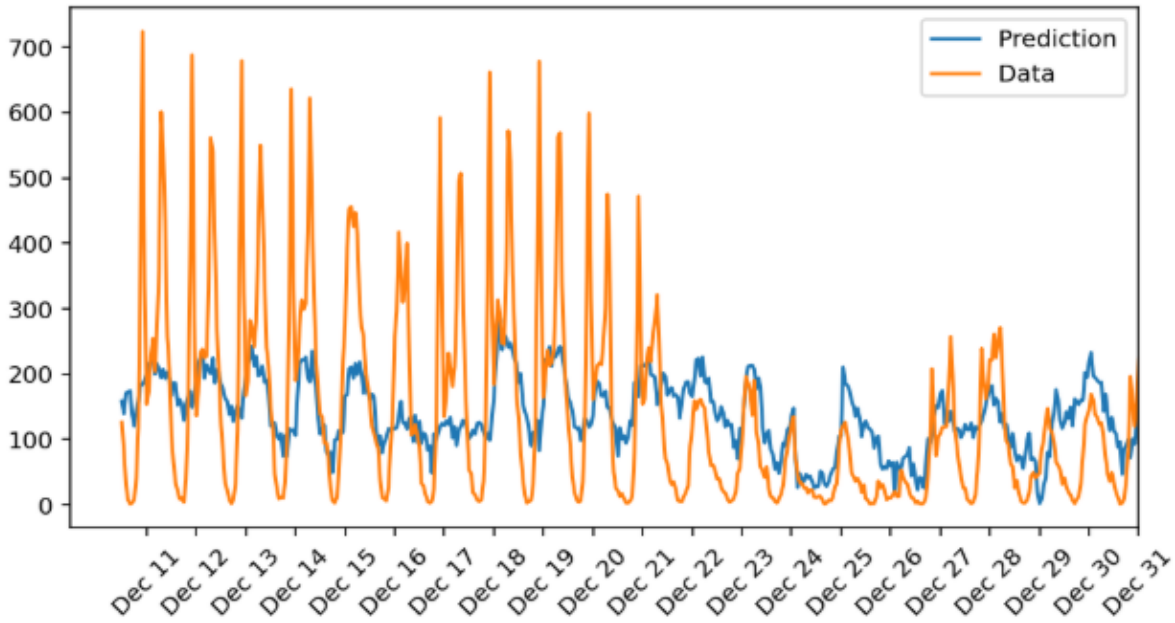


```
##############################################################
# Set your hyperparameters here
##############################################################
iterations = 1000
learning_rate = 0.01
hidden_nodes = 78
output_nodes = 1
# Require that TL < .09 and VL < .18
```

Progress: 99.9% ... Training loss: 0.644 ... Validation loss: 1.095

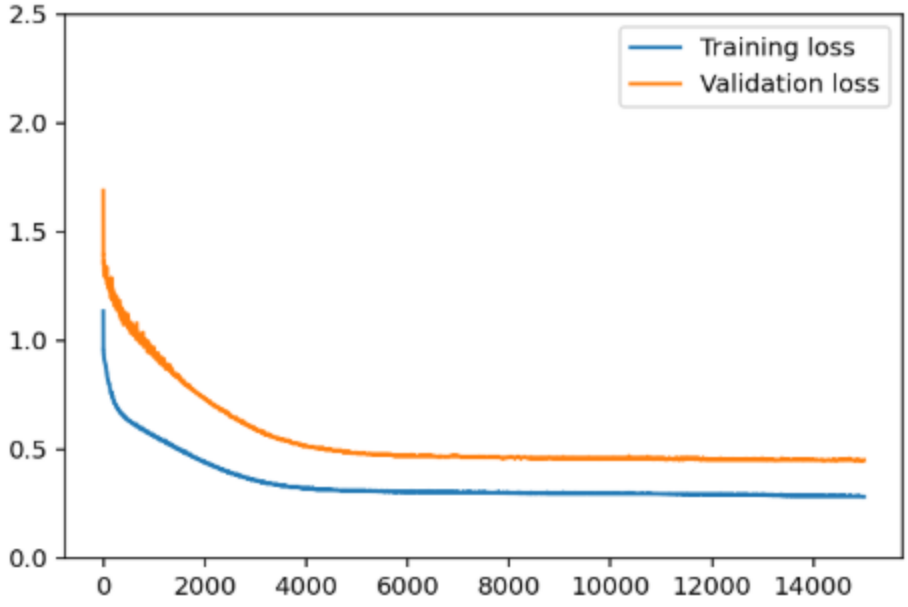
This is worse after setting hidden nodes up and learning rate down

