HW7_1

December 5, 2023

```
[1]: import argparse
     import os
     import time
     import shutil
     import sys as sys
     import torch.nn.utils.prune as prune
     import torch
     import torch.nn as nn
     import torch.optim as optim
     import torch.nn.functional as F
     import torch.backends.cudnn as cudnn
     import torchvision
     import torchvision.transforms as transforms
     from models import *
     global best_prec
     use_gpu = torch.cuda.is_available()
     print('=> Building model...')
     device = torch.device("cuda")
     batch_size = 128
     model_name = "VGG16_quant_4bit_hw7"
     model = VGG16_quant()
     for name, module in model.named_modules():
         if isinstance(module, QuantConv2d):
             module.bit = 4
```

```
print(f"Layer name: {name}, bit: {module.bit}")
print(model)
normalize = transforms.Normalize(mean=[0.491, 0.482, 0.447], std=[0.247, 0.243,
 →0.262])
train_dataset = torchvision.datasets.CIFAR10(
   root='./data',
   train=True,
   download=True,
   transform=transforms.Compose([
        transforms.RandomCrop(32, padding=4),
        transforms.RandomHorizontalFlip(),
       transforms.ToTensor(),
       normalize,
   ]))
trainloader = torch.utils.data.DataLoader(train_dataset, batch_size=batch_size,_
 ⇒shuffle=True, num workers=2)
test_dataset = torchvision.datasets.CIFAR10(
   root='./data',
   train=False,
   download=True,
   transform=transforms.Compose([
       transforms.ToTensor(),
       normalize,
   1))
testloader = torch.utils.data.DataLoader(test_dataset, batch_size=batch_size,_u
 ⇒shuffle=False, num_workers=2)
print_freq = 100 # every 100 batches, accuracy printed. Here, each batch
 →includes "batch_size" data points
# CIFAR10 has 50,000 training data, and 10,000 validation data.
def train(trainloader, model, criterion, optimizer, epoch):
   batch_time = AverageMeter()
   data_time = AverageMeter()
   losses = AverageMeter()
   top1 = AverageMeter()
   model.train()
```

```
end = time.time()
    for i, (input, target) in enumerate(trainloader):
        # measure data loading time
        data_time.update(time.time() - end)
        input, target = input.cuda(), target.cuda()
        # compute output
        output = model(input)
        loss = criterion(output, target)
        # measure accuracy and record loss
        prec = accuracy(output, target)[0]
        losses.update(loss.item(), input.size(0))
        top1.update(prec.item(), input.size(0))
        # compute gradient and do SGD step
        optimizer.zero_grad()
        loss.backward()
        optimizer.step()
        # measure elapsed time
        batch time.update(time.time() - end)
        end = time.time()
        if i % print_freq == 0:
            print('Epoch: [{0}][{1}/{2}]\t'
                  'Time {batch_time.val:.3f} ({batch_time.avg:.3f})\t'
                  'Data {data_time.val:.3f} ({data_time.avg:.3f})\t'
                  'Loss {loss.val:.4f} ({loss.avg:.4f})\t'
                  'Prec {top1.val:.3f}% ({top1.avg:.3f}%)'.format(
                   epoch, i, len(trainloader), batch_time=batch_time,
                   data_time=data_time, loss=losses, top1=top1))
def validate(val_loader, model, criterion ):
    batch_time = AverageMeter()
    losses = AverageMeter()
    top1 = AverageMeter()
    # switch to evaluate mode
    model.eval()
    end = time.time()
```

```
with torch.no_grad():
        for i, (input, target) in enumerate(val_loader):
            input, target = input.cuda(), target.cuda()
            # compute output
            output = model(input)
            loss = criterion(output, target)
            # measure accuracy and record loss
            prec = accuracy(output, target)[0]
            losses.update(loss.item(), input.size(0))
            top1.update(prec.item(), input.size(0))
            # measure elapsed time
            batch_time.update(time.time() - end)
            end = time.time()
            if i % print_freq == 0: # This line shows how frequently print out_
 \rightarrowthe status. e.g., i%5 => every 5 batch, prints out
                print('Test: [{0}/{1}]\t'
                  'Time {batch time.val:.3f} ({batch time.avg:.3f})\t'
                  'Loss {loss.val:.4f} ({loss.avg:.4f})\t'
                  'Prec {top1.val:.3f}% ({top1.avg:.3f}%)'.format(
                   i, len(val_loader), batch_time=batch_time, loss=losses,
                   top1=top1))
    print(' * Prec {top1.avg:.3f}% '.format(top1=top1))
    return top1.avg
def accuracy(output, target, topk=(1,)):
    """Computes the precision@k for the specified values of k"""
    maxk = max(topk)
    batch_size = target.size(0)
    _, pred = output.topk(maxk, 1, True, True)
    pred = pred.t()
    correct = pred.eq(target.view(1, -1).expand_as(pred))
    res = []
    for k in topk:
        correct_k = correct[:k].view(-1).float().sum(0)
        res.append(correct_k.mul_(100.0 / batch_size))
    return res
```

```
class AverageMeter(object):
    """Computes and stores the average and current value"""
    def __init__(self):
        self.reset()
    def reset(self):
        self.val = 0
        self.avg = 0
        self.sum = 0
        self.count = 0
    def update(self, val, n=1):
        self.val = val
        self.sum += val * n
        self.count += n
        self.avg = self.sum / self.count
def save_checkpoint(state, is_best, fdir):
    filepath = os.path.join(fdir, 'checkpoint.pth')
    torch.save(state, filepath)
    if is best:
        shutil.copyfile(filepath, os.path.join(fdir, 'model_best.pth.tar'))
def adjust_learning_rate(optimizer, epoch):
    ⇔epochs"""
    adjust_list = [150, 225]
    if epoch in adjust_list:
        for param_group in optimizer.param_groups:
            param_group['lr'] = param_group['lr'] * 0.1
=> Building model...
Layer name: features.0, bit: 4
Layer name: features.3, bit: 4
Layer name: features.7, bit: 4
Layer name: features.10, bit: 4
Layer name: features.14, bit: 4
Layer name: features.17, bit: 4
Layer name: features.20, bit: 4
Layer name: features.24, bit: 4
Layer name: features.27, bit: 4
Layer name: features.30, bit: 4
Layer name: features.34, bit: 4
```

Layer name: features.37, bit: 4 Layer name: features.40, bit: 4

```
VGG_quant(
  (features): Sequential(
    (0): QuantConv2d(
      3, 64, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False
      (weight_quant): weight_quantize_fn()
    (1): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
    (2): ReLU(inplace=True)
    (3): QuantConv2d(
      64, 64, kernel size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False
      (weight_quant): weight_quantize_fn()
    (4): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True,
track_running_stats=True)
    (5): ReLU(inplace=True)
    (6): MaxPool2d(kernel_size=2, stride=2, padding=0, dilation=1,
ceil_mode=False)
    (7): QuantConv2d(
      64, 128, kernel size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False
      (weight_quant): weight_quantize_fn()
    (8): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
    (9): ReLU(inplace=True)
    (10): QuantConv2d(
      128, 128, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False
      (weight_quant): weight_quantize_fn()
    (11): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True,
track_running_stats=True)
    (12): ReLU(inplace=True)
    (13): MaxPool2d(kernel_size=2, stride=2, padding=0, dilation=1,
ceil_mode=False)
    (14): QuantConv2d(
      128, 256, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False
      (weight_quant): weight_quantize_fn()
    (15): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True,
track_running_stats=True)
    (16): ReLU(inplace=True)
    (17): QuantConv2d(
      256, 256, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False
      (weight_quant): weight_quantize_fn()
    (18): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True,
track_running_stats=True)
    (19): ReLU(inplace=True)
```

```
(20): QuantConv2d(
      256, 256, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False
      (weight_quant): weight_quantize_fn()
    (21): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
    (22): ReLU(inplace=True)
    (23): MaxPool2d(kernel_size=2, stride=2, padding=0, dilation=1,
ceil mode=False)
    (24): QuantConv2d(
      256, 512, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False
      (weight_quant): weight_quantize_fn()
    (25): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True,
track_running_stats=True)
    (26): ReLU(inplace=True)
    (27): QuantConv2d(
      512, 512, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False
      (weight_quant): weight_quantize_fn()
    )
    (28): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
    (29): ReLU(inplace=True)
    (30): QuantConv2d(
      512, 512, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False
      (weight_quant): weight_quantize_fn()
    )
    (31): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True,
track_running_stats=True)
    (32): ReLU(inplace=True)
    (33): MaxPool2d(kernel_size=2, stride=2, padding=0, dilation=1,
ceil_mode=False)
    (34): QuantConv2d(
      512, 512, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False
      (weight quant): weight quantize fn()
    (35): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True,
track running stats=True)
    (36): ReLU(inplace=True)
    (37): QuantConv2d(
     512, 512, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False
      (weight_quant): weight_quantize_fn()
    (38): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True,
track_running_stats=True)
    (39): ReLU(inplace=True)
    (40): QuantConv2d(
      512, 512, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False
```

```
(weight_quant): weight_quantize_fn()
        (41): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True,
    track_running_stats=True)
        (42): ReLU(inplace=True)
        (43): MaxPool2d(kernel_size=2, stride=2, padding=0, dilation=1,
    ceil mode=False)
        (44): AvgPool2d(kernel_size=1, stride=1, padding=0)
      (classifier): Linear(in_features=512, out_features=10, bias=True)
    Files already downloaded and verified
    Files already downloaded and verified
[2]: # Train
     lr = 4e-2 #hyperparameter 2
     weight_decay = 1e-4 #hyperparameter 3
     epochs = 260 #hyperparameter 4
     best_prec = 0 #hyperparameter 5
     #model = nn.DataParallel(model).cuda()
     model.cuda()
     criterion = nn.CrossEntropyLoss().cuda()
     optimizer = torch.optim.SGD(model.parameters(), lr=lr, momentum=0.9, __
      ⇒weight_decay=weight_decay)
     \#cudnn.benchmark = True
     if not os.path.exists('result'):
        os.makedirs('result')
     fdir = 'result/'+str(model name)
     if not os.path.exists(fdir):
         os.makedirs(fdir)
     for epoch in range(0, epochs):
         adjust_learning_rate(optimizer, epoch)
         train(trainloader, model, criterion, optimizer, epoch)
         # evaluate on test set
         print("Validation starts")
         prec = validate(testloader, model, criterion)
         # remember best precision and save checkpoint
         is_best = prec > best_prec
         best_prec = max(prec,best_prec)
         print('best acc: {:1f}'.format(best_prec))
```

```
save_checkpoint({
         'epoch': epoch + 1,
         'state_dict': model.state_dict(),
         'best_prec': best_prec,
         'optimizer': optimizer.state_dict(),
    }, is_best, fdir)
Epoch: [0] [0/391]
                        Time 1.781 (1.781)
                                                 Data 0.321 (0.321)
                                                                          Loss
2.5837 (2.5837)
                   Prec 10.156% (10.156%)
Epoch: [0] [100/391]
                        Time 0.053 (0.072)
                                                 Data 0.002 (0.006)
                                                                          Loss
2.2573 (2.8469)
                   Prec 10.938% (11.595%)
Epoch: [0] [200/391]
                        Time 0.054 (0.064)
                                                 Data 0.002 (0.004)
                                                                          Loss
2.0829 (2.5452)
                   Prec 24.219% (14.607%)
Epoch: [0] [300/391]
                        Time 0.051 (0.061)
                                                 Data 0.002 (0.004)
                                                                          Loss
1.8820 (2.3732)
                   Prec 28.906% (17.478%)
Validation starts
Test: [0/79]
                Time 0.310 (0.310)
                                        Loss 1.9007 (1.9007)
                                                                 Prec 32.812%
(32.812\%)
* Prec 29.860%
best acc: 29.860000
Epoch: [1] [0/391]
                        Time 0.459 (0.459)
                                                 Data 0.419 (0.419)
                                                                          Loss
1.8375 (1.8375)
                   Prec 32.812% (32.812%)
Epoch: [1] [100/391]
                        Time 0.054 (0.059)
                                                 Data 0.002 (0.007)
                                                                          Loss
1.8026 (1.8494)
                   Prec 32.812% (29.486%)
                                                 Data 0.002 (0.005)
Epoch: [1] [200/391]
                        Time 0.054 (0.057)
                                                                          Loss
1.7142 (1.8240)
                   Prec 37.500% (30.962%)
Epoch: [1] [300/391]
                        Time 0.063 (0.056)
                                                 Data 0.002 (0.004)
                                                                          Loss
                   Prec 44.531% (32.976%)
1.5488 (1.7757)
Validation starts
Test: [0/79]
                Time 0.425 (0.425)
                                        Loss 1.5969 (1.5969)
                                                                 Prec 39.062%
(39.062\%)
* Prec 39.060%
best acc: 39.060000
Epoch: [2] [0/391]
                        Time 0.416 (0.416)
                                                 Data 0.373 (0.373)
                                                                          Loss
1.8369 (1.8369)
                   Prec 33.594% (33.594%)
Epoch: [2] [100/391]
                        Time 0.055 (0.059)
                                                 Data 0.004 (0.007)
                                                                          Loss
1.4863 (1.5287)
                   Prec 44.531% (43.588%)
Epoch: [2] [200/391]
                        Time 0.057 (0.057)
                                                 Data 0.002 (0.005)
                                                                          Loss
1.5539 (1.4937)
                   Prec 45.312% (44.881%)
                                                 Data 0.003 (0.004)
Epoch: [2] [300/391]
                        Time 0.048 (0.056)
                                                                          Loss
1.1131 (1.4488)
                   Prec 58.594% (46.686%)
Validation starts
Test: [0/79]
                Time 0.355 (0.355)
                                        Loss 1.2639 (1.2639)
                                                                 Prec 56.250%
(56.250\%)
 * Prec 50.460%
best acc: 50.460000
                        Time 0.455 (0.455)
                                                 Data 0.397 (0.397)
Epoch: [3] [0/391]
                                                                          Loss
```

1 2070 (1 2070) 46 07	75% (40 075%)		
1.3070 (1.3070) Prec 46.87		D-+- 0 000	(0.000)
Epoch: [3] [100/391] Time		Data 0.002	(0.008) Loss
1.2008 (1.2424) Prec 61.71		Data 0.002	(0 005)
Epoch: [3][200/391] Time 1.0653 (1.2099) Prec 64.84	0.055 (0.058)	Data 0.002	(0.005) Loss
		Do+o 0 000	(0 004) I agg
Epoch: [3] [300/391] Time		Data 0.002	(0.004) Loss
1.0403 (1.1898) Prec 64.06 Validation starts	02% (01.400%)		
Test: [0/79] Time 0.345 (0) 3/5) 1099	1 0070 (1 007	0) Proc 58 50/9
(58.594%)).040) LOSS	1.0970 (1.097	0) Fiec 50.554%
* Prec 59.250%			
best acc: 59.250000			
Epoch: [4] [0/391] Time	0 408 (0 408)	Da+a 0 366	(0.366) Loss
1.1569 (1.1569) Prec 57.03		Data 0.500	(0.500) LOSS
Epoch: [4] [100/391] Time		Data 0.002	(0.007) Loss
0.9830 (1.0352) Prec 62.50		Data 0.002	(0.007)
	0.056 (0.057)	Data 0.006	(0.005) Loss
0.9421 (1.0284) Prec 70.31		Data 0.000	(0.000)
Epoch: [4] [300/391] Time		Data 0 002	(0.004) Loss
0.9575 (1.0076) Prec 67.18		Data 0.002	(0.004)
Validation starts	JO/6 (04.401/6/		
Test: [0/79] Time 0.353 (0) 353) Ingg	0 8384 (0 838	4) Prec 65 625%
(65.625%)).000) LOBB	0.0001 (0.000	1) 1100 00.020%
* Prec 66.440%			
best acc: 66.440000			
Epoch: [5] [0/391] Time	0.463 (0.463)	Data 0.424	(0.424) Loss
0.6622 (0.6622) Prec 74.21		2404 0.121	(0.121)
	0.056 (0.060)	Data 0.002	(0.008) Loss
0.9815 (0.8857) Prec 60.15		2404 0.002	(0.000)
Epoch: [5] [200/391] Time		Data 0.002	(0.005) Loss
1.0411 (0.8728) Prec 61.71		2404 01002	
	0.055 (0.057)	Data 0.004	(0.005) Loss
0.8665 (0.8636) Prec 67.96			
Validation starts	(() () () () () () () () () (
Test: [0/79] Time 0.330 (0).330) Loss	0.8184 (0.818	4) Prec 71.094%
(71.094%)		0.0201 (0.020	
* Prec 68.360%			
best acc: 68.360000			
	0.416 (0.416)	Data 0.373	(0.373) Loss
0.7553 (0.7553) Prec 72.65			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	0.053 (0.058)	Data 0.002	(0.006) Loss
0.8203 (0.7738) Prec 67.96	69% (73.383%)		
	0.052 (0.057)	Data 0.002	(0.004) Loss
0.8744 (0.7684) Prec 69.53			, ,
Epoch: [6][300/391] Time		Data 0.002	(0.004) Loss
0.8393 (0.7567) Prec 72.65			
Validation starts			
Test: [0/79] Time 0.358 (0).358) Loss	0.7248 (0.724	8) Prec 72.656%

(72.656%)	
* Prec 72.240%	
best acc: 72.240000	D
Epoch: [7] [0/391] Time 0.474 (0.474)	Data 0.429 (0.429) Loss
0.5844 (0.5844) Prec 78.906% (78.906%)	D
Epoch: [7] [100/391] Time 0.054 (0.059)	Data 0.002 (0.006) Loss
0.6762 (0.6938) Prec 76.562% (76.323%)	D
Epoch: [7] [200/391] Time 0.049 (0.057)	Data 0.004 (0.005) Loss
0.6590 (0.6911) Prec 80.469% (76.185%)	D
Epoch: [7] [300/391] Time 0.060 (0.057)	Data 0.002 (0.004) Loss
0.5830 (0.6870) Prec 80.469% (76.280%)	
Validation starts	0.0400 (0.0400)
Test: [0/79] Time 0.408 (0.408) Loss	0.6462 (0.6462) Prec /3.438%
(73.438%)	
* Prec 76.560%	
best acc: 76.560000	D-+- 0 264 (0 264) I
Epoch: [8] [0/391] Time 0.403 (0.403)	Data 0.364 (0.364) Loss
0.6550 (0.6550) Prec 76.562% (76.562%)	D + 0 000 (0 00E) I
Epoch: [8] [100/391] Time 0.054 (0.058)	Data 0.003 (0.005) Loss
0.5262 (0.6353) Prec 83.594% (78.318%)	Data 0 000 (0 004)
Epoch: [8] [200/391] Time 0.049 (0.057)	Data 0.002 (0.004) Loss
0.5146 (0.6299) Prec 83.594% (78.319%)	Data 0 000 (0 000)
Epoch: [8] [300/391] Time 0.051 (0.056)	Data 0.002 (0.003) Loss
0.6019 (0.6283) Prec 78.906% (78.460%)	
Validation starts	
T+: [0/70] Time 0 262 (0 262) I	0 F722 (0 F722) P 70 006%
Test: [0/79] Time 0.363 (0.363) Loss	0.5733 (0.5733) Prec 78.906%
(78.906%)	0.5733 (0.5733) Prec 78.906%
(78.906%) * Prec 77.450%	0.5733 (0.5733) Prec 78.906%
(78.906%) * Prec 77.450% best acc: 77.450000	
(78.906%) * Prec 77.450% best acc: 77.450000 Epoch: [9][0/391] Time 0.428 (0.428)	
(78.906%) * Prec 77.450% best acc: 77.450000 Epoch: [9][0/391] Time 0.428 (0.428) 0.8056 (0.8056) Prec 76.562% (76.562%)	Data 0.374 (0.374) Loss
(78.906%) * Prec 77.450% best acc: 77.450000 Epoch: [9][0/391] Time 0.428 (0.428) 0.8056 (0.8056) Prec 76.562% (76.562%) Epoch: [9][100/391] Time 0.057 (0.059)	
(78.906%) * Prec 77.450% best acc: 77.450000 Epoch: [9][0/391] Time 0.428 (0.428) 0.8056 (0.8056) Prec 76.562% (76.562%) Epoch: [9][100/391] Time 0.057 (0.059) 0.4364 (0.5775) Prec 83.594% (80.128%)	Data 0.374 (0.374) Loss Data 0.002 (0.006) Loss
(78.906%) * Prec 77.450% best acc: 77.450000 Epoch: [9][0/391] Time 0.428 (0.428) 0.8056 (0.8056) Prec 76.562% (76.562%) Epoch: [9][100/391] Time 0.057 (0.059) 0.4364 (0.5775) Prec 83.594% (80.128%) Epoch: [9][200/391] Time 0.055 (0.057)	Data 0.374 (0.374) Loss Data 0.002 (0.006) Loss
(78.906%) * Prec 77.450% best acc: 77.450000 Epoch: [9][0/391] Time 0.428 (0.428) 0.8056 (0.8056) Prec 76.562% (76.562%) Epoch: [9][100/391] Time 0.057 (0.059) 0.4364 (0.5775) Prec 83.594% (80.128%) Epoch: [9][200/391] Time 0.055 (0.057) 0.5063 (0.5810) Prec 82.812% (80.026%)	Data 0.374 (0.374) Loss Data 0.002 (0.006) Loss Data 0.002 (0.004) Loss
(78.906%) * Prec 77.450% best acc: 77.450000 Epoch: [9][0/391] Time 0.428 (0.428) 0.8056 (0.8056) Prec 76.562% (76.562%) Epoch: [9][100/391] Time 0.057 (0.059) 0.4364 (0.5775) Prec 83.594% (80.128%) Epoch: [9][200/391] Time 0.055 (0.057) 0.5063 (0.5810) Prec 82.812% (80.026%) Epoch: [9][300/391] Time 0.054 (0.056)	Data 0.374 (0.374) Loss Data 0.002 (0.006) Loss Data 0.002 (0.004) Loss
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Validation starts Test: [0/79] Time 0.332 (0.332) Loss 0.5034 (0.5034) Prec 79.688% (79.688%) * Prec 79.100% best acc: 79.100000 Epoch: [11][0/391] Time 0.388 (0.388) Data 0.343 (0.343) Loss 0.4410 (0.4410) Prec 84.375% (84.375%) Epoch: [11][100/391] Time 0.063 (0.059) Data 0.003 (0.007) Loss 0.6083 (0.4970) Prec 79.688% (82.998%) Epoch: [11][200/391] Time 0.058 (0.057) Data 0.001 (0.005) Loss 0.4802 (0.4999) Prec 85.156% (82.844%) Epoch: [11][300/391] Time 0.058 (0.057) Data 0.001 (0.005) Loss 0.5091 (0.4971) Prec 81.250% (82.924%) Validation starts Test: [0/79] Time 0.309 (0.309) Loss 0.6643 (0.6643) Prec 78.125% (78.125%) * Prec 78.060% best acc: 79.100000 Epoch: [12][10/391] Time 0.344 (0.344) Data 0.304 (0.304) Loss 0.6567 (0.6567) Prec 81.250% (81.250%) Epoch: [12][10/391] Time 0.055 (0.058) Data 0.002 (0.005) Loss 0.5939 (0.4644) Prec 80.469% (84.143%) Epoch: [12][200/391] Time 0.055 (0.058) Data 0.002 (0.004) Loss 0.6521 (0.4662) Prec 75.781% (84.037%) Epoch: [12][300/391] Time 0.055 (0.056) Data 0.001 (0.003) Loss 0.4439 (0.4706) Prec 87.500% (83.983%) Validation starts Test: [0/79] Time 0.303 (0.303) Loss 0.6385 (0.6385) Prec 79.688% (79.688%) * Prec 78.610% best acc: 79.100000 Epoch: [13][0/391] Time 0.055 (0.056) Data 0.001 (0.003) Loss 0.6174 (0.6174) Prec 79.688% (79.688%) * Prec 78.610% best acc: 79.100000 Epoch: [13][100/391] Time 0.055 (0.058) Data 0.001 (0.004) Loss 0.6174 (0.6174) Prec 79.688% (79.688%) * Prec 78.610% best acc: 79.100000 Epoch: [13][100/391] Time 0.055 (0.058) Data 0.002 (0.006) Loss 0.5092 (0.4418) Prec 81.250% (85.110%) Epoch: [13][100/391] Time 0.0505 (0.058) Data 0.002 (0.006) Loss 0.5092 (0.4418) Prec 81.250% (85.110%) Epoch: [13][100/391] Time 0.060 (0.056) Data 0.002 (0.006) Loss 0.3296 (0.4418) Prec 81.250% (85.110%) Epoch: [13][100/391] Time 0.060 (0.056) Data 0.002 (0.004) Loss 0.3296 (0.4418) Prec 82.031% (84.757%) Validation starts Test: [0/79] Time 0.363 (0.363) Loss 0.5266 (0.5266) Prec 78.906% (78.906%) **Prec 79.380000	Epoch: [10][300/391] 0.5552 (0.5344) Prec		Data 0.002	(0.004) Loss
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Epoch: [11][100/391]	_		Data 0.343	(0.343) LOSS
O.6083 (0.4970)			D . 0 000	(0.007)
Epoch: [11] [200/391]	_		Data 0.003	(0.007) Loss
O.4802 (0.4999)				
Epoch: [11][300/391]	Epoch: [11][200/391]	Time 0.058 (0.057)	Data 0.001	(0.005) Loss
0.5091 (0.4971)	0.4802 (0.4999) Prec	85.156% (82.844%)		
Validation starts Test: [0/79]	Epoch: [11][300/391]	Time 0.051 (0.056)	Data 0.002	(0.004) Loss
Test: [0/79]	0.5091 (0.4971) Prec	81.250% (82.924%)		
* Prec 78.060% best acc: 79.100000 Epoch: [12][0/391]	Validation starts			
* Prec 78.060% best acc: 79.100000 Epoch: [12][0/391]	Test: [0/79] Time 0.	309 (0.309) Loss	0.6643 (0.6643	B) Prec 78.125%
* Prec 78.060% best acc: 79.100000 Epoch: [12][0/391]			•	
Dest acc: 79.100000 Time 0.344 (0.344) Data 0.304 (0.304) Loss 0.6567 (0.6567) Prec 81.250% (81.250%) Data 0.002 (0.005) Loss 0.6567 (0.6567) Prec 81.250% (81.250%) Data 0.002 (0.005) Loss 0.5939 (0.4644) Prec 80.469% (84.143%) Data 0.002 (0.004) Loss 0.6521 (0.4662) Prec 75.781% (84.037%) Data 0.001 (0.003) Loss 0.6521 (0.4662) Prec 87.500% (83.983%) Data 0.001 (0.003) Loss 0.4439 (0.4706) Prec 87.500% (83.983%) Data 0.001 (0.003) Loss 0.4439 (0.4706) Prec 87.500% (83.983%) Prec 75.610% Data 0.001 (0.003) Loss 0.6385 (0.6385) Prec 79.688% (79.688%) Prec 78.610% Prec 79.688% (79.688%) Data 0.002 (0.006) Loss 0.6174 (0.6174) Prec 79.688% (79.688%) Data 0.002 (0.006) Loss 0.5092 (0.4418) Prec 81.250% (85.032%) Data 0.013 (0.004) Loss 0.3296 (0.4398) Prec 90.625% (85.032%) Epoch: [13] [200/391] Time 0.049 (0.056) Data 0.013 (0.004) Loss 0.4223 (0.4444) Prec 82.031% (84.757%) Validation starts Test: [0/79] Time 0.363 (0.363) Loss 0.5266 (0.5266) Prec 78.906% (78.906%) Prec 79.380% Pr				
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Epoch: [12] [300/391]	-		Data 0.002	(0.004) Loss
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Validation starts Test: [0/79] Time 0.303 (0.303) Loss 0.6385 (0.6385) Prec 79.688% (79.688%) * Prec 78.610% best acc: 79.100000 Epoch: [13] [0/391] Time 0.352 (0.352) Data 0.312 (0.312) Loss 0.6174 (0.6174) Prec 79.688% (79.688%) Epoch: [13] [100/391] Time 0.055 (0.058) Data 0.002 (0.006) Loss 0.5092 (0.4418) Prec 81.250% (85.110%) Epoch: [13] [200/391] Time 0.060 (0.056) Data 0.013 (0.004) Loss 0.3296 (0.4398) Prec 90.625% (85.032%) Epoch: [13] [300/391] Time 0.049 (0.056) Data 0.002 (0.004) Loss 0.4223 (0.4444) Prec 82.031% (84.757%) Validation starts Test: [0/79] Time 0.363 (0.363) Loss 0.5266 (0.5266) Prec 78.906% (78.906%) * Prec 79.380%	Epoch: [12][300/391]	Time 0.057 (0.056)	Data 0.001	(0.003) Loss
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<pre>(79.688%) * Prec 78.610% best acc: 79.100000 Epoch: [13] [0/391]</pre>	Test: [0/79] Time 0.	303 (0.303) Loss	0.6385 (0.6385	5) Prec 79.688%
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Validation starts Test: [0/79] Time 0.363 (0.363) Loss 0.5266 (0.5266) Prec 78.906% (78.906%) * Prec 79.380%	•		Data 0.002	(0.004) Loss
Test: [0/79] Time 0.363 (0.363) Loss 0.5266 (0.5266) Prec 78.906% (78.906%) * Prec 79.380%	0.4223 (0.4444) Prec	82.031% (84.757%)		
(78.906%) * Prec 79.380%	Validation starts			
* Prec 79.380%	Test: [0/79] Time 0.	363 (0.363) Loss	0.5266 (0.5266	Frec 78.906%
	(78.906%)			
Epoch: [14] [0/391] Time 0.464 (0.464) Data 0.407 (0.407) Loss		Time 0.464 (0.464)	Data 0.407	(0.407) Loss
0.3724 (0.3724) Prec 86.719% (86.719%)	_			

Epoch: [14][100/391] Time 0.059 (0.059)	Data 0.002 (0.007) Loss
0.2961 (0.4114) Prec 89.062% (85.736%) Epoch: [14][200/391] Time 0.063 (0.057)	Data 0.002 (0.005) Loss
0.4882 (0.4147) Prec 80.469% (85.724%) Epoch: [14] [300/391] Time 0.058 (0.057) 0.3819 (0.4202) Prec 89.062% (85.488%)	Data 0.002 (0.005) Loss
	s 0.4824 (0.4824) Prec 83.594%
(83.594%) * Prec 83.270%	
best acc: 83.270000	
Epoch: [15][0/391] Time 0.403 (0.403)	Data 0.349 (0.349) Loss
0.3072 (0.3072) Prec 89.844% (89.844%) Epoch: [15] [100/391] Time 0.053 (0.058)	Data 0.002 (0.006) Loss
0.3990 (0.3841) Prec 88.281% (87.036%)	
Epoch: [15][200/391] Time 0.045 (0.057)	Data 0.003 (0.004) Loss
0.4307 (0.3916) Prec 86.719% (86.758%)	
Epoch: [15][300/391] Time 0.053 (0.056)	Data 0.002 (0.004) Loss
0.5662 (0.3958) Prec 82.812% (86.566%)	
Validation starts	0 4040 (0 4040) D 05 000W
Test: [0/79] Time 0.367 (0.367) Loss	3 0.4040 (0.4040) Prec 85.938%
(85.938%)	
* Prec 83.780%	
best acc: 83.780000	Do+o 0 254 (0 254) Logg
Epoch: [16] [0/391] Time 0.393 (0.393) 0.3631 (0.3631) Prec 83.594% (83.594%)	Data 0.354 (0.354) Loss
Epoch: [16] [100/391] Time 0.051 (0.059)	Data 0.003 (0.007) Loss
0.4941 (0.3713) Prec 78.906% (87.229%)	Basa 0.000 (0.001)
Epoch: [16][200/391] Time 0.051 (0.057)	Data 0.002 (0.005) Loss
0.3459 (0.3777) Prec 89.844% (87.072%)	(1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
Epoch: [16] [300/391] Time 0.058 (0.057)	Data 0.002 (0.004) Loss
0.4068 (0.3771) Prec 82.812% (87.093%)	
Validation starts	
Test: [0/79] Time 0.303 (0.303) Loss	s 0.5261 (0.5261) Prec 80.469%
(80.469%)	
* Prec 81.750%	
best acc: 83.780000	
Epoch: [17] [0/391] Time 0.395 (0.395)	Data 0.348 (0.348) Loss
0.2437 (0.2437) Prec 90.625% (90.625%)	
Epoch: [17] [100/391] Time 0.058 (0.059)	Data 0.002 (0.006) Loss
0.2921 (0.3397) Prec 92.969% (88.320%)	
Epoch: [17] [200/391] Time 0.054 (0.057)	Data 0.002 (0.005) Loss
0.3068 (0.3506) Prec 89.844% (87.900%)	
Epoch: [17] [300/391] Time 0.053 (0.057)	Data 0.001 (0.004) Loss
0.3201 (0.3552) Prec 89.062% (87.705%)	
Validation starts	
Test: [0/79] Time 0.355 (0.355) Loss	s 0.4274 (0.4274) Prec 85.156%
(85.156%)	

