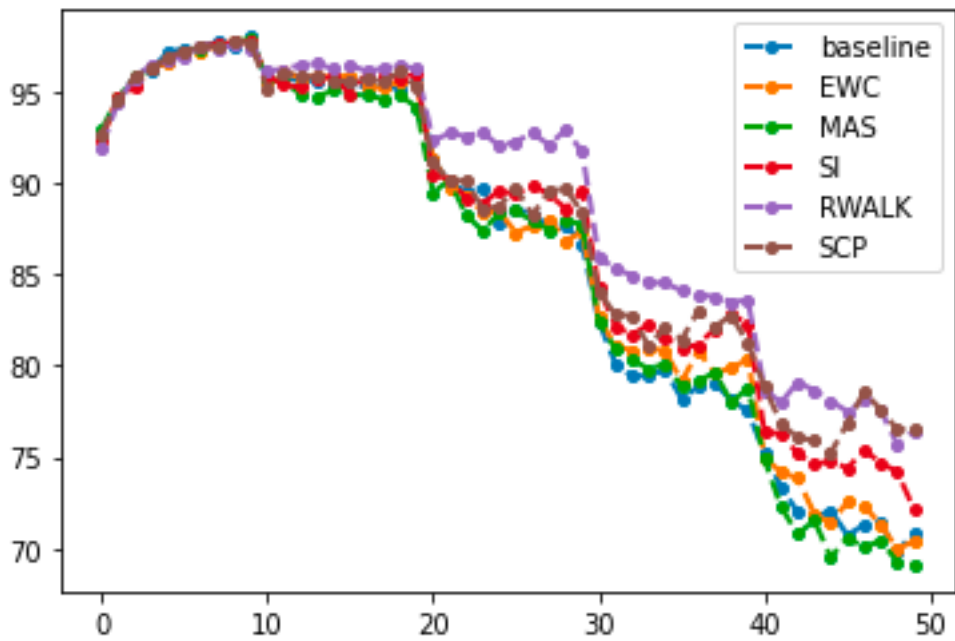


Q1: Plot the learning curve of the metric with every method. (The Plotting function is provided in the sample code.)



Q2: Describe the metric.

▼ Evaluate

This is our function of evaluation.

It can generally be applied in different regularization-based lifelong learning algorithms in this homework.

```
✓ [10] 1 def evaluate(model, test_dataloader, device):  
0      2     model.eval()  
秒      3     correct_cnt = 0  
        4     total = 0  
        5     for imgs, labels in test_dataloader:  
        6         imgs, labels = imgs.to(device), labels.to(device)  
        7         outputs = model(imgs)  
        8         _, pred_label = torch.max(outputs.data, 1)  
        9  
       10         correct_cnt += (pred_label == labels.data).sum().item()  
       11         total += torch.ones_like(labels.data).sum().item()  
       12     return correct_cnt / total
```

The screenshot is the evaluation step with special metrics. From line 9, it takes the max of each data; As a result, we know that “L-inf norm” is used in this part.

Ans: special metric = L-infinity norm

Q3: Paste the code that you implement Omega Matrix for MAS.

Ans:

```
output = torch.pow(output, 2)
loss = torch.sum(output, dim=1)
loss = loss.mean()
loss.backward()
```