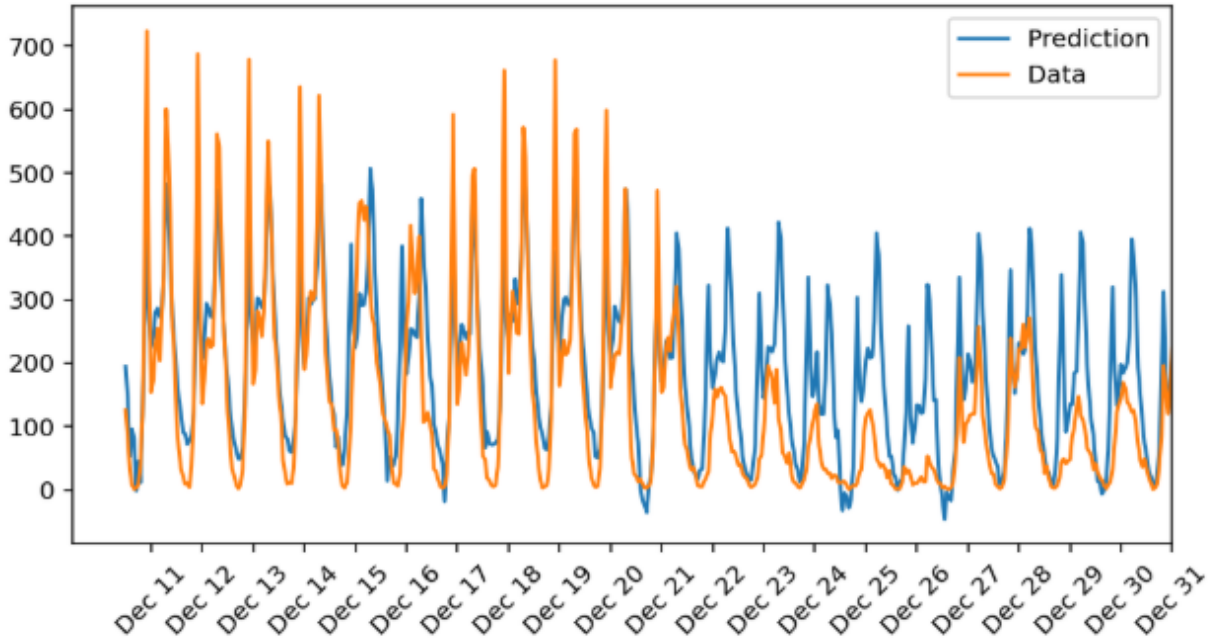





```
###############################################################
# Set your hyperparameters here
###############################################################
iterations = 15000
learning_rate = 0.02
hidden_nodes = 56
output_nodes = 1
# Require that TL < .09 and VL < .18
```

Progress: 100.0% ... Training loss: 0.281 ... Validation loss: 0.448


Training loss
Validation loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2000
4000
6000
8000
10000
12000
14000


Prediction
Data
700
600
500
400
300
200
100
0
Dec 11
Dec 12
Dec 13
Dec 14
Dec 15
Dec 16
Dec 17
Dec 18
Dec 19
Dec 20
Dec 21
Dec 22
Dec 23
Dec 24
Dec 25
Dec 26
Dec 27
Dec 28
Dec 29
Dec 30
Dec 31