* Prec 82.560%		
best acc: 83.780000		
Epoch: [18] [0/391] Time 0.385 (0.385)	Data 0.341 (0.341)	Loss
0.2157 (0.2157) Prec 94.531% (94.531%)		
Epoch: [18][100/391] Time 0.048 (0.059)	Data 0.002 (0.007)	Loss
0.4596 (0.3298) Prec 81.250% (88.622%)		
Epoch: [18][200/391] Time 0.058 (0.057)	Data 0.002 (0.005)	Loss
0.3240 (0.3352) Prec 89.062% (88.394%)		
Epoch: [18] [300/391] Time 0.053 (0.056)	Data 0.002 (0.004)	Loss
0.2178 (0.3356) Prec 91.406% (88.434%)		
Validation starts		
Test: [0/79] Time 0.310 (0.310) Loss	s 0.3356 (0.3356) Prec 90	0.625%
(90.625%)		
* Prec 85.320%		
best acc: 85.320000		
Epoch: [19] [0/391] Time 0.379 (0.379)	Data 0.333 (0.333)	Loss
0.2357 (0.2357) Prec 89.062% (89.062%)	244 0.000 (0.000)	
Epoch: [19] [100/391] Time 0.055 (0.059)	Data 0.002 (0.006)	Loss
0.5170 (0.3232) Prec 85.156% (89.086%)	Data 0.002 (0.000)	ПОВВ
Epoch: [19] [200/391] Time 0.055 (0.057)	Data 0.002 (0.004)	Loss
0.3334 (0.3235) Prec 88.281% (88.958%)	Data 0.002 (0.004)	LOSS
Epoch: [19] [300/391] Time 0.053 (0.056)	Data 0.002 (0.003)	Loss
0.4362 (0.3273) Prec 85.938% (88.787%)	Data 0.002 (0.003)	LUSS
Validation starts		
Validation Starts		
Tog+ \cdot $\lceil 0/70 \rceil$ Time $0.377 (0.377)$ Legs	7 0 3044 (0 3044) Proc 91	106%
Test: [0/79] Time 0.377 (0.377) Loss	s 0.3044 (0.3044) Prec 91	1.406%
(91.406%)	s 0.3044 (0.3044) Prec 91	1.406%
(91.406%) * Prec 85.320%	s 0.3044 (0.3044) Prec 91	1.406%
(91.406%) * Prec 85.320% best acc: 85.320000		
(91.406%) * Prec 85.320% best acc: 85.320000 Epoch: [20] [0/391] Time 0.419 (0.419)		
(91.406%) * Prec 85.320% best acc: 85.320000 Epoch: [20] [0/391] Time 0.419 (0.419) 0.3860 (0.3860) Prec 86.719% (86.719%)	Data 0.380 (0.380)	Loss
(91.406%) * Prec 85.320% best acc: 85.320000 Epoch: [20] [0/391] Time 0.419 (0.419) 0.3860 (0.3860) Prec 86.719% (86.719%) Epoch: [20] [100/391] Time 0.054 (0.058)		Loss
(91.406%) * Prec 85.320% best acc: 85.320000 Epoch: [20] [0/391] Time 0.419 (0.419) 0.3860 (0.3860) Prec 86.719% (86.719%) Epoch: [20] [100/391] Time 0.054 (0.058) 0.3117 (0.3100) Prec 89.062% (89.349%)	Data 0.380 (0.380) Data 0.002 (0.006)	Loss
(91.406%) * Prec 85.320% best acc: 85.320000 Epoch: [20] [0/391] Time 0.419 (0.419) 0.3860 (0.3860) Prec 86.719% (86.719%) Epoch: [20] [100/391] Time 0.054 (0.058) 0.3117 (0.3100) Prec 89.062% (89.349%) Epoch: [20] [200/391] Time 0.056 (0.057)	Data 0.380 (0.380) Data 0.002 (0.006)	Loss
(91.406%) * Prec 85.320% best acc: 85.320000 Epoch: [20] [0/391] Time 0.419 (0.419) 0.3860 (0.3860) Prec 86.719% (86.719%) Epoch: [20] [100/391] Time 0.054 (0.058) 0.3117 (0.3100) Prec 89.062% (89.349%) Epoch: [20] [200/391] Time 0.056 (0.057) 0.4097 (0.3147) Prec 83.594% (89.199%)	Data 0.380 (0.380) Data 0.002 (0.006) Data 0.006 (0.004)	Loss Loss Loss
(91.406%) * Prec 85.320% best acc: 85.320000 Epoch: [20] [0/391] Time 0.419 (0.419) 0.3860 (0.3860) Prec 86.719% (86.719%) Epoch: [20] [100/391] Time 0.054 (0.058) 0.3117 (0.3100) Prec 89.062% (89.349%) Epoch: [20] [200/391] Time 0.056 (0.057) 0.4097 (0.3147) Prec 83.594% (89.199%) Epoch: [20] [300/391] Time 0.054 (0.056)	Data 0.380 (0.380) Data 0.002 (0.006) Data 0.006 (0.004)	Loss
(91.406%) * Prec 85.320% best acc: 85.320000 Epoch: [20] [0/391] Time 0.419 (0.419) 0.3860 (0.3860) Prec 86.719% (86.719%) Epoch: [20] [100/391] Time 0.054 (0.058) 0.3117 (0.3100) Prec 89.062% (89.349%) Epoch: [20] [200/391] Time 0.056 (0.057) 0.4097 (0.3147) Prec 83.594% (89.199%) Epoch: [20] [300/391] Time 0.054 (0.056) 0.4106 (0.3152) Prec 85.156% (89.174%)	Data 0.380 (0.380) Data 0.002 (0.006) Data 0.006 (0.004)	Loss Loss Loss
(91.406%) * Prec 85.320% best acc: 85.320000 Epoch: [20] [0/391] Time 0.419 (0.419) 0.3860 (0.3860) Prec 86.719% (86.719%) Epoch: [20] [100/391] Time 0.054 (0.058) 0.3117 (0.3100) Prec 89.062% (89.349%) Epoch: [20] [200/391] Time 0.056 (0.057) 0.4097 (0.3147) Prec 83.594% (89.199%) Epoch: [20] [300/391] Time 0.054 (0.056) 0.4106 (0.3152) Prec 85.156% (89.174%) Validation starts	Data 0.380 (0.380) Data 0.002 (0.006) Data 0.006 (0.004) Data 0.002 (0.004)	Loss Loss Loss
(91.406%) * Prec 85.320% best acc: 85.320000 Epoch: [20] [0/391] Time 0.419 (0.419) 0.3860 (0.3860) Prec 86.719% (86.719%) Epoch: [20] [100/391] Time 0.054 (0.058) 0.3117 (0.3100) Prec 89.062% (89.349%) Epoch: [20] [200/391] Time 0.056 (0.057) 0.4097 (0.3147) Prec 83.594% (89.199%) Epoch: [20] [300/391] Time 0.054 (0.056) 0.4106 (0.3152) Prec 85.156% (89.174%) Validation starts Test: [0/79] Time 0.364 (0.364) Loss	Data 0.380 (0.380) Data 0.002 (0.006) Data 0.006 (0.004) Data 0.002 (0.004)	Loss Loss Loss
(91.406%) * Prec 85.320% best acc: 85.320000 Epoch: [20] [0/391] Time 0.419 (0.419) 0.3860 (0.3860) Prec 86.719% (86.719%) Epoch: [20] [100/391] Time 0.054 (0.058) 0.3117 (0.3100) Prec 89.062% (89.349%) Epoch: [20] [200/391] Time 0.056 (0.057) 0.4097 (0.3147) Prec 83.594% (89.199%) Epoch: [20] [300/391] Time 0.054 (0.056) 0.4106 (0.3152) Prec 85.156% (89.174%) Validation starts Test: [0/79] Time 0.364 (0.364) Loss (89.844%)	Data 0.380 (0.380) Data 0.002 (0.006) Data 0.006 (0.004) Data 0.002 (0.004)	Loss Loss Loss
(91.406%) * Prec 85.320% best acc: 85.320000 Epoch: [20] [0/391] Time 0.419 (0.419) 0.3860 (0.3860) Prec 86.719% (86.719%) Epoch: [20] [100/391] Time 0.054 (0.058) 0.3117 (0.3100) Prec 89.062% (89.349%) Epoch: [20] [200/391] Time 0.056 (0.057) 0.4097 (0.3147) Prec 83.594% (89.199%) Epoch: [20] [300/391] Time 0.054 (0.056) 0.4106 (0.3152) Prec 85.156% (89.174%) Validation starts Test: [0/79] Time 0.364 (0.364) Loss (89.844%) * Prec 84.070%	Data 0.380 (0.380) Data 0.002 (0.006) Data 0.006 (0.004) Data 0.002 (0.004)	Loss Loss Loss
(91.406%) * Prec 85.320% best acc: 85.320000 Epoch: [20] [0/391] Time 0.419 (0.419) 0.3860 (0.3860) Prec 86.719% (86.719%) Epoch: [20] [100/391] Time 0.054 (0.058) 0.3117 (0.3100) Prec 89.062% (89.349%) Epoch: [20] [200/391] Time 0.056 (0.057) 0.4097 (0.3147) Prec 83.594% (89.199%) Epoch: [20] [300/391] Time 0.054 (0.056) 0.4106 (0.3152) Prec 85.156% (89.174%) Validation starts Test: [0/79] Time 0.364 (0.364) Loss (89.844%) * Prec 84.070% best acc: 85.320000	Data 0.380 (0.380) Data 0.002 (0.006) Data 0.006 (0.004) Data 0.002 (0.004) S 0.2822 (0.2822) Prec 89	Loss Loss Loss Loss
(91.406%) * Prec 85.320% best acc: 85.320000 Epoch: [20] [0/391] Time 0.419 (0.419) 0.3860 (0.3860) Prec 86.719% (86.719%) Epoch: [20] [100/391] Time 0.054 (0.058) 0.3117 (0.3100) Prec 89.062% (89.349%) Epoch: [20] [200/391] Time 0.056 (0.057) 0.4097 (0.3147) Prec 83.594% (89.199%) Epoch: [20] [300/391] Time 0.054 (0.056) 0.4106 (0.3152) Prec 85.156% (89.174%) Validation starts Test: [0/79] Time 0.364 (0.364) Loss (89.844%) * Prec 84.070% best acc: 85.320000 Epoch: [21] [0/391] Time 0.396 (0.396)	Data 0.380 (0.380) Data 0.002 (0.006) Data 0.006 (0.004) Data 0.002 (0.004) S 0.2822 (0.2822) Prec 89	Loss Loss Loss
(91.406%) * Prec 85.320% best acc: 85.320000 Epoch: [20] [0/391] Time 0.419 (0.419) 0.3860 (0.3860) Prec 86.719% (86.719%) Epoch: [20] [100/391] Time 0.054 (0.058) 0.3117 (0.3100) Prec 89.062% (89.349%) Epoch: [20] [200/391] Time 0.056 (0.057) 0.4097 (0.3147) Prec 83.594% (89.199%) Epoch: [20] [300/391] Time 0.054 (0.056) 0.4106 (0.3152) Prec 85.156% (89.174%) Validation starts Test: [0/79] Time 0.364 (0.364) Loss (89.844%) * Prec 84.070% best acc: 85.320000 Epoch: [21] [0/391] Time 0.396 (0.396) 0.2617 (0.2617) Prec 88.281% (88.281%)	Data 0.380 (0.380) Data 0.002 (0.006) Data 0.006 (0.004) Data 0.002 (0.004) s 0.2822 (0.2822) Prec 89	Loss Loss Loss Loss Loss
(91.406%) * Prec 85.320% best acc: 85.320000 Epoch: [20] [0/391] Time 0.419 (0.419) 0.3860 (0.3860) Prec 86.719% (86.719%) Epoch: [20] [100/391] Time 0.054 (0.058) 0.3117 (0.3100) Prec 89.062% (89.349%) Epoch: [20] [200/391] Time 0.056 (0.057) 0.4097 (0.3147) Prec 83.594% (89.199%) Epoch: [20] [300/391] Time 0.054 (0.056) 0.4106 (0.3152) Prec 85.156% (89.174%) Validation starts Test: [0/79] Time 0.364 (0.364) Loss (89.844%) * Prec 84.070% best acc: 85.320000 Epoch: [21] [0/391] Time 0.396 (0.396) 0.2617 (0.2617) Prec 88.281% (88.281%) Epoch: [21] [100/391] Time 0.055 (0.059)	Data 0.380 (0.380) Data 0.002 (0.006) Data 0.006 (0.004) Data 0.002 (0.004) s 0.2822 (0.2822) Prec 89	Loss Loss Loss Loss
(91.406%) * Prec 85.320% best acc: 85.320000 Epoch: [20] [0/391] Time 0.419 (0.419) 0.3860 (0.3860) Prec 86.719% (86.719%) Epoch: [20] [100/391] Time 0.054 (0.058) 0.3117 (0.3100) Prec 89.062% (89.349%) Epoch: [20] [200/391] Time 0.056 (0.057) 0.4097 (0.3147) Prec 83.594% (89.199%) Epoch: [20] [300/391] Time 0.054 (0.056) 0.4106 (0.3152) Prec 85.156% (89.174%) Validation starts Test: [0/79] Time 0.364 (0.364) Loss (89.844%) * Prec 84.070% best acc: 85.320000 Epoch: [21] [0/391] Time 0.396 (0.396) 0.2617 (0.2617) Prec 88.281% (88.281%) Epoch: [21] [100/391] Time 0.055 (0.059) 0.3252 (0.2957) Prec 85.156% (89.596%)	Data 0.380 (0.380) Data 0.002 (0.006) Data 0.006 (0.004) Data 0.002 (0.004) S 0.2822 (0.2822) Prec 89 Data 0.348 (0.348) Data 0.002 (0.007)	Loss Loss Loss Loss Loss Loss Loss
(91.406%) * Prec 85.320% best acc: 85.320000 Epoch: [20] [0/391] Time 0.419 (0.419) 0.3860 (0.3860) Prec 86.719% (86.719%) Epoch: [20] [100/391] Time 0.054 (0.058) 0.3117 (0.3100) Prec 89.062% (89.349%) Epoch: [20] [200/391] Time 0.056 (0.057) 0.4097 (0.3147) Prec 83.594% (89.199%) Epoch: [20] [300/391] Time 0.054 (0.056) 0.4106 (0.3152) Prec 85.156% (89.174%) Validation starts Test: [0/79] Time 0.364 (0.364) Loss (89.844%) * Prec 84.070% best acc: 85.320000 Epoch: [21] [0/391] Time 0.396 (0.396) 0.2617 (0.2617) Prec 88.281% (88.281%) Epoch: [21] [100/391] Time 0.055 (0.059) 0.3252 (0.2957) Prec 85.156% (89.596%) Epoch: [21] [200/391] Time 0.054 (0.057)	Data 0.380 (0.380) Data 0.002 (0.006) Data 0.006 (0.004) Data 0.002 (0.004) S 0.2822 (0.2822) Prec 89 Data 0.348 (0.348) Data 0.002 (0.007)	Loss Loss Loss Loss Loss
(91.406%) * Prec 85.320% best acc: 85.320000 Epoch: [20] [0/391] Time 0.419 (0.419) 0.3860 (0.3860) Prec 86.719% (86.719%) Epoch: [20] [100/391] Time 0.054 (0.058) 0.3117 (0.3100) Prec 89.062% (89.349%) Epoch: [20] [200/391] Time 0.056 (0.057) 0.4097 (0.3147) Prec 83.594% (89.199%) Epoch: [20] [300/391] Time 0.054 (0.056) 0.4106 (0.3152) Prec 85.156% (89.174%) Validation starts Test: [0/79] Time 0.364 (0.364) Loss (89.844%) * Prec 84.070% best acc: 85.320000 Epoch: [21] [0/391] Time 0.396 (0.396) 0.2617 (0.2617) Prec 88.281% (88.281%) Epoch: [21] [100/391] Time 0.055 (0.059) 0.3252 (0.2957) Prec 85.156% (89.596%)	Data 0.380 (0.380) Data 0.002 (0.006) Data 0.006 (0.004) Data 0.002 (0.004) S 0.2822 (0.2822) Prec 89 Data 0.348 (0.348) Data 0.002 (0.007) Data 0.002 (0.005)	Loss Loss Loss Loss Loss Loss Loss

0.2255 (0.2990) Prec 91.406% (89.623%)	
Validation starts	
Test: [0/79] Time 0.376 (0.376) Loss	s 0.3102 (0.3102) Prec 89.844%
(89.844%)	
* Prec 86.050%	
best acc: 86.050000	
Epoch: [22] [0/391] Time 0.394 (0.394)	Data 0.353 (0.353) Loss
0.2498 (0.2498) Prec 92.188% (92.188%)	Dava 0.000 (0.000) Hobb
Epoch: [22] [100/391] Time 0.077 (0.059)	Data 0.002 (0.007) Loss
0.3369 (0.2739) Prec 87.500% (90.756%)	Data 0.002 (0.001) Lobb
Epoch: [22] [200/391] Time 0.056 (0.057)	Data 0.003 (0.005) Loss
0.2310 (0.2836) Prec 89.844% (90.345%)	Data 0.003 (0.003) LOSS
Epoch: [22] [300/391] Time 0.054 (0.057)	Data 0.002 (0.004) Loss
0.3379 (0.2876) Prec 87.500% (90.070%)	Data 0.002 (0.004) LOSS
Validation starts	
Test: [0/79] Time 0.418 (0.418) Loss	, 0 2010 (0 2010) Proc 00 100%
	3 0.3012 (0.3012) Prec 92.100%
(92.188%)	
* Prec 86.090%	
best acc: 86.090000	D-+- 0 20C (0 20C)
Epoch: [23] [0/391] Time 0.451 (0.451)	Data 0.396 (0.396) Loss
0.2165 (0.2165) Prec 93.750% (93.750%)	D
Epoch: [23] [100/391] Time 0.050 (0.060)	Data 0.002 (0.007) Loss
0.3360 (0.2687) Prec 89.844% (90.679%)	
1	Data 0.002 (0.005) Loss
0.2665 (0.2720) Prec 90.625% (90.590%)	
Epoch: [23][300/391] Time 0.055 (0.056)	Data 0.002 (0.004) Loss
0.3443 (0.2714) Prec 83.594% (90.612%)	
Validation starts	
Test: [0/79] Time 0.344 (0.344) Loss	s 0.3060 (0.3060) Prec 90.625%
(90.625%)	
* Prec 86.580%	
best acc: 86.580000	
Epoch: [24] [0/391] Time 0.419 (0.419)	Data 0.375 (0.375) Loss
0.2162 (0.2162) Prec 93.750% (93.750%)	
Epoch: [24][100/391] Time 0.056 (0.059)	Data 0.004 (0.007) Loss
0.1890 (0.2478) Prec 94.531% (91.321%)	
Epoch: [24][200/391] Time 0.058 (0.057)	D-+- 0 000 (0 00E) I
0.3586 (0.2534) Prec 89.844% (91.107%)	Data 0.002 (0.005) Loss
0.5566 (0.2554) Prec 69.644% (91.107%)	Data 0.002 (0.005) Loss
Epoch: [24][300/391] Time 0.051 (0.056)	
Epoch: [24][300/391] Time 0.051 (0.056) 0.3048 (0.2577) Prec 91.406% (91.058%)	
Epoch: [24][300/391] Time 0.051 (0.056) 0.3048 (0.2577) Prec 91.406% (91.058%) Validation starts	Data 0.011 (0.004) Loss
Epoch: [24][300/391] Time 0.051 (0.056) 0.3048 (0.2577) Prec 91.406% (91.058%) Validation starts Test: [0/79] Time 0.357 (0.357) Loss	Data 0.011 (0.004) Loss
Epoch: [24][300/391] Time 0.051 (0.056) 0.3048 (0.2577) Prec 91.406% (91.058%) Validation starts Test: [0/79] Time 0.357 (0.357) Loss (90.625%)	Data 0.011 (0.004) Loss
Epoch: [24][300/391] Time 0.051 (0.056) 0.3048 (0.2577) Prec 91.406% (91.058%) Validation starts Test: [0/79] Time 0.357 (0.357) Loss (90.625%) * Prec 86.150%	Data 0.011 (0.004) Loss
Epoch: [24][300/391] Time 0.051 (0.056) 0.3048 (0.2577) Prec 91.406% (91.058%) Validation starts Test: [0/79] Time 0.357 (0.357) Loss (90.625%) * Prec 86.150% best acc: 86.580000	Data 0.011 (0.004) Loss s 0.2743 (0.2743) Prec 90.625%
Epoch: [24][300/391] Time 0.051 (0.056) 0.3048 (0.2577) Prec 91.406% (91.058%) Validation starts Test: [0/79] Time 0.357 (0.357) Loss (90.625%) * Prec 86.150% best acc: 86.580000 Epoch: [25][0/391] Time 0.366 (0.366)	Data 0.011 (0.004) Loss s 0.2743 (0.2743) Prec 90.625%
Epoch: [24][300/391] Time 0.051 (0.056) 0.3048 (0.2577) Prec 91.406% (91.058%) Validation starts Test: [0/79] Time 0.357 (0.357) Loss (90.625%) * Prec 86.150% best acc: 86.580000	Data 0.011 (0.004) Loss s 0.2743 (0.2743) Prec 90.625% Data 0.322 (0.322) Loss

0.1257 (0.0420)	OF 240% (04 740%)					
0.1357 (0.2439) Prec Epoch: [25][200/391]			Do+o	0 002	(0 004)	Loss
0.3510 (0.2466) Prec			раца	0.002	(0.004)	LUSS
	Time 0.051 (0.056		Da+a	0 002	(0.004)	Loss
0.3029 (0.2478) Prec			Dava	0.002	(0.004)	LUSS
Validation starts	07.500% (31.515%)	,				
Test: [0/79] Time 0.3	364 (0.364) I	088	0 3252	(0.3252)) Prec	88 281%
(88.281%)	701 (0.001)	2000	0.0202	(0.0202	., 1100	00.201/
* Prec 86.110%						
best acc: 86.580000						
Epoch: [26] [0/391]	Time 0.359 (0.359	9)	Data	0.320	(0.320)	Loss
0.2306 (0.2306) Prec			2404	0.020	(01020)	
Epoch: [26] [100/391]			Data	0.004	(0.006)	Loss
0.2186 (0.2284) Prec					(
Epoch: [26] [200/391]			Data	0.004	(0.004)	Loss
0.2719 (0.2401) Prec					,	
Epoch: [26] [300/391]			Data	0.015	(0.004)	Loss
0.1983 (0.2446) Prec						
Validation starts						
Test: [0/79] Time 0.3	357 (0.357) I	Loss	0.3406	(0.3406	S) Prec	89.844%
(89.844%)						
* Prec 87.510%						
best acc: 87.510000						
Epoch: [27][0/391]	Time 0.442 (0.442	2)	Data	0.393	(0.393)	Loss
0.1528 (0.1528) Prec	93.750% (93.750%))				
Epoch: [27][100/391]	Time 0.055 (0.059	9)	Data	0.015	(0.007)	Loss
0.2164 (0.2283) Prec	92.188% (92.334%))				
Epoch: [27][200/391]	Time 0.060 (0.058	3)	Data	0.002	(0.005)	Loss
0.2387 (0.2261) Prec	92.969% (92.343%))				
Epoch: [27][300/391]	Time 0.054 (0.057	7)	Data	0.002	(0.004)	Loss
0.3883 (0.2276) Prec	86.719% (92.255%))				
Validation starts						
Test: [0/79] Time 0.3	312 (0.312) I	Loss	0.3422	(0.3422	Prec	89.844%
(89.844%)						
* Prec 87.170%						
best acc: 87.510000						
Epoch: [28] [0/391]	Time 0.459 (0.459	9)	Data	0.408	(0.408)	Loss
0.2602 (0.2602) Prec	90.625% (90.625%))				
. · · -	Time 0.061 (0.060		Data	0.002	(0.007)	Loss
0.1522 (0.2098) Prec						
Epoch: [28][200/391]			Data	0.002	(0.005)	Loss
0.2501 (0.2162) Prec						
-	Time 0.051 (0.057		Data	0.002	(0.004)	Loss
0.1625 (0.2239) Prec	94.531% (92.167%))				
Validation starts		_		/a = · ·		
Test: [0/79] Time 0.3	369 (0.369) I	Loss	0.3436	(0.3436	i) Prec	89.844%
(89.844%)						
* Prec 86.200%						

best acc: 87.510000	
Epoch: [29] [0/391] Time 0.377 (0.377)	Data 0.336 (0.336) Loss
0.2603 (0.2603) Prec 92.969% (92.969%)	Edsa 0.000 (0.000) Hoss
Epoch: [29] [100/391] Time 0.050 (0.058)	Data 0.002 (0.006) Loss
0.1183 (0.2077) Prec 96.094% (92.853%)	2404 0.002 (0.000) 2022
Epoch: [29] [200/391] Time 0.052 (0.057)	Data 0.002 (0.004) Loss
0.2327 (0.2138) Prec 89.844% (92.452%)	2404 0.002 (0.001) 2022
Epoch: [29] [300/391] Time 0.059 (0.056)	Data 0.002 (0.004) Loss
0.2262 (0.2155) Prec 92.969% (92.483%)	2404 01002 (01002), 2022
Validation starts	
Test: [0/79] Time 0.378 (0.378) Loss	s 0.2685 (0.2685) Prec 91.406%
(91.406%)	
* Prec 87.710%	
best acc: 87.710000	
Epoch: [30] [0/391] Time 0.440 (0.440)	Data 0.400 (0.400) Loss
0.1782 (0.1782) Prec 92.188% (92.188%)	
Epoch: [30] [100/391] Time 0.060 (0.059)	Data 0.002 (0.007) Loss
0.1856 (0.1946) Prec 92.188% (93.239%)	, , , , , , , , , , , , , , , , , , ,
Epoch: [30][200/391] Time 0.067 (0.058)	Data 0.003 (0.006) Loss
0.0796 (0.1995) Prec 97.656% (93.012%)	, , , , , , , , , , , , , , , , , , ,
Epoch: [30][300/391] Time 0.062 (0.057)	Data 0.014 (0.005) Loss
0.2486 (0.2027) Prec 91.406% (92.888%)	, , , , , , , , , , , , , , , , , , ,
Validation starts	
Test: [0/79] Time 0.282 (0.282) Loss	s 0.3100 (0.3100) Prec 91.406%
(91.406%)	
* Prec 87.420%	
best acc: 87.710000	
Epoch: [31] [0/391] Time 0.409 (0.409)	Data 0.364 (0.364) Loss
0.2839 (0.2839) Prec 92.188% (92.188%)	
Epoch: [31] [100/391] Time 0.054 (0.059)	Data 0.002 (0.007) Loss
0.1410 (0.1801) Prec 96.875% (93.920%)	
Epoch: [31][200/391] Time 0.060 (0.058)	Data 0.004 (0.006) Loss
0.3327 (0.1890) Prec 89.062% (93.552%)	
Epoch: [31][300/391] Time 0.046 (0.057)	Data 0.006 (0.005) Loss
0.4086 (0.1930) Prec 87.500% (93.361%)	
Validation starts	
Test: [0/79] Time 0.339 (0.339) Loss	s 0.2685 (0.2685) Prec 91.406%
(91.406%)	
* Prec 86.890%	
best acc: 87.710000	
Epoch: [32][0/391] Time 0.479 (0.479)	Data 0.435 (0.435) Loss
0.1471 (0.1471) Prec 92.969% (92.969%)	
Epoch: [32][100/391] Time 0.054 (0.060)	Data 0.003 (0.008) Loss
0.1938 (0.1904) Prec 92.188% (93.479%)	
Epoch: [32][200/391] Time 0.049 (0.058)	Data 0.002 (0.006) Loss
0.1794 (0.1876) Prec 93.750% (93.482%)	
Epoch: [32][300/391] Time 0.063 (0.057)	Data 0.002 (0.005) Loss
0.1532 (0.1962) Prec 93.750% (93.249%)	

Validation starts Test: [0/79] Time 0.344 (0.344) Loss (88.281%) * Prec 87.070%	0.4121 (0.4121) Prec 88.281%
best acc: 87.710000 Epoch: [33] [0/391] Time 0.376 (0.376)	Data 0.337 (0.337) Loss
0.1590 (0.1590) Prec 92.969% (92.969%) Epoch: [33] [100/391] Time 0.054 (0.058) 0.1645 (0.1835) Prec 95.312% (93.765%)	Data 0.002 (0.006) Loss
Epoch: [33] [200/391] Time 0.066 (0.057) 0.1820 (0.1831) Prec 92.188% (93.703%)	Data 0.002 (0.004) Loss
Epoch: [33] [300/391] Time 0.054 (0.056) 0.1549 (0.1840) Prec 94.531% (93.646%)	Data 0.004 (0.004) Loss
Validation starts	
Test: [0/79] Time 0.375 (0.375) Loss (92.188%)	0.2643 (0.2643) Prec 92.188%
* Prec 87.030%	
best acc: 87.710000	
Epoch: [34] [0/391] Time 0.455 (0.455) 0.0923 (0.0923) Prec 97.656% (97.656%)	Data 0.410 (0.410) Loss
Epoch: [34][100/391] Time 0.055 (0.059)	Data 0.002 (0.007) Loss
0.1506 (0.1601) Prec 96.875% (94.392%) Epoch: [34][200/391] Time 0.088 (0.058)	Data 0.002 (0.005) Loss
0.1969 (0.1698) Prec 89.844% (94.080%)	
Epoch: [34][300/391] Time 0.045 (0.057)	Data 0.002 (0.005) Loss
0.0853 (0.1779) Prec 97.656% (93.817%)	
Validation starts	0 2206 (0 2206) Proc 96 710°
Test: [0/79] Time 0.393 (0.393) Loss (86.719%)	0.3290 (0.3290) Prec 80.7197
* Prec 86.390%	
best acc: 87.710000	
Epoch: [35][0/391] Time 0.414 (0.414)	Data 0.368 (0.368) Loss
0.1594 (0.1594) Prec 93.750% (93.750%)	
Epoch: [35][100/391] Time 0.051 (0.059)	Data 0.002 (0.007) Loss
0.1173 (0.1736) Prec 96.094% (93.688%)	
Epoch: [35] [200/391] Time 0.055 (0.057)	Data 0.002 (0.005) Loss
0.1304 (0.1724) Prec 94.531% (93.820%)	
Epoch: [35] [300/391] Time 0.055 (0.057)	Data 0.002 (0.004) Loss
0.1243 (0.1749) Prec 95.312% (93.753%) Validation starts	
Test: [0/79] Time 0.339 (0.339) Loss	0 2727 (0 2727) Prec 91 406%
(91.406%) * Prec 87.150%	0.2727 (0.2727) 1166 31.1007
best acc: 87.710000	
Epoch: [36][0/391] Time 0.469 (0.469)	Data 0.415 (0.415) Loss
0.1967 (0.1967) Prec 93.750% (93.750%)	
Epoch: [36] [100/391] Time 0.061 (0.059)	Data 0.002 (0.007) Loss
0.3519 (0.1559) Prec 86.719% (94.524%)	

Epoch: [36] [200/391] Time 0.046 (0.057)	Data 0.005 (0.005) Loss
0.2757 (0.1622) Prec 90.625% (94.298%) Epoch: [36] [300/391] Time 0.055 (0.057) 0.1699 (0.1690) Prec 92.188% (94.072%)	Data 0.002 (0.005) Loss
Validation starts Test: [0/79] Time 0.359 (0.359) Loss (92.188%)	0.2416 (0.2416) Prec 92.188%
* Prec 87.640%	
best acc: 87.710000	
Epoch: [37][0/391] Time 0.439 (0.439)	Data 0.400 (0.400) Loss
0.1257 (0.1257) Prec 96.094% (96.094%)	
Epoch: [37][100/391] Time 0.060 (0.059)	Data 0.005 (0.007) Loss
0.2052 (0.1633) Prec 93.750% (94.361%)	
Epoch: [37][200/391] Time 0.054 (0.057)	Data 0.006 (0.005) Loss
0.1985 (0.1640) Prec 92.969% (94.279%)	
Epoch: [37][300/391] Time 0.055 (0.056)	Data 0.002 (0.004) Loss
0.1730 (0.1670) Prec 92.188% (94.191%)	
Validation starts	
Test: [0/79] Time 0.339 (0.339) Loss	0.3023 (0.3023) Prec 91.406%
(91.406%)	
* Prec 87.320%	
best acc: 87.710000	
Epoch: [38] [0/391] Time 0.426 (0.426)	Data 0.387 (0.387) Loss
0.1705 (0.1705) Prec 92.969% (92.969%)	
Epoch: [38][100/391] Time 0.056 (0.060)	Data 0.002 (0.007) Loss
0.1341 (0.1514) Prec 96.875% (94.848%)	
Epoch: [38][200/391] Time 0.055 (0.058)	Data 0.002 (0.005) Loss
0.0835 (0.1565) Prec 97.656% (94.582%)	
Epoch: [38][300/391] Time 0.047 (0.057)	Data 0.002 (0.004) Loss
0.1383 (0.1600) Prec 94.531% (94.474%)	
Validation starts	
Test: [0/79] Time 0.396 (0.396) Loss	0.2259 (0.2259) Prec 93.750%
(93.750%)	
* Prec 88.040%	
best acc: 88.040000	
Epoch: [39][0/391] Time 0.460 (0.460)	Data 0.418 (0.418) Loss
0.1394 (0.1394) Prec 95.312% (95.312%)	
Epoch: [39][100/391] Time 0.054 (0.060)	Data 0.002 (0.007) Loss
0.2289 (0.1459) Prec 89.062% (95.026%)	
Epoch: [39][200/391] Time 0.051 (0.057)	Data 0.009 (0.005) Loss
0.0721 (0.1559) Prec 97.656% (94.605%)	
Epoch: [39][300/391] Time 0.055 (0.057)	Data 0.002 (0.004) Loss
0.2471 (0.1579) Prec 92.969% (94.516%)	
Validation starts	
Test: [0/79] Time 0.322 (0.322) Loss	0.2726 (0.2726) Prec 90.625%
(90.625%)	
* Prec 87.190%	
best acc: 88.040000	

Epoch: [40][0/391] Time 0.466 (0.466)	Data 0.426 (0.426) Loss
0.1840 (0.1840) Prec 95.312% (95.312%)	
Epoch: [40] [100/391] Time 0.054 (0.059)	Data 0.002 (0.008) Loss
0.0879 (0.1461) Prec 96.094% (94.856%)	
Epoch: [40] [200/391] Time 0.061 (0.057)	Data 0.002 (0.005) Loss
0.1123 (0.1474) Prec 97.656% (94.776%)	
Epoch: [40][300/391] Time 0.055 (0.056)	Data 0.002 (0.004) Loss
0.2125 (0.1494) Prec 92.969% (94.765%)	
Validation starts	
Test: [0/79] Time 0.472 (0.472) Lo	oss 0.3103 (0.3103) Prec 89.844%
(89.844%)	
* Prec 87.430%	
best acc: 88.040000	
Epoch: [41][0/391] Time 0.454 (0.454)	Data 0.411 (0.411) Loss
0.1198 (0.1198) Prec 96.875% (96.875%)	
Epoch: [41][100/391] Time 0.058 (0.059)	
0.1284 (0.1317) Prec 95.312% (95.467%)	
Epoch: [41][200/391] Time 0.055 (0.057)	Data 0.002 (0.005) Loss
0.1363 (0.1418) Prec 92.969% (95.138%)	·
Epoch: [41] [300/391] Time 0.052 (0.056)	Data 0.002 (0.004) Loss
0.2382 (0.1415) Prec 93.750% (95.149%)	
Validation starts	
Test: [0/79] Time 0.352 (0.352)	oss 0.1602 (0.1602) Prec 92.969%
(92.969%)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
* Prec 87.990%	
best acc: 88.040000	
Epoch: [42] [0/391] Time 0.316 (0.316)	Data 0.272 (0.272) Loss
0.0918 (0.0918) Prec 96.875% (96.875%)	2000 0.212 (0.212) 1000
Epoch: [42] [100/391] Time 0.052 (0.059)	Data 0.002 (0.006) Loss
0.1720 (0.1351) Prec 96.094% (95.189%)	2002 (0.000) 1005
Epoch: [42] [200/391] Time 0.055 (0.057)	Data 0.009 (0.004) Loss
0.1954 (0.1403) Prec 92.188% (95.052%)	2000 (0.001) 2000
Epoch: [42] [300/391] Time 0.055 (0.056)	Data 0.002 (0.003) Loss
0.1221 (0.1398) Prec 94.531% (95.089%)	2002 (0.000) 1000
Validation starts	
Test: [0/79] Time 0.347 (0.347) Lo	nss 0 3676 (0 3676) Proc 88 2819
(88.281%)	755 0.5070 (0.5070) Tiec 00.201%
* Prec 87.940%	
best acc: 88.040000	
Epoch: [43] [0/391] Time 0.484 (0.484)	Data 0.445 (0.445) Loss
0.0822 (0.0822) Prec 96.875% (96.875%)	
Epoch: [43] [100/391] Time 0.052 (0.059)	
0.1292 (0.1308) Prec 96.094% (95.699%)	Data 0.002 (0.007) Loss
Epoch: [43] [200/391] Time 0.065 (0.057)	Data 0.015 (0.005) Loss
0.0844 (0.1321) Prec 96.094% (95.573%)	Data 0.010 (0.000) FOSS
U.UUTT (U.IUZI) FIEU 3U.U34% (3U.0/3/)	
	Data 0 002 (0 004) I cos
Epoch: [43][300/391] Time 0.055 (0.056)	Data 0.002 (0.004) Loss
	Data 0.002 (0.004) Loss

Test: [0/79] Time 0.287 (0.287) (91.406%)	Loss 0.2993 (0.2993) Prec 91.406%
* Prec 87.780%	
best acc: 88.040000	
Epoch: [44] [0/391] Time 0.475 (0.4	
0.0933 (0.0933) Prec 97.656% (97.656	
Epoch: [44][100/391] Time 0.051 (0.0	060) Data 0.003 (0.008) Loss
0.0925 (0.1267) Prec 96.875% (95.537	
Epoch: [44][200/391] Time 0.055 (0.0	
0.1491 (0.1289) Prec 96.094% (95.491	1%)
Epoch: [44][300/391] Time 0.054 (0.0	Data 0.002 (0.004) Loss
0.1153 (0.1342) Prec 94.531% (95.266	5%)
Validation starts	
Test: [0/79] Time 0.419 (0.419)	Loss 0.1778 (0.1778) Prec 93.750%
(93.750%)	
* Prec 88.830%	
best acc: 88.830000	
Epoch: [45][0/391] Time 0.460 (0.4	
0.0849 (0.0849) Prec 97.656% (97.656	
Epoch: [45][100/391] Time 0.054 (0.0	
0.1311 (0.1241) Prec 96.094% (95.684	
Epoch: [45][200/391] Time 0.055 (0.0	
0.1465 (0.1276) Prec 95.312% (95.511	
Epoch: [45] [300/391] Time 0.061 (0.0	
0.0691 (0.1303) Prec 96.875% (95.468)	3%)
Validation starts	
Test: [0/79] Time 0.356 (0.356)	Loss 0.2536 (0.2536) Prec 90.625%
(90.625%)	
* Prec 88.740%	
best acc: 88.830000	
Epoch: [46] [0/391] Time 0.494 (0.4	
0.0743 (0.0743) Prec 97.656% (97.656	
Epoch: [46] [100/391] Time 0.054 (0.0	
0.1659 (0.1232) Prec 91.406% (95.668	3%)
Epoch: [46] [200/391] Time 0.055 (0.0	
0.1680.(0.1267) Proc 93 7507 (95 503	Data 0.002 (0.005) Loss
0.1680 (0.1267) Prec 93.750% (95.503	D57) Data 0.002 (0.005) Loss 3%)
Epoch: [46][300/391] Time 0.062 (0.0	Data 0.002 (0.005) Loss (3%) Data 0.002 (0.004) Loss
Epoch: [46][300/391] Time 0.062 (0.0 0.1659 (0.1273) Prec 92.969% (95.502)	Data 0.002 (0.005) Loss (3%) Data 0.002 (0.004) Loss
Epoch: [46][300/391] Time 0.062 (0.0 0.1659 (0.1273) Prec 92.969% (95.502) Validation starts	Data 0.002 (0.005) Loss 3%) Data 0.002 (0.004) Loss 2%)
Epoch: [46] [300/391] Time 0.062 (0.0 0.1659 (0.1273) Prec 92.969% (95.502 Validation starts Test: [0/79] Time 0.341 (0.341)	Data 0.002 (0.005) Loss 3%) Data 0.002 (0.004) Loss 2%)
Epoch: [46] [300/391] Time 0.062 (0.0 0.1659 (0.1273) Prec 92.969% (95.502) Validation starts Test: [0/79] Time 0.341 (0.341) (91.406%)	Data 0.002 (0.005) Loss 3%) Data 0.002 (0.004) Loss 2%)
Epoch: [46] [300/391] Time 0.062 (0.0 0.1659 (0.1273) Prec 92.969% (95.502) Validation starts Test: [0/79] Time 0.341 (0.341) (91.406%) * Prec 87.920%	Data 0.002 (0.005) Loss 3%) Data 0.002 (0.004) Loss 2%)
Epoch: [46] [300/391] Time 0.062 (0.0 0.1659 (0.1273) Prec 92.969% (95.502 Validation starts Test: [0/79] Time 0.341 (0.341) (91.406%) * Prec 87.920% best acc: 88.830000	Data 0.002 (0.005) Loss 3%) Data 0.002 (0.004) Loss 2%) Loss 0.2136 (0.2136) Prec 91.406%
Epoch: [46] [300/391] Time 0.062 (0.0 0.1659 (0.1273) Prec 92.969% (95.502) Validation starts Test: [0/79] Time 0.341 (0.341) (91.406%) * Prec 87.920% best acc: 88.830000 Epoch: [47] [0/391] Time 0.372 (0.3	Data 0.002 (0.005) Loss 3%) Data 0.002 (0.004) Loss 2%) Loss 0.2136 (0.2136) Prec 91.406% B72) Data 0.319 (0.319) Loss
Epoch: [46][300/391] Time 0.062 (0.0 0.1659 (0.1273) Prec 92.969% (95.502) Validation starts Test: [0/79] Time 0.341 (0.341) (91.406%) * Prec 87.920% best acc: 88.830000 Epoch: [47][0/391] Time 0.372 (0.3 0.1122 (0.1122) Prec 96.094% (96.094)	Data 0.002 (0.005) Loss 3%) Data 0.002 (0.004) Loss 2%) Loss 0.2136 (0.2136) Prec 91.406% B72) Data 0.319 (0.319) Loss 3%)
Epoch: [46] [300/391] Time 0.062 (0.0 0.1659 (0.1273) Prec 92.969% (95.502) Validation starts Test: [0/79] Time 0.341 (0.341) (91.406%) * Prec 87.920% best acc: 88.830000 Epoch: [47] [0/391] Time 0.372 (0.3 0.1122 (0.1122) Prec 96.094% (96.094) Epoch: [47] [100/391] Time 0.060 (0.0	Data 0.002 (0.005) Loss 3%) Data 0.002 (0.004) Loss 2%) Loss 0.2136 (0.2136) Prec 91.406% B72) Data 0.319 (0.319) Loss 1%) Data 0.002 (0.006) Loss
Epoch: [46][300/391] Time 0.062 (0.0 0.1659 (0.1273) Prec 92.969% (95.502) Validation starts Test: [0/79] Time 0.341 (0.341) (91.406%) * Prec 87.920% best acc: 88.830000 Epoch: [47][0/391] Time 0.372 (0.3 0.1122 (0.1122) Prec 96.094% (96.094)	Data 0.002 (0.005) Loss (3%) Data 0.002 (0.004) Loss (2%) Loss 0.2136 (0.2136) Prec 91.406% B72) Data 0.319 (0.319) Loss (4%) D58) Data 0.002 (0.006) Loss (9%)

0.4400 (0.4400)	
0.1136 (0.1196) Prec 96.094% (95.767%)	D + 0 000 (0 004)
Epoch: [47] [300/391] Time 0.058 (0.056)	Data 0.002 (0.004) Loss
0.0951 (0.1235) Prec 96.875% (95.640%)	
Validation starts	0.0004 (0.0004)
Test: [0/79] Time 0.358 (0.358) Loss	s 0.3221 (0.3221) Prec 89.844%
(89.844%)	
* Prec 88.230%	
best acc: 88.830000	
Epoch: [48] [0/391] Time 0.368 (0.368)	Data 0.325 (0.325) Loss
0.0697 (0.0697) Prec 96.875% (96.875%)	
Epoch: [48][100/391] Time 0.057 (0.059)	Data 0.002 (0.006) Loss
0.0806 (0.1202) Prec 97.656% (95.916%)	
Epoch: [48] [200/391] Time 0.055 (0.057)	Data 0.002 (0.005) Loss
0.0826 (0.1227) Prec 96.875% (95.740%)	
Epoch: [48][300/391] Time 0.053 (0.056)	Data 0.002 (0.004) Loss
0.1851 (0.1227) Prec 94.531% (95.743%)	
Validation starts	
Test: [0/79] Time 0.327 (0.327) Loss	s 0.3369 (0.3369) Prec 89.844%
(89.844%)	
* Prec 88.510%	
best acc: 88.830000	
Epoch: [49][0/391] Time 0.331 (0.331)	Data 0.290 (0.290) Loss
0.0929 (0.0929) Prec 95.312% (95.312%)	
Epoch: [49] [100/391] Time 0.061 (0.058)	Data 0.002 (0.006) Loss
0.0488 (0.1126) Prec 98.438% (96.179%)	2404 01002 (01000) 2022
Epoch: [49] [200/391] Time 0.053 (0.057)	Data 0.002 (0.004) Loss
0.0566 (0.1132) Prec 98.438% (96.160%)	Data 0.002 (0.004) LOSS
Epoch: [49] [300/391] Time 0.054 (0.056)	Data 0.002 (0.004) Loss
0.0845 (0.1217) Prec 96.875% (95.808%)	Data 0.002 (0.004) Loss
Validation starts	
Test: [0/79] Time 0.330 (0.330) Loss	0 1971 (0 1971) Proc 02 060%
(92.969%)	5 0.16/1 (0.16/1) FIEC 92.909%
* Prec 88.680%	
best acc: 88.830000	D + 0.056 (0.056) I
Epoch: [50] [0/391] Time 0.395 (0.395)	Data 0.356 (0.356) Loss
0.0704 (0.0704) Prec 96.875% (96.875%)	D
Epoch: [50] [100/391] Time 0.056 (0.059)	Data 0.002 (0.007) Loss
0.1204 (0.1087) Prec 96.094% (96.256%)	
Epoch: [50] [200/391] Time 0.055 (0.057)	Data 0.002 (0.005) Loss
0.0951 (0.1151) Prec 97.656% (96.032%)	
Epoch: [50][300/391] Time 0.055 (0.056)	Data 0.002 (0.004) Loss
0.1237 (0.1171) Prec 96.094% (95.980%)	
Validation starts	
Test: [0/79] Time 0.359 (0.359) Loss	s 0.2957 (0.2957) Prec 89.844%
(89.844%)	
* Prec 89.030%	
best acc: 89.030000	
Epoch: [51][0/391] Time 0.409 (0.409)	Data 0.355 (0.355) Loss

0 000E (0 000E)
0.0885 (0.0885) Prec 98.438% (98.438%) Epoch: [51][100/391] Time 0.059 (0.059) Data 0.002 (0.006) Loss
Epoch: [51] [100/391] Time 0.059 (0.059) Data 0.002 (0.006) Loss 0.1145 (0.0961) Prec 95.312% (96.728%)
Epoch: [51] [200/391] Time 0.054 (0.057) Data 0.002 (0.005) Loss
0.1255 (0.1089) Prec 95.312% (96.222%)
Epoch: [51] [300/391] Time 0.056 (0.057) Data 0.002 (0.004) Loss
0.1885 (0.1156) Prec 92.969% (96.021%)
Validation starts
Test: [0/79] Time 0.387 (0.387) Loss 0.3171 (0.3171) Prec 90.625%
(90.625%)
* Prec 88.830%
best acc: 89.030000
Epoch: [52] [0/391] Time 0.362 (0.362) Data 0.322 (0.322) Loss
0.0515 (0.0515) Prec 98.438% (98.438%)
Epoch: [52] [100/391] Time 0.058 (0.058) Data 0.002 (0.006) Loss
0.1800 (0.1022) Prec 92.969% (96.256%)
Epoch: [52] [200/391] Time 0.056 (0.057) Data 0.002 (0.004) Loss
0.1122 (0.1067) Prec 95.312% (96.222%)
Epoch: [52] [300/391] Time 0.056 (0.056) Data 0.003 (0.003) Loss
0.1015 (0.1100) Prec 96.094% (96.104%)
Validation starts
Test: [0/79] Time 0.317 (0.317) Loss 0.2559 (0.2559) Prec 87.500%
(87.500%)
* Prec 88.570%
best acc: 89.030000
Epoch: [53] [0/391] Time 0.488 (0.488) Data 0.441 (0.441) Loss
0.0665 (0.0665) Prec 96.875% (96.875%)
Epoch: [53] [100/391] Time 0.055 (0.060) Data 0.002 (0.007) Loss
0.0461 (0.1031) Prec 97.656% (96.481%)
Epoch: [53] [200/391] Time 0.056 (0.057) Data 0.001 (0.005) Loss
0.1891 (0.1064) Prec 93.750% (96.315%)
Epoch: [53][300/391] Time 0.049 (0.057) Data 0.002 (0.004) Loss
0.1160 (0.1092) Prec 95.312% (96.231%)
Validation starts
Test: [0/79] Time 0.349 (0.349) Loss 0.3886 (0.3886) Prec 89.844%
(89.844%)
* Prec 87.930%
best acc: 89.030000
Epoch: [54] [0/391] Time 0.422 (0.422) Data 0.382 (0.382) Loss
0.0536 (0.0536) Prec 97.656% (97.656%)
Epoch: [54][100/391] Time 0.051 (0.059) Data 0.008 (0.007) Loss
0.0880 (0.1019) Prec 96.094% (96.442%)
Epoch: [54][200/391] Time 0.055 (0.057) Data 0.002 (0.005) Loss
0.0981 (0.1037) Prec 96.875% (96.447%)
Epoch: [54][300/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss
0.1048 (0.1075) Prec 97.656% (96.312%)
Validation starts
Test: [0/79] Time 0.389 (0.389) Loss 0.1921 (0.1921) Prec 91.406%

(91.406%)	
* Prec 88.530% best acc: 89.030000	
Epoch: [55] [0/391] Time 0.420 (0.420)	Data 0.381 (0.381) Loss
0.0959 (0.0959) Prec 94.531% (94.531%)	Data 0.301 (0.301) LOSS
Epoch: [55] [100/391] Time 0.057 (0.059)	Data 0.014 (0.008) Loss
0.0674 (0.0942) Prec 98.438% (96.643%)	Data 0.011 (0.000) Hobb
Epoch: [55] [200/391] Time 0.052 (0.057)	Data 0.002 (0.005) Loss
0.0839 (0.1009) Prec 96.875% (96.502%)	2454 0.002 (0.000) 2655
	Data 0.001 (0.005) Loss
0.1125 (0.1042) Prec 93.750% (96.395%)	2404 01002 (01000) 2002
Validation starts	
Test: [0/79] Time 0.367 (0.367) Loss	0.4050 (0.4050) Prec 87.500%
(87.500%)	
* Prec 86.690%	
best acc: 89.030000	
Epoch: [56] [0/391] Time 0.481 (0.481)	Data 0.439 (0.439) Loss
0.1231 (0.1231) Prec 97.656% (97.656%)	
Epoch: [56][100/391] Time 0.055 (0.060)	Data 0.004 (0.007) Loss
0.0769 (0.0940) Prec 98.438% (96.805%)	
Epoch: [56][200/391] Time 0.052 (0.058)	Data 0.002 (0.005) Loss
0.1174 (0.0975) Prec 95.312% (96.618%)	
Epoch: [56][300/391] Time 0.051 (0.057)	Data 0.002 (0.005) Loss
0.1774 (0.1014) Prec 91.406% (96.457%)	
Validation starts	
Test: [0/79] Time 0.384 (0.384) Loss	0.2478 (0.2478) Prec 91.406%
Test: [0/79] Time 0.384 (0.384) Loss (91.406%)	0.2478 (0.2478) Prec 91.406%
	0.2478 (0.2478) Prec 91.406%
(91.406%)	0.2478 (0.2478) Prec 91.406%
(91.406%) * Prec 88.450%	0.2478 (0.2478) Prec 91.406% Data 0.420 (0.420) Loss
(91.406%) * Prec 88.450% best acc: 89.030000	
(91.406%) * Prec 88.450% best acc: 89.030000 Epoch: [57][0/391] Time 0.506 (0.506)	
(91.406%) * Prec 88.450% best acc: 89.030000 Epoch: [57][0/391] Time 0.506 (0.506) 0.0969 (0.0969) Prec 95.312% (95.312%) Epoch: [57][100/391] Time 0.054 (0.059) 0.1082 (0.0984) Prec 96.875% (96.465%)	Data 0.420 (0.420) Loss Data 0.002 (0.006) Loss
(91.406%) * Prec 88.450% best acc: 89.030000 Epoch: [57] [0/391] Time 0.506 (0.506) 0.0969 (0.0969) Prec 95.312% (95.312%) Epoch: [57] [100/391] Time 0.054 (0.059) 0.1082 (0.0984) Prec 96.875% (96.465%) Epoch: [57] [200/391] Time 0.054 (0.057)	Data 0.420 (0.420) Loss Data 0.002 (0.006) Loss
(91.406%) * Prec 88.450% best acc: 89.030000 Epoch: [57][0/391] Time 0.506 (0.506) 0.0969 (0.0969) Prec 95.312% (95.312%) Epoch: [57][100/391] Time 0.054 (0.059) 0.1082 (0.0984) Prec 96.875% (96.465%)	Data 0.420 (0.420) Loss Data 0.002 (0.006) Loss
(91.406%) * Prec 88.450% best acc: 89.030000 Epoch: [57] [0/391] Time 0.506 (0.506) 0.0969 (0.0969) Prec 95.312% (95.312%) Epoch: [57] [100/391] Time 0.054 (0.059) 0.1082 (0.0984) Prec 96.875% (96.465%) Epoch: [57] [200/391] Time 0.054 (0.057) 0.1029 (0.1001) Prec 94.531% (96.471%) Epoch: [57] [300/391] Time 0.060 (0.056)	Data 0.420 (0.420) Loss Data 0.002 (0.006) Loss Data 0.002 (0.004) Loss
(91.406%) * Prec 88.450% best acc: 89.030000 Epoch: [57][0/391] Time 0.506 (0.506) 0.0969 (0.0969) Prec 95.312% (95.312%) Epoch: [57][100/391] Time 0.054 (0.059) 0.1082 (0.0984) Prec 96.875% (96.465%) Epoch: [57][200/391] Time 0.054 (0.057) 0.1029 (0.1001) Prec 94.531% (96.471%)	Data 0.420 (0.420) Loss Data 0.002 (0.006) Loss Data 0.002 (0.004) Loss
(91.406%) * Prec 88.450% best acc: 89.030000 Epoch: [57][0/391] Time 0.506 (0.506) 0.0969 (0.0969) Prec 95.312% (95.312%) Epoch: [57][100/391] Time 0.054 (0.059) 0.1082 (0.0984) Prec 96.875% (96.465%) Epoch: [57][200/391] Time 0.054 (0.057) 0.1029 (0.1001) Prec 94.531% (96.471%) Epoch: [57][300/391] Time 0.060 (0.056) 0.0993 (0.1006) Prec 95.312% (96.431%) Validation starts	Data 0.420 (0.420) Loss Data 0.002 (0.006) Loss Data 0.002 (0.004) Loss Data 0.002 (0.003) Loss
(91.406%) * Prec 88.450% best acc: 89.030000 Epoch: [57] [0/391] Time 0.506 (0.506) 0.0969 (0.0969) Prec 95.312% (95.312%) Epoch: [57] [100/391] Time 0.054 (0.059) 0.1082 (0.0984) Prec 96.875% (96.465%) Epoch: [57] [200/391] Time 0.054 (0.057) 0.1029 (0.1001) Prec 94.531% (96.471%) Epoch: [57] [300/391] Time 0.060 (0.056) 0.0993 (0.1006) Prec 95.312% (96.431%) Validation starts Test: [0/79] Time 0.372 (0.372) Loss	Data 0.420 (0.420) Loss Data 0.002 (0.006) Loss Data 0.002 (0.004) Loss Data 0.002 (0.003) Loss
(91.406%) * Prec 88.450% best acc: 89.030000 Epoch: [57] [0/391] Time 0.506 (0.506) 0.0969 (0.0969) Prec 95.312% (95.312%) Epoch: [57] [100/391] Time 0.054 (0.059) 0.1082 (0.0984) Prec 96.875% (96.465%) Epoch: [57] [200/391] Time 0.054 (0.057) 0.1029 (0.1001) Prec 94.531% (96.471%) Epoch: [57] [300/391] Time 0.060 (0.056) 0.0993 (0.1006) Prec 95.312% (96.431%) Validation starts Test: [0/79] Time 0.372 (0.372) Loss (90.625%)	Data 0.420 (0.420) Loss Data 0.002 (0.006) Loss Data 0.002 (0.004) Loss Data 0.002 (0.003) Loss
(91.406%) * Prec 88.450% best acc: 89.030000 Epoch: [57][0/391] Time 0.506 (0.506) 0.0969 (0.0969) Prec 95.312% (95.312%) Epoch: [57][100/391] Time 0.054 (0.059) 0.1082 (0.0984) Prec 96.875% (96.465%) Epoch: [57][200/391] Time 0.054 (0.057) 0.1029 (0.1001) Prec 94.531% (96.471%) Epoch: [57][300/391] Time 0.060 (0.056) 0.0993 (0.1006) Prec 95.312% (96.431%) Validation starts Test: [0/79] Time 0.372 (0.372) Loss (90.625%) * Prec 88.040%	Data 0.420 (0.420) Loss Data 0.002 (0.006) Loss Data 0.002 (0.004) Loss Data 0.002 (0.003) Loss
(91.406%) * Prec 88.450% best acc: 89.030000 Epoch: [57][0/391] Time 0.506 (0.506) 0.0969 (0.0969) Prec 95.312% (95.312%) Epoch: [57][100/391] Time 0.054 (0.059) 0.1082 (0.0984) Prec 96.875% (96.465%) Epoch: [57][200/391] Time 0.054 (0.057) 0.1029 (0.1001) Prec 94.531% (96.471%) Epoch: [57][300/391] Time 0.060 (0.056) 0.0993 (0.1006) Prec 95.312% (96.431%) Validation starts Test: [0/79] Time 0.372 (0.372) Loss (90.625%) * Prec 88.040% best acc: 89.030000	Data 0.420 (0.420) Loss Data 0.002 (0.006) Loss Data 0.002 (0.004) Loss Data 0.002 (0.003) Loss 0.2494 (0.2494) Prec 90.625%
(91.406%) * Prec 88.450% best acc: 89.030000 Epoch: [57] [0/391] Time 0.506 (0.506) 0.0969 (0.0969) Prec 95.312% (95.312%) Epoch: [57] [100/391] Time 0.054 (0.059) 0.1082 (0.0984) Prec 96.875% (96.465%) Epoch: [57] [200/391] Time 0.054 (0.057) 0.1029 (0.1001) Prec 94.531% (96.471%) Epoch: [57] [300/391] Time 0.060 (0.056) 0.0993 (0.1006) Prec 95.312% (96.431%) Validation starts Test: [0/79] Time 0.372 (0.372) Loss (90.625%) * Prec 88.040% best acc: 89.030000 Epoch: [58] [0/391] Time 0.403 (0.403)	Data 0.420 (0.420) Loss Data 0.002 (0.006) Loss Data 0.002 (0.004) Loss Data 0.002 (0.003) Loss 0.2494 (0.2494) Prec 90.625%
(91.406%) * Prec 88.450% best acc: 89.030000 Epoch: [57][0/391] Time 0.506 (0.506) 0.0969 (0.0969) Prec 95.312% (95.312%) Epoch: [57][100/391] Time 0.054 (0.059) 0.1082 (0.0984) Prec 96.875% (96.465%) Epoch: [57][200/391] Time 0.054 (0.057) 0.1029 (0.1001) Prec 94.531% (96.471%) Epoch: [57][300/391] Time 0.060 (0.056) 0.0993 (0.1006) Prec 95.312% (96.431%) Validation starts Test: [0/79] Time 0.372 (0.372) Loss (90.625%) * Prec 88.040% best acc: 89.030000 Epoch: [58][0/391] Time 0.403 (0.403) 0.0499 (0.0499) Prec 99.219% (99.219%)	Data 0.420 (0.420) Loss Data 0.002 (0.006) Loss Data 0.002 (0.004) Loss Data 0.002 (0.003) Loss 0.2494 (0.2494) Prec 90.625% Data 0.359 (0.359) Loss
(91.406%) * Prec 88.450% best acc: 89.030000 Epoch: [57] [0/391] Time 0.506 (0.506) 0.0969 (0.0969) Prec 95.312% (95.312%) Epoch: [57] [100/391] Time 0.054 (0.059) 0.1082 (0.0984) Prec 96.875% (96.465%) Epoch: [57] [200/391] Time 0.054 (0.057) 0.1029 (0.1001) Prec 94.531% (96.471%) Epoch: [57] [300/391] Time 0.060 (0.056) 0.0993 (0.1006) Prec 95.312% (96.431%) Validation starts Test: [0/79] Time 0.372 (0.372) Loss (90.625%) * Prec 88.040% best acc: 89.030000 Epoch: [58] [0/391] Time 0.403 (0.403) 0.0499 (0.0499) Prec 99.219% (99.219%) Epoch: [58] [100/391] Time 0.068 (0.059)	Data 0.420 (0.420) Loss Data 0.002 (0.006) Loss Data 0.002 (0.004) Loss Data 0.002 (0.003) Loss 0.2494 (0.2494) Prec 90.625%
(91.406%) * Prec 88.450% best acc: 89.030000 Epoch: [57] [0/391] Time 0.506 (0.506) 0.0969 (0.0969) Prec 95.312% (95.312%) Epoch: [57] [100/391] Time 0.054 (0.059) 0.1082 (0.0984) Prec 96.875% (96.465%) Epoch: [57] [200/391] Time 0.054 (0.057) 0.1029 (0.1001) Prec 94.531% (96.471%) Epoch: [57] [300/391] Time 0.060 (0.056) 0.0993 (0.1006) Prec 95.312% (96.431%) Validation starts Test: [0/79] Time 0.372 (0.372) Loss (90.625%) * Prec 88.040% best acc: 89.030000 Epoch: [58] [0/391] Time 0.403 (0.403) 0.0499 (0.0499) Prec 99.219% (99.219%) Epoch: [58] [100/391] Time 0.068 (0.059) 0.0465 (0.0943) Prec 98.438% (96.767%)	Data 0.420 (0.420) Loss Data 0.002 (0.006) Loss Data 0.002 (0.004) Loss Data 0.002 (0.003) Loss 0.2494 (0.2494) Prec 90.625% Data 0.359 (0.359) Loss Data 0.007 (0.006) Loss
(91.406%) * Prec 88.450% best acc: 89.030000 Epoch: [57] [0/391] Time 0.506 (0.506) 0.0969 (0.0969) Prec 95.312% (95.312%) Epoch: [57] [100/391] Time 0.054 (0.059) 0.1082 (0.0984) Prec 96.875% (96.465%) Epoch: [57] [200/391] Time 0.054 (0.057) 0.1029 (0.1001) Prec 94.531% (96.471%) Epoch: [57] [300/391] Time 0.060 (0.056) 0.0993 (0.1006) Prec 95.312% (96.431%) Validation starts Test: [0/79] Time 0.372 (0.372) Loss (90.625%) * Prec 88.040% best acc: 89.030000 Epoch: [58] [0/391] Time 0.403 (0.403) 0.0499 (0.0499) Prec 99.219% (99.219%) Epoch: [58] [100/391] Time 0.068 (0.059)	Data 0.420 (0.420) Loss Data 0.002 (0.006) Loss Data 0.002 (0.004) Loss Data 0.002 (0.003) Loss 0.2494 (0.2494) Prec 90.625% Data 0.359 (0.359) Loss Data 0.007 (0.006) Loss

Epoch: [58] [300/391] Time 0.060 (0.056) 0.0472 (0.0975) Prec 98.438% (96.709%)	Data 0.002 (0.004) Loss
Validation starts Test: [0/79] Time 0.327 (0.327) Loss (91.406%)	0.1966 (0.1966) Prec 91.406%
* Prec 89.010%	
best acc: 89.030000	
Epoch: [59][0/391] Time 0.378 (0.378)	Data 0.338 (0.338) Loss
0.0216 (0.0216) Prec 100.000% (100.000%)	
Epoch: [59][100/391] Time 0.055 (0.058)	Data 0.002 (0.006) Loss
0.1004 (0.0893) Prec 96.875% (96.774%)	
Epoch: [59][200/391] Time 0.057 (0.057)	Data 0.002 (0.004) Loss
0.0332 (0.0914) Prec 99.219% (96.805%)	
Epoch: [59][300/391] Time 0.054 (0.056)	Data 0.002 (0.003) Loss
0.1257 (0.0947) Prec 93.750% (96.706%)	
Validation starts	
Test: [0/79] Time 0.290 (0.290) Loss	0.2781 (0.2781) Prec 91.406%
(91.406%)	0.2101 (0.2101) 1100 01:100%
* Prec 89.030%	
best acc: 89.030000	
Epoch: [60] [0/391] Time 0.430 (0.430)	Data 0 303 (0 303) I aga
-	Data 0.383 (0.383) Loss
0.0691 (0.0691) Prec 98.438% (98.438%)	D 0.000 (0.000)
Epoch: [60] [100/391] Time 0.054 (0.059)	Data 0.002 (0.008) Loss
0.0509 (0.0884) Prec 96.875% (96.952%)	
Epoch: [60][200/391] Time 0.055 (0.057)	Data 0.002 (0.005) Loss
0.2051 (0.0892) Prec 92.969% (96.922%)	
Epoch: [60][300/391] Time 0.056 (0.056)	Data 0.002 (0.004) Loss
0.1351 (0.0948) Prec 96.875% (96.722%)	
Validation starts	
Test: [0/79] Time 0.355 (0.355) Loss	0.2665 (0.2665) Prec 93.750%
(93.750%)	
* Prec 88.920%	
best acc: 89.030000	
Epoch: [61][0/391] Time 0.431 (0.431)	Data 0.393 (0.393) Loss
0.0654 (0.0654) Prec 96.875% (96.875%)	,
Epoch: [61][100/391] Time 0.050 (0.059)	Data 0.015 (0.008) Loss
0.0955 (0.0840) Prec 97.656% (97.146%)	2000 0.010 (0.000)
Epoch: [61] [200/391] Time 0.054 (0.057)	Data 0.002 (0.005) Loss
-	Data 0.002 (0.003) LOSS
0.0825 (0.0898) Prec 96.094% (96.879%)	D-+- 0 000 (0 004) I
-	Data 0.002 (0.004) Loss
0.0660 (0.0898) Prec 97.656% (96.875%)	
Validation starts	
Test: [0/79] Time 0.354 (0.354) Loss	0.3548 (0.3548) Prec 89.062%
(89.062%)	
* Prec 87.930%	
best acc: 89.030000	
Epoch: [62][0/391] Time 0.417 (0.417)	Data 0.373 (0.373) Loss
0.0910 (0.0910) Prec 97.656% (97.656%)	

0.1300 (0.0892) Prec 96.875% (96.774%) Epoch: [62] [200/391] Time 0.054 (0.057) Data 0.002 (0.004) Loss 0.0808 (0.0909) Prec 97.656% (96.817%) Epoch: [62] [300/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss 0.1338 (0.0915) Prec 96.094% (96.771%) Validation starts Test: [0/79] Time 0.320 (0.320) Loss 0.2537 (0.2537) Prec 92.969% (92.969%) * Prec 88.900% best acc: 89.030000 Epoch: [63] [300/391] Time 0.471 (0.471) Data 0.425 (0.425) Loss 0.0388 (0.0388) Prec 100.000% (100.000%) Epoch: [63] [100/391] Time 0.055 (0.060) Data 0.007 (0.008) Loss 0.0666 (0.0841) Prec 99.2194% (96.945%) Epoch: [63] [200/391] Time 0.058 (0.058) Data 0.003 (0.005) Loss 0.0982 (0.0835) Prec 96.094% (97.093%) Epoch: [63] [300/391] Time 0.055 (0.067) Data 0.002 (0.004) Loss 0.1080 (0.0895) Prec 97.656% (96.904%) Validation starts Test: [0/79] Time 0.372 (0.372) Loss 0.2616 (0.2616) Prec 89.844% (89.844%) * Prec 89.03000 Epoch: [64] [100/391] Time 0.056 (0.069) Data 0.002 (0.007) Loss 0.0876 (0.0855) Prec 97.656% (97.656%) Epoch: [64] [100/391] Time 0.056 (0.069) Data 0.002 (0.007) Loss 0.0876 (0.0855) Prec 96.875% (96.945%) Epoch: [64] [100/391] Time 0.056 (0.069) Data 0.002 (0.007) Loss 0.0876 (0.0855) Prec 96.875% (96.945%) Epoch: [64] [100/391] Time 0.056 (0.069) Data 0.002 (0.007) Loss 0.0866 (0.0868) Prec 96.875% (96.945%) Epoch: [64] [200/391] Time 0.056 (0.059) Data 0.002 (0.005) Loss 0.0465 (0.0868) Prec 96.094% (96.862%) Epoch: [64] [200/391] Time 0.050 (0.056) Data 0.002 (0.005) Loss 0.0866 (0.0868) Prec 96.094% (96.862%) Epoch: [65] [100/391] Time 0.432 (0.432) Data 0.002 (0.005) Loss 0.0843 (0.0843) Prec 97.656% (97.656%) Epoch: [65] [100/391] Time 0.056 (0.059) Data 0.002 (0.006) Loss 0.0843 (0.0843) Prec 97.656% (97.656%) Epoch: [65] [100/391] Time 0.056 (0.059) Data 0.002 (0.006) Loss 0.0843 (0.0843) Prec 98.438% (97.269%) Epoch: [65] [100/391] Time 0.056 (0.059) Data 0.002 (0.006) Loss 0.0843 (0.0843) Prec 98.438% (97.269%) Epoch: [65] [300/391] Time 0.056 (0.057) Data 0.002 (0.006) Loss 0.083 (0.0843) Prec 98.438% (97.2	Epoch: [62] [100/391] Time 0.040 (0		Data	0.002	(0.007)	Loss
Epoch: [62] [300/391]	Epoch: [62][200/391] Time 0.054 (0	0.057)	Data	0.002	(0.004)	Loss
Test: [0/79]	Epoch: [62][300/391] Time 0.055 (0 0.1338 (0.0915) Prec 96.094% (96.7	0.056)	Data	0.002	(0.004)	Loss
** Prec 88.900% best acc: 89.030000 Epoch: [63][0/391]	Test: [0/79] Time 0.320 (0.320)	Loss	0.2537	(0.2537	') Prec	92.969%
Best acc: 89.030000 Epoch: [63] [0/391]						
O.0388 (0.0388)						
Epoch: [63] [100/391]	Epoch: [63][0/391] Time 0.471 (C).471)	Data	0.425	(0.425)	Loss
O.0666 (0.0841)	0.0388 (0.0388) Prec 100.000% (100).000%)				
Epoch: [63] [200/391]	Epoch: [63][100/391] Time 0.055 (0).060)	Data	0.007	(0.008)	Loss
0.0982 (0.0835) Prec 96.094% (97.093%) Epoch: [63] [300/391] Time 0.055 (0.057) Data 0.002 (0.004) Loss 0.1080 (0.0895) Prec 97.656% (96.904%) Validation starts Test: [0/79] Time 0.372 (0.372) Loss 0.2616 (0.2616) Prec 89.844% (89.844%) * Prec 89.030% best acc: 89.030000 Epoch: [64] [0/391] Time 0.393 (0.393) Data 0.347 (0.347) Loss 0.0693 (0.0693) Prec 97.656% (97.656%) Epoch: [64] [100/391] Time 0.055 (0.059) Data 0.002 (0.007) Loss 0.0876 (0.0855) Prec 96.875% (96.945%) Epoch: [64] [200/391] Time 0.055 (0.057) Data 0.002 (0.005) Loss 0.0465 (0.0868) Prec 98.438% (96.937%) Epoch: [64] [300/391] Time 0.050 (0.056) Data 0.002 (0.004) Loss 0.0864 (0.0896) Prec 96.094% (96.862%) Validation starts Test: [0/79] Time 0.366 (0.366) Loss 0.2416 (0.2416) Prec 92.969% (92.969%) * Prec 89.100% best acc: 89.100000 Epoch: [65] [0/391] Time 0.432 (0.432) Data 0.392 (0.392) Loss 0.0843 (0.0843) Prec 97.656% (97.656%) Epoch: [65] [100/391] Time 0.056 (0.059) Data 0.002 (0.007) Loss 0.0833 (0.0752) Prec 98.438% (97.269%) Epoch: [65] [100/391] Time 0.056 (0.057) Data 0.002 (0.006) Loss 0.1075 (0.0834) Prec 95.312% (96.992%) Epoch: [65] [300/391] Time 0.056 (0.057) Data 0.002 (0.006) Loss 0.1075 (0.0834) Prec 95.312% (96.992%) Epoch: [65] [300/391] Time 0.056 (0.057) Data 0.002 (0.006) Loss 0.1075 (0.0834) Prec 95.312% (96.992%) Epoch: [65] [300/391] Time 0.054 (0.057) Data 0.002 (0.005) Loss 0.0965 (0.0864) Prec 96.094% (96.930%) Validation starts Test: [0/79] Time 0.314 (0.314) Loss 0.3352 (0.3352) Prec 89.844%	0.0666 (0.0841) Prec 99.219% (96.9	945%)				
Epoch: [63] [300/391]	Epoch: [63][200/391] Time 0.058 (0).058)	Data	0.003	(0.005)	Loss
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Validation starts Test: [0/79] Time 0.372 (0.372) Loss 0.2616 (0.2616) Prec 89.844% (89.844%) * Prec 89.030% best acc: 89.030000 Epoch: [64] [0/391] Time 0.393 (0.393) Data 0.347 (0.347) Loss 0.0693 (0.0693) Prec 97.656% (97.656%) Epoch: [64] [100/391] Time 0.055 (0.059) Data 0.002 (0.007) Loss 0.0876 (0.0855) Prec 96.875% (96.945%) Epoch: [64] [200/391] Time 0.055 (0.057) Data 0.002 (0.005) Loss 0.0465 (0.0868) Prec 98.438% (96.937%) Epoch: [64] [300/391] Time 0.050 (0.056) Data 0.002 (0.004) Loss 0.0864 (0.0896) Prec 96.094% (96.862%) Validation starts Test: [0/79] Time 0.366 (0.366) Loss 0.2416 (0.2416) Prec 92.969% (92.969%) * Prec 89.100% best acc: 89.10000 Epoch: [65] [0/391] Time 0.432 (0.432) Data 0.392 (0.392) Loss 0.0843 (0.0843) Prec 97.656% (97.656%) Epoch: [65] [100/391] Time 0.056 (0.059) Data 0.002 (0.007) Loss 0.0833 (0.0752) Prec 98.438% (97.269%) Epoch: [65] [200/391] Time 0.056 (0.057) Data 0.002 (0.006) Loss 0.1075 (0.0834) Prec 95.312% (96.992%) Epoch: [65] [300/391] Time 0.056 (0.057) Data 0.002 (0.006) Loss 0.1075 (0.0834) Prec 95.312% (96.992%) Epoch: [65] [300/391] Time 0.056 (0.057) Data 0.002 (0.005) Loss 0.0965 (0.0864) Prec 96.094% (96.930%) Validation starts Test: [0/79] Time 0.054 (0.057) Data 0.002 (0.005) Loss 0.0965 (0.0864) Prec 96.094% (96.930%)	-		Data	0.002	(0.004)	Loss
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best acc: 89.030% best acc: 89.030000 Epoch: [64][0/391]		Loss	0.2616	(0.2616	B) Prec	89.844%
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<pre>(92.969%) * Prec 89.100% best acc: 89.100000 Epoch: [65] [0/391]</pre>		Logg	0 2/16	(0.0416	C) Proc	02 060%
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0.0833 (0.0752) Prec 98.438% (97.269%) Epoch: [65] [200/391] Time 0.056 (0.057) Data 0.002 (0.006) Loss 0.1075 (0.0834) Prec 95.312% (96.992%) Epoch: [65] [300/391] Time 0.054 (0.057) Data 0.002 (0.005) Loss 0.0965 (0.0864) Prec 96.094% (96.930%) Validation starts Test: [0/79] Time 0.314 (0.314) Loss 0.3352 (0.3352) Prec 89.844%			Data	0.002	(0.007)	Loss
Epoch: [65][200/391] Time 0.056 (0.057) Data 0.002 (0.006) Loss 0.1075 (0.0834) Prec 95.312% (96.992%) Epoch: [65][300/391] Time 0.054 (0.057) Data 0.002 (0.005) Loss 0.0965 (0.0864) Prec 96.094% (96.930%) Validation starts Test: [0/79] Time 0.314 (0.314) Loss 0.3352 (0.3352) Prec 89.844%	-				()	
0.1075 (0.0834) Prec 95.312% (96.992%) Epoch: [65][300/391] Time 0.054 (0.057) Data 0.002 (0.005) Loss 0.0965 (0.0864) Prec 96.094% (96.930%) Validation starts Test: [0/79] Time 0.314 (0.314) Loss 0.3352 (0.3352) Prec 89.844%			Data	0.002	(0.006)	Loss
Epoch: [65][300/391] Time 0.054 (0.057) Data 0.002 (0.005) Loss 0.0965 (0.0864) Prec 96.094% (96.930%) Validation starts Test: [0/79] Time 0.314 (0.314) Loss 0.3352 (0.3352) Prec 89.844%	-				•	
0.0965 (0.0864) Prec 96.094% (96.930%) Validation starts Test: [0/79] Time 0.314 (0.314) Loss 0.3352 (0.3352) Prec 89.844%			Data	0.002	(0.005)	Loss
Validation starts Test: [0/79] Time 0.314 (0.314) Loss 0.3352 (0.3352) Prec 89.844%	-				•	
(89.844%)	Test: [0/79] Time 0.314 (0.314)	Loss	0.3352	(0.3352	2) Prec	89.844%
	(89.844%)					

* Prec 88.400%	
best acc: 89.100000	
Epoch: [66] [0/391] Time 0.382 (0.382)	Data 0.343 (0.343) Loss
0.0877 (0.0877) Prec 96.094% (96.094%)	
Epoch: [66][100/391] Time 0.055 (0.059)	Data 0.004 (0.007) Loss
0.1003 (0.0773) Prec 96.875% (97.161%)	
Epoch: [66] [200/391] Time 0.062 (0.057)	Data 0.002 (0.005) Loss
0.0690 (0.0792) Prec 98.438% (97.104%)	
Epoch: [66] [300/391] Time 0.049 (0.057)	Data 0.002 (0.004) Loss
0.0282 (0.0842) Prec 100.000% (96.989%)	
Validation starts	
Test: [0/79] Time 0.363 (0.363) Los	s 0.3009 (0.3009) Prec 92.188%
(92.188%)	
* Prec 87.800%	
best acc: 89.100000	
Epoch: [67] [0/391] Time 0.391 (0.391)	Data 0.345 (0.345) Loss
0.1637 (0.1637) Prec 96.875% (96.875%)	
Epoch: [67] [100/391] Time 0.057 (0.059)	Data 0.002 (0.007) Loss
0.0530 (0.0708) Prec 99.219% (97.587%)	Data 0.002 (0.001) Lobb
Epoch: [67] [200/391] Time 0.052 (0.057)	Data 0.004 (0.005) Loss
0.0979 (0.0765) Prec 97.656% (97.450%)	Data 0.004 (0.000) Loss
Epoch: [67] [300/391] Time 0.056 (0.056)	Data 0.002 (0.004) Loss
0.0419 (0.0822) Prec 98.438% (97.202%)	Data 0.002 (0.004) LOSS
Validation starts	
T_{-+} , $[0/70]$ T_{-+} 0.240 (0.240) $T_{}$	- 0 040E (0 040E) D 00 060%
Test: [0/79] Time 0.349 (0.349) Los	s 0.2425 (0.2425) Prec 92.969%
(92.969%)	s 0.2425 (0.2425) Prec 92.969%
(92.969%) * Prec 89.980%	s 0.2425 (0.2425) Prec 92.969%
(92.969%) * Prec 89.980% best acc: 89.980000	
(92.969%) * Prec 89.980% best acc: 89.980000 Epoch: [68] [0/391] Time 0.470 (0.470)	
(92.969%) * Prec 89.980% best acc: 89.980000 Epoch: [68] [0/391] Time 0.470 (0.470) 0.0752 (0.0752) Prec 97.656% (97.656%)	Data 0.428 (0.428) Loss
(92.969%) * Prec 89.980% best acc: 89.980000 Epoch: [68] [0/391] Time 0.470 (0.470) 0.0752 (0.0752) Prec 97.656% (97.656%) Epoch: [68] [100/391] Time 0.062 (0.060)	
(92.969%) * Prec 89.980% best acc: 89.980000 Epoch: [68] [0/391] Time 0.470 (0.470) 0.0752 (0.0752) Prec 97.656% (97.656%) Epoch: [68] [100/391] Time 0.062 (0.060) 0.0836 (0.0784) Prec 96.094% (97.285%)	Data 0.428 (0.428) Loss Data 0.009 (0.008) Loss
(92.969%) * Prec 89.980% best acc: 89.980000 Epoch: [68] [0/391] Time 0.470 (0.470) 0.0752 (0.0752) Prec 97.656% (97.656%) Epoch: [68] [100/391] Time 0.062 (0.060) 0.0836 (0.0784) Prec 96.094% (97.285%) Epoch: [68] [200/391] Time 0.054 (0.058)	Data 0.428 (0.428) Loss Data 0.009 (0.008) Loss
(92.969%) * Prec 89.980% best acc: 89.980000 Epoch: [68] [0/391]	Data 0.428 (0.428) Loss Data 0.009 (0.008) Loss Data 0.014 (0.006) Loss
(92.969%) * Prec 89.980% best acc: 89.980000 Epoch: [68] [0/391] Time 0.470 (0.470) 0.0752 (0.0752) Prec 97.656% (97.656%) Epoch: [68] [100/391] Time 0.062 (0.060) 0.0836 (0.0784) Prec 96.094% (97.285%) Epoch: [68] [200/391] Time 0.054 (0.058) 0.1062 (0.0810) Prec 96.875% (97.268%) Epoch: [68] [300/391] Time 0.055 (0.057)	Data 0.428 (0.428) Loss Data 0.009 (0.008) Loss Data 0.014 (0.006) Loss
(92.969%) * Prec 89.980% best acc: 89.980000 Epoch: [68] [0/391] Time 0.470 (0.470) 0.0752 (0.0752) Prec 97.656% (97.656%) Epoch: [68] [100/391] Time 0.062 (0.060) 0.0836 (0.0784) Prec 96.094% (97.285%) Epoch: [68] [200/391] Time 0.054 (0.058) 0.1062 (0.0810) Prec 96.875% (97.268%) Epoch: [68] [300/391] Time 0.055 (0.057) 0.0599 (0.0823) Prec 98.438% (97.192%)	Data 0.428 (0.428) Loss Data 0.009 (0.008) Loss Data 0.014 (0.006) Loss
(92.969%) * Prec 89.980% best acc: 89.980000 Epoch: [68] [0/391] Time 0.470 (0.470) 0.0752 (0.0752) Prec 97.656% (97.656%) Epoch: [68] [100/391] Time 0.062 (0.060) 0.0836 (0.0784) Prec 96.094% (97.285%) Epoch: [68] [200/391] Time 0.054 (0.058) 0.1062 (0.0810) Prec 96.875% (97.268%) Epoch: [68] [300/391] Time 0.055 (0.057)	Data 0.428 (0.428) Loss Data 0.009 (0.008) Loss Data 0.014 (0.006) Loss
(92.969%) * Prec 89.980% best acc: 89.980000 Epoch: [68] [0/391] Time 0.470 (0.470) 0.0752 (0.0752) Prec 97.656% (97.656%) Epoch: [68] [100/391] Time 0.062 (0.060) 0.0836 (0.0784) Prec 96.094% (97.285%) Epoch: [68] [200/391] Time 0.054 (0.058) 0.1062 (0.0810) Prec 96.875% (97.268%) Epoch: [68] [300/391] Time 0.055 (0.057) 0.0599 (0.0823) Prec 98.438% (97.192%)	Data 0.428 (0.428) Loss Data 0.009 (0.008) Loss Data 0.014 (0.006) Loss Data 0.002 (0.005) Loss
(92.969%) * Prec 89.980% best acc: 89.980000 Epoch: [68] [0/391]	Data 0.428 (0.428) Loss Data 0.009 (0.008) Loss Data 0.014 (0.006) Loss Data 0.002 (0.005) Loss
(92.969%) * Prec 89.980% best acc: 89.980000 Epoch: [68] [0/391] Time 0.470 (0.470) 0.0752 (0.0752) Prec 97.656% (97.656%) Epoch: [68] [100/391] Time 0.062 (0.060) 0.0836 (0.0784) Prec 96.094% (97.285%) Epoch: [68] [200/391] Time 0.054 (0.058) 0.1062 (0.0810) Prec 96.875% (97.268%) Epoch: [68] [300/391] Time 0.055 (0.057) 0.0599 (0.0823) Prec 98.438% (97.192%) Validation starts Test: [0/79] Time 0.361 (0.361) Los	Data 0.428 (0.428) Loss Data 0.009 (0.008) Loss Data 0.014 (0.006) Loss Data 0.002 (0.005) Loss
(92.969%) * Prec 89.980% best acc: 89.980000 Epoch: [68] [0/391] Time 0.470 (0.470) 0.0752 (0.0752) Prec 97.656% (97.656%) Epoch: [68] [100/391] Time 0.062 (0.060) 0.0836 (0.0784) Prec 96.094% (97.285%) Epoch: [68] [200/391] Time 0.054 (0.058) 0.1062 (0.0810) Prec 96.875% (97.268%) Epoch: [68] [300/391] Time 0.055 (0.057) 0.0599 (0.0823) Prec 98.438% (97.192%) Validation starts Test: [0/79] Time 0.361 (0.361) Los (92.969%)	Data 0.428 (0.428) Loss Data 0.009 (0.008) Loss Data 0.014 (0.006) Loss Data 0.002 (0.005) Loss
(92.969%) * Prec 89.980% best acc: 89.980000 Epoch: [68] [0/391] Time 0.470 (0.470) 0.0752 (0.0752) Prec 97.656% (97.656%) Epoch: [68] [100/391] Time 0.062 (0.060) 0.0836 (0.0784) Prec 96.094% (97.285%) Epoch: [68] [200/391] Time 0.054 (0.058) 0.1062 (0.0810) Prec 96.875% (97.268%) Epoch: [68] [300/391] Time 0.055 (0.057) 0.0599 (0.0823) Prec 98.438% (97.192%) Validation starts Test: [0/79] Time 0.361 (0.361) Los (92.969%) * Prec 90.130%	Data 0.428 (0.428) Loss Data 0.009 (0.008) Loss Data 0.014 (0.006) Loss Data 0.002 (0.005) Loss s 0.2238 (0.2238) Prec 92.969%
(92.969%) * Prec 89.980% best acc: 89.980000 Epoch: [68] [0/391] Time 0.470 (0.470) 0.0752 (0.0752) Prec 97.656% (97.656%) Epoch: [68] [100/391] Time 0.062 (0.060) 0.0836 (0.0784) Prec 96.094% (97.285%) Epoch: [68] [200/391] Time 0.054 (0.058) 0.1062 (0.0810) Prec 96.875% (97.268%) Epoch: [68] [300/391] Time 0.055 (0.057) 0.0599 (0.0823) Prec 98.438% (97.192%) Validation starts Test: [0/79] Time 0.361 (0.361) Los (92.969%) * Prec 90.130% best acc: 90.130000	Data 0.428 (0.428) Loss Data 0.009 (0.008) Loss Data 0.014 (0.006) Loss Data 0.002 (0.005) Loss s 0.2238 (0.2238) Prec 92.969%
(92.969%) * Prec 89.980% best acc: 89.980000 Epoch: [68] [0/391] Time 0.470 (0.470) 0.0752 (0.0752) Prec 97.656% (97.656%) Epoch: [68] [100/391] Time 0.062 (0.060) 0.0836 (0.0784) Prec 96.094% (97.285%) Epoch: [68] [200/391] Time 0.054 (0.058) 0.1062 (0.0810) Prec 96.875% (97.268%) Epoch: [68] [300/391] Time 0.055 (0.057) 0.0599 (0.0823) Prec 98.438% (97.192%) Validation starts Test: [0/79] Time 0.361 (0.361) Los (92.969%) * Prec 90.130% best acc: 90.130000 Epoch: [69] [0/391] Time 0.472 (0.472)	Data 0.428 (0.428) Loss Data 0.009 (0.008) Loss Data 0.014 (0.006) Loss Data 0.002 (0.005) Loss s 0.2238 (0.2238) Prec 92.969% Data 0.428 (0.428) Loss
(92.969%) * Prec 89.980% best acc: 89.980000 Epoch: [68] [0/391] Time 0.470 (0.470) 0.0752 (0.0752) Prec 97.656% (97.656%) Epoch: [68] [100/391] Time 0.062 (0.060) 0.0836 (0.0784) Prec 96.094% (97.285%) Epoch: [68] [200/391] Time 0.054 (0.058) 0.1062 (0.0810) Prec 96.875% (97.268%) Epoch: [68] [300/391] Time 0.055 (0.057) 0.0599 (0.0823) Prec 98.438% (97.192%) Validation starts Test: [0/79] Time 0.361 (0.361) Los (92.969%) * Prec 90.130% best acc: 90.130000 Epoch: [69] [0/391] Time 0.472 (0.472) 0.0514 (0.0514) Prec 97.656% (97.656%)	Data 0.428 (0.428) Loss Data 0.009 (0.008) Loss Data 0.014 (0.006) Loss Data 0.002 (0.005) Loss s 0.2238 (0.2238) Prec 92.969% Data 0.428 (0.428) Loss
(92.969%) * Prec 89.980% best acc: 89.980000 Epoch: [68] [0/391] Time 0.470 (0.470) 0.0752 (0.0752) Prec 97.656% (97.656%) Epoch: [68] [100/391] Time 0.062 (0.060) 0.0836 (0.0784) Prec 96.094% (97.285%) Epoch: [68] [200/391] Time 0.054 (0.058) 0.1062 (0.0810) Prec 96.875% (97.268%) Epoch: [68] [300/391] Time 0.055 (0.057) 0.0599 (0.0823) Prec 98.438% (97.192%) Validation starts Test: [0/79] Time 0.361 (0.361) Los (92.969%) * Prec 90.130% best acc: 90.130000 Epoch: [69] [0/391] Time 0.472 (0.472) 0.0514 (0.0514) Prec 97.656% (97.656%) Epoch: [69] [100/391] Time 0.056 (0.060)	Data 0.428 (0.428) Loss Data 0.009 (0.008) Loss Data 0.014 (0.006) Loss Data 0.002 (0.005) Loss s 0.2238 (0.2238) Prec 92.969% Data 0.428 (0.428) Loss Data 0.004 (0.008) Loss
(92.969%) * Prec 89.980% best acc: 89.980000 Epoch: [68] [0/391] Time 0.470 (0.470) 0.0752 (0.0752) Prec 97.656% (97.656%) Epoch: [68] [100/391] Time 0.062 (0.060) 0.0836 (0.0784) Prec 96.094% (97.285%) Epoch: [68] [200/391] Time 0.054 (0.058) 0.1062 (0.0810) Prec 96.875% (97.268%) Epoch: [68] [300/391] Time 0.055 (0.057) 0.0599 (0.0823) Prec 98.438% (97.192%) Validation starts Test: [0/79] Time 0.361 (0.361) Los (92.969%) * Prec 90.130% best acc: 90.130000 Epoch: [69] [0/391] Time 0.472 (0.472) 0.0514 (0.0514) Prec 97.656% (97.656%) Epoch: [69] [100/391] Time 0.056 (0.060) 0.0558 (0.0749) Prec 98.438% (97.471%)	Data 0.428 (0.428) Loss Data 0.009 (0.008) Loss Data 0.014 (0.006) Loss Data 0.002 (0.005) Loss s 0.2238 (0.2238) Prec 92.969% Data 0.428 (0.428) Loss Data 0.004 (0.008) Loss
(92.969%) * Prec 89.980% best acc: 89.980000 Epoch: [68] [0/391] Time 0.470 (0.470) 0.0752 (0.0752) Prec 97.656% (97.656%) Epoch: [68] [100/391] Time 0.062 (0.060) 0.0836 (0.0784) Prec 96.094% (97.285%) Epoch: [68] [200/391] Time 0.054 (0.058) 0.1062 (0.0810) Prec 96.875% (97.268%) Epoch: [68] [300/391] Time 0.055 (0.057) 0.0599 (0.0823) Prec 98.438% (97.192%) Validation starts Test: [0/79] Time 0.361 (0.361) Los (92.969%) * Prec 90.130% best acc: 90.130000 Epoch: [69] [0/391] Time 0.472 (0.472) 0.0514 (0.0514) Prec 97.656% (97.656%) Epoch: [69] [100/391] Time 0.056 (0.060) 0.0558 (0.0749) Prec 98.438% (97.471%) Epoch: [69] [200/391] Time 0.054 (0.058)	Data 0.428 (0.428) Loss Data 0.009 (0.008) Loss Data 0.014 (0.006) Loss Data 0.002 (0.005) Loss s 0.2238 (0.2238) Prec 92.969% Data 0.428 (0.428) Loss Data 0.004 (0.008) Loss Data 0.002 (0.006) Loss

0.0402 (0.0787) Prec 97.656% (97.321%) Validation starts	
Test: [0/79] Time 0.339 (0.339) Loss	0.2209 (0.2209) Prec 92.188%
(92.188%)	
* Prec 89.700%	
best acc: 90.130000	
Epoch: [70][0/391] Time 0.471 (0.471)	Data 0.432 (0.432) Loss
0.0697 (0.0697) Prec 96.094% (96.094%)	
Epoch: [70][100/391] Time 0.055 (0.059)	Data 0.002 (0.008) Loss
0.0556 (0.0740) Prec 98.438% (97.463%)	
Epoch: [70] [200/391] Time 0.055 (0.057)	Data 0.002 (0.005) Loss
0.0953 (0.0838) Prec 96.094% (97.085%)	
Epoch: [70] [300/391] Time 0.055 (0.057)	Data 0.002 (0.004) Loss
0.0485 (0.0815) Prec 97.656% (97.153%)	
Validation starts	
Test: [0/79] Time 0.341 (0.341) Loss	0.3137 (0.3137) Prec 90.625%
(90.625%)	
* Prec 89.640%	
best acc: 90.130000	D-+- 0 450 (0 450)
Epoch: [71] [0/391] Time 0.498 (0.498)	Data 0.450 (0.450) Loss
0.0770 (0.0770) Prec 96.875% (96.875%)	D-+- 0 000 (0 000) I
Epoch: [71] [100/391] Time 0.055 (0.060)	Data 0.002 (0.008) Loss
0.1445 (0.0818) Prec 94.531% (97.146%)	Data 0 000 (0 00E) I ara
Epoch: [71] [200/391] Time 0.054 (0.057)	Data 0.002 (0.005) Loss
0.0261 (0.0810) Prec 100.000% (97.225%)	Data 0 000 (0 004)
Epoch: [71] [300/391] Time 0.054 (0.056)	Data 0.002 (0.004) Loss
0.1744 (0.0793) Prec 93.750% (97.282%) Validation starts	
Test: [0/79] Time 0.292 (0.292) Loss	0 2321 (0 2321) Prec 91 4069
(91.406%)	0.2321 (0.2321) 1160 31.400%
* Prec 89.660%	
best acc: 90.130000	
Epoch: [72] [0/391] Time 0.450 (0.450)	Data 0.407 (0.407) Loss
0.0815 (0.0815) Prec 96.875% (96.875%)	2404 00100 (00100) 2002
Epoch: [72][100/391] Time 0.055 (0.060)	Data 0.002 (0.008) Loss
0.0288 (0.0671) Prec 99.219% (97.765%)	
Epoch: [72][200/391] Time 0.057 (0.057)	Data 0.002 (0.006) Loss
0.0470 (0.0718) Prec 98.438% (97.617%)	
Epoch: [72][300/391] Time 0.055 (0.057)	Data 0.002 (0.005) Loss
0.0282 (0.0752) Prec 100.000% (97.441%)	
Validation starts	
Test: [0/79] Time 0.326 (0.326) Loss	0.1342 (0.1342) Prec 95.312%
(95.312%)	
* Prec 90.480%	
best acc: 90.480000	
Epoch: [73][0/391] Time 0.387 (0.387)	Data 0.347 (0.347) Loss
0.0474 (0.0474) Prec 98.438% (98.438%)	
Epoch: [73][100/391] Time 0.055 (0.058)	Data 0.002 (0.005) Loss

0.4040 (0.004)					
0.1916 (0.0694) Prec 95.312% (9		D-+-	0 000	(0,004)	T
Epoch: [73] [200/391] Time 0.053		рата	0.002	(0.004)	Loss
0.0167 (0.0771) Prec 100.000% (D-+-	0 000	(0, 002)	T
Epoch: [73] [300/391] Time 0.054		рата	0.002	(0.003)	Loss
0.1927 (0.0800) Prec 94.531% (9	77.215%)				
Validation starts	.	0.0000	(0.000)	, , , , , , , , , , , , , , , , , , ,	00 750%
Test: [0/79] Time 0.366 (0.366)	Loss	0.2300	(0.2300)) Prec	93.750%
(93.750%)					
* Prec 89.630%					
best acc: 90.480000	(0 500)	ъ.	0 457	(0.457)	
Epoch: [74] [0/391] Time 0.509		рата	0.457	(0.457)	Loss
0.1064 (0.1064) Prec 97.656% (9		ъ.	0 000	(0,007)	
Epoch: [74] [100/391] Time 0.054		рата	0.002	(0.007)	Loss
0.0540 (0.0775) Prec 98.438% (9		- .		(0.004)	_
Epoch: [74] [200/391] Time 0.054		Data	0.002	(0.004)	Loss
0.0414 (0.0800) Prec 98.438% (9				()	_
Epoch: [74] [300/391] Time 0.047		Data	0.002	(0.004)	Loss
0.1266 (0.0810) Prec 96.094% (9	7.303%)				
Validation starts					
Test: [0/79] Time 0.278 (0.278)	Loss	0.1897	(0.1897	7) Prec	93.750%
(93.750%)					
* Prec 90.140%					
best acc: 90.480000					
Epoch: [75] [0/391] Time 0.330		Data	0.292	(0.292)	Loss
0.0922 (0.0922) Prec 98.438% (9					
Epoch: [75] [100/391] Time 0.050		Data	0.003	(0.006)	Loss
0.0471 (0.0711) Prec 98.438% (9	7.525%)				
Epoch: [75] [200/391] Time 0.058	(0.056)	Data	0.002	(0.004)	Loss
0.1845 (0.0720) Prec 93.750% (9	7.512%)				
Epoch: [75] [300/391] Time 0.055	(0.056)	Data	0.002	(0.003)	Loss
0.0963 (0.0764) Prec 96.094% (9	7.373%)				
Validation starts					
Test: [0/79] Time 0.417 (0.417)	Loss	0.3231	(0.3231	l) Prec	91.406%
(91.406%)					
* Prec 88.260%					
best acc: 90.480000					
Epoch: [76] [0/391] Time 0.434	(0.434)	Data	0.395	(0.395)	Loss
0.1439 (0.1439) Prec 94.531% (9	4.531%)				
Epoch: [76] [100/391] Time 0.052	(0.059)	Data	0.003	(0.006)	Loss
0.1110 (0.0648) Prec 96.875% (9	7.819%)				
Epoch: [76] [200/391] Time 0.055	(0.057)	Data	0.002	(0.004)	Loss
0.0680 (0.0725) Prec 98.438% (9	7.497%)				
Epoch: [76][300/391] Time 0.057	(0.056)	Data	0.002	(0.004)	Loss
0.0755 (0.0755) Prec 98.438% (9	7.410%)				
Validation starts					
Test: [0/79] Time 0.313 (0.313)	Loss	0.0993	(0.0993	3) Prec	96.094%
(96.094%)					
* Prec 89.900%					

best acc: 90.480000	
Epoch: [77] [0/391] Time 0.440 (0.440)	Data 0.400 (0.400) Loss
0.0704 (0.0704) Prec 96.875% (96.875%)	2022
Epoch: [77] [100/391] Time 0.055 (0.059)	Data 0.002 (0.007) Loss
0.1491 (0.0706) Prec 95.312% (97.618%)	2000 0.002 (0.001) 2000
Epoch: [77] [200/391] Time 0.054 (0.057)	Data 0.002 (0.004) Loss
0.0498 (0.0743) Prec 98.438% (97.462%)	2000 0.002 (0.001) 2000
Epoch: [77] [300/391] Time 0.054 (0.056)	Data 0.002 (0.004) Loss
0.0835 (0.0779) Prec 96.875% (97.321%)	2404 01002 (01002), 2022
Validation starts	
Test: [0/79] Time 0.340 (0.340) Loss	s 0.2459 (0.2459) Prec 92.969%
(92.969%)	, 0.2100 (0.2100) 1100 02.000%
* Prec 90.170%	
best acc: 90.480000	
Epoch: [78] [0/391] Time 0.352 (0.352)	Data 0.309 (0.309) Loss
0.0311 (0.0311) Prec 99.219% (99.219%)	2000 0.000 (0.000) 2022
Epoch: [78] [100/391] Time 0.058 (0.059)	Data 0.002 (0.006) Loss
0.1343 (0.0694) Prec 96.094% (97.571%)	
Epoch: [78] [200/391] Time 0.050 (0.057)	Data 0.002 (0.004) Loss
0.0441 (0.0698) Prec 98.438% (97.645%)	2404 0.002 (0.002) 2022
Epoch: [78] [300/391] Time 0.055 (0.056)	Data 0.002 (0.004) Loss
0.0624 (0.0712) Prec 97.656% (97.552%)	
Validation starts	
Test: [0/79] Time 0.311 (0.311) Loss	s 0.2545 (0.2545) Prec 90.625%
(90.625%)	
* Prec 88.100%	
best acc: 90.480000	
Epoch: [79] [0/391] Time 0.302 (0.302)	Data 0.259 (0.259) Loss
0.0591 (0.0591) Prec 97.656% (97.656%)	
Epoch: [79] [100/391] Time 0.055 (0.058)	Data 0.002 (0.005) Loss
0.0247 (0.0743) Prec 99.219% (97.579%)	· · ·
Epoch: [79][200/391] Time 0.058 (0.057)	Data 0.004 (0.004) Loss
0.0464 (0.0748) Prec 99.219% (97.470%)	
Epoch: [79][300/391] Time 0.054 (0.056)	Data 0.002 (0.004) Loss
0.1049 (0.0751) Prec 97.656% (97.485%)	· · ·
Validation starts	
Test: [0/79] Time 0.351 (0.351) Loss	s 0.3319 (0.3319) Prec 90.625%
(90.625%)	
* Prec 86.270%	
best acc: 90.480000	
Epoch: [80][0/391] Time 0.532 (0.532)	Data 0.476 (0.476) Loss
0.0787 (0.0787) Prec 97.656% (97.656%)	
Epoch: [80][100/391] Time 0.052 (0.060)	Data 0.003 (0.007) Loss
0.0422 (0.0718) Prec 98.438% (97.587%)	· · ·
Epoch: [80][200/391] Time 0.060 (0.058)	Data 0.002 (0.005) Loss
0.0733 (0.0715) Prec 97.656% (97.544%)	•
Epoch: [80][300/391] Time 0.054 (0.057)	Data 0.002 (0.004) Loss
0.0523 (0.0733) Prec 99.219% (97.477%)	•
· · · · · · · · · · · · · · · · · · ·	

Validation starts Test: [0/79] Time 0.335 (0.335) L (92.969%) * Prec 89.810%	oss 0.2225 (0.2225) Prec 92.969%
best acc: 90.480000	
Epoch: [81] [0/391] Time 0.437 (0.437	
0.0592 (0.0592) Prec 97.656% (97.656%)	
Epoch: [81] [100/391] Time 0.058 (0.060) Data 0.002 (0.007) Loss
0.0502 (0.0686) Prec 97.656% (97.757%) Epoch: [81][200/391] Time 0.057 (0.058) Data 0.002 (0.005) Loss
0.0670 (0.0694) Prec 96.875% (97.703%)) Data 0.002 (0.003) Loss
Epoch: [81] [300/391] Time 0.067 (0.057) Data 0.001 (0.004) Loss
0.0199 (0.0694) Prec 100.000% (97.641%	
Validation starts	,
Test: [0/79] Time 0.363 (0.363) L	oss 0.2043 (0.2043) Prec 91.406%
(91.406%)	222 012010 (012010) 1200 0211100
* Prec 89.310%	
best acc: 90.480000	
Epoch: [82][0/391] Time 0.427 (0.427) Data 0.382 (0.382) Loss
0.0383 (0.0383) Prec 98.438% (98.438%)	
Epoch: [82][100/391] Time 0.051 (0.059) Data 0.002 (0.006) Loss
0.1092 (0.0707) Prec 96.875% (97.618%)	
Epoch: [82][200/391] Time 0.055 (0.057) Data 0.002 (0.005) Loss
0.0461 (0.0703) Prec 98.438% (97.637%)	
Epoch: [82][300/391] Time 0.051 (0.057) Data 0.002 (0.004) Loss
0.0974 (0.0715) Prec 96.094% (97.498%)	
Validation starts	
Test: [0/79] Time 0.385 (0.385) L	oss 0.2591 (0.2591) Prec 91.406%
(91.406%)	
* Prec 89.780%	
best acc: 90.480000	
Epoch: [83] [0/391] Time 0.461 (0.461) Data 0.415 (0.415) Loss
0.0198 (0.0198) Prec 99.219% (99.219%)	
Epoch: [83] [100/391] Time 0.053 (0.059) Data 0.004 (0.008) Loss
0.0502 (0.0639) Prec 97.656% (97.834%))
Epoch: [83] [200/391] Time 0.054 (0.057	
0.0516 (0.0649) Prec 97.656% (97.831%)	
Epoch: [83] [300/391] Time 0.064 (0.057) Data 0.005 (0.004) Loss
0.0535 (0.0686) Prec 97.656% (97.677%)	
Validation starts	ogg 0 2710 (0 2710) Proc 01 406%
Test: [0/79] Time 0.314 (0.314) L (91.406%)	oss 0.2/19 (0.2/19) Prec 91.400%
* Prec 89.200%	
best acc: 90.480000	
Epoch: [84] [0/391] Time 0.391 (0.391) Data 0.338 (0.338) Loss
0.0647 (0.0647) Prec 97.656% (97.656%)	
Epoch: [84] [100/391] Time 0.066 (0.059	
0.0377 (0.0651) Prec 99.219% (97.772%)	

Epoch: [84] [200/391] Time 0.058 (0.057)	Data 0.002 (0.005) Loss
0.0802 (0.0707) Prec 97.656% (97.520%) Epoch: [84][300/391] Time 0.058 (0.057) 0.0229 (0.0732) Prec 100.000% (97.454%)	Data 0.002 (0.005) Loss
Validation starts Test: [0/79] Time 0.392 (0.392) Loss	0.2062 (0.2062) Prec 91.406%
(91.406%) * Prec 88.800%	
best acc: 90.480000	
Epoch: [85][0/391] Time 0.401 (0.401)	Data 0.358 (0.358) Loss
0.0591 (0.0591) Prec 97.656% (97.656%)	
Epoch: [85][100/391] Time 0.055 (0.059)	Data 0.002 (0.007) Loss
0.0875 (0.0748) Prec 98.438% (97.316%)	
Epoch: [85][200/391] Time 0.061 (0.057)	Data 0.002 (0.005) Loss
0.0969 (0.0744) Prec 96.875% (97.357%)	
Epoch: [85][300/391] Time 0.053 (0.057)	Data 0.007 (0.004) Loss
0.0317 (0.0759) Prec 99.219% (97.316%)	
Validation starts	
Test: [0/79] Time 0.352 (0.352) Loss	0.1476 (0.1476) Prec 96.094%
(96.094%)	
* Prec 89.010%	
best acc: 90.480000	
Epoch: [86] [0/391] Time 0.428 (0.428)	Data 0.374 (0.374) Loss
0.0653 (0.0653) Prec 97.656% (97.656%)	
Epoch: [86] [100/391] Time 0.055 (0.059)	Data 0.002 (0.007) Loss
0.0939 (0.0645) Prec 96.094% (97.718%)	
Epoch: [86] [200/391] Time 0.052 (0.057)	Data 0.002 (0.005) Loss
0.0652 (0.0689) Prec 96.875% (97.571%)	
Epoch: [86] [300/391] Time 0.055 (0.057)	Data 0.002 (0.004) Loss
0.0835 (0.0723) Prec 95.312% (97.467%)	
Validation starts	
Test: [0/79] Time 0.337 (0.337) Loss	0.2974 (0.2974) Prec 90.625%
(90.625%)	
* Prec 88.270%	
best acc: 90.480000	D + 0 202 (0 202)
Epoch: [87] [0/391] Time 0.432 (0.432)	Data 0.393 (0.393) Loss
0.0450 (0.0450) Prec 97.656% (97.656%)	D + 0.046 (0.000)
Epoch: [87] [100/391] Time 0.052 (0.060)	Data 0.016 (0.008) Loss
0.0618 (0.0693) Prec 96.875% (97.734%)	D
Epoch: [87] [200/391] Time 0.069 (0.058)	Data 0.002 (0.005) Loss
0.0904 (0.0701) Prec 97.656% (97.629%)	D . 0.000 (0.004)
Epoch: [87] [300/391] Time 0.056 (0.057)	Data 0.002 (0.004) Loss
0.0763 (0.0711) Prec 98.438% (97.568%)	
Validation starts	0 0047 (0 0047)
Test: [0/79] Time 0.356 (0.356) Loss (93.750%)	0.2841 (0.2841) Prec 93.750%
(93.750%) * Prec 89.500%	
* Fiec 89.500% best acc: 90.480000	
DEST ACC. 30.400000	

Epoch: [88] [0/391] Time 0.441 (0.441) 0.0159 (0.0159) Prec 99.219% (99.219%)	Data 0.400 (0.400)	Loss
Epoch: [88] [100/391] Time 0.051 (0.060) 0.0279 (0.0632) Prec 99.219% (97.819%)	Data 0.002 (0.008)	Loss
Epoch: [88] [200/391] Time 0.055 (0.058) 0.0880 (0.0654) Prec 97.656% (97.757%)	Data 0.002 (0.005)	Loss
Epoch: [88] [300/391] Time 0.056 (0.057) 0.0224 (0.0670) Prec 100.000% (97.677%)	Data 0.002 (0.005)	Loss
Validation starts		
Test: [0/79] Time 0.260 (0.260) Loss	0.2199 (0.2199) Pi	rec 92.188%
(92.188%)		
* Prec 89.560%		
best acc: 90.480000		
Epoch: [89] [0/391] Time 0.418 (0.418)	Data 0.363 (0.363)	Loss
0.0729 (0.0729) Prec 97.656% (97.656%)		
Epoch: [89][100/391] Time 0.052 (0.059)	Data 0.002 (0.006)	Loss
0.0464 (0.0634) Prec 97.656% (97.850%)		
Epoch: [89][200/391] Time 0.057 (0.057)	Data 0.002 (0.004)	Loss
0.1091 (0.0696) Prec 96.094% (97.683%)		
Epoch: [89][300/391] Time 0.055 (0.056)	Data 0.002 (0.004)	Loss
0.0306 (0.0682) Prec 98.438% (97.695%)		
Validation starts		
Test: [0/79] Time 0.329 (0.329) Loss	0.2779 (0.2779) Pi	rec 90.625%
(90.625%)		
* Prec 89.350%		
best acc: 90.480000		
Epoch: [90][0/391] Time 0.401 (0.401)	Data 0.350 (0.350)	Loss
0.0712 (0.0712) Prec 96.875% (96.875%)		
Epoch: [90][100/391] Time 0.059 (0.059)	Data 0.002 (0.006)	Loss
0.0470 (0.0682) Prec 96.875% (97.695%)		
Epoch: [90][200/391] Time 0.054 (0.057)	Data 0.002 (0.004)	Loss
0.1650 (0.0682) Prec 96.875% (97.672%)		
Epoch: [90][300/391] Time 0.051 (0.056)	Data 0.004 (0.004)	Loss
0.1143 (0.0721) Prec 96.875% (97.589%)		
Validation starts		
Test: [0/79] Time 0.329 (0.329) Loss	0.3270 (0.3270) Pi	rec 92.188%
(92.188%)		
* Prec 89.110%		
best acc: 90.480000		
Epoch: [91][0/391] Time 0.372 (0.372)	Data 0.327 (0.327)	Loss
0.1375 (0.1375) Prec 94.531% (94.531%)		
Epoch: [91][100/391] Time 0.059 (0.059)	Data 0.005 (0.007)	Loss
0.0610 (0.0756) Prec 96.094% (97.285%)		
Epoch: [91][200/391] Time 0.054 (0.057)	Data 0.002 (0.005)	Loss
0.1290 (0.0735) Prec 97.656% (97.373%)		
Epoch: [91][300/391] Time 0.051 (0.056)	Data 0.002 (0.004)	Loss
0.0471 (0.0748) Prec 96.875% (97.347%)		
Validation starts		

Test: [0/79] Time 0.3 (92.188%)	346 (0.346) Loss	0.2856 (0.2856	6) Prec 92.188%
* Prec 89.440%			
best acc: 90.480000			
Epoch: [92][0/391]	Time 0.388 (0.388)	Data 0.348	(0.348) Loss
0.0755 (0.0755) Prec			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Epoch: [92] [100/391]		Data 0.002	(0.007) Loss
0.0868 (0.0617) Prec			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Epoch: [92][200/391]		Data 0.002	(0.005) Loss
0.0638 (0.0640) Prec			
Epoch: [92][300/391]		Data 0.002	(0.004) Loss
0.0788 (0.0698) Prec			, ,
Validation starts			
Test: [0/79] Time 0.3	375 (0.375) Loss	0.4251 (0.425)	1) Prec 89.844%
(89.844%)			
* Prec 89.370%			
best acc: 90.480000			
Epoch: [93][0/391]	Time 0.370 (0.370)	Data 0.328	(0.328) Loss
0.0550 (0.0550) Prec	97.656% (97.656%)		
Epoch: [93][100/391]	Time 0.054 (0.059)	Data 0.002	(0.006) Loss
0.0236 (0.0597) Prec	99.219% (97.942%)		
Epoch: [93][200/391]	Time 0.051 (0.057)	Data 0.002	(0.004) Loss
0.0612 (0.0598) Prec	98.438% (97.928%)		
Epoch: [93][300/391]	Time 0.057 (0.057)	Data 0.004	(0.004) Loss
0.1701 (0.0604) Prec			
Validation starts			
Test: [0/79] Time 0.3	364 (0.364) Loss	0.2207 (0.2207	7) Prec 93.750%
(93.750%)			
* Prec 89.460%			
best acc: 90.480000			
Epoch: [94][0/391]	Time 0.415 (0.415)	Data 0.364	(0.364) Loss
0.0866 (0.0866) Prec			
Epoch: [94][100/391]	Time 0.055 (0.060)	Data 0.002	(0.008) Loss
0.0520 (0.0739) Prec	96.875% (97.393%)		
Epoch: [94][200/391]	Time 0.057 (0.058)	Data 0.002	(0.006) Loss
0.0158 (0.0681) Prec	99.219% (97.606%)		
Epoch: [94][300/391]	Time 0.055 (0.057)	Data 0.003	(0.005) Loss
0.1240 (0.0686) Prec	96.094% (97.578%)		
Validation starts			
Test: [0/79] Time 0.3	384 (0.384) Loss	0.2475 (0.2475	5) Prec 91.406%
(91.406%)			
* Prec 88.570%			
best acc: 90.480000			
Epoch: [95][0/391]	Time 0.436 (0.436)	Data 0.380	(0.380) Loss
0.0471 (0.0471) Prec	99.219% (99.219%)		
Epoch: [95][100/391]	Time 0.055 (0.059)	Data 0.002	(0.007) Loss
0.0426 (0.0681) Prec	99.219% (97.571%)		
Epoch: [95][200/391]	Time 0.061 (0.057)	Data 0.002	(0.005) Loss

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0.0465 (0.0658) Prec 98.438% (97.648%)	D
Epoch: [95] [300/391] Time 0.055 (0.056)	Data 0.003 (0.004) Loss
0.1051 (0.0661) Prec 96.875% (97.685%)	
Validation starts	
Test: [0/79] Time 0.389 (0.389) Loss	s 0.2838 (0.2838) Prec 92.969%
(92.969%)	
* Prec 89.340%	
best acc: 90.480000	
Epoch: [96] [0/391] Time 0.315 (0.315)	Data 0.275 (0.275) Loss
0.0395 (0.0395) Prec 98.438% (98.438%)	
Epoch: [96][100/391] Time 0.054 (0.058)	Data 0.002 (0.005) Loss
0.1287 (0.0630) Prec 96.875% (97.811%)	
Epoch: [96][200/391] Time 0.055 (0.057)	Data 0.002 (0.004) Loss
0.0862 (0.0656) Prec 97.656% (97.707%)	
Epoch: [96][300/391] Time 0.055 (0.056)	Data 0.002 (0.003) Loss
0.0266 (0.0676) Prec 99.219% (97.641%)	
Validation starts	
Test: [0/79] Time 0.310 (0.310) Loss	s 0.3334 (0.3334) Prec 90.625%
(90.625%)	
* Prec 89.720%	
best acc: 90.480000	
Epoch: [97] [0/391] Time 0.419 (0.419)	Data 0.377 (0.377) Loss
0.1561 (0.1561) Prec 96.094% (96.094%)	Data 0.311 (0.311) Loss
Epoch: [97] [100/391] Time 0.055 (0.059)	Data 0.008 (0.007) Loss
0.0202 (0.0575) Prec 100.000% (98.035%)	Data 0.000 (0.007) Loss
	D 0.000 (0.005)
Epoch: [97] [200/391] Time 0.052 (0.057)	Data 0.002 (0.005) Loss
0.0703 (0.0611) Prec 96.875% (97.858%)	
Epoch: [97] [300/391] Time 0.055 (0.057)	Data 0.002 (0.005) Loss
0.0950 (0.0669) Prec 97.656% (97.719%)	
Validation starts	
Test: [0/79] Time 0.385 (0.385) Loss	s 0.3077 (0.3077) Prec 90.625%
(90.625%)	
* Prec 87.760%	
best acc: 90.480000	
Epoch: [98] [0/391] Time 0.445 (0.445)	Data 0.396 (0.396) Loss
0.0287 (0.0287) Prec 99.219% (99.219%)	
Epoch: [98] [100/391] Time 0.059 (0.059)	Data 0.002 (0.007) Loss
0.0068 (0.0573) Prec 100.000% (98.120%)	
Epoch: [98][200/391] Time 0.059 (0.058)	Data 0.002 (0.005) Loss
0.0954 (0.0618) Prec 96.875% (97.866%)	
Epoch: [98][300/391] Time 0.049 (0.057)	Data 0.003 (0.005) Loss
0.0791 (0.0615) Prec 96.875% (97.877%)	
Validation starts	
Test: [0/79] Time 0.385 (0.385) Loss	s 0.2638 (0.2638) Prec 92.188%
(92.188%)	
* Prec 89.390%	
best acc: 90.480000	
Epoch: [99] [0/391] Time 0.451 (0.451)	Data 0.404 (0.404) Loss
-F10:: [00][0/001] 11m0 0.101 (0.101)	

0.0697 (0.0697) Pro-	06 075% (06 075%)					
0.0687 (0.0687) Prec		Do+o	0 000	(0.008)	Togg	
Epoch: [99][100/391] 0.0552 (0.0703) Prec		раца	0.002	(0.008)	Loss	
Epoch: [99] [200/391]	Time 0.066 (0.057)	Do+o	0 002	(0.006)	Loss	
0.0410 (0.0680) Prec		Data	0.002	(0.000)	LUSS	
Epoch: [99] [300/391]		Da+a	0 002	(0.005)	Loss	
0.0292 (0.0682) Prec		Data	0.002	(0.003)	LUSS	
Validation starts	30.430% (31.100%)					
Test: [0/79] Time 0.3	330 (0 330) I o	gg N 2743	(0 2743	R) Prec	90 625%	
(90.625%)	502 (0:002) LO	55 0.2740	(0.2110) liec	30.020%	
* Prec 89.370%						
best acc: 90.480000						
Epoch: [100] [0/391]	Time 0 364 (0 364)	Data	0.313	(0.313)	Loss	
0.0394 (0.0394) Prec		Dava	0.010	(0.010)	ДОВВ	
Epoch: [100] [100/391]		Data	0 002	(0.007)	Loss	
0.1468 (0.0686) Prec		Dava	0.002	(0.001)	ДОВВ	
		Data	0 002	(0.005)	Loss	
0.0818 (0.0678) Prec		Dava	0.002	(0.000)	ДОВВ	
Epoch: [100][300/391]		Data	0 002	(0.004)	Loss	
0.0610 (0.0675) Prec		Data	0.002	(0.004)	LOSS	
Validation starts	30.010% (31.001%)					
Test: [0/79] Time 0.3	375 (0.375) Io	ss 0 3157	(0.3157	7) Prec	89 844%	
(89.844%)	570 (0.070)	0.0107	(0.010)	7 1100	00.011/	
* Prec 89.270%						
best acc: 90.480000						
Epoch: [101][0/391]	Time 0.467 (0.467)	Data	0.424	(0.424)	Loss	
0.0977 (0.0977) Prec		2404		(0.121)	2000	
Epoch: [101][100/391]		Data	0.004	(0.008)	Loss	
0.0480 (0.0587) Prec		2404	. 0.001	(0.000)	2000	
Epoch: [101][200/391]		Data	0.002	(0.005)	Loss	
_	99.219% (97.742%)	2404	0.002	(0.000)	2000	
Epoch: [101][300/391]		Data	0.002	(0.004)	Loss	
0.0731 (0.0647) Prec		2404	0.002	(0.001)	2000	
Validation starts	(01.110170)					
Test: [0/79] Time 0.3	372 (0.372) Lo	ss 0.1961	(0.1961	1) Prec	93.750%	
(93.750%)	512 (0.012)	0.1001	(0.1001	1100	00.100%	
* Prec 90.070%						
best acc: 90.480000						
Epoch: [102][0/391]	Time 0.425 (0.425)	Data	0.382	(0.382)	Loss	
0.0132 (0.0132) Prec			0.002	(0.002)	довь	
Epoch: [102][100/391]			0.010	(0.007)	Loss	
0.0095 (0.0547) Prec			0.010	(0.001)	довь	
Epoch: [102][200/391]			0 007	(0.006)	Loss	
-	96.875% (97.851%)	Dava	. 0.001	(0.000)	довь	
Epoch: [102] [300/391]		Nata	0.002	(0.005)	Loss	
0.0747 (0.0619) Prec		Dava	. 0.002	(0.000)	1000	
Validation starts						
	324 (0.324) Lo	ss 0.2121	(0.2121	l) Prec	92.188%	
	, , , ===,		– – – -		= = = 70	

* Prec 89.500%	
best acc: 90.480000	Data 0 266 (0 266) I
Epoch: [103] [0/391] Time 0.414 (0.414)	Data 0.366 (0.366) Loss
0.0573 (0.0573) Prec 97.656% (97.656%)	D-+- 0 000 (0 000) I
Epoch: [103] [100/391] Time 0.053 (0.060)	Data 0.006 (0.008) Loss
0.0966 (0.0588) Prec 96.094% (98.004%)	Data 0 006 (0 00E) I are
Epoch: [103] [200/391] Time 0.055 (0.058)	Data 0.006 (0.005) Loss
0.0548 (0.0621) Prec 98.438% (97.870%)	Data 0 004 (0 004) I are
Epoch: [103] [300/391] Time 0.055 (0.057)	Data 0.004 (0.004) Loss
0.0871 (0.0624) Prec 96.094% (97.838%) Validation starts	
	0 1402 (0 1402) Proc 05 2129
Test: [0/79] Time 0.368 (0.368) Loss (95.312%)	0.1492 (0.1492) Prec 95.512%
(95.312%) * Prec 89.370%	
best acc: 90.480000	
Epoch: [104][0/391] Time 0.378 (0.378)	Data 0.337 (0.337) Loss
0.0328 (0.0328) Prec 98.438% (98.438%)	Data 0.337 (0.337) LOSS
Epoch: [104] [100/391] Time 0.054 (0.058)	Data 0.002 (0.006) Loss
0.1308 (0.0615) Prec 96.875% (97.881%)	Data 0.002 (0.000) Loss
Epoch: [104] [200/391] Time 0.054 (0.057)	Data 0.002 (0.004) Loss
0.0953 (0.0647) Prec 96.875% (97.812%)	Data 0.002 (0.004) Loss
Epoch: [104] [300/391] Time 0.057 (0.056)	Data 0.002 (0.003) Loss
0.0327 (0.0667) Prec 100.000% (97.721%)	Data 0.002 (0.003) Loss
Validation starts	
Test: [0/79] Time 0.379 (0.379) Loss	0.2451 (0.2451) Prec 90.625%
(90.625%)	0.2431 (0.2431) Fied 90.023%
(90.023%)	
* Proc 80 500%	
* Prec 89.520%	
best acc: 90.480000	Data 0 384 (0 384) Loss
best acc: 90.480000 Epoch: [105][0/391] Time 0.441 (0.441)	Data 0.384 (0.384) Loss
best acc: 90.480000 Epoch: [105][0/391] Time 0.441 (0.441) 0.0404 (0.0404) Prec 99.219% (99.219%)	
best acc: 90.480000 Epoch: [105][0/391] Time 0.441 (0.441) 0.0404 (0.0404) Prec 99.219% (99.219%) Epoch: [105][100/391] Time 0.055 (0.059)	Data 0.384 (0.384) Loss Data 0.002 (0.006) Loss
best acc: 90.480000 Epoch: [105] [0/391] Time 0.441 (0.441) 0.0404 (0.0404) Prec 99.219% (99.219%) Epoch: [105] [100/391] Time 0.055 (0.059) 0.0401 (0.0552) Prec 99.219% (98.159%)	Data 0.002 (0.006) Loss
best acc: 90.480000 Epoch: [105][0/391] Time 0.441 (0.441) 0.0404 (0.0404) Prec 99.219% (99.219%) Epoch: [105][100/391] Time 0.055 (0.059) 0.0401 (0.0552) Prec 99.219% (98.159%) Epoch: [105][200/391] Time 0.058 (0.057)	Data 0.002 (0.006) Loss
best acc: 90.480000 Epoch: [105] [0/391] Time 0.441 (0.441) 0.0404 (0.0404) Prec 99.219% (99.219%) Epoch: [105] [100/391] Time 0.055 (0.059) 0.0401 (0.0552) Prec 99.219% (98.159%) Epoch: [105] [200/391] Time 0.058 (0.057) 0.0375 (0.0578) Prec 98.438% (97.979%)	Data 0.002 (0.006) Loss Data 0.002 (0.005) Loss
best acc: 90.480000 Epoch: [105][0/391] Time 0.441 (0.441) 0.0404 (0.0404) Prec 99.219% (99.219%) Epoch: [105][100/391] Time 0.055 (0.059) 0.0401 (0.0552) Prec 99.219% (98.159%) Epoch: [105][200/391] Time 0.058 (0.057) 0.0375 (0.0578) Prec 98.438% (97.979%) Epoch: [105][300/391] Time 0.054 (0.057)	Data 0.002 (0.006) Loss Data 0.002 (0.005) Loss
best acc: 90.480000 Epoch: [105][0/391] Time 0.441 (0.441) 0.0404 (0.0404) Prec 99.219% (99.219%) Epoch: [105][100/391] Time 0.055 (0.059) 0.0401 (0.0552) Prec 99.219% (98.159%) Epoch: [105][200/391] Time 0.058 (0.057) 0.0375 (0.0578) Prec 98.438% (97.979%) Epoch: [105][300/391] Time 0.054 (0.057) 0.0542 (0.0613) Prec 97.656% (97.864%)	Data 0.002 (0.006) Loss Data 0.002 (0.005) Loss
best acc: 90.480000 Epoch: [105][0/391] Time 0.441 (0.441) 0.0404 (0.0404) Prec 99.219% (99.219%) Epoch: [105][100/391] Time 0.055 (0.059) 0.0401 (0.0552) Prec 99.219% (98.159%) Epoch: [105][200/391] Time 0.058 (0.057) 0.0375 (0.0578) Prec 98.438% (97.979%) Epoch: [105][300/391] Time 0.054 (0.057) 0.0542 (0.0613) Prec 97.656% (97.864%) Validation starts	Data 0.002 (0.006) Loss Data 0.002 (0.005) Loss Data 0.002 (0.005) Loss
best acc: 90.480000 Epoch: [105][0/391] Time 0.441 (0.441) 0.0404 (0.0404) Prec 99.219% (99.219%) Epoch: [105][100/391] Time 0.055 (0.059) 0.0401 (0.0552) Prec 99.219% (98.159%) Epoch: [105][200/391] Time 0.058 (0.057) 0.0375 (0.0578) Prec 98.438% (97.979%) Epoch: [105][300/391] Time 0.054 (0.057) 0.0542 (0.0613) Prec 97.656% (97.864%) Validation starts Test: [0/79] Time 0.402 (0.402) Loss	Data 0.002 (0.006) Loss Data 0.002 (0.005) Loss Data 0.002 (0.005) Loss
best acc: 90.480000 Epoch: [105][0/391] Time 0.441 (0.441) 0.0404 (0.0404) Prec 99.219% (99.219%) Epoch: [105][100/391] Time 0.055 (0.059) 0.0401 (0.0552) Prec 99.219% (98.159%) Epoch: [105][200/391] Time 0.058 (0.057) 0.0375 (0.0578) Prec 98.438% (97.979%) Epoch: [105][300/391] Time 0.054 (0.057) 0.0542 (0.0613) Prec 97.656% (97.864%) Validation starts Test: [0/79] Time 0.402 (0.402) Loss (89.062%)	Data 0.002 (0.006) Loss Data 0.002 (0.005) Loss Data 0.002 (0.005) Loss
best acc: 90.480000 Epoch: [105][0/391] Time 0.441 (0.441) 0.0404 (0.0404) Prec 99.219% (99.219%) Epoch: [105][100/391] Time 0.055 (0.059) 0.0401 (0.0552) Prec 99.219% (98.159%) Epoch: [105][200/391] Time 0.058 (0.057) 0.0375 (0.0578) Prec 98.438% (97.979%) Epoch: [105][300/391] Time 0.054 (0.057) 0.0542 (0.0613) Prec 97.656% (97.864%) Validation starts Test: [0/79] Time 0.402 (0.402) Loss (89.062%) * Prec 88.310%	Data 0.002 (0.006) Loss Data 0.002 (0.005) Loss Data 0.002 (0.005) Loss
best acc: 90.480000 Epoch: [105][0/391] Time 0.441 (0.441) 0.0404 (0.0404) Prec 99.219% (99.219%) Epoch: [105][100/391] Time 0.055 (0.059) 0.0401 (0.0552) Prec 99.219% (98.159%) Epoch: [105][200/391] Time 0.058 (0.057) 0.0375 (0.0578) Prec 98.438% (97.979%) Epoch: [105][300/391] Time 0.054 (0.057) 0.0542 (0.0613) Prec 97.656% (97.864%) Validation starts Test: [0/79] Time 0.402 (0.402) Loss (89.062%) * Prec 88.310% best acc: 90.480000	Data 0.002 (0.006) Loss Data 0.002 (0.005) Loss Data 0.002 (0.005) Loss 0.3316 (0.3316) Prec 89.062%
best acc: 90.480000 Epoch: [105][0/391] Time 0.441 (0.441) 0.0404 (0.0404) Prec 99.219% (99.219%) Epoch: [105][100/391] Time 0.055 (0.059) 0.0401 (0.0552) Prec 99.219% (98.159%) Epoch: [105][200/391] Time 0.058 (0.057) 0.0375 (0.0578) Prec 98.438% (97.979%) Epoch: [105][300/391] Time 0.054 (0.057) 0.0542 (0.0613) Prec 97.656% (97.864%) Validation starts Test: [0/79] Time 0.402 (0.402) Loss (89.062%) * Prec 88.310% best acc: 90.480000 Epoch: [106][0/391] Time 0.408 (0.408)	Data 0.002 (0.006) Loss Data 0.002 (0.005) Loss Data 0.002 (0.005) Loss
best acc: 90.480000 Epoch: [105][0/391] Time 0.441 (0.441) 0.0404 (0.0404) Prec 99.219% (99.219%) Epoch: [105][100/391] Time 0.055 (0.059) 0.0401 (0.0552) Prec 99.219% (98.159%) Epoch: [105][200/391] Time 0.058 (0.057) 0.0375 (0.0578) Prec 98.438% (97.979%) Epoch: [105][300/391] Time 0.054 (0.057) 0.0542 (0.0613) Prec 97.656% (97.864%) Validation starts Test: [0/79] Time 0.402 (0.402) Loss (89.062%) * Prec 88.310% best acc: 90.480000 Epoch: [106][0/391] Time 0.408 (0.408) 0.0504 (0.0504) Prec 98.438% (98.438%)	Data 0.002 (0.006) Loss Data 0.002 (0.005) Loss Data 0.002 (0.005) Loss 0.3316 (0.3316) Prec 89.062% Data 0.357 (0.357) Loss
best acc: 90.480000 Epoch: [105][0/391] Time 0.441 (0.441) 0.0404 (0.0404) Prec 99.219% (99.219%) Epoch: [105][100/391] Time 0.055 (0.059) 0.0401 (0.0552) Prec 99.219% (98.159%) Epoch: [105][200/391] Time 0.058 (0.057) 0.0375 (0.0578) Prec 98.438% (97.979%) Epoch: [105][300/391] Time 0.054 (0.057) 0.0542 (0.0613) Prec 97.656% (97.864%) Validation starts Test: [0/79] Time 0.402 (0.402) Loss (89.062%) * Prec 88.310% best acc: 90.480000 Epoch: [106][0/391] Time 0.408 (0.408) 0.0504 (0.0504) Prec 98.438% (98.438%) Epoch: [106][100/391] Time 0.057 (0.059)	Data 0.002 (0.006) Loss Data 0.002 (0.005) Loss Data 0.002 (0.005) Loss 0.3316 (0.3316) Prec 89.062% Data 0.357 (0.357) Loss
best acc: 90.480000 Epoch: [105][0/391] Time 0.441 (0.441) 0.0404 (0.0404) Prec 99.219% (99.219%) Epoch: [105][100/391] Time 0.055 (0.059) 0.0401 (0.0552) Prec 99.219% (98.159%) Epoch: [105][200/391] Time 0.058 (0.057) 0.0375 (0.0578) Prec 98.438% (97.979%) Epoch: [105][300/391] Time 0.054 (0.057) 0.0542 (0.0613) Prec 97.656% (97.864%) Validation starts Test: [0/79] Time 0.402 (0.402) Loss (89.062%) * Prec 88.310% best acc: 90.480000 Epoch: [106][0/391] Time 0.408 (0.408) 0.0504 (0.0504) Prec 98.438% (98.438%) Epoch: [106][100/391] Time 0.057 (0.059) 0.0497 (0.0622) Prec 98.438% (98.020%)	Data 0.002 (0.006) Loss Data 0.002 (0.005) Loss Data 0.002 (0.005) Loss 0.3316 (0.3316) Prec 89.062% Data 0.357 (0.357) Loss Data 0.009 (0.007) Loss
best acc: 90.480000 Epoch: [105][0/391] Time 0.441 (0.441) 0.0404 (0.0404) Prec 99.219% (99.219%) Epoch: [105][100/391] Time 0.055 (0.059) 0.0401 (0.0552) Prec 99.219% (98.159%) Epoch: [105][200/391] Time 0.058 (0.057) 0.0375 (0.0578) Prec 98.438% (97.979%) Epoch: [105][300/391] Time 0.054 (0.057) 0.0542 (0.0613) Prec 97.656% (97.864%) Validation starts Test: [0/79] Time 0.402 (0.402) Loss (89.062%) * Prec 88.310% best acc: 90.480000 Epoch: [106][0/391] Time 0.408 (0.408) 0.0504 (0.0504) Prec 98.438% (98.438%) Epoch: [106][100/391] Time 0.057 (0.059)	Data 0.002 (0.006) Loss Data 0.002 (0.005) Loss Data 0.002 (0.005) Loss 0.3316 (0.3316) Prec 89.062% Data 0.357 (0.357) Loss Data 0.009 (0.007) Loss

Epoch: [106][300/391] Time 0.050 (0.057) 0.0616 (0.0629) Prec 98.438% (97.890%) Validation starts	Data 0.002 (0.004) Loss
Test: [0/79] Time 0.342 (0.342) Loss (93.750%)	0.1805 (0.1805) Prec 93.750%
* Prec 89.100%	
best acc: 90.480000	
Epoch: [107][0/391] Time 0.377 (0.377)	Data 0.338 (0.338) Loss
0.0172 (0.0172) Prec 99.219% (99.219%)	
Epoch: [107][100/391] Time 0.055 (0.058)	Data 0.002 (0.005) Loss
0.0230 (0.0560) Prec 99.219% (98.097%)	
Epoch: [107][200/391] Time 0.054 (0.056)	Data 0.002 (0.003) Loss
0.2108 (0.0656) Prec 94.531% (97.777%)	
Epoch: [107][300/391] Time 0.055 (0.056)	Data 0.002 (0.003) Loss
0.0778 (0.0650) Prec 98.438% (97.742%)	
Validation starts	
Test: [0/79] Time 0.374 (0.374) Loss	0.3397 (0.3397) Prec 91.406%
(91.406%)	1200 021 200%
* Prec 89.560%	
best acc: 90.480000	
Epoch: [108][0/391] Time 0.368 (0.368)	Data 0.327 (0.327) Loss
0.0475 (0.0475) Prec 98.438% (98.438%)	Data 0.321 (0.321) LOSS
	Data 0.002 (0.005) Loss
Epoch: [108] [100/391] Time 0.054 (0.058)	Data 0.002 (0.005) Loss
0.0982 (0.0561) Prec 96.875% (98.066%)	D + 0 000 (0 000)
Epoch: [108] [200/391] Time 0.056 (0.056)	Data 0.002 (0.003) Loss
0.0141 (0.0620) Prec 100.000% (97.886%)	
Epoch: [108] [300/391] Time 0.054 (0.056)	Data 0.002 (0.003) Loss
0.0798 (0.0635) Prec 96.875% (97.825%)	
Validation starts	
Test: [0/79] Time 0.320 (0.320) Loss	0.1692 (0.1692) Prec 95.312%
(95.312%)	
* Prec 90.130%	
best acc: 90.480000	
Epoch: [109][0/391] Time 0.442 (0.442)	Data 0.388 (0.388) Loss
0.0390 (0.0390) Prec 98.438% (98.438%)	
Epoch: [109][100/391] Time 0.055 (0.059)	Data 0.001 (0.006) Loss
0.0146 (0.0624) Prec 100.000% (97.881%)	
Epoch: [109][200/391] Time 0.042 (0.057)	Data 0.002 (0.005) Loss
0.0393 (0.0601) Prec 99.219% (97.917%)	
Epoch: [109][300/391] Time 0.058 (0.056)	Data 0.002 (0.004) Loss
0.0866 (0.0651) Prec 96.875% (97.786%)	
Validation starts	
Test: [0/79] Time 0.388 (0.388) Loss	0.2630 (0.2630) Prec 92.188%
(92.188%)	0.2000 (0.2000) 1100 02.100%
* Prec 90.410%	
best acc: 90.480000	
Epoch: [110][0/391] Time 0.408 (0.408)	Data 0.369 (0.369) Loss
0.1145 (0.1145) Prec 96.875% (96.875%)	Data 0.003 (0.003) LOSS
0.1140 (0.1140) LIGG A0.010% (A0.012%)	

Epoch: [110][100/391] Time 0.054 (0.05		(0.006) Loss
0.0969 (0.0614) Prec 96.875% (97.881% Epoch: [110][200/391] Time 0.056 (0.080) Proc 97.656% (97.750%)	7) Data 0.002	(0.004) Loss
0.0792 (0.0639) Prec 97.656% (97.750% Epoch: [110] [300/391] Time 0.050 (0.08 0.0756 (0.0635) Prec 97.656% (97.752% Validation starts	Data 0.002	(0.004) Loss
Test: [0/79] Time 0.371 (0.371) (89.844%)	oss 0.3501 (0.3501	Prec 89.844%
* Prec 88.460%		
best acc: 90.480000		
Epoch: [111] [0/391] Time 0.412 (0.43	2) Data 0.350	(0.350) Loss
0.0614 (0.0614) Prec 97.656% (97.656%)		
Epoch: [111][100/391] Time 0.055 (0.08	Data 0.002	(0.006) Loss
0.0546 (0.0569) Prec 98.438% (98.082%	l	
Epoch: [111][200/391] Time 0.054 (0.05		(0.005) Loss
0.0455 (0.0585) Prec 98.438% (97.975%		
Epoch: [111][300/391] Time 0.051 (0.05		(0.004) Loss
0.0502 (0.0637) Prec 97.656% (97.812%	1	
Validation starts		
Test: [0/79] Time 0.344 (0.344)	oss 0.2532 (0.2532	Prec 92.969%
(92.969%)		
* Prec 89.800%		
best acc: 90.480000		()
Epoch: [112] [0/391] Time 0.517 (0.53		(0.446) Loss
0.0404 (0.0404) Prec 99.219% (99.219%		
Epoch: [112] [100/391] Time 0.057 (0.06		(0.007) Loss
0.0658 (0.0548) Prec 97.656% (98.167%		
Epoch: [112][200/391] Time 0.061 (0.05		(0.005) Loss
0.0424 (0.0574) Prec 98.438% (98.095%		(
Epoch: [112] [300/391] Time 0.049 (0.08		(0.005) Loss
0.0578 (0.0609) Prec 97.656% (97.968%	l	
Validation starts	•	
Test: [0/79] Time 0.389 (0.389)	oss 0.3311 (0.3311	.) Prec 89.844%
(89.844%)		
* Prec 88.560%		
best acc: 90.480000	n	(0.405)
Epoch: [113] [0/391] Time 0.503 (0.50		(0.435) Loss
0.0398 (0.0398) Prec 99.219% (99.219%		(0.000)
Epoch: [113] [100/391] Time 0.055 (0.06		(0.008) Loss
0.0728 (0.0622) Prec 97.656% (97.850%		(
Epoch: [113] [200/391] Time 0.042 (0.08		(0.005) Loss
0.0321 (0.0607) Prec 98.438% (97.889%		(0.004)
Epoch: [113] [300/391] Time 0.054 (0.05		(0.004) Loss
0.0156 (0.0614) Prec 100.000% (97.898	(a)	
Validation starts	0 2404 (0 2404	Dr 00 04/0/
Test: [0/79] Time 0.355 (0.355)	.088 U.3484 (U.3484	rrec 89.844%
(89.844%)		

* Prec 89.160%		
best acc: 90.480000		
Epoch: [114][0/391] Time 0.484 (0.484)	Data 0.422 (0.422) Loss	\$
0.0413 (0.0413) Prec 98.438% (98.438%)		
Epoch: [114] [100/391] Time 0.063 (0.061)	Data 0.015 (0.008) Loss	\$
0.0608 (0.0585) Prec 98.438% (98.012%)		
Epoch: [114] [200/391] Time 0.054 (0.058)	Data 0.002 (0.005) Loss	•
0.0569 (0.0608) Prec 97.656% (97.952%)		
Epoch: [114] [300/391] Time 0.054 (0.057)	Data 0.003 (0.004) Loss	,
0.0166 (0.0611) Prec 100.000% (97.916%)		
Validation starts		,
Test: [0/79] Time 0.360 (0.360) Los	s 0.2948 (0.2948) Prec 91.406%	•
(91.406%)		
* Prec 88.200%		
best acc: 90.480000	D	
Epoch: [115] [0/391] Time 0.408 (0.408)	Data 0.358 (0.358) Loss	,
0.0721 (0.0721) Prec 97.656% (97.656%)	D	
Epoch: [115] [100/391] Time 0.048 (0.058)	Data 0.002 (0.007) Loss	,
0.0908 (0.0631) Prec 96.875% (97.718%)	D	
Epoch: [115] [200/391] Time 0.055 (0.057)	Data 0.002 (0.005) Loss	,
0.0227 (0.0667) Prec 99.219% (97.668%)	D	
Epoch: [115] [300/391] Time 0.059 (0.056)	Data 0.002 (0.005) Loss	,
0.0419 (0.0656) Prec 98.438% (97.794%)		
Validation starts		
	0 1000 (0 1000) B 01 F01W	
Test: [0/79] Time 0.345 (0.345) Los	s 0.1382 (0.1382) Prec 94.531%	,
(94.531%)	s 0.1382 (0.1382) Prec 94.531%	,
(94.531%) * Prec 90.110%	s 0.1382 (0.1382) Prec 94.531%	0
(94.531%) * Prec 90.110% best acc: 90.480000		
(94.531%) * Prec 90.110% best acc: 90.480000 Epoch: [116] [0/391] Time 0.422 (0.422)		
(94.531%) * Prec 90.110% best acc: 90.480000 Epoch: [116] [0/391] Time 0.422 (0.422) 0.0394 (0.0394) Prec 99.219% (99.219%)	Data 0.381 (0.381) Loss	5
(94.531%) * Prec 90.110% best acc: 90.480000 Epoch: [116] [0/391] Time 0.422 (0.422) 0.0394 (0.0394) Prec 99.219% (99.219%) Epoch: [116] [100/391] Time 0.055 (0.059)		5
(94.531%) * Prec 90.110% best acc: 90.480000 Epoch: [116] [0/391] Time 0.422 (0.422) 0.0394 (0.0394) Prec 99.219% (99.219%) Epoch: [116] [100/391] Time 0.055 (0.059) 0.0667 (0.0542) Prec 96.094% (98.159%)	Data 0.381 (0.381) Loss Data 0.002 (0.007) Loss	3
(94.531%) * Prec 90.110% best acc: 90.480000 Epoch: [116] [0/391] Time 0.422 (0.422) 0.0394 (0.0394) Prec 99.219% (99.219%) Epoch: [116] [100/391] Time 0.055 (0.059) 0.0667 (0.0542) Prec 96.094% (98.159%) Epoch: [116] [200/391] Time 0.054 (0.057)	Data 0.381 (0.381) Loss Data 0.002 (0.007) Loss	3
(94.531%) * Prec 90.110% best acc: 90.480000 Epoch: [116] [0/391] Time 0.422 (0.422) 0.0394 (0.0394) Prec 99.219% (99.219%) Epoch: [116] [100/391] Time 0.055 (0.059) 0.0667 (0.0542) Prec 96.094% (98.159%) Epoch: [116] [200/391] Time 0.054 (0.057) 0.0781 (0.0572) Prec 96.875% (98.033%)	Data 0.381 (0.381) Loss Data 0.002 (0.007) Loss Data 0.009 (0.005) Loss	5
(94.531%) * Prec 90.110% best acc: 90.480000 Epoch: [116] [0/391] Time 0.422 (0.422) 0.0394 (0.0394) Prec 99.219% (99.219%) Epoch: [116] [100/391] Time 0.055 (0.059) 0.0667 (0.0542) Prec 96.094% (98.159%) Epoch: [116] [200/391] Time 0.054 (0.057) 0.0781 (0.0572) Prec 96.875% (98.033%) Epoch: [116] [300/391] Time 0.054 (0.057)	Data 0.381 (0.381) Loss Data 0.002 (0.007) Loss Data 0.009 (0.005) Loss	5
(94.531%) * Prec 90.110% best acc: 90.480000 Epoch: [116] [0/391] Time 0.422 (0.422) 0.0394 (0.0394) Prec 99.219% (99.219%) Epoch: [116] [100/391] Time 0.055 (0.059) 0.0667 (0.0542) Prec 96.094% (98.159%) Epoch: [116] [200/391] Time 0.054 (0.057) 0.0781 (0.0572) Prec 96.875% (98.033%) Epoch: [116] [300/391] Time 0.054 (0.057) 0.0829 (0.0604) Prec 97.656% (97.921%)	Data 0.381 (0.381) Loss Data 0.002 (0.007) Loss Data 0.009 (0.005) Loss	5
(94.531%) * Prec 90.110% best acc: 90.480000 Epoch: [116] [0/391] Time 0.422 (0.422) 0.0394 (0.0394) Prec 99.219% (99.219%) Epoch: [116] [100/391] Time 0.055 (0.059) 0.0667 (0.0542) Prec 96.094% (98.159%) Epoch: [116] [200/391] Time 0.054 (0.057) 0.0781 (0.0572) Prec 96.875% (98.033%) Epoch: [116] [300/391] Time 0.054 (0.057) 0.0829 (0.0604) Prec 97.656% (97.921%) Validation starts	Data 0.381 (0.381) Loss Data 0.002 (0.007) Loss Data 0.009 (0.005) Loss Data 0.011 (0.005) Loss	
(94.531%) * Prec 90.110% best acc: 90.480000 Epoch: [116] [0/391] Time 0.422 (0.422) 0.0394 (0.0394) Prec 99.219% (99.219%) Epoch: [116] [100/391] Time 0.055 (0.059) 0.0667 (0.0542) Prec 96.094% (98.159%) Epoch: [116] [200/391] Time 0.054 (0.057) 0.0781 (0.0572) Prec 96.875% (98.033%) Epoch: [116] [300/391] Time 0.054 (0.057) 0.0829 (0.0604) Prec 97.656% (97.921%) Validation starts Test: [0/79] Time 0.347 (0.347) Los	Data 0.381 (0.381) Loss Data 0.002 (0.007) Loss Data 0.009 (0.005) Loss Data 0.011 (0.005) Loss	
(94.531%) * Prec 90.110% best acc: 90.480000 Epoch: [116] [0/391] Time 0.422 (0.422) 0.0394 (0.0394) Prec 99.219% (99.219%) Epoch: [116] [100/391] Time 0.055 (0.059) 0.0667 (0.0542) Prec 96.094% (98.159%) Epoch: [116] [200/391] Time 0.054 (0.057) 0.0781 (0.0572) Prec 96.875% (98.033%) Epoch: [116] [300/391] Time 0.054 (0.057) 0.0829 (0.0604) Prec 97.656% (97.921%) Validation starts Test: [0/79] Time 0.347 (0.347) Los (92.188%)	Data 0.381 (0.381) Loss Data 0.002 (0.007) Loss Data 0.009 (0.005) Loss Data 0.011 (0.005) Loss	
(94.531%) * Prec 90.110% best acc: 90.480000 Epoch: [116] [0/391] Time 0.422 (0.422) 0.0394 (0.0394) Prec 99.219% (99.219%) Epoch: [116] [100/391] Time 0.055 (0.059) 0.0667 (0.0542) Prec 96.094% (98.159%) Epoch: [116] [200/391] Time 0.054 (0.057) 0.0781 (0.0572) Prec 96.875% (98.033%) Epoch: [116] [300/391] Time 0.054 (0.057) 0.0829 (0.0604) Prec 97.656% (97.921%) Validation starts Test: [0/79] Time 0.347 (0.347) Los (92.188%) * Prec 89.420%	Data 0.381 (0.381) Loss Data 0.002 (0.007) Loss Data 0.009 (0.005) Loss Data 0.011 (0.005) Loss	
(94.531%) * Prec 90.110% best acc: 90.480000 Epoch: [116] [0/391] Time 0.422 (0.422) 0.0394 (0.0394) Prec 99.219% (99.219%) Epoch: [116] [100/391] Time 0.055 (0.059) 0.0667 (0.0542) Prec 96.094% (98.159%) Epoch: [116] [200/391] Time 0.054 (0.057) 0.0781 (0.0572) Prec 96.875% (98.033%) Epoch: [116] [300/391] Time 0.054 (0.057) 0.0829 (0.0604) Prec 97.656% (97.921%) Validation starts Test: [0/79] Time 0.347 (0.347) Los (92.188%) * Prec 89.420% best acc: 90.480000	Data 0.381 (0.381) Loss Data 0.002 (0.007) Loss Data 0.009 (0.005) Loss Data 0.011 (0.005) Loss s 0.2516 (0.2516) Prec 92.188%	
(94.531%) * Prec 90.110% best acc: 90.480000 Epoch: [116] [0/391] Time 0.422 (0.422) 0.0394 (0.0394) Prec 99.219% (99.219%) Epoch: [116] [100/391] Time 0.055 (0.059) 0.0667 (0.0542) Prec 96.094% (98.159%) Epoch: [116] [200/391] Time 0.054 (0.057) 0.0781 (0.0572) Prec 96.875% (98.033%) Epoch: [116] [300/391] Time 0.054 (0.057) 0.0829 (0.0604) Prec 97.656% (97.921%) Validation starts Test: [0/79] Time 0.347 (0.347) Los (92.188%) * Prec 89.420% best acc: 90.480000 Epoch: [117] [0/391] Time 0.329 (0.329)	Data 0.381 (0.381) Loss Data 0.002 (0.007) Loss Data 0.009 (0.005) Loss Data 0.011 (0.005) Loss	
(94.531%) * Prec 90.110% best acc: 90.480000 Epoch: [116] [0/391] Time 0.422 (0.422) 0.0394 (0.0394) Prec 99.219% (99.219%) Epoch: [116] [100/391] Time 0.055 (0.059) 0.0667 (0.0542) Prec 96.094% (98.159%) Epoch: [116] [200/391] Time 0.054 (0.057) 0.0781 (0.0572) Prec 96.875% (98.033%) Epoch: [116] [300/391] Time 0.054 (0.057) 0.0829 (0.0604) Prec 97.656% (97.921%) Validation starts Test: [0/79] Time 0.347 (0.347) Los (92.188%) * Prec 89.420% best acc: 90.480000 Epoch: [117] [0/391] Time 0.329 (0.329) 0.0496 (0.0496) Prec 97.656% (97.656%)	Data 0.381 (0.381) Loss Data 0.002 (0.007) Loss Data 0.009 (0.005) Loss Data 0.011 (0.005) Loss s 0.2516 (0.2516) Prec 92.188% Data 0.290 (0.290) Loss	
(94.531%) * Prec 90.110% best acc: 90.480000 Epoch: [116] [0/391] Time 0.422 (0.422) 0.0394 (0.0394) Prec 99.219% (99.219%) Epoch: [116] [100/391] Time 0.055 (0.059) 0.0667 (0.0542) Prec 96.094% (98.159%) Epoch: [116] [200/391] Time 0.054 (0.057) 0.0781 (0.0572) Prec 96.875% (98.033%) Epoch: [116] [300/391] Time 0.054 (0.057) 0.0829 (0.0604) Prec 97.656% (97.921%) Validation starts Test: [0/79] Time 0.347 (0.347) Los (92.188%) * Prec 89.420% best acc: 90.480000 Epoch: [117] [0/391] Time 0.329 (0.329) 0.0496 (0.0496) Prec 97.656% (97.656%) Epoch: [117] [100/391] Time 0.055 (0.058)	Data 0.381 (0.381) Loss Data 0.002 (0.007) Loss Data 0.009 (0.005) Loss Data 0.011 (0.005) Loss s 0.2516 (0.2516) Prec 92.188% Data 0.290 (0.290) Loss	
(94.531%) * Prec 90.110% best acc: 90.480000 Epoch: [116] [0/391] Time 0.422 (0.422) 0.0394 (0.0394) Prec 99.219% (99.219%) Epoch: [116] [100/391] Time 0.055 (0.059) 0.0667 (0.0542) Prec 96.094% (98.159%) Epoch: [116] [200/391] Time 0.054 (0.057) 0.0781 (0.0572) Prec 96.875% (98.033%) Epoch: [116] [300/391] Time 0.054 (0.057) 0.0829 (0.0604) Prec 97.656% (97.921%) Validation starts Test: [0/79] Time 0.347 (0.347) Los (92.188%) * Prec 89.420% best acc: 90.480000 Epoch: [117] [0/391] Time 0.329 (0.329) 0.0496 (0.0496) Prec 97.656% (97.656%) Epoch: [117] [100/391] Time 0.055 (0.058) 0.0288 (0.0550) Prec 100.000% (98.120%)	Data 0.381 (0.381) Loss Data 0.002 (0.007) Loss Data 0.009 (0.005) Loss Data 0.011 (0.005) Loss s 0.2516 (0.2516) Prec 92.188% Data 0.290 (0.290) Loss Data 0.002 (0.006) Loss	
(94.531%) * Prec 90.110% best acc: 90.480000 Epoch: [116] [0/391] Time 0.422 (0.422) 0.0394 (0.0394) Prec 99.219% (99.219%) Epoch: [116] [100/391] Time 0.055 (0.059) 0.0667 (0.0542) Prec 96.094% (98.159%) Epoch: [116] [200/391] Time 0.054 (0.057) 0.0781 (0.0572) Prec 96.875% (98.033%) Epoch: [116] [300/391] Time 0.054 (0.057) 0.0829 (0.0604) Prec 97.656% (97.921%) Validation starts Test: [0/79] Time 0.347 (0.347) Los (92.188%) * Prec 89.420% best acc: 90.480000 Epoch: [117] [0/391] Time 0.329 (0.329) 0.0496 (0.0496) Prec 97.656% (97.656%) Epoch: [117] [100/391] Time 0.055 (0.058) 0.0288 (0.0550) Prec 100.000% (98.120%) Epoch: [117] [200/391] Time 0.050 (0.057)	Data 0.381 (0.381) Loss Data 0.002 (0.007) Loss Data 0.009 (0.005) Loss Data 0.011 (0.005) Loss s 0.2516 (0.2516) Prec 92.188% Data 0.290 (0.290) Loss	
(94.531%) * Prec 90.110% best acc: 90.480000 Epoch: [116] [0/391] Time 0.422 (0.422) 0.0394 (0.0394) Prec 99.219% (99.219%) Epoch: [116] [100/391] Time 0.055 (0.059) 0.0667 (0.0542) Prec 96.094% (98.159%) Epoch: [116] [200/391] Time 0.054 (0.057) 0.0781 (0.0572) Prec 96.875% (98.033%) Epoch: [116] [300/391] Time 0.054 (0.057) 0.0829 (0.0604) Prec 97.656% (97.921%) Validation starts Test: [0/79] Time 0.347 (0.347) Los (92.188%) * Prec 89.420% best acc: 90.480000 Epoch: [117] [0/391] Time 0.329 (0.329) 0.0496 (0.0496) Prec 97.656% (97.656%) Epoch: [117] [100/391] Time 0.055 (0.058) 0.0288 (0.0550) Prec 100.000% (98.120%)	Data 0.381 (0.381) Loss Data 0.002 (0.007) Loss Data 0.009 (0.005) Loss Data 0.011 (0.005) Loss s 0.2516 (0.2516) Prec 92.188% Data 0.290 (0.290) Loss Data 0.002 (0.006) Loss Data 0.002 (0.005) Loss	333333333333333333333333333333333333333

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0.1539 (0.0631)
                   Prec 95.312% (97.838%)
Validation starts
Test: [0/79]
                Time 0.340 (0.340)
                                         Loss 0.4155 (0.4155)
                                                                  Prec 89.844%
(89.844\%)
 * Prec 89.270%
best acc: 90.480000
Epoch: [118] [0/391]
                        Time 0.452 (0.452)
                                                 Data 0.409 (0.409)
                                                                          Loss
0.0419 (0.0419)
                   Prec 97.656% (97.656%)
Epoch: [118] [100/391]
                        Time 0.054 (0.060)
                                                 Data 0.002 (0.008)
                                                                          Loss
0.1479 (0.0592)
                   Prec 96.875% (98.058%)
Epoch: [118] [200/391]
                                                 Data 0.002 (0.005)
                        Time 0.053 (0.057)
                                                                          Loss
0.0318 (0.0622)
                   Prec 99.219% (97.886%)
Epoch: [118] [300/391]
                        Time 0.048 (0.057)
                                                 Data 0.002 (0.004)
                                                                          Loss
0.0464 (0.0642)
                   Prec 99.219% (97.820%)
Validation starts
Test: [0/79]
                Time 0.331 (0.331)
                                         Loss 0.1538 (0.1538)
                                                                  Prec 96.875%
(96.875\%)
 * Prec 88.910%
best acc: 90.480000
                                                 Data 0.381 (0.381)
Epoch: [119] [0/391]
                        Time 0.420 (0.420)
                                                                          Loss
                   Prec 96.094% (96.094%)
0.1137 (0.1137)
Epoch: [119] [100/391]
                                                 Data 0.001 (0.008)
                        Time 0.068 (0.060)
                                                                          Loss
0.0102 (0.0658)
                   Prec 100.000% (97.826%)
Epoch: [119] [200/391]
                        Time 0.062 (0.058)
                                                 Data 0.002 (0.005)
                                                                          Loss
0.0738 (0.0631)
                   Prec 97.656% (97.866%)
                                                 Data 0.015 (0.004)
Epoch: [119] [300/391]
                        Time 0.050 (0.057)
                                                                          Loss
0.0115 (0.0654)
                   Prec 100.000% (97.809%)
Validation starts
Test: [0/79]
                Time 0.347 (0.347)
                                         Loss 0.3180 (0.3180)
                                                                  Prec 92.969%
(92.969\%)
 * Prec 90.260%
best acc: 90.480000
Epoch: [120] [0/391]
                        Time 0.379 (0.379)
                                                 Data 0.336 (0.336)
                                                                          Loss
0.0204 (0.0204)
                   Prec 98.438% (98.438%)
Epoch: [120] [100/391]
                        Time 0.056 (0.058)
                                                 Data 0.002 (0.006)
                                                                          Loss
0.0572 (0.0465)
                   Prec 96.875% (98.430%)
Epoch: [120] [200/391]
                        Time 0.056 (0.057)
                                                 Data 0.002 (0.004)
                                                                          Loss
0.1041 (0.0566)
                   Prec 96.875% (98.150%)
Epoch: [120] [300/391]
                        Time 0.068 (0.056)
                                                 Data 0.028 (0.004)
                                                                          Loss
0.0342 (0.0607)
                   Prec 99.219% (97.939%)
Validation starts
Test: [0/79]
                Time 0.342 (0.342)
                                         Loss 0.2776 (0.2776)
                                                                  Prec 92.188%
(92.188\%)
* Prec 89.170%
best acc: 90.480000
Epoch: [121] [0/391]
                        Time 0.401 (0.401)
                                                 Data 0.358 (0.358)
                                                                          Loss
0.0651 (0.0651)
                   Prec 99.219% (99.219%)
Epoch: [121] [100/391]
                        Time 0.057 (0.059)
                                                 Data 0.005 (0.007)
                                                                          Loss
```

0.0214 (0.0000)	00 010% (00 004%)					
0.0314 (0.0602) Prec Epoch: [121][200/391]			Do+o	0 007	(0.005)	Loss
0.0249 (0.0571) Prec			раца	0.007	(0.005)	LUSS
Epoch: [121] [300/391]			Da+a	0 002	(0.005)	Loss
0.0289 (0.0587) Prec			Data	0.002	(0.005)	LUSS
Validation starts	30.430% (31.310%)	,				
Test: [0/79] Time 0.3	360 (0 360) I	000	∩ 1807	(n 1807	7) Proc	03 75N%
(93.750%)	302 (0.302)	2022	0.1037	(0.1037	, 1160	33.130%
* Prec 89.080%						
best acc: 90.480000						
Epoch: [122] [0/391]	Time 0 506 (0 506	3)	Data	0 467	(0.467)	Loss
0.0766 (0.0766) Prec			Dava	0.101	(0.407)	ДОВВ
Epoch: [122][100/391]			Data	0 002	(0.007)	Loss
0.0294 (0.0668) Prec			Dava	0.002	(0.001)	Добб
Epoch: [122][200/391]			Data	0 002	(0.005)	Loss
0.0967 (0.0668) Prec			Dava	0.002	(0.000)	ДОВВ
Epoch: [122][300/391]			Data	0 014	(0.004)	Loss
0.0177 (0.0637) Prec			Dava	0.011	(0.001)	Добб
Validation starts	100.000/6 (37.731/6	0)				
Test: [0/79] Time 0.3	363 (0.363) I	.055	0.2911	(0.2911) Prec	90.625%
(90.625%)	200 (0.000)		0.2011	(0.2011	1100	00.02070
* Prec 89.650%						
best acc: 90.480000						
Epoch: [123][0/391]	Time 0.409 (0.409	9)	Data	0.368	(0.368)	Loss
0.0446 (0.0446) Prec					(:::::)	
Epoch: [123][100/391]			Data	0.003	(0.007)	Loss
0.0618 (0.0565) Prec			2	0.000	(0100.)	
Epoch: [123][200/391]			Data	0.002	(0.005)	Loss
0.0163 (0.0573) Prec			2	*****	(0100)	
Epoch: [123][300/391]			Data	0.014	(0.005)	Loss
0.0536 (0.0604) Prec					(:::::)	
Validation starts						
Test: [0/79] Time 0.3	393 (0.393) I	Loss	0.3114	(0.3114	l) Prec	89.844%
(89.844%)				•		
* Prec 88.330%						
best acc: 90.480000						
Epoch: [124][0/391]	Time 0.445 (0.445	5)	Data	0.404	(0.404)	Loss
0.0210 (0.0210) Prec						
Epoch: [124][100/391]	Time 0.055 (0.059	9)	Data	0.002	(0.008)	Loss
0.0447 (0.0550) Prec						
Epoch: [124][200/391]	Time 0.056 (0.057	7)	Data	0.002	(0.005)	Loss
_	96.094% (97.963%)					
Epoch: [124][300/391]	Time 0.054 (0.057	7)	Data	0.002	(0.005)	Loss
0.0213 (0.0587) Prec	99.219% (97.955%))				
Validation starts						
Test: [0/79] Time 0.3	398 (0.398) I	Loss	0.2093	(0.2093	B) Prec	92.969%
(92.969%)						
* Prec 89.290%						

best acc: 90.480000					
Epoch: [125] [0/391]	Time 0.402 (0.402)	Data	0.360	(0.360)	Loss
0.0413 (0.0413) Prec		Dava	0.000	(0.000)	2000
Epoch: [125][100/391]		Data	0.002	(0.006)	Loss
0.0911 (0.0587) Prec		2000		(0,000)	
Epoch: [125] [200/391]		Data	0.002	(0.005)	Loss
0.0731 (0.0617) Prec				(*******	
Epoch: [125][300/391]		Data	0.002	(0.004)	Loss
0.0568 (0.0628) Prec				(/	
Validation starts	, , , , , , , , , , , , , , , , , , ,				
Test: [0/79] Time 0.	389 (0.389) Loss	0.3158	(0.3158	3) Prec	89.844%
(89.844%)			•	•	
* Prec 90.190%					
best acc: 90.480000					
Epoch: [126][0/391]	Time 0.398 (0.398)	Data	0.358	(0.358)	Loss
0.0261 (0.0261) Prec					
Epoch: [126] [100/391]		Data	0.002	(0.006)	Loss
0.0762 (0.0570) Prec					
Epoch: [126] [200/391]		Data	0.002	(0.004)	Loss
0.0818 (0.0539) Prec					
Epoch: [126] [300/391]		Data	0.002	(0.004)	Loss
0.1601 (0.0583) Prec					
Validation starts					
Test: [0/79] Time 0.	369 (0.369) Loss	0.2532	(0.2532	2) Prec	93.750%
(93.750%)					
* Prec 89.550%					
best acc: 90.480000					
Epoch: [127][0/391]	Time 0.381 (0.381)	Data	0.335	(0.335)	Loss
0.0743 (0.0743) Prec	96.875% (96.875%)				
Epoch: [127][100/391]	Time 0.051 (0.058)	Data	0.002	(0.006)	Loss
0.0521 (0.0557) Prec	98.438% (98.113%)				
Epoch: [127][200/391]	Time 0.057 (0.057)	Data	0.003	(0.005)	Loss
0.0773 (0.0568) Prec	97.656% (98.080%)				
Epoch: [127][300/391]	Time 0.061 (0.056)	Data	0.002	(0.004)	Loss
0.0753 (0.0609) Prec	97.656% (97.905%)				
Validation starts					
Test: $[0/79]$ Time 0.	384 (0.384) Loss	0.1718	(0.1718	B) Prec	93.750%
(93.750%)					
* Prec 90.540%					
best acc: 90.540000					
Epoch: [128][0/391]	Time 0.414 (0.414)	Data	0.374	(0.374)	Loss
0.0606 (0.0606) Prec	97.656% (97.656%)				
Epoch: [128][100/391]	Time 0.056 (0.059)	Data	0.002	(0.007)	Loss
0.0224 (0.0514) Prec	100.000% (98.159%)				
Epoch: [128][200/391]		Data	0.002	(0.005)	Loss
0.0510 (0.0587) Prec					
Epoch: [128] [300/391]		Data	0.002	(0.004)	Loss
0.0375 (0.0590) Prec	98.438% (98.001%)				

Validation starts Test: [0/79] Time 0.34 (92.188%)	44 (0.344) Loss	0.3315 (0.3315)	Prec 92.188%	
* Prec 89.270%				
best acc: 90.540000				
Epoch: [129] [0/391] T	Time 0.333 (0.333)	Data 0.292 (0.292) Loss	
0.0654 (0.0654) Prec 9		2404 01202 (
Epoch: [129][100/391] T		Data 0.002 (0.007) Loss	
0.0676 (0.0600) Prec 9				
Epoch: [129][200/391] T		Data 0.002 (0.005) Loss	
0.1293 (0.0584) Prec 9		•		
Epoch: [129][300/391] T		Data 0.008 (0.004) Loss	
0.0832 (0.0589) Prec 9		•	,	
Validation starts	, , , , , , , , , , , , , , , , , , , ,			
Test: [0/79] Time 0.32	27 (0.327) Loss	0.2448 (0.2448)	Prec 93.750%	
(93.750%)				
* Prec 90.290%				
best acc: 90.540000				
Epoch: [130][0/391] T	Time 0.469 (0.469)	Data 0.425 (0.425) Loss	
0.0330 (0.0330) Prec 9		•		
Epoch: [130][100/391] T		Data 0.002 (0.007) Loss	
0.0811 (0.0577) Prec 9		•	•	
Epoch: [130][200/391] T		Data 0.008 (0.005) Loss	
0.0902 (0.0594) Prec 9				
Epoch: [130][300/391] T		Data 0.006 (0.005) Loss	
0.0573 (0.0593) Prec 9				
Validation starts				
Test: [0/79] Time 0.36	65 (0.365) Loss	0.2370 (0.2370)	Prec 91.406%	
(91.406%)				
* Prec 89.270%				
best acc: 90.540000				
Epoch: [131][0/391] T	Time 0.471 (0.471)	Data 0.431 (0.431) Loss	
0.0304 (0.0304) Prec 9				
Epoch: [131][100/391] T		Data 0.002 (0.007) Loss	
0.0142 (0.0539) Prec 1				
Epoch: [131][200/391] T		Data 0.003 (0.005) Loss	
0.0837 (0.0559) Prec 9				
Epoch: [131][300/391] T		Data 0.002 (0.005) Loss	
0.0288 (0.0579) Prec 9				
Validation starts				
Test: [0/79] Time 0.33	38 (0.338) Loss	0.3673 (0.3673)	Prec 88.281%	
(88.281%)				
* Prec 89.230%				
best acc: 90.540000				
Epoch: [132][0/391] T	Time 0.455 (0.455)	Data 0.415 (0.415) Loss	
0.0440 (0.0440) Prec 9				
Epoch: [132][100/391] T		Data 0.002 (0.007) Loss	
0.0339 (0.0548) Prec 9				

Epoch: [132] [200/391] Time 0.054 (0.057)	Data 0.002 (0.005) Loss
0.0244 (0.0550) Prec 98.438% (98.072%) Epoch: [132][300/391] Time 0.051 (0.057)	Data 0.002 (0.004) Loss
0.0899 (0.0563) Prec 95.312% (98.012%)	
Validation starts	
Test: [0/79] Time 0.338 (0.338) Loss	0.3204 (0.3204) Prec 90.625%
(90.625%)	
* Prec 90.630%	
best acc: 90.630000	D . 0.077 (0.077)
Epoch: [133] [0/391] Time 0.316 (0.316)	Data 0.277 (0.277) Loss
0.0414 (0.0414) Prec 98.438% (98.438%)	D
Epoch: [133] [100/391] Time 0.062 (0.058)	Data 0.002 (0.006) Loss
0.0525 (0.0528) Prec 99.219% (98.198%)	D 0 .044 (0 .005)
Epoch: [133] [200/391] Time 0.054 (0.057)	Data 0.011 (0.005) Loss
0.1227 (0.0587) Prec 96.875% (97.963%)	D
Epoch: [133] [300/391] Time 0.055 (0.056)	Data 0.002 (0.004) Loss
0.1083 (0.0595) Prec 96.094% (97.942%)	
Validation starts	0.4040 (0.4040)
Test: [0/79] Time 0.367 (0.367) Loss	0.1918 (0.1918) Prec 94.531%
(94.531%)	
* Prec 90.210%	
best acc: 90.630000	Data 0 207 (0 207) I ara
Epoch: [134] [0/391] Time 0.366 (0.366)	Data 0.327 (0.327) Loss
0.0601 (0.0601) Prec 98.438% (98.438%)	Data 0 000 (0 007)
Epoch: [134] [100/391] Time 0.055 (0.058)	Data 0.002 (0.007) Loss
0.0498 (0.0568) Prec 98.438% (97.958%)	Data 0 003 (0 005) I ara
Epoch: [134] [200/391] Time 0.054 (0.057)	Data 0.003 (0.005) Loss
0.0777 (0.0609) Prec 96.875% (97.819%) Epoch: [134][300/391] Time 0.053 (0.056)	Data 0.005 (0.004) Loss
	Data 0.005 (0.004) Loss
0.0804 (0.0594) Prec 97.656% (97.929%) Validation starts	
Test: [0/79] Time 0.360 (0.360) Loss	0 1174 (0 1174) Proc 96 0949
(96.094%)	0.11/4 (0.11/4) 11ec 90.034%
* Prec 89.120%	
best acc: 90.630000	
Epoch: [135][0/391] Time 0.421 (0.421)	Data 0.381 (0.381) Loss
0.0332 (0.0332) Prec 99.219% (99.219%)	2002 (0.001) 2002
Epoch: [135] [100/391] Time 0.055 (0.059)	Data 0.002 (0.007) Loss
0.0551 (0.0493) Prec 98.438% (98.267%)	2404 00002 (00000) 2002
Epoch: [135] [200/391] Time 0.061 (0.057)	Data 0.002 (0.005) Loss
0.1132 (0.0541) Prec 95.312% (98.053%)	2404 00002 (00000) 2002
Epoch: [135][300/391] Time 0.049 (0.057)	Data 0.002 (0.004) Loss
0.0644 (0.0564) Prec 96.875% (98.020%)	2404 00002 (00002) 2002
Validation starts	
Test: [0/79] Time 0.329 (0.329) Loss	0.3146 (0.3146) Prec 90.625%
(90.625%)	
* Prec 89.010%	
best acc: 90.630000	

Epoch: [136] [0/391] Time 0.420 (0.420) Data 0.376 (0 0.0922 (0.0922) Prec 96.875% (96.875%)	.376) Loss
Epoch: [136] [100/391] Time 0.054 (0.058) Data 0.002 (0 0.0209 (0.0619) Prec 100.000% (97.811%)	.006) Loss
Epoch: [136] [200/391] Time 0.053 (0.056) Data 0.002 (0 0.0681 (0.0597) Prec 96.875% (97.882%)	.004) Loss
Epoch: [136] [300/391] Time 0.054 (0.056) Data 0.002 (0 0.0718 (0.0585) Prec 97.656% (97.950%)	.003) Loss
Validation starts	
Test: [0/79] Time 0.314 (0.314) Loss 0.2094 (0.2094)	Prec 92.188%
(92.188%)	
* Prec 90.460%	
best acc: 90.630000	
Epoch: [137] [0/391] Time 0.466 (0.466) Data 0.419 (0	.419) Loss
0.0433 (0.0433) Prec 98.438% (98.438%)	
Epoch: [137][100/391] Time 0.049 (0.059) Data 0.002 (0	.007) Loss
0.0517 (0.0524) Prec 97.656% (98.291%)	
Epoch: [137][200/391] Time 0.055 (0.057) Data 0.002 (0	.005) Loss
0.0224 (0.0548) Prec 99.219% (98.200%)	
Epoch: [137] [300/391] Time 0.055 (0.056) Data 0.002 (0	.004) Loss
0.0865 (0.0543) Prec 97.656% (98.170%)	
Validation starts	
Test: [0/79] Time 0.309 (0.309) Loss 0.1856 (0.1856)	Prec 93.750%
(93.750%)	
* Prec 89.730%	
best acc: 90.630000	
Epoch: [138] [0/391] Time 0.315 (0.315) Data 0.275 (0	.275) Loss
	.275) Loss
Epoch: [138][0/391] Time 0.315 (0.315) Data 0.275 (0	
Epoch: [138] [0/391] Time 0.315 (0.315) Data 0.275 (0 0.0611 (0.0611) Prec 96.875% (96.875%)	
Epoch: [138] [0/391] Time 0.315 (0.315) Data 0.275 (0 0.0611 (0.0611) Prec 96.875% (96.875%) Epoch: [138] [100/391] Time 0.054 (0.057) Data 0.002 (0	.005) Loss
Epoch: [138] [0/391] Time 0.315 (0.315) Data 0.275 (0 0.0611 (0.0611) Prec 96.875% (96.875%) Epoch: [138] [100/391] Time 0.054 (0.057) Data 0.002 (0 0.1331 (0.0526) Prec 96.094% (98.120%)	.005) Loss
Epoch: [138] [0/391] Time 0.315 (0.315) Data 0.275 (0 0.0611 (0.0611) Prec 96.875% (96.875%) Epoch: [138] [100/391] Time 0.054 (0.057) Data 0.002 (0 0.1331 (0.0526) Prec 96.094% (98.120%) Epoch: [138] [200/391] Time 0.057 (0.056) Data 0.002 (0	0.005) Loss 0.003) Loss
Epoch: [138] [0/391] Time 0.315 (0.315) Data 0.275 (0 0.0611 (0.0611) Prec 96.875% (96.875%) Epoch: [138] [100/391] Time 0.054 (0.057) Data 0.002 (0 0.1331 (0.0526) Prec 96.094% (98.120%) Epoch: [138] [200/391] Time 0.057 (0.056) Data 0.002 (0 0.0572 (0.0545) Prec 98.438% (98.111%)	0.005) Loss 0.003) Loss
Epoch: [138] [0/391] Time 0.315 (0.315) Data 0.275 (0 0.0611 (0.0611) Prec 96.875% (96.875%) Epoch: [138] [100/391] Time 0.054 (0.057) Data 0.002 (0 0.1331 (0.0526) Prec 96.094% (98.120%) Epoch: [138] [200/391] Time 0.057 (0.056) Data 0.002 (0 0.0572 (0.0545) Prec 98.438% (98.111%) Epoch: [138] [300/391] Time 0.055 (0.056) Data 0.002 (0	0.005) Loss
Epoch: [138] [0/391] Time 0.315 (0.315) Data 0.275 (0 0.0611 (0.0611) Prec 96.875% (96.875%) Epoch: [138] [100/391] Time 0.054 (0.057) Data 0.002 (0 0.1331 (0.0526) Prec 96.094% (98.120%) Epoch: [138] [200/391] Time 0.057 (0.056) Data 0.002 (0 0.0572 (0.0545) Prec 98.438% (98.111%) Epoch: [138] [300/391] Time 0.055 (0.056) Data 0.002 (0 0.0452 (0.0573) Prec 99.219% (98.040%)	Loss 0.003) Loss 0.003) Loss
Epoch: [138] [0/391] Time 0.315 (0.315) Data 0.275 (0 0.0611 (0.0611) Prec 96.875% (96.875%) Epoch: [138] [100/391] Time 0.054 (0.057) Data 0.002 (0 0.1331 (0.0526) Prec 96.094% (98.120%) Epoch: [138] [200/391] Time 0.057 (0.056) Data 0.002 (0 0.0572 (0.0545) Prec 98.438% (98.111%) Epoch: [138] [300/391] Time 0.055 (0.056) Data 0.002 (0 0.0452 (0.0573) Prec 99.219% (98.040%) Validation starts	Loss 0.003) Loss 0.003) Loss
Epoch: [138] [0/391] Time 0.315 (0.315) Data 0.275 (0 0.0611 (0.0611) Prec 96.875% (96.875%) Epoch: [138] [100/391] Time 0.054 (0.057) Data 0.002 (0 0.1331 (0.0526) Prec 96.094% (98.120%) Epoch: [138] [200/391] Time 0.057 (0.056) Data 0.002 (0 0.0572 (0.0545) Prec 98.438% (98.111%) Epoch: [138] [300/391] Time 0.055 (0.056) Data 0.002 (0 0.0452 (0.0573) Prec 99.219% (98.040%) Validation starts Test: [0/79] Time 0.312 (0.312) Loss 0.2792 (0.2792)	Loss 0.003) Loss 0.003) Loss
Epoch: [138] [0/391] Time 0.315 (0.315) Data 0.275 (0 0.0611 (0.0611) Prec 96.875% (96.875%) Epoch: [138] [100/391] Time 0.054 (0.057) Data 0.002 (0 0.1331 (0.0526) Prec 96.094% (98.120%) Epoch: [138] [200/391] Time 0.057 (0.056) Data 0.002 (0 0.0572 (0.0545) Prec 98.438% (98.111%) Epoch: [138] [300/391] Time 0.055 (0.056) Data 0.002 (0 0.0452 (0.0573) Prec 99.219% (98.040%) Validation starts Test: [0/79] Time 0.312 (0.312) Loss 0.2792 (0.2792) (94.531%)	Loss 0.003) Loss 0.003) Loss
Epoch: [138] [0/391] Time 0.315 (0.315) Data 0.275 (0 0.0611 (0.0611) Prec 96.875% (96.875%) Epoch: [138] [100/391] Time 0.054 (0.057) Data 0.002 (0 0.1331 (0.0526) Prec 96.094% (98.120%) Epoch: [138] [200/391] Time 0.057 (0.056) Data 0.002 (0 0.0572 (0.0545) Prec 98.438% (98.111%) Epoch: [138] [300/391] Time 0.055 (0.056) Data 0.002 (0 0.0452 (0.0573) Prec 99.219% (98.040%) Validation starts Test: [0/79] Time 0.312 (0.312) Loss 0.2792 (0.2792) (94.531%) * Prec 89.160%	0.005) Loss 0.003) Loss 0.003) Loss Prec 94.531%
Epoch: [138][0/391] Time 0.315 (0.315) Data 0.275 (0 0.0611 (0.0611) Prec 96.875% (96.875%) Epoch: [138][100/391] Time 0.054 (0.057) Data 0.002 (0 0.1331 (0.0526) Prec 96.094% (98.120%) Epoch: [138][200/391] Time 0.057 (0.056) Data 0.002 (0 0.0572 (0.0545) Prec 98.438% (98.111%) Epoch: [138][300/391] Time 0.055 (0.056) Data 0.002 (0 0.0452 (0.0573) Prec 99.219% (98.040%) Validation starts Test: [0/79] Time 0.312 (0.312) Loss 0.2792 (0.2792) (94.531%) * Prec 89.160% best acc: 90.630000	0.005) Loss 0.003) Loss 0.003) Loss Prec 94.531%
Epoch: [138] [0/391] Time 0.315 (0.315) Data 0.275 (0 0.0611 (0.0611) Prec 96.875% (96.875%) Epoch: [138] [100/391] Time 0.054 (0.057) Data 0.002 (0 0.1331 (0.0526) Prec 96.094% (98.120%) Epoch: [138] [200/391] Time 0.057 (0.056) Data 0.002 (0 0.0572 (0.0545) Prec 98.438% (98.111%) Epoch: [138] [300/391] Time 0.055 (0.056) Data 0.002 (0 0.0452 (0.0573) Prec 99.219% (98.040%) Validation starts Test: [0/79] Time 0.312 (0.312) Loss 0.2792 (0.2792) (94.531%) * Prec 89.160% best acc: 90.630000 Epoch: [139] [0/391] Time 0.437 (0.437) Data 0.388 (0	0.005) Loss 0.003) Loss 0.003) Loss Prec 94.531% 0.388) Loss
Epoch: [138][0/391] Time 0.315 (0.315) Data 0.275 (0 0.0611 (0.0611) Prec 96.875% (96.875%) Epoch: [138][100/391] Time 0.054 (0.057) Data 0.002 (0 0.1331 (0.0526) Prec 96.094% (98.120%) Epoch: [138][200/391] Time 0.057 (0.056) Data 0.002 (0 0.0572 (0.0545) Prec 98.438% (98.111%) Epoch: [138][300/391] Time 0.055 (0.056) Data 0.002 (0 0.0452 (0.0573) Prec 99.219% (98.040%) Validation starts Test: [0/79] Time 0.312 (0.312) Loss 0.2792 (0.2792) (94.531%) * Prec 89.160% best acc: 90.630000 Epoch: [139][0/391] Time 0.437 (0.437) Data 0.388 (0 0.0732 (0.0732) Prec 98.438% (98.438%)	0.005) Loss 0.003) Loss 0.003) Loss Prec 94.531% 0.388) Loss
Epoch: [138] [0/391] Time 0.315 (0.315) Data 0.275 (0 0.0611 (0.0611) Prec 96.875% (96.875%) Epoch: [138] [100/391] Time 0.054 (0.057) Data 0.002 (0 0.1331 (0.0526) Prec 96.094% (98.120%) Epoch: [138] [200/391] Time 0.057 (0.056) Data 0.002 (0 0.0572 (0.0545) Prec 98.438% (98.111%) Epoch: [138] [300/391] Time 0.055 (0.056) Data 0.002 (0 0.0452 (0.0573) Prec 99.219% (98.040%) Validation starts Test: [0/79] Time 0.312 (0.312) Loss 0.2792 (0.2792) (94.531%) * Prec 89.160% best acc: 90.630000 Epoch: [139] [0/391] Time 0.437 (0.437) Data 0.388 (0 0.0732 (0.0732) Prec 98.438% (98.438%) Epoch: [139] [100/391] Time 0.055 (0.059) Data 0.002 (0 0.0314 (0.0585) Prec 98.438% (98.066%) Epoch: [139] [200/391] Time 0.047 (0.057) Data 0.002 (0	Prec 94.531% 0.388) 0.007) 0.005 0.005 0.005 0.007 0.005 0.007 0.008
Epoch: [138] [0/391] Time 0.315 (0.315) Data 0.275 (0 0.0611 (0.0611) Prec 96.875% (96.875%) Epoch: [138] [100/391] Time 0.054 (0.057) Data 0.002 (0 0.1331 (0.0526) Prec 96.094% (98.120%) Epoch: [138] [200/391] Time 0.057 (0.056) Data 0.002 (0 0.0572 (0.0545) Prec 98.438% (98.111%) Epoch: [138] [300/391] Time 0.055 (0.056) Data 0.002 (0 0.0452 (0.0573) Prec 99.219% (98.040%) Validation starts Test: [0/79] Time 0.312 (0.312) Loss 0.2792 (0.2792) (94.531%) * Prec 89.160% best acc: 90.630000 Epoch: [139] [0/391] Time 0.437 (0.437) Data 0.388 (0 0.0732 (0.0732) Prec 98.438% (98.438%) Epoch: [139] [100/391] Time 0.055 (0.059) Data 0.002 (0 0.0314 (0.0585) Prec 98.438% (98.066%) Epoch: [139] [200/391] Time 0.047 (0.057) Data 0.002 (0 0.0311 (0.0556) Prec 98.438% (98.189%)	0.005) Loss 0.003) Loss 0.003) Loss Prec 94.531% 0.388) Loss 0.007) Loss 0.005) Loss
Epoch: [138][0/391] Time 0.315 (0.315) Data 0.275 (0 0.0611 (0.0611) Prec 96.875% (96.875%) Epoch: [138][100/391] Time 0.054 (0.057) Data 0.002 (0 0.1331 (0.0526) Prec 96.094% (98.120%) Epoch: [138][200/391] Time 0.057 (0.056) Data 0.002 (0 0.0572 (0.0545) Prec 98.438% (98.111%) Epoch: [138][300/391] Time 0.055 (0.056) Data 0.002 (0 0.0452 (0.0573) Prec 99.219% (98.040%) Validation starts Test: [0/79] Time 0.312 (0.312) Loss 0.2792 (0.2792) (94.531%) * Prec 89.160% best acc: 90.630000 Epoch: [139][0/391] Time 0.437 (0.437) Data 0.388 (0 0.0732 (0.0732) Prec 98.438% (98.438%) Epoch: [139][100/391] Time 0.055 (0.059) Data 0.002 (0 0.0314 (0.0585) Prec 98.438% (98.066%) Epoch: [139][200/391] Time 0.047 (0.057) Data 0.002 (0 0.0311 (0.0556) Prec 98.438% (98.189%) Epoch: [139][300/391] Time 0.067 (0.057) Data 0.002 (0	0.005) Loss 0.003) Loss 0.003) Loss Prec 94.531% 0.388) Loss 0.007) Loss 0.005) Loss
Epoch: [138] [0/391] Time 0.315 (0.315) Data 0.275 (0 0.0611 (0.0611) Prec 96.875% (96.875%) Epoch: [138] [100/391] Time 0.054 (0.057) Data 0.002 (0 0.1331 (0.0526) Prec 96.094% (98.120%) Epoch: [138] [200/391] Time 0.057 (0.056) Data 0.002 (0 0.0572 (0.0545) Prec 98.438% (98.111%) Epoch: [138] [300/391] Time 0.055 (0.056) Data 0.002 (0 0.0452 (0.0573) Prec 99.219% (98.040%) Validation starts Test: [0/79] Time 0.312 (0.312) Loss 0.2792 (0.2792) (94.531%) * Prec 89.160% best acc: 90.630000 Epoch: [139] [0/391] Time 0.437 (0.437) Data 0.388 (0 0.0732 (0.0732) Prec 98.438% (98.438%) Epoch: [139] [100/391] Time 0.055 (0.059) Data 0.002 (0 0.0314 (0.0585) Prec 98.438% (98.066%) Epoch: [139] [200/391] Time 0.047 (0.057) Data 0.002 (0 0.0311 (0.0556) Prec 98.438% (98.189%)	0.005) Loss 0.003) Loss 0.003) Loss Prec 94.531% 0.388) Loss 0.007) Loss 0.005) Loss

Test: [0/79] Time 0.330 (0.330) (91.406%)	Loss 0.2744 (0.2744) Prec 91.406%
* Prec 89.700%	
best acc: 90.630000	
Epoch: [140][0/391] Time 0.374 (0.3	374) Data 0.330 (0.330) Loss
0.0491 (0.0491) Prec 99.219% (99.219	9%)
Epoch: [140][100/391] Time 0.050 (0.0	Data 0.002 (0.006) Loss
0.0900 (0.0630) Prec 98.438% (97.997	'%)
Epoch: [140][200/391] Time 0.049 (0.0	
0.0673 (0.0592) Prec 96.875% (98.057	
Epoch: [140] [300/391] Time 0.056 (0.0	
0.0220 (0.0589) Prec 99.219% (98.009	%)
Validation starts	
Test: [0/79] Time 0.315 (0.315)	Loss 0.1371 (0.1371) Prec 95.312%
(95.312%)	
* Prec 90.440% best acc: 90.630000	
Epoch: [141][0/391] Time 0.377 (0.3	377) Data 0.336 (0.336) Loss
0.0189 (0.0189) Prec 100.000% (100.0	
Epoch: [141][100/391] Time 0.067 (0.0	
0.0331 (0.0510) Prec 99.219% (98.291	
Epoch: [141][200/391] Time 0.060 (0.0	
0.0834 (0.0562) Prec 96.094% (98.200	
Epoch: [141][300/391] Time 0.055 (0.0	
0.0513 (0.0597) Prec 98.438% (98.009	
Validation starts	7707
Test: [0/79] Time 0.370 (0.370)	Loss 0.2832 (0.2832) Prec 92.969%
(92.969%)	
* Prec 89.430%	
best acc: 90.630000	
Epoch: [142][0/391] Time 0.448 (0.4	148) Data 0.409 (0.409) Loss
0.1081 (0.1081) Prec 97.656% (97.656	
Epoch: [142][100/391] Time 0.054 (0.0	059) Data 0.002 (0.007) Loss
0.1162 (0.0584) Prec 95.312% (98.120	0%)
Epoch: [142][200/391] Time 0.054 (0.0	057) Data 0.002 (0.005) Loss
0.0386 (0.0576) Prec 98.438% (98.076	5%)
Epoch: [142][300/391] Time 0.061 (0.0	Data 0.003 (0.004) Loss
0.1037 (0.0603) Prec 96.875% (97.947	7%)
Validation starts	
Test: [0/79] Time 0.401 (0.401)	Loss 0.2207 (0.2207) Prec 94.531%
(94.531%)	
* Prec 90.070%	
best acc: 90.630000	
Epoch: [143][0/391] Time 0.386 (0.3	
0.0614 (0.0614) Prec 98.438% (98.438	
Epoch: [143] [100/391] Time 0.061 (0.0	
0.0172 (0.0572) Prec 100.000% (98.10	
Epoch: [143][200/391] Time 0.052 (0.0	Data 0.005 (0.005) Loss

0.0492 (0.0593) Prec 99.219% (98.033%)	
Epoch: [143] [300/391] Time 0.055 (0.057)	Data 0.002 (0.004) Loss
0.0927 (0.0599) Prec 96.094% (97.991%)	2404 0.002 (0.001) 2005
Validation starts	
Test: [0/79] Time 0.365 (0.365) Loss	0.2328 (0.2328) Prec 90.625%
(90.625%)	
* Prec 89.510%	
best acc: 90.630000	
Epoch: [144][0/391] Time 0.445 (0.445)	Data 0.405 (0.405) Loss
0.1325 (0.1325) Prec 96.875% (96.875%)	
Epoch: [144][100/391] Time 0.052 (0.059)	Data 0.002 (0.006) Loss
0.0583 (0.0536) Prec 97.656% (98.167%)	
Epoch: [144][200/391] Time 0.055 (0.057)	Data 0.002 (0.004) Loss
0.0158 (0.0561) Prec 100.000% (98.099%)	
Epoch: [144][300/391] Time 0.055 (0.056)	Data 0.002 (0.004) Loss
0.0155 (0.0550) Prec 100.000% (98.118%)	
Validation starts	
Test: [0/79] Time 0.385 (0.385) Loss	0.6209 (0.6209) Prec 85.938%
(85.938%)	
* Prec 88.840%	
best acc: 90.630000	
Epoch: [145][0/391] Time 0.406 (0.406)	Data 0.358 (0.358) Loss
0.0584 (0.0584) Prec 97.656% (97.656%)	
Epoch: [145][100/391] Time 0.054 (0.059)	Data 0.005 (0.006) Loss
0.0526 (0.0578) Prec 97.656% (97.989%)	
Epoch: [145][200/391] Time 0.057 (0.057)	Data 0.002 (0.005) Loss
0.1083 (0.0573) Prec 95.312% (97.971%)	
Epoch: [145][300/391] Time 0.055 (0.056)	Data 0.002 (0.004) Loss
0.0570 (0.0590) Prec 97.656% (97.970%)	
Validation starts	
Test: [0/79] Time 0.375 (0.375) Loss	0.2057 (0.2057) Prec 94.531%
(94.531%)	
* Prec 90.050%	
best acc: 90.630000	
Epoch: [146] [0/391] Time 0.398 (0.398)	Data 0.353 (0.353) Loss
0.0956 (0.0956) Prec 96.875% (96.875%)	
Epoch: [146] [100/391] Time 0.063 (0.059)	Data 0.015 (0.008) Loss
0.0565 (0.0512) Prec 98.438% (98.144%)	
Epoch: [146] [200/391] Time 0.055 (0.057)	Data 0.002 (0.005) Loss
0.0241 (0.0504) Prec 99.219% (98.158%)	D
Epoch: [146] [300/391] Time 0.061 (0.057)	Data 0.002 (0.005) Loss
0.0254 (0.0566) Prec 98.438% (97.983%)	
Validation starts	0.0054 (0.0054) B 00.044W
Test: [0/79] Time 0.351 (0.351) Loss	0.3051 (0.3051) Prec 89.844%
(89.844%)	
* Prec 89.830% best acc: 90.630000	
	Data 0.285 (0.285) Loss
Epoch: [147][0/391] Time 0.324 (0.324)	Data 0.200 (0.200) LOSS

0.0000 (0.0000)	
0.0208 (0.0208) Prec 99.219% (99.219%)	D . 0.040 (0.007)
Epoch: [147] [100/391] Time 0.061 (0.058)	Data 0.013 (0.007) Loss
0.0621 (0.0594) Prec 96.875% (97.927%)	D + 0 000 (0 005)
Epoch: [147] [200/391] Time 0.053 (0.057)	Data 0.002 (0.005) Loss
0.1032 (0.0624) Prec 96.875% (97.862%)	D . 0.007 (0.005)
Epoch: [147] [300/391] Time 0.055 (0.056)	Data 0.007 (0.005) Loss
0.0354 (0.0579) Prec 99.219% (98.059%)	
Validation starts	
Test: [0/79] Time 0.398 (0.398) Loss	0.2663 (0.2663) Prec 92.188%
(92.188%)	
* Prec 89.850%	
best acc: 90.630000	D
Epoch: [148] [0/391] Time 0.440 (0.440)	Data 0.396 (0.396) Loss
0.0788 (0.0788) Prec 96.094% (96.094%)	
Epoch: [148] [100/391] Time 0.057 (0.059)	Data 0.002 (0.007) Loss
0.1442 (0.0568) Prec 96.094% (97.888%)	
Epoch: [148] [200/391] Time 0.055 (0.057)	Data 0.002 (0.005) Loss
0.0448 (0.0599) Prec 96.875% (97.804%)	
Epoch: [148] [300/391] Time 0.061 (0.056)	Data 0.002 (0.004) Loss
0.0680 (0.0613) Prec 96.875% (97.807%)	
Validation starts	
Test: [0/79] Time 0.388 (0.388) Loss	0.3697 (0.3697) Prec 89.062%
(89.062%)	
* Prec 89.110%	
best acc: 90.630000	
Epoch: [149] [0/391] Time 0.450 (0.450)	Data 0.406 (0.406) Loss
0.0374 (0.0374) Prec 98.438% (98.438%)	
Epoch: [149] [100/391] Time 0.055 (0.059)	Data 0.002 (0.007) Loss
0.0186 (0.0550) Prec 100.000% (98.128%)	
Epoch: [149] [200/391] Time 0.064 (0.057)	Data 0.002 (0.004) Loss
0.0181 (0.0555) Prec 99.219% (98.092%)	
Epoch: [149] [300/391] Time 0.055 (0.056)	Data 0.002 (0.004) Loss
0.0553 (0.0575) Prec 97.656% (98.007%)	
Validation starts	
Test: [0/79] Time 0.332 (0.332) Loss	0.2733 (0.2733) Prec 94.531%
(94.531%)	
* Prec 88.920%	
best acc: 90.630000	
Epoch: [150] [0/391] Time 0.470 (0.470)	Data 0.415 (0.415) Loss
0.0770 (0.0770) Prec 97.656% (97.656%)	4
Epoch: [150] [100/391] Time 0.055 (0.059)	Data 0.002 (0.006) Loss
0.0152 (0.0336) Prec 99.219% (98.863%)	
Epoch: [150] [200/391] Time 0.051 (0.057)	Data 0.002 (0.005) Loss
0.0087 (0.0311) Prec 100.000% (98.958%)	
Epoch: [150] [300/391] Time 0.054 (0.056)	Data 0.002 (0.004) Loss
0.0154 (0.0273) Prec 99.219% (99.118%)	
Validation starts	0.4405 (0.4405)
Test: [0/79] Time 0.346 (0.346) Loss	0.1485 (0.1485) Prec 96.094%

* Prec 91.870%	
best acc: 91.870000	
Epoch: [151] [0/391] Time 0.442 (0.442)) Data 0.396 (0.396) Loss
0.0071 (0.0071) Prec 100.000% (100.000	
Epoch: [151] [100/391] Time 0.055 (0.059	
0.0263 (0.0166) Prec 99.219% (99.451%)	
Epoch: [151] [200/391] Time 0.060 (0.057	
0.0057 (0.0150) Prec 100.000% (99.561%	
Epoch: [151] [300/391] Time 0.058 (0.057	
0.0378 (0.0142) Prec 99.219% (99.585%)	
Validation starts	
Test: [0/79] Time 0.380 (0.380) L	oss 0.1855 (0.1855) Prec 95.312%
(95.312%)	
* Prec 92.220%	
best acc: 92.220000	
Epoch: [152] [0/391] Time 0.450 (0.450	
0.0033 (0.0033) Prec 100.000% (100.000	
Epoch: [152][100/391] Time 0.054 (0.059	
0.0116 (0.0104) Prec 100.000% (99.683%)
Epoch: [152][200/391] Time 0.054 (0.057) Data 0.002 (0.004) Loss
0.0056 (0.0107) Prec 100.000% (99.701%)
Epoch: [152][300/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss
0.0052 (0.0100) Prec 100.000% (99.707%)
Validation starts	
Test: [0/79] Time 0.370 (0.370) L	oss 0 1618 (0 1618) Prec 96 094%
	022 0.1010 (0.1010) 1100 00.001%
(96.094%)	1100 00.001
(96.094%) * Prec 92.040%	055 0.1010 (0.1010) 1100 00.001%
	1100 00.001
* Prec 92.040%	
* Prec 92.040% best acc: 92.220000) Data 0.347 (0.347) Loss
* Prec 92.040% best acc: 92.220000 Epoch: [153][0/391] Time 0.388 (0.388) Data 0.347 (0.347) Loss %)
* Prec 92.040% best acc: 92.220000 Epoch: [153][0/391] Time 0.388 (0.388 0.0079 (0.0079) Prec 100.000% (100.000) Data 0.347 (0.347) Loss %)) Data 0.007 (0.006) Loss
* Prec 92.040% best acc: 92.220000 Epoch: [153][0/391] Time 0.388 (0.388 0.0079 (0.0079) Prec 100.000% (100.000 Epoch: [153][100/391] Time 0.054 (0.058) Data 0.347 (0.347) Loss %)) Data 0.007 (0.006) Loss
* Prec 92.040% best acc: 92.220000 Epoch: [153][0/391] Time 0.388 (0.388 0.0079 (0.0079) Prec 100.000% (100.000 Epoch: [153][100/391] Time 0.054 (0.058 0.0228 (0.0103) Prec 99.219% (99.706%)) Data 0.347 (0.347) Loss %) Data 0.007 (0.006) Loss) Data 0.002 (0.005) Loss
* Prec 92.040% best acc: 92.220000 Epoch: [153][0/391] Time 0.388 (0.388 0.0079 (0.0079) Prec 100.000% (100.000 Epoch: [153][100/391] Time 0.054 (0.058 0.0228 (0.0103) Prec 99.219% (99.706%) Epoch: [153][200/391] Time 0.055 (0.056) Data 0.347 (0.347) Loss %) Data 0.007 (0.006) Loss) Data 0.002 (0.005) Loss)
* Prec 92.040% best acc: 92.220000 Epoch: [153][0/391] Time 0.388 (0.388 0.0079 (0.0079) Prec 100.000% (100.000 Epoch: [153][100/391] Time 0.054 (0.058 0.0228 (0.0103) Prec 99.219% (99.706%) Epoch: [153][200/391] Time 0.055 (0.056 0.0008 (0.0101) Prec 100.000% (99.685%)	Data 0.347 (0.347) Loss Data 0.007 (0.006) Loss Data 0.002 (0.005) Loss Data 0.002 (0.004) Loss
* Prec 92.040% best acc: 92.220000 Epoch: [153] [0/391] Time 0.388 (0.388 0.0079 (0.0079) Prec 100.000% (100.000 Epoch: [153] [100/391] Time 0.054 (0.058 0.0228 (0.0103) Prec 99.219% (99.706%) Epoch: [153] [200/391] Time 0.055 (0.056 0.0008 (0.0101) Prec 100.000% (99.685% Epoch: [153] [300/391] Time 0.054 (0.056	Data 0.347 (0.347) Loss Data 0.007 (0.006) Loss Data 0.002 (0.005) Loss Data 0.002 (0.004) Loss
* Prec 92.040% best acc: 92.220000 Epoch: [153][0/391] Time 0.388 (0.388 0.0079 (0.0079) Prec 100.000% (100.000 Epoch: [153][100/391] Time 0.054 (0.058 0.0228 (0.0103) Prec 99.219% (99.706%) Epoch: [153][200/391] Time 0.055 (0.056 0.0008 (0.0101) Prec 100.000% (99.685% Epoch: [153][300/391] Time 0.054 (0.056 0.0254 (0.0097) Prec 99.219% (99.714%)) Data 0.347 (0.347) Loss %)) Data 0.007 (0.006) Loss) Data 0.002 (0.005) Loss)) Data 0.002 (0.004) Loss
* Prec 92.040% best acc: 92.220000 Epoch: [153][0/391] Time 0.388 (0.388 0.0079 (0.0079) Prec 100.000% (100.000 Epoch: [153][100/391] Time 0.054 (0.058 0.0228 (0.0103) Prec 99.219% (99.706%) Epoch: [153][200/391] Time 0.055 (0.056 0.0008 (0.0101) Prec 100.000% (99.685% Epoch: [153][300/391] Time 0.054 (0.056 0.0254 (0.0097) Prec 99.219% (99.714%) Validation starts) Data 0.347 (0.347) Loss %)) Data 0.007 (0.006) Loss) Data 0.002 (0.005) Loss)) Data 0.002 (0.004) Loss
* Prec 92.040% best acc: 92.220000 Epoch: [153] [0/391] Time 0.388 (0.388 0.0079 (0.0079) Prec 100.000% (100.000 Epoch: [153] [100/391] Time 0.054 (0.058 0.0228 (0.0103) Prec 99.219% (99.706%) Epoch: [153] [200/391] Time 0.055 (0.056 0.0008 (0.0101) Prec 100.000% (99.685% Epoch: [153] [300/391] Time 0.054 (0.056 0.0254 (0.0097) Prec 99.219% (99.714%) Validation starts Test: [0/79] Time 0.353 (0.353) L (95.312%)) Data 0.347 (0.347) Loss %)) Data 0.007 (0.006) Loss) Data 0.002 (0.005) Loss)) Data 0.002 (0.004) Loss
* Prec 92.040% best acc: 92.220000 Epoch: [153][0/391] Time 0.388 (0.388 0.0079 (0.0079) Prec 100.000% (100.000 Epoch: [153][100/391] Time 0.054 (0.058 0.0228 (0.0103) Prec 99.219% (99.706%) Epoch: [153][200/391] Time 0.055 (0.056 0.0008 (0.0101) Prec 100.000% (99.685% Epoch: [153][300/391] Time 0.054 (0.056 0.0254 (0.0097) Prec 99.219% (99.714%) Validation starts Test: [0/79] Time 0.353 (0.353) L (95.312%) * Prec 92.280%) Data 0.347 (0.347) Loss %)) Data 0.007 (0.006) Loss) Data 0.002 (0.005) Loss)) Data 0.002 (0.004) Loss
* Prec 92.040% best acc: 92.220000 Epoch: [153] [0/391] Time 0.388 (0.388 0.0079 (0.0079) Prec 100.000% (100.000 Epoch: [153] [100/391] Time 0.054 (0.058 0.0228 (0.0103) Prec 99.219% (99.706%) Epoch: [153] [200/391] Time 0.055 (0.056 0.0008 (0.0101) Prec 100.000% (99.685% Epoch: [153] [300/391] Time 0.054 (0.056 0.0254 (0.0097) Prec 99.219% (99.714%) Validation starts Test: [0/79] Time 0.353 (0.353) L (95.312%) * Prec 92.280% best acc: 92.280000) Data 0.347 (0.347) Loss %)) Data 0.007 (0.006) Loss) Data 0.002 (0.005) Loss) Data 0.002 (0.004) Loss oss 0.1816 (0.1816) Prec 95.312%
* Prec 92.040% best acc: 92.220000 Epoch: [153] [0/391] Time 0.388 (0.388 0.0079 (0.0079) Prec 100.000% (100.000 Epoch: [153] [100/391] Time 0.054 (0.058 0.0228 (0.0103) Prec 99.219% (99.706%) Epoch: [153] [200/391] Time 0.055 (0.056 0.0008 (0.0101) Prec 100.000% (99.685% Epoch: [153] [300/391] Time 0.054 (0.056 0.0254 (0.0097) Prec 99.219% (99.714%) Validation starts Test: [0/79] Time 0.353 (0.353) L (95.312%) * Prec 92.280% best acc: 92.280000 Epoch: [154] [0/391] Time 0.358 (0.358) Data 0.347 (0.347) Loss %))) Data 0.007 (0.006) Loss) Data 0.002 (0.005) Loss) Data 0.002 (0.004) Loss oss 0.1816 (0.1816) Prec 95.312%) Data 0.315 (0.315) Loss
* Prec 92.040% best acc: 92.220000 Epoch: [153][0/391] Time 0.388 (0.388 0.0079 (0.0079) Prec 100.000% (100.000 Epoch: [153][100/391] Time 0.054 (0.058 0.0228 (0.0103) Prec 99.219% (99.706%) Epoch: [153][200/391] Time 0.055 (0.056 0.0008 (0.0101) Prec 100.000% (99.685% Epoch: [153][300/391] Time 0.054 (0.056 0.0254 (0.0097) Prec 99.219% (99.714%) Validation starts Test: [0/79] Time 0.353 (0.353) L (95.312%) * Prec 92.280% best acc: 92.280000 Epoch: [154][0/391] Time 0.358 (0.358 0.0059 (0.0059) Prec 100.000% (100.000) Data 0.347 (0.347) Loss %))) Data 0.007 (0.006) Loss) Data 0.002 (0.005) Loss) Data 0.002 (0.004) Loss oss 0.1816 (0.1816) Prec 95.312%) Data 0.315 (0.315) Loss %)
* Prec 92.040% best acc: 92.220000 Epoch: [153] [0/391] Time 0.388 (0.388 0.0079 (0.0079) Prec 100.000% (100.000 Epoch: [153] [100/391] Time 0.054 (0.058 0.0228 (0.0103) Prec 99.219% (99.706%) Epoch: [153] [200/391] Time 0.055 (0.056 0.0008 (0.0101) Prec 100.000% (99.685% Epoch: [153] [300/391] Time 0.054 (0.056 0.0254 (0.0097) Prec 99.219% (99.714%) Validation starts Test: [0/79] Time 0.353 (0.353) L (95.312%) * Prec 92.280% best acc: 92.280000 Epoch: [154] [0/391] Time 0.358 (0.358 0.0059 (0.0059) Prec 100.000% (100.000 Epoch: [154] [100/391] Time 0.054 (0.058	Data 0.347 (0.347) Loss Data 0.007 (0.006) Loss Data 0.002 (0.005) Loss Data 0.002 (0.004) Loss Oss 0.1816 (0.1816) Prec 95.312% Data 0.315 (0.315) Loss Data 0.002 (0.007) Loss
* Prec 92.040% best acc: 92.220000 Epoch: [153] [0/391] Time 0.388 (0.388 0.0079 (0.0079) Prec 100.000% (100.000 Epoch: [153] [100/391] Time 0.054 (0.058 0.0228 (0.0103) Prec 99.219% (99.706%) Epoch: [153] [200/391] Time 0.055 (0.056 0.0008 (0.0101) Prec 100.000% (99.685% Epoch: [153] [300/391] Time 0.054 (0.056 0.0254 (0.0097) Prec 99.219% (99.714%) Validation starts Test: [0/79] Time 0.353 (0.353) L (95.312%) * Prec 92.280% best acc: 92.280000 Epoch: [154] [0/391] Time 0.358 (0.358 0.0059 (0.0059) Prec 100.000% (100.000 Epoch: [154] [100/391] Time 0.054 (0.058 0.0041 (0.0070) Prec 100.000% (99.807%)	Data 0.347 (0.347) Loss Data 0.007 (0.006) Loss Data 0.002 (0.005) Loss Data 0.002 (0.004) Loss Oss 0.1816 (0.1816) Prec 95.312% Data 0.315 (0.315) Loss Data 0.002 (0.007) Loss
* Prec 92.040% best acc: 92.220000 Epoch: [153] [0/391] Time 0.388 (0.388 0.0079 (0.0079) Prec 100.000% (100.000 Epoch: [153] [100/391] Time 0.054 (0.058 0.0228 (0.0103) Prec 99.219% (99.706%) Epoch: [153] [200/391] Time 0.055 (0.056 0.0008 (0.0101) Prec 100.000% (99.685% Epoch: [153] [300/391] Time 0.054 (0.056 0.0254 (0.0097) Prec 99.219% (99.714%) Validation starts Test: [0/79] Time 0.353 (0.353) L (95.312%) * Prec 92.280% best acc: 92.280000 Epoch: [154] [0/391] Time 0.358 (0.358 0.0059 (0.0059) Prec 100.000% (100.000 Epoch: [154] [100/391] Time 0.054 (0.058	Data 0.347 (0.347) Loss Data 0.007 (0.006) Loss Data 0.002 (0.005) Loss Data 0.002 (0.004) Loss Oss 0.1816 (0.1816) Prec 95.312% Data 0.315 (0.315) Loss Data 0.002 (0.007) Loss Data 0.002 (0.005) Loss

Epoch: [154][300/391] Time 0.055 (0.056) 0.0016 (0.0071) Prec 100.000% (99.798%)	Data 0.002 (0.004) Loss
Validation starts Test: [0/79] Time 0.380 (0.380) Loss (96.875%)	0.1624 (0.1624) Prec 96.875%
* Prec 92.540%	
best acc: 92.540000	
Epoch: [155] [0/391] Time 0.424 (0.424)	Data 0.372 (0.372) Loss
0.0022 (0.0022) Prec 100.000% (100.000%)	
Epoch: [155][100/391] Time 0.060 (0.059)	Data 0.002 (0.006) Loss
0.0041 (0.0060) Prec 100.000% (99.869%)	
Epoch: [155][200/391] Time 0.055 (0.057)	Data 0.002 (0.004) Loss
0.0034 (0.0065) Prec 100.000% (99.813%)	
Epoch: [155][300/391] Time 0.051 (0.056)	Data 0.002 (0.004) Loss
0.0060 (0.0063) Prec 100.000% (99.824%)	
Validation starts	
Test: [0/79] Time 0.399 (0.399) Loss	0.1429 (0.1429) Prec 96.094%
(96.094%)	
* Prec 92.440%	
best acc: 92.540000	
Epoch: [156] [0/391] Time 0.421 (0.421)	Data 0.382 (0.382) Loss
0.0038 (0.0038) Prec 100.000% (100.000%)	
Epoch: [156][100/391] Time 0.057 (0.059)	Data 0.002 (0.007) Loss
0.0007 (0.0070) Prec 100.000% (99.799%)	• •
Epoch: [156] [200/391] Time 0.064 (0.057)	Data 0.002 (0.005) Loss
0.0073 (0.0058) Prec 100.000% (99.841%)	, , , , , , , , , , , , , , , , , , ,
Epoch: [156] [300/391] Time 0.052 (0.057)	Data 0.002 (0.004) Loss
0.0025 (0.0056) Prec 100.000% (99.860%)	2000 00002 (00001, 2002
Validation starts	
Test: [0/79] Time 0.301 (0.301) Loss	0 1628 (0 1628) Prec 95 312%
(95.312%)	1100 00.012
* Prec 92.510%	
best acc: 92.540000	
Epoch: [157] [0/391] Time 0.409 (0.409)	Data 0.357 (0.357) Loss
0.0039 (0.0039) Prec 100.000% (100.000%)	Data 0.557 (0.557) Loss
Epoch: [157] [100/391] Time 0.055 (0.058)	Data 0.002 (0.006) Loss
0.0045 (0.0053) Prec 100.000% (99.822%)	Data 0.002 (0.000) LOSS
	Data 0 000 (0 004) I aza
Epoch: [157] [200/391] Time 0.052 (0.057)	Data 0.002 (0.004) Loss
0.0012 (0.0054) Prec 100.000% (99.829%)	D . 0 000 (0 004) I
Epoch: [157] [300/391] Time 0.056 (0.056)	Data 0.002 (0.004) Loss
0.0051 (0.0054) Prec 100.000% (99.834%)	
Validation starts	
	0.1503 (0.1503) Prec 95.312%
(95.312%)	
* Prec 92.340%	
best acc: 92.540000	
Epoch: [158] [0/391] Time 0.386 (0.386)	Data 0.347 (0.347) Loss
0.0017 (0.0017) Prec 100.000% (100.000%)	

Epoch: [158] [100/391] Time 0.055		Data	0.005	(0.007)	Loss
0.0005 (0.0068) Prec 100.000% (Epoch: [158][200/391] Time 0.053	3 (0.057)	Data	0.002	(0.005)	Loss
0.0017 (0.0053) Prec 100.000% (Epoch: [158] [300/391] Time 0.054 (0.0018 (0.0050) Prec 100.000% (Validation starts	1 (0.057)	Data	0.002	(0.005)	Loss
Test: [0/79] Time 0.255 (0.255) (96.094%)	Loss	0.1363	(0.1363	3) Prec	96.094%
* Prec 92.450%					
best acc: 92.540000					
Epoch: [159] [0/391] Time 0.367 0.0025 (0.0025) Prec 100.000%		Data	0.323	(0.323)	Loss
Epoch: [159] [100/391] Time 0.056		Data	0.002	(0.006)	Loss
0.0013 (0.0032) Prec 100.000% (
Epoch: [159][200/391] Time 0.058		Data	0.002	(0.005)	Loss
0.0029 (0.0042) Prec 100.000% (
Epoch: [159][300/391] Time 0.053		Data	0.002	(0.004)	Loss
0.0007 (0.0043) Prec 100.000% ((99.878%)				
Validation starts					
Test: [0/79] Time 0.350 (0.350)	Loss	0.1301	(0.1301	l) Prec	96.875%
(96.875%)					
* Prec 92.640%					
best acc: 92.640000	. (0. 110)	5 .		(0.404)	_
Epoch: [160] [0/391] Time 0.446		Data	0.401	(0.401)	Loss
0.0043 (0.0043) Prec 100.000% ((_
Epoch: [160] [100/391] Time 0.052		Data	0.002	(0.007)	Loss
0.0005 (0.0037) Prec 100.000% (()	_
Epoch: [160] [200/391] Time 0.054		Data	0.005	(0.005)	Loss
0.0065 (0.0042) Prec 100.000% (_			_
Epoch: [160] [300/391] Time 0.059		Data	0.002	(0.005)	Loss
0.0006 (0.0043) Prec 100.000% ((99.896%)				
Validation starts	_			_	
Test: [0/79] Time 0.349 (0.349)	Loss	0.1753	(0.1753	3) Prec	95.312%
(95.312%)					
* Prec 92.460%					
best acc: 92.640000	. (0 440)	ъ.	0 110	(0.440)	.
Epoch: [161] [0/391] Time 0.449		Data	0.410	(0.410)	Loss
0.0007 (0.0007) Prec 100.000% (ъ.	0 000	(0.000)	.
Epoch: [161] [100/391] Time 0.055		рата	0.002	(0.008)	Loss
0.0088 (0.0060) Prec 100.000% (ъ.	0 000	(0.005)	.
Epoch: [161] [200/391] Time 0.054		Data	0.002	(0.005)	Loss
0.0009 (0.0051) Prec 100.000% (ъ.	0 000	(0.005)	
Epoch: [161] [300/391] Time 0.055		раta	0.002	(0.005)	Loss
0.0152 (0.0044) Prec 99.219% (9	19.808%)				
Validation starts	T	0 1200	(0 1200)) D	06 004%
Test: [0/79] Time 0.340 (0.340)	LOSS	0.1322	(0.1322	2) Prec	90.094%
(96.094%)					

* Prec 92.490%				
best acc: 92.640000				
Epoch: [162][0/391]	Time 0.445 (0.445)	Data 0.404	(0.404)	Loss
0.0008 (0.0008) Prec	100.000% (100.000%)			
Epoch: [162][100/391]	Time 0.056 (0.059)	Data 0.002	(0.007)	Loss
0.0006 (0.0027) Prec	100.000% (99.938%)			
Epoch: [162][200/391]	Time 0.058 (0.057)	Data 0.002	(0.005)	Loss
0.0006 (0.0029) Prec	100.000% (99.946%)			
Epoch: [162][300/391]	Time 0.058 (0.056)	Data 0.002	(0.004)	Loss
0.0024 (0.0034) Prec	100.000% (99.927%)			
Validation starts				
Test: [0/79] Time 0.3	359 (0.359) Loss	0.1284 (0.1284	l) Prec 9	96.875%
(96.875%)				
* Prec 92.680%				
best acc: 92.680000				
Epoch: [163][0/391]	Time 0.400 (0.400)	Data 0.347	(0.347)	Loss
0.0004 (0.0004) Prec	100.000% (100.000%)			
Epoch: [163][100/391]	Time 0.049 (0.059)	Data 0.003	(0.007)	Loss
0.0010 (0.0036) Prec	100.000% (99.884%)			
Epoch: [163][200/391]	Time 0.056 (0.057)	Data 0.002	(0.005)	Loss
0.0002 (0.0034) Prec	100.000% (99.895%)			
Epoch: [163][300/391]	Time 0.054 (0.057)	Data 0.002	(0.005)	Loss
0.0029 (0.0034) Prec	100.000% (99.899%)			
Validation starts				
Test: [0/79] Time 0.3	336 (0.336) Loss	0.1562 (0.1562	2) Prec 9	95.312%
Test: [0/79] Time 0.3 (95.312%)	336 (0.336) Loss	0.1562 (0.1562	2) Prec 9	95.312%
	336 (0.336) Loss	0.1562 (0.1562	2) Prec S	95.312%
(95.312%)	336 (0.336) Loss	0.1562 (0.1562	2) Prec 9	95.312%
(95.312%) * Prec 92.440%				
(95.312%) * Prec 92.440% best acc: 92.680000	Time 0.405 (0.405)			
(95.312%) * Prec 92.440% best acc: 92.680000 Epoch: [164][0/391]	Time 0.405 (0.405) 100.000% (100.000%)		(0.361)	Loss
(95.312%) * Prec 92.440% best acc: 92.680000 Epoch: [164] [0/391] 0.0012 (0.0012) Prec	Time 0.405 (0.405) 100.000% (100.000%) Time 0.055 (0.058)	Data 0.361	(0.361)	Loss
(95.312%) * Prec 92.440% best acc: 92.680000 Epoch: [164] [0/391] 0.0012 (0.0012) Prec Epoch: [164] [100/391]	Time 0.405 (0.405) 100.000% (100.000%) Time 0.055 (0.058) 100.000% (99.915%)	Data 0.361	(0.361) (0.006)	Loss
(95.312%) * Prec 92.440% best acc: 92.680000 Epoch: [164] [0/391] 0.0012 (0.0012) Prec Epoch: [164] [100/391] 0.0029 (0.0029) Prec Epoch: [164] [200/391]	Time 0.405 (0.405) 100.000% (100.000%) Time 0.055 (0.058) 100.000% (99.915%)	Data 0.361 Data 0.004	(0.361) (0.006)	Loss Loss
(95.312%) * Prec 92.440% best acc: 92.680000 Epoch: [164] [0/391] 0.0012 (0.0012) Prec Epoch: [164] [100/391] 0.0029 (0.0029) Prec Epoch: [164] [200/391]	Time 0.405 (0.405) 100.000% (100.000%) Time 0.055 (0.058) 100.000% (99.915%) Time 0.055 (0.057) 100.000% (99.907%)	Data 0.361 Data 0.004	(0.361) (0.006) (0.005)	Loss Loss
(95.312%) * Prec 92.440% best acc: 92.680000 Epoch: [164] [0/391] 0.0012 (0.0012) Prec Epoch: [164] [100/391] 0.0029 (0.0029) Prec Epoch: [164] [200/391] 0.0004 (0.0031) Prec	Time 0.405 (0.405) 100.000% (100.000%) Time 0.055 (0.058) 100.000% (99.915%) Time 0.055 (0.057) 100.000% (99.907%) Time 0.049 (0.056)	Data 0.361 Data 0.004 Data 0.002	(0.361) (0.006) (0.005)	Loss Loss Loss
(95.312%) * Prec 92.440% best acc: 92.680000 Epoch: [164] [0/391] 0.0012 (0.0012) Prec Epoch: [164] [100/391] 0.0029 (0.0029) Prec Epoch: [164] [200/391] 0.0004 (0.0031) Prec Epoch: [164] [300/391]	Time 0.405 (0.405) 100.000% (100.000%) Time 0.055 (0.058) 100.000% (99.915%) Time 0.055 (0.057) 100.000% (99.907%) Time 0.049 (0.056)	Data 0.361 Data 0.004 Data 0.002	(0.361) (0.006) (0.005)	Loss Loss Loss
(95.312%) * Prec 92.440% best acc: 92.680000 Epoch: [164] [0/391] 0.0012 (0.0012) Prec Epoch: [164] [100/391] 0.0029 (0.0029) Prec Epoch: [164] [200/391] 0.0004 (0.0031) Prec Epoch: [164] [300/391] 0.0003 (0.0030) Prec	Time 0.405 (0.405) 100.000% (100.000%) Time 0.055 (0.058) 100.000% (99.915%) Time 0.055 (0.057) 100.000% (99.907%) Time 0.049 (0.056) 100.000% (99.912%)	Data 0.361 Data 0.004 Data 0.002 Data 0.002	(0.361) (0.006) (0.005) (0.004)	Loss Loss Loss
(95.312%) * Prec 92.440% best acc: 92.680000 Epoch: [164][0/391] 0.0012 (0.0012) Prec Epoch: [164][100/391] 0.0029 (0.0029) Prec Epoch: [164][200/391] 0.0004 (0.0031) Prec Epoch: [164][300/391] 0.0003 (0.0030) Prec Validation starts	Time 0.405 (0.405) 100.000% (100.000%) Time 0.055 (0.058) 100.000% (99.915%) Time 0.055 (0.057) 100.000% (99.907%) Time 0.049 (0.056) 100.000% (99.912%)	Data 0.361 Data 0.004 Data 0.002 Data 0.002	(0.361) (0.006) (0.005) (0.004)	Loss Loss Loss
(95.312%) * Prec 92.440% best acc: 92.680000 Epoch: [164] [0/391] 0.0012 (0.0012) Prec Epoch: [164] [100/391] 0.0029 (0.0029) Prec Epoch: [164] [200/391] 0.0004 (0.0031) Prec Epoch: [164] [300/391] 0.0003 (0.0030) Prec Validation starts Test: [0/79] Time 0.4	Time 0.405 (0.405) 100.000% (100.000%) Time 0.055 (0.058) 100.000% (99.915%) Time 0.055 (0.057) 100.000% (99.907%) Time 0.049 (0.056) 100.000% (99.912%)	Data 0.361 Data 0.004 Data 0.002 Data 0.002	(0.361) (0.006) (0.005) (0.004)	Loss Loss Loss
(95.312%) * Prec 92.440% best acc: 92.680000 Epoch: [164] [0/391] 0.0012 (0.0012) Prec Epoch: [164] [100/391] 0.0029 (0.0029) Prec Epoch: [164] [200/391] 0.0004 (0.0031) Prec Epoch: [164] [300/391] 0.0003 (0.0030) Prec Validation starts Test: [0/79] Time 0.4 (96.875%)	Time 0.405 (0.405) 100.000% (100.000%) Time 0.055 (0.058) 100.000% (99.915%) Time 0.055 (0.057) 100.000% (99.907%) Time 0.049 (0.056) 100.000% (99.912%)	Data 0.361 Data 0.004 Data 0.002 Data 0.002	(0.361) (0.006) (0.005) (0.004)	Loss Loss Loss
(95.312%) * Prec 92.440% best acc: 92.680000 Epoch: [164] [0/391] 0.0012 (0.0012) Prec Epoch: [164] [100/391] 0.0029 (0.0029) Prec Epoch: [164] [200/391] 0.0004 (0.0031) Prec Epoch: [164] [300/391] 0.0003 (0.0030) Prec Validation starts Test: [0/79] Time 0.4 (96.875%) * Prec 92.760%	Time 0.405 (0.405) 100.000% (100.000%) Time 0.055 (0.058) 100.000% (99.915%) Time 0.055 (0.057) 100.000% (99.907%) Time 0.049 (0.056) 100.000% (99.912%) 408 (0.408) Loss	Data 0.361 Data 0.004 Data 0.002 Data 0.002	(0.361) (0.006) (0.005) (0.004) 7) Prec 9	Loss Loss Loss
(95.312%) * Prec 92.440% best acc: 92.680000 Epoch: [164] [0/391] 0.0012 (0.0012) Prec Epoch: [164] [100/391] 0.0029 (0.0029) Prec Epoch: [164] [200/391] 0.0004 (0.0031) Prec Epoch: [164] [300/391] 0.0003 (0.0030) Prec Validation starts Test: [0/79] Time 0.009 (96.875%) * Prec 92.760% best acc: 92.760000 Epoch: [165] [0/391]	Time 0.405 (0.405) 100.000% (100.000%) Time 0.055 (0.058) 100.000% (99.915%) Time 0.055 (0.057) 100.000% (99.907%) Time 0.049 (0.056) 100.000% (99.912%) 408 (0.408) Loss	Data 0.361 Data 0.004 Data 0.002 Data 0.002 0.1337 (0.1337)	(0.361) (0.006) (0.005) (0.004) 7) Prec 9	Loss Loss Loss Loss
(95.312%) * Prec 92.440% best acc: 92.680000 Epoch: [164] [0/391] 0.0012 (0.0012) Prec Epoch: [164] [100/391] 0.0029 (0.0029) Prec Epoch: [164] [200/391] 0.0004 (0.0031) Prec Epoch: [164] [300/391] 0.0003 (0.0030) Prec Validation starts Test: [0/79] Time 0.009 (96.875%) * Prec 92.760% best acc: 92.760000 Epoch: [165] [0/391]	Time 0.405 (0.405) 100.000% (100.000%) Time 0.055 (0.058) 100.000% (99.915%) Time 0.055 (0.057) 100.000% (99.907%) Time 0.049 (0.056) 100.000% (99.912%) 408 (0.408) Loss Time 0.422 (0.422) 100.000% (100.000%)	Data 0.361 Data 0.004 Data 0.002 Data 0.002 0.1337 (0.1337)	(0.361) (0.006) (0.005) (0.004) 7) Prec 9	Loss Loss Loss Loss
(95.312%) * Prec 92.440% best acc: 92.680000 Epoch: [164] [0/391] 0.0012 (0.0012) Prec Epoch: [164] [100/391] 0.0029 (0.0029) Prec Epoch: [164] [200/391] 0.0004 (0.0031) Prec Epoch: [164] [300/391] 0.0003 (0.0030) Prec Validation starts Test: [0/79] Time 0.4 (96.875%) * Prec 92.760% best acc: 92.760000 Epoch: [165] [0/391] 0.0006 (0.0006) Prec Epoch: [165] [100/391]	Time 0.405 (0.405) 100.000% (100.000%) Time 0.055 (0.058) 100.000% (99.915%) Time 0.055 (0.057) 100.000% (99.907%) Time 0.049 (0.056) 100.000% (99.912%) 408 (0.408) Loss Time 0.422 (0.422) 100.000% (100.000%)	Data 0.361 Data 0.004 Data 0.002 Data 0.002 0.1337 (0.1337) Data 0.369	(0.361) (0.006) (0.005) (0.004) 7) Prec 9	Loss Loss Loss Loss Loss
(95.312%) * Prec 92.440% best acc: 92.680000 Epoch: [164] [0/391] 0.0012 (0.0012) Prec Epoch: [164] [100/391] 0.0029 (0.0029) Prec Epoch: [164] [200/391] 0.0004 (0.0031) Prec Epoch: [164] [300/391] 0.0003 (0.0030) Prec Validation starts Test: [0/79] Time 0.4 (96.875%) * Prec 92.760% best acc: 92.760000 Epoch: [165] [0/391] 0.0006 (0.0006) Prec Epoch: [165] [100/391]	Time 0.405 (0.405) 100.000% (100.000%) Time 0.055 (0.058) 100.000% (99.915%) Time 0.055 (0.057) 100.000% (99.907%) Time 0.049 (0.056) 100.000% (99.912%) 408 (0.408) Loss Time 0.422 (0.422) 100.000% (100.000%) Time 0.055 (0.059) 100.000% (99.930%)	Data 0.361 Data 0.004 Data 0.002 Data 0.002 0.1337 (0.1337) Data 0.369	(0.361) (0.006) (0.005) (0.004) 7) Prec 9 (0.369) (0.007)	Loss Loss Loss Loss Loss
(95.312%) * Prec 92.440% best acc: 92.680000 Epoch: [164] [0/391] 0.0012 (0.0012) Prec Epoch: [164] [100/391] 0.0029 (0.0029) Prec Epoch: [164] [200/391] 0.0004 (0.0031) Prec Epoch: [164] [300/391] 0.0003 (0.0030) Prec Validation starts Test: [0/79] Time 0.4 (96.875%) * Prec 92.760% best acc: 92.760000 Epoch: [165] [0/391] 0.0006 (0.0006) Prec Epoch: [165] [100/391] 0.0009 (0.0027) Prec Epoch: [165] [200/391]	Time 0.405 (0.405) 100.000% (100.000%) Time 0.055 (0.058) 100.000% (99.915%) Time 0.055 (0.057) 100.000% (99.907%) Time 0.049 (0.056) 100.000% (99.912%) 408 (0.408) Loss Time 0.422 (0.422) 100.000% (100.000%) Time 0.055 (0.059) 100.000% (99.930%)	Data 0.361 Data 0.004 Data 0.002 Data 0.002 0.1337 (0.1337) Data 0.369 Data 0.002	(0.361) (0.006) (0.005) (0.004) 7) Prec 9 (0.369) (0.007)	Loss Loss Loss Loss Loss Loss Loss
(95.312%) * Prec 92.440% best acc: 92.680000 Epoch: [164] [0/391] 0.0012 (0.0012) Prec Epoch: [164] [100/391] 0.0029 (0.0029) Prec Epoch: [164] [200/391] 0.0004 (0.0031) Prec Epoch: [164] [300/391] 0.0003 (0.0030) Prec Validation starts Test: [0/79] Time 0.4 (96.875%) * Prec 92.760% best acc: 92.760000 Epoch: [165] [0/391] 0.0006 (0.0006) Prec Epoch: [165] [100/391] 0.0009 (0.0027) Prec Epoch: [165] [200/391]	Time 0.405 (0.405) 100.000% (100.000%) Time 0.055 (0.058) 100.000% (99.915%) Time 0.055 (0.057) 100.000% (99.907%) Time 0.049 (0.056) 100.000% (99.912%) 408 (0.408) Loss Time 0.422 (0.422) 100.000% (100.000%) Time 0.055 (0.059) 100.000% (99.930%) Time 0.054 (0.057) 100.000% (99.918%)	Data 0.361 Data 0.004 Data 0.002 Data 0.002 0.1337 (0.1337) Data 0.369 Data 0.002	(0.361) (0.006) (0.005) (0.004) 7) Prec 9 (0.369) (0.007) (0.004)	Loss Loss Loss Loss Loss Loss Loss

0.0014 (0.0030) Prec 10 Validation starts	00.000% (99.914%)		
Test: [0/79] Time 0.330	(0.330) Loss	0.1678 (0.1678	B) Prec 95.312%
(95.312%)			
* Prec 92.600%			
best acc: 92.760000			
Epoch: [166] [0/391] Ti: 0.0008 (0.0008) Prec 10		Data 0.464	(0.464) Loss
Epoch: [166] [100/391] Ti: 0.0005 (0.0027) Prec 10		Data 0.002	(0.008) Loss
Epoch: [166] [200/391] Ti	me 0.055 (0.057)	Data 0.002	(0.005) Loss
0.0011 (0.0028) Prec 10 Epoch: [166][300/391] Ti:		Data 0.003	(0.004) Loss
0.0003 (0.0030) Prec 10		Data 0.005	(0.004)
Validation starts	, 0 1 0 0 70 (0 0 1 0 2 2 70)		
Test: [0/79] Time 0.335	(0.335) Loss	0.1763 (0.1763	B) Prec 95.312%
(95.312%)			
* Prec 92.610%			
best acc: 92.760000			
Epoch: [167] [0/391] Ti	me 0.392 (0.392)	Data 0.353	(0.353) Loss
0.0005 (0.0005) Prec 10	00.000% (100.000%)		
Epoch: [167] [100/391] Ti	me 0.056 (0.058)	Data 0.002	(0.007) Loss
0.0015 (0.0032) Prec 10			
Epoch: [167] [200/391] Ti		Data 0.003	(0.005) Loss
0.0083 (0.0029) Prec 99			
Epoch: [167] [300/391] Ti		Data 0.012	(0.005) Loss
0.0022 (0.0027) Prec 10	0.000% (99.927%)		
Validation starts			
Test: [0/79] Time 0.364	(0.364) Loss	0.1690 (0.1690)) Prec 95.312%
(95.312%) * Prec 92.610%			
best acc: 92.760000			
Epoch: [168] [0/391] Ti: 0.0003 (0.0003) Prec 10	me 0.370 (0.370)	Data 0.328	(0.328) Loss
Epoch: [168] [100/391] Ti		Data 0.002	(0.006) Loss
0.0003 (0.0028) Prec 10	00.000% (99.938%)		
Epoch: [168] [200/391] Ti:	me 0.056 (0.057)	Data 0.006	(0.005) Loss
	00.000% (99.930%)		
Epoch: [168] [300/391] Ti		Data 0.015	(0.004) Loss
0.0029 (0.0028) Prec 10	0.000% (99.927%)		
Validation starts			
Test: [0/79] Time 0.367 (94.531%)	7 (0.367) Loss	0.2001 (0.2001	Prec 94.531%
* Prec 92.690%			
best acc: 92.760000			
Epoch: [169] [0/391] Ti	me 0.441 (0.441)	Data 0.394	(0.394) Loss
0.0009 (0.0009) Prec 10	00.000% (100.000%)		
Epoch: [169] [100/391] Ti	me 0.054 (0.059)	Data 0.002	(0.007) Loss

0.0040 (0.0000)	100 0001/ (00 0151/)				
0.0019 (0.0026) Prec		D-+-	0 000	(0,005)	T
Epoch: [169] [200/391]		рата	0.006	(0.005)	Loss
0.0011 (0.0027) Prec		D-+-	0 000	(0, 004)	T
Epoch: [169] [300/391]		рата	0.002	(0.004)	Loss
0.0031 (0.0025) Prec	100.000% (99.935%)				
Validation starts	205 (0.205) 1	0 4475	(0.4475	-	06 004%
Test: [0/79] Time 0.3	385 (0.385) Loss	0.1475	(0.1478) Prec	96.094%
(96.094%)					
* Prec 92.770%					
best acc: 92.770000	m: 0 400 (0 400)	ъ.	0 000	(0, 000)	.
Epoch: [170][0/391]		Data	0.389	(0.389)	Loss
0.0043 (0.0043) Prec		ъ.	0 000	(0.007)	-
Epoch: [170][100/391]		Data	0.002	(0.007)	Loss
0.0003 (0.0035) Prec		_		()	_
Epoch: [170][200/391]		Data	0.002	(0.005)	Loss
0.0003 (0.0032) Prec					
Epoch: [170][300/391]		Data	0.002	(0.004)	Loss
0.0003 (0.0028) Prec	100.000% (99.927%)				
Validation starts					
Test: [0/79] Time 0.3	350 (0.350) Loss	0.1352	(0.1352)	2) Prec	96.875%
(96.875%)					
* Prec 92.590%					
best acc: 92.770000					
Epoch: [171][0/391]		Data	0.379	(0.379)	Loss
0.0018 (0.0018) Prec	100.000% (100.000%)				
Epoch: [171][100/391]		Data	0.002	(0.006)	Loss
0.0063 (0.0023) Prec	100.000% (99.954%)				
Epoch: [171][200/391]	Time 0.050 (0.057)	Data	0.002	(0.004)	Loss
0.0072 (0.0026) Prec					
Epoch: [171][300/391]	Time 0.053 (0.056)	Data	0.002	(0.004)	Loss
0.0009 (0.0027) Prec	100.000% (99.935%)				
Validation starts					
Test: [0/79] Time 0.3	311 (0.311) Loss	0.1602	(0.1602	2) Prec	95.312%
(95.312%)					
* Prec 92.630%					
best acc: 92.770000					
Epoch: [172][0/391]	Time 0.401 (0.401)	Data	0.362	(0.362)	Loss
0.0003 (0.0003) Prec	100.000% (100.000%)				
Epoch: [172][100/391]	Time 0.057 (0.058)	Data	0.005	(0.006)	Loss
0.0005 (0.0024) Prec	100.000% (99.923%)				
Epoch: [172][200/391]	Time 0.050 (0.057)	Data	0.002	(0.005)	Loss
0.0037 (0.0030) Prec	100.000% (99.914%)				
Epoch: [172][300/391]	Time 0.052 (0.057)	Data	0.002	(0.004)	Loss
0.0003 (0.0029) Prec	100.000% (99.920%)				
Validation starts					
Test: [0/79] Time 0.2	282 (0.282) Loss	0.1271	(0.1271	l) Prec	95.312%
(95.312%)					
* Prec 92.670%					

best acc: 92.770000		
Epoch: [173] [0/391] Tim	ne 0.432 (0.432) Dat	a 0.387 (0.387) Loss
0.0004 (0.0004) Prec 100		2 0.00. (0.00.)
Epoch: [173] [100/391] Tim		a 0.002 (0.007) Loss
0.0156 (0.0019) Prec 99.		2 0.002 (0.00.)
Epoch: [173] [200/391] Tim		a 0.002 (0.005) Loss
0.0006 (0.0021) Prec 100		u 0.002 (0.000)
Epoch: [173] [300/391] Tim		a 0.003 (0.004) Loss
0.0033 (0.0023) Prec 100		d 0.000 (0.001) Lobb
Validation starts	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Test: [0/79] Time 0.352	(0.352) Ingg 0.1099	(0 1099) Prec 96 0949
(96.094%)	(0.002)	(0.1033) 1100 30.031%
* Prec 92.730%		
best acc: 92.770000		
Epoch: [174] [0/391] Tim	no 0 469 (0 469) - Da+	a 0.416 (0.416) Loss
0.0117 (0.0117) Prec 99.		a 0.410 (0.410) Loss
Epoch: [174] [100/391] Tim		a 0.002 (0.007) Loss
0.0004 (0.0028) Prec 100		a 0.002 (0.007) Loss
Epoch: [174] [200/391] Tim		a 0.002 (0.005) Loss
0.0059 (0.0028) Prec 100		a 0.002 (0.003) Loss
Epoch: [174] [300/391] Tim		a 0.002 (0.004) Loss
0.0003 (0.0025) Prec 100		d 0.002 (0.004) LOSS
Validation starts	7.000% (99.940%)	
Test: [0/79] Time 0.298	(0.208) I agg 0.1323	(0 1323) Proc 05 3129
(95.312%)	(0.290) LOSS 0.1323	(0.1323) Fiet 93.312/
* Prec 92.510%		
best acc: 92.770000		
Epoch: [175] [0/391] Tim	20 0 360 (0 360) Do+	a 0.329 (0.329) Loss
0.0002 (0.0002) Prec 100		a 0.329 (0.329) LOSS
Epoch: [175] [100/391] Tim		a 0.002 (0.007) Loss
-		a 0.002 (0.007) Loss
0.0069 (0.0021) Prec 99. Epoch: [175][200/391] Tim		a 0.002 (0.005) Loss
-		a 0.002 (0.005) Loss
0.0006 (0.0029) Prec 100 Epoch: [175][300/391] Tim		- 0 000 (0 004)
-		a 0.002 (0.004) Loss
0.0011 (0.0028) Prec 100 Validation starts	0.000% (99.922%)	
Test. [0/19] Time 0.319	(0.210) I agg 0.1504	(0 1504) Proc 04 521%
(04 E21%)	(0.319) Loss 0.1504	(0.1504) Prec 94.531%
(94.531%)	(0.319) Loss 0.1504	(0.1504) Prec 94.531%
* Prec 92.770%	(0.319) Loss 0.1504	(0.1504) Prec 94.531%
* Prec 92.770% best acc: 92.770000		
* Prec 92.770% best acc: 92.770000 Epoch: [176][0/391] Tim	ne 0.446 (0.446) Dat	(0.1504) Prec 94.531% a 0.406 (0.406) Loss
* Prec 92.770% best acc: 92.770000 Epoch: [176][0/391] Tim 0.0294 (0.0294) Prec 99.	ne 0.446 (0.446) Dat 219% (99.219%)	a 0.406 (0.406) Loss
* Prec 92.770% best acc: 92.770000 Epoch: [176][0/391] Tim 0.0294 (0.0294) Prec 99. Epoch: [176][100/391] Tim	ne 0.446 (0.446) Dat 219% (99.219%) ne 0.055 (0.059) Dat	
* Prec 92.770% best acc: 92.770000 Epoch: [176][0/391] Tim 0.0294 (0.0294) Prec 99. Epoch: [176][100/391] Tim 0.0266 (0.0026) Prec 99.	ne 0.446 (0.446) Dat 219% (99.219%) ne 0.055 (0.059) Dat 219% (99.930%)	a 0.406 (0.406) Loss a 0.002 (0.007) Loss
* Prec 92.770% best acc: 92.770000 Epoch: [176] [0/391] Tim 0.0294 (0.0294) Prec 99. Epoch: [176] [100/391] Tim 0.0266 (0.0026) Prec 99. Epoch: [176] [200/391] Tim	ne 0.446 (0.446) Dat 219% (99.219%) ne 0.055 (0.059) Dat 219% (99.930%) ne 0.066 (0.058) Dat	a 0.406 (0.406) Loss
* Prec 92.770% best acc: 92.770000 Epoch: [176] [0/391] Tim 0.0294 (0.0294) Prec 99. Epoch: [176] [100/391] Tim 0.0266 (0.0026) Prec 99. Epoch: [176] [200/391] Tim 0.0170 (0.0023) Prec 99.	ne 0.446 (0.446) Dat 219% (99.219%) ne 0.055 (0.059) Dat 219% (99.930%) ne 0.066 (0.058) Dat 219% (99.930%)	a 0.406 (0.406) Loss a 0.002 (0.007) Loss a 0.002 (0.005) Loss
* Prec 92.770% best acc: 92.770000 Epoch: [176] [0/391] Tim 0.0294 (0.0294) Prec 99. Epoch: [176] [100/391] Tim 0.0266 (0.0026) Prec 99. Epoch: [176] [200/391] Tim	ne 0.446 (0.446) Dat 219% (99.219%) ne 0.055 (0.059) Dat 219% (99.930%) ne 0.066 (0.058) Dat 219% (99.930%) ne 0.055 (0.057) Dat	a 0.406 (0.406) Loss a 0.002 (0.007) Loss

* Prec 92.690% best acc: 92.77000 Epoch: [177][0/391]	Validation starts Test: [0/79] Time 0.410 (0.410) (95.312%)	Loss	0.1422	(0.1422	2) Prec	95.312%
Epoch: [177] [0/391] Time 0.471 (0.471) Data 0.425 (0.425) Loss 0.0004 (0.0004) Prec 100.000% (100.000%) Data 0.002 (0.007) Loss 0.003 (0.0018) Prec 100.000% (99.930%) Data 0.002 (0.005) Dasa 0.0015 (0.0018) Prec 100.000% (99.938%) Data 0.002 (0.005) Loss 0.0015 (0.0019) Prec 100.000% (99.938%) Data 0.002 (0.004) Loss 0.0015 (0.0019) Prec 100.000% (99.938%) Data 0.002 (0.004) Loss 0.0004 (0.0022) Prec 100.000% (99.938%) Prec 100.000% (100.000%) Prec 100.000% (100.000%) Prec 100.000% (100.000%) Prec 100.000% (99.930%) Prec 100.000% (99.930%) Prec 100.0009 (99.930%) Prec 100.000% (99.930%) Prec 100.000% (99.948%) Prec 100.000% (99.930%) Prec 100.000% (99.930%) Prec 100.000% (99.930%) Prec 100.000% (99.948%) Prec 100.000% (90.000%) Prec 100.00	* Prec 92.690%					
O.0004 (0.0004) Prec 100.000% (100.000%) Epoch: [177] [100/391] Time 0.060 (0.059) Data 0.002 (0.007) Loss 0.0003 (0.0018) Prec 100.000% (99.930%) Epoch: [177] [200/391] Time 0.054 (0.057) Data 0.002 (0.005) Loss 0.0015 (0.0019) Prec 100.000% (99.938%) Epoch: [177] [300/391] Time 0.057 (0.066) Data 0.002 (0.004) Loss 0.0004 (0.0022) Prec 100.000% (99.938%) Epoch: [177] [300/391] Time 0.037 (0.066) Data 0.002 (0.004) Loss 0.0004 (0.0022) Prec 100.000% (99.938%) Epoch: [178] [0/391] Time 0.415 (0.415) Data 0.357 (0.357) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [178] [100/391] Time 0.062 (0.059) Data 0.002 (0.007) Loss 0.0158 (0.0227) Prec 100.000% (99.930%) Epoch: [178] [200/391] Time 0.055 (0.057) Data 0.003 (0.005) Loss 0.0158 (0.021) Prec 99.219% (99.942%) Epoch: [178] [300/391] Time 0.055 (0.057) Data 0.004 (0.005) Loss 0.0158 (0.021) Prec 99.219% (99.948%) Epoch: [179] [0/391] Time 0.046 (0.057) Data 0.004 (0.005) Loss 0.0026 (0.0019) Prec 100.000% (99.948%) Epoch: [179] [0/391] Time 0.046 (0.057) Data 0.004 (0.005) Loss 0.0026 (0.0019) Prec 100.000% (99.948%) Epoch: [179] [10/391] Time 0.046 (0.057) Data 0.004 (0.005) Loss 0.0004 (0.0004) Prec 100.000% (100.000%) Epoch: [179] [10/391] Time 0.055 (0.060) Data 0.012 (0.008) Loss 0.0004 (0.0028) Prec 100.000% (99.948%) Epoch: [179] [10/391] Time 0.055 (0.0607) Data 0.006 (0.005) Loss 0.0004 (0.0022) Prec 100.000% (99.948%) Epoch: [179] [200/391] Time 0.055 (0.067) Data 0.006 (0.005) Loss 0.0006 (0.0021) Prec 99.219% (99.948%) Epoch: [179] [300/391] Time 0.055 (0.067) Data 0.006 (0.006) Epoch: [179] [300/391] Time 0.055 (0.057) Data 0.006 (0.006) Epoch: [179] [300/391] Time 0.055 (0.057) Data 0.006 (0.006) Epoch: [179] [300/391] Time 0.055 (0.057) Data 0.006 (0.006) Epoch: [179] [300/391] Time 0.055 (0.057) Data 0.006 (0.006) Epoch: [179] [300/391					(0.10-)	_
Epoch: [177][100/391]	-		Data	0.425	(0.425)	Loss
O.0003 (0.0018)					(0.000)	_
Epoch: [177][200/391] Time 0.054 (0.057) Data 0.002 (0.005) Loss 0.0015 (0.0019) Prec 100.000% (99.938%) Epoch: [177][300/391] Time 0.057 (0.056) Data 0.002 (0.004) Loss 0.0004 (0.0022) Prec 100.000% (99.938%) Validation starts Test: [0/79] Time 0.380 (0.380) Loss 0.1241 (0.1241) Prec 96.875% (96.875%) Prec 92.660% Prec 100.000% (100.000%) Epoch: [178][0/391] Time 0.415 (0.415) Data 0.357 (0.357) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [178][100/391] Time 0.062 (0.059) Data 0.002 (0.007) Loss 0.0015 (0.0027) Prec 100.000% (99.930%) Epoch: [178][200/391] Time 0.055 (0.057) Data 0.003 (0.005) Loss 0.0115 (0.0021) Prec 100.000% (99.930%) Epoch: [178][300/391] Time 0.055 (0.057) Data 0.004 (0.005) Loss 0.0015 (0.0019) Prec 100.000% (99.948%) Validation starts Test: [0/79] Time 0.363 (0.363) Loss 0.1317 (0.1317) Prec 94.531% (94.531%) Prec 92.680% Prec 100.000% (100.000%) Epoch: [179][0/391] Time 0.0467 (0.467) Data 0.420 (0.420) Loss 0.0044 (0.00028) Prec 100.000% (100.000%) Epoch: [179][100/391] Time 0.055 (0.060) Data 0.012 (0.008) Loss 0.0004 (0.00028) Prec 100.000% (100.000%) Epoch: [179][100/391] Time 0.055 (0.067) Data 0.002 (0.004) Loss 0.0004 (0.00028) Prec 100.000% (99.930%) Epoch: [179][200/391] Time 0.055 (0.067) Data 0.002 (0.004) Loss 0.0004 (0.0028) Prec 100.000% (99.930%) Epoch: [179][300/391] Time 0.055 (0.057) Data 0.002 (0.004) Loss 0.0064 (0.0022) Prec 100.000% (99.930%) Epoch: [179][300/391] Time 0.055 (0.057) Data 0.002 (0.004) Loss 0.0166 (0.0021) Prec 99.219% (99.946%) Prec 100.000%	-		Data	0.002	(0.007)	Loss
O.0015 (0.0019)			_			_
Epoch: [177][300/391]	-		Data	0.002	(0.005)	Loss
O.0004 (0.0022) Prec 100.000% (99.938%) Validation starts Test: [0/79] Time 0.380 (0.380) Loss 0.1241 (0.1241) Prec 96.875% (96.875%) * Prec 92.660% best acc: 92.770000 Epoch: [178] [0/391] Time 0.415 (0.415) Data 0.357 (0.357) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [178] [100/391] Time 0.062 (0.059) Data 0.002 (0.007) Loss 0.0025 (0.0027) Prec 100.000% (99.930%) Epoch: [178] [200/391] Time 0.055 (0.057) Data 0.003 (0.005) Loss 0.0115 (0.0021) Prec 99.219% (99.942%) Epoch: [178] [300/391] Time 0.046 (0.057) Data 0.004 (0.005) Loss 0.0026 (0.0019) Prec 100.000% (99.948%) Validation starts Test: [0/79] Time 0.363 (0.363) Loss 0.1317 (0.1317) Prec 94.531% (94.531%) * Prec 92.680% best acc: 92.770000 Epoch: [179] [0/391] Time 0.467 (0.467) Data 0.420 (0.420) Loss 0.004 (0.0024) Prec 100.000% (100.000%) Epoch: [179] [100/391] Time 0.055 (0.060) Data 0.012 (0.008) Loss 0.0044 (0.0028) Prec 100.000% (199.930%) Epoch: [179] [200/391] Time 0.053 (0.067) Data 0.006 (0.005) Loss 0.0004 (0.0022) Prec 100.000% (99.936%) Epoch: [179] [300/391] Time 0.055 (0.067) Data 0.006 (0.005) Loss 0.0004 (0.0022) Prec 100.000% (99.946%) Epoch: [179] [300/391] Time 0.055 (0.067) Data 0.006 (0.004) Loss 0.0165 (0.0021) Prec 99.219% (99.943%) Validation starts Test: [0/79] Time 0.344 (0.344) Loss 0.1657 (0.1657) Prec 94.531% (94.531%) * Prec 92.650% best acc: 92.770000 Epoch: [180] [0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180] [0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180] [0/391] Time 0.055 (0.059) Data 0.004 (0.008) Loss						
Validation starts Test: [0/79]	-		Data	0.002	(0.004)	Loss
Test: [0/79]		8%)				
# Prec 92.660% best acc: 92.770000 Epoch: [178] [0/391]						
* Prec 92.660% best acc: 92.770000 Epoch: [178] [0/391]	Test: [0/79] Time 0.380 (0.380)	Loss	0.1241	(0.1241	l) Prec	96.875%
Best acc: 92.770000	(96.875%)					
Epoch: [178] [0/391] Time 0.415 (0.415) Data 0.357 (0.357) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Data 0.002 (0.007) Doss 0.0025 (0.0027) Prec 100.000% (99.930%) Data 0.003 (0.005) Loss 0.0115 (0.0021) Prec 99.219% (99.942%) Data 0.004 (0.005) Loss 0.0026 (0.001) Prec 100.000% (99.948%) Data 0.004 (0.005) Loss 0.0026 (0.0019) Prec 100.000% (99.948%) Data 0.004 (0.005) Loss 0.0026 (0.0019) Prec 100.000% (99.948%) Prec 100.000% (99.948%) Prec 100.000% (99.948%) Prec 20.680% Dest acc: 92.770000 Depoch: [179] [0/391] Time 0.467 (0.467) Data 0.420 (0.420) Doss 0.0044 (0.0028) Prec 100.000% (100.000%) Data 0.012 (0.008) Doss 0.0044 (0.0028) Prec 100.000% (100.000%) Data 0.006 (0.005) Doss 0.0004 (0.0022) Prec 100.000% (100.005) Data 0.0006 (0.005) Doss 0.0065 (0.0021) Prec 99.219% (99.943%) Data 0.002 (0.004) Doss 0.0165 (0.0021) Prec 99.219% (99.943%) Prec 92.650% Doss 0.0045 (0.0021) Prec 99.219% (99.943%) Data 0.002 (0.004) Doss 0.0165 (0.0021) Prec 99.219% (99.943%) Data 0.002 (0.004) Doss 0.0165 (0.0021) Prec 99.219% (99.943%) Data 0.002 (0.004) Doss 0.0165 (0.0021) Prec 99.219% (99.943%) Data 0.002 (0.004) Doss 0.0165 (0.0021) Prec 99.219% (99.943%) Data 0.002 (0.004) Doss 0.006 (0.005) Doss 0.006 (0.007) Prec 90.219% (99.943%) Data 0.002 (0.004) Doss 0.006 (0.005) Doss 0.006 (0.007) Prec 90.219% (99.943%) Doss 0.1657 (0.1657) Doss 0.1657 (0.1657) Doss 0.1657 (0.1657) Doss 0.006 (0.007) Prec 90.219% (99.943%) Doss 0.1657 (0.1657) Doss 0.1657 (0.1657) Doss 0.1657 (0.1657) Doss 0.1657 (0.1657) Doss 0.006 (0.007) Prec 90.219% (99.943%) Doss 0.1657 (0.1657) Doss 0.1657 (0.1657) Doss 0.006 (0.007) Prec 90.219% (99.943%) Doss 0.1657 (0.1657) Doss 0.006 (0.007) Prec 90.219% (99.943%) Doss 0.1657 (0.1657) Doss 0.006 (0.006) Doss 0.0	* Prec 92.660%					
0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [178][100/391] Time 0.062 (0.059) Data 0.002 (0.007) Loss 0.0025 (0.0027) Prec 100.000% (99.930%) Epoch: [178][200/391] Time 0.055 (0.057) Data 0.003 (0.005) Loss 0.0115 (0.0021) Prec 99.219% (99.942%) Epoch: [178][300/391] Time 0.046 (0.057) Data 0.004 (0.005) Loss 0.0026 (0.0019) Prec 100.000% (99.948%) Validation starts Test: [0/79] Time 0.363 (0.363) Loss 0.1317 (0.1317) Prec 94.531% (94.531%) * Prec 92.680% best acc: 92.770000 Epoch: [179][100/391] Time 0.467 (0.467) Data 0.420 (0.420) Loss 0.0044 (0.0028) Prec 100.000% (100.000%) Epoch: [179][100/391] Time 0.055 (0.060) Data 0.012 (0.008) Loss 0.0044 (0.0028) Prec 100.000% (99.930%) Epoch: [179][200/391] Time 0.053 (0.057) Data 0.006 (0.005) Loss 0.0044 (0.0022) Prec 100.000% (99.946%) Epoch: [179][300/391] Time 0.055 (0.057) Data 0.002 (0.004) Loss 0.0165 (0.0021) Prec 99.219% (99.943%) Validation starts Test: [0/79] Time 0.344 (0.344) Loss 0.1657 (0.1657) Prec 94.531% (94.531%) * Prec 92.650% best acc: 92.770000 Epoch: [180][0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180][0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180][100/391] Time 0.455 (0.059) Data 0.004 (0.008) Loss 0.0007 (0.0007) Prec 100.000% (100.000%)	best acc: 92.770000					
Epoch: [178] [100/391]	Epoch: [178] [0/391] Time 0.415 (0.4	15)	Data	0.357	(0.357)	Loss
0.0025 (0.0027)	0.0007 (0.0007) Prec 100.000% (100.00	00%)				
Epoch: [178][200/391]	Epoch: [178] [100/391] Time 0.062 (0.08)	59)	Data	0.002	(0.007)	Loss
D.0115 (0.0021) Prec 99.219% (99.942%) Epoch: [178][300/391] Time 0.046 (0.057) Data 0.004 (0.005) Loss 0.0026 (0.0019) Prec 100.000% (99.948%) Validation starts Test: [0/79] Time 0.363 (0.363) Loss 0.1317 (0.1317) Prec 94.531% (94.531%) * Prec 92.680% * Prec 92.680% * Prec 100.000% (100.000%) Epoch: [179][0/391] Time 0.467 (0.467) Data 0.420 (0.420) Loss 0.0004 (0.0004) Prec 100.000% (100.000%) Epoch: [179][100/391] Time 0.055 (0.060) Data 0.012 (0.008) Loss 0.0044 (0.0028) Prec 100.000% (99.930%) Epoch: [179][200/391] Time 0.055 (0.060) Data 0.006 (0.005) Loss 0.0004 (0.0022) Prec 100.000% (99.946%) Epoch: [179][300/391] Time 0.055 (0.057) Data 0.0002 (0.004) Loss 0.0165 (0.0021) Prec 99.219% (99.943%) Validation starts Test: [0/79] Time 0.344 (0.344) Loss 0.1657 (0.1657) Prec 94.531% (94.531%) * Prec 92.650% best acc: 92.770000 Epoch: [180][0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180][0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180][100/391] Time 0.055 (0.059) Data 0.004 (0.008) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180][100/391] Time 0.415 (0.415) Data 0.004 (0.008) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180][100/391] Time 0.055 (0.059) Data 0.004 (0.008) Loss	0.0025 (0.0027) Prec 100.000% (99.936	0%)				
Epoch: [178][300/391] Time 0.046 (0.057) Data 0.004 (0.005) Loss 0.0026 (0.0019) Prec 100.000% (99.948%) Validation starts Test: [0/79] Time 0.363 (0.363) Loss 0.1317 (0.1317) Prec 94.531% (94.531%) * Prec 92.680% best acc: 92.770000 Epoch: [179][0/391] Time 0.467 (0.467) Data 0.420 (0.420) Loss 0.0004 (0.0004) Prec 100.000% (100.000%) Epoch: [179][100/391] Time 0.055 (0.060) Data 0.012 (0.008) Loss 0.0044 (0.0028) Prec 100.000% (99.930%) Epoch: [179][200/391] Time 0.053 (0.057) Data 0.006 (0.005) Loss 0.0004 (0.0022) Prec 100.000% (99.946%) Epoch: [179][300/391] Time 0.055 (0.057) Data 0.002 (0.004) Loss 0.0165 (0.0021) Prec 99.219% (99.943%) Validation starts Test: [0/79] Time 0.344 (0.344) Loss 0.1657 (0.1657) Prec 94.531% (94.531%) * Prec 92.650% best acc: 92.770000 Epoch: [180][0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180][0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180][100/391] Time 0.055 (0.059) Data 0.004 (0.008) Loss	Epoch: [178] [200/391] Time 0.055 (0.08	57)	Data	0.003	(0.005)	Loss
Validation starts Test: [0/79] Time 0.363 (0.363) Loss 0.1317 (0.1317) Prec 94.531% (94.531%) * Prec 92.680% best acc: 92.770000 Epoch: [179] [0/391] Time 0.467 (0.467) Data 0.420 (0.420) Loss 0.0004 (0.0004) Prec 100.000% (100.000%) Epoch: [179] [100/391] Time 0.055 (0.060) Data 0.012 (0.008) Loss 0.0044 (0.0028) Prec 100.000% (99.930%) Epoch: [179] [200/391] Time 0.053 (0.057) Data 0.006 (0.005) Loss 0.0004 (0.0022) Prec 100.000% (99.946%) Epoch: [179] [300/391] Time 0.055 (0.057) Data 0.002 (0.004) Loss 0.0165 (0.0021) Prec 99.219% (99.943%) Validation starts Test: [0/79] Time 0.344 (0.344) Loss 0.1657 (0.1657) Prec 94.531% (94.531%) * Prec 92.650% best acc: 92.770000 Epoch: [180] [0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180] [100/391] Time 0.055 (0.059) Data 0.004 (0.008) Loss	0.0115 (0.0021) Prec 99.219% (99.942)	%)				
Validation starts Test: [0/79] Time 0.363 (0.363) Loss 0.1317 (0.1317) Prec 94.531% (94.531%) * Prec 92.680% best acc: 92.770000 Epoch: [179][0/391] Time 0.467 (0.467) Data 0.420 (0.420) Loss 0.0004 (0.0004) Prec 100.000% (100.000%) Epoch: [179][100/391] Time 0.055 (0.060) Data 0.012 (0.008) Loss 0.0044 (0.0028) Prec 100.000% (99.930%) Epoch: [179][200/391] Time 0.053 (0.057) Data 0.006 (0.005) Loss 0.0004 (0.0022) Prec 100.000% (99.946%) Epoch: [179][300/391] Time 0.055 (0.057) Data 0.002 (0.004) Loss 0.0165 (0.0021) Prec 99.219% (99.943%) Validation starts Test: [0/79] Time 0.344 (0.344) Loss 0.1657 (0.1657) Prec 94.531% (94.531%) * Prec 92.650% best acc: 92.770000 Epoch: [180][0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180][100/391] Time 0.055 (0.059) Data 0.004 (0.008) Loss	Epoch: [178] [300/391] Time 0.046 (0.08	57)	Data	0.004	(0.005)	Loss
Test: [0/79] Time 0.363 (0.363) Loss 0.1317 (0.1317) Prec 94.531% (94.531%) * Prec 92.680% best acc: 92.770000 Epoch: [179][0/391] Time 0.467 (0.467) Data 0.420 (0.420) Loss 0.0004 (0.0004) Prec 100.000% (100.000%) Epoch: [179][100/391] Time 0.055 (0.060) Data 0.012 (0.008) Loss 0.0044 (0.0028) Prec 100.000% (99.930%) Epoch: [179][200/391] Time 0.053 (0.057) Data 0.006 (0.005) Loss 0.0004 (0.0022) Prec 100.000% (99.946%) Epoch: [179][300/391] Time 0.055 (0.057) Data 0.002 (0.004) Loss 0.0165 (0.0021) Prec 99.219% (99.943%) Validation starts Test: [0/79] Time 0.344 (0.344) Loss 0.1657 (0.1657) Prec 94.531% (94.531%) * Prec 92.650% best acc: 92.770000 Epoch: [180][0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180][100/391] Time 0.055 (0.059) Data 0.004 (0.008) Loss	0.0026 (0.0019) Prec 100.000% (99.94	8%)				
<pre>(94.531%) * Prec 92.680% best acc: 92.770000 Epoch: [179][0/391]</pre>	Validation starts					
* Prec 92.680% best acc: 92.770000 Epoch: [179][0/391]	Test: [0/79] Time 0.363 (0.363)	Loss	0.1317	(0.1317	7) Prec	94.531%
<pre>best acc: 92.770000 Epoch: [179][0/391]</pre>	(94.531%)					
Epoch: [179][0/391] Time 0.467 (0.467) Data 0.420 (0.420) Loss 0.0004 (0.0004) Prec 100.000% (100.000%) Epoch: [179][100/391] Time 0.055 (0.060) Data 0.012 (0.008) Loss 0.0044 (0.0028) Prec 100.000% (99.930%) Epoch: [179][200/391] Time 0.053 (0.057) Data 0.006 (0.005) Loss 0.0004 (0.0022) Prec 100.000% (99.946%) Epoch: [179][300/391] Time 0.055 (0.057) Data 0.002 (0.004) Loss 0.0165 (0.0021) Prec 99.219% (99.943%) Validation starts Test: [0/79] Time 0.344 (0.344) Loss 0.1657 (0.1657) Prec 94.531% (94.531%) * Prec 92.650% best acc: 92.770000 Epoch: [180][0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180][100/391] Time 0.055 (0.059) Data 0.004 (0.008) Loss	* Prec 92.680%					
0.0004 (0.0004) Prec 100.000% (100.000%) Epoch: [179][100/391] Time 0.055 (0.060) Data 0.012 (0.008) Loss 0.0044 (0.0028) Prec 100.000% (99.930%) Epoch: [179][200/391] Time 0.053 (0.057) Data 0.006 (0.005) Loss 0.0004 (0.0022) Prec 100.000% (99.946%) Epoch: [179][300/391] Time 0.055 (0.057) Data 0.002 (0.004) Loss 0.0165 (0.0021) Prec 99.219% (99.943%) Validation starts Test: [0/79] Time 0.344 (0.344) Loss 0.1657 (0.1657) Prec 94.531% (94.531%) * Prec 92.650% best acc: 92.770000 Epoch: [180][0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180][100/391] Time 0.055 (0.059) Data 0.004 (0.008) Loss	best acc: 92.770000					
Epoch: [179][100/391] Time 0.055 (0.060) Data 0.012 (0.008) Loss 0.0044 (0.0028) Prec 100.000% (99.930%) Epoch: [179][200/391] Time 0.053 (0.057) Data 0.006 (0.005) Loss 0.0004 (0.0022) Prec 100.000% (99.946%) Epoch: [179][300/391] Time 0.055 (0.057) Data 0.002 (0.004) Loss 0.0165 (0.0021) Prec 99.219% (99.943%) Validation starts Test: [0/79] Time 0.344 (0.344) Loss 0.1657 (0.1657) Prec 94.531% (94.531%) * Prec 92.650% best acc: 92.770000 Epoch: [180][0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180][100/391] Time 0.055 (0.059) Data 0.004 (0.008) Loss	Epoch: [179] [0/391] Time 0.467 (0.46)	67)	Data	0.420	(0.420)	Loss
0.0044 (0.0028) Prec 100.000% (99.930%) Epoch: [179][200/391] Time 0.053 (0.057) Data 0.006 (0.005) Loss 0.0004 (0.0022) Prec 100.000% (99.946%) Epoch: [179][300/391] Time 0.055 (0.057) Data 0.002 (0.004) Loss 0.0165 (0.0021) Prec 99.219% (99.943%) Validation starts Test: [0/79] Time 0.344 (0.344) Loss 0.1657 (0.1657) Prec 94.531% (94.531%) * Prec 92.650% best acc: 92.770000 Epoch: [180][0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180][100/391] Time 0.055 (0.059) Data 0.004 (0.008) Loss	0.0004 (0.0004) Prec 100.000% (100.00	00%)				
0.0044 (0.0028) Prec 100.000% (99.930%) Epoch: [179][200/391] Time 0.053 (0.057) Data 0.006 (0.005) Loss 0.0004 (0.0022) Prec 100.000% (99.946%) Epoch: [179][300/391] Time 0.055 (0.057) Data 0.002 (0.004) Loss 0.0165 (0.0021) Prec 99.219% (99.943%) Validation starts Test: [0/79] Time 0.344 (0.344) Loss 0.1657 (0.1657) Prec 94.531% (94.531%) * Prec 92.650% best acc: 92.770000 Epoch: [180][0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180][100/391] Time 0.055 (0.059) Data 0.004 (0.008) Loss	Epoch: [179][100/391] Time 0.055 (0.00	60)	Data	0.012	(0.008)	Loss
Epoch: [179][200/391] Time 0.053 (0.057) Data 0.006 (0.005) Loss 0.0004 (0.0022) Prec 100.000% (99.946%) Epoch: [179][300/391] Time 0.055 (0.057) Data 0.002 (0.004) Loss 0.0165 (0.0021) Prec 99.219% (99.943%) Validation starts Test: [0/79] Time 0.344 (0.344) Loss 0.1657 (0.1657) Prec 94.531% (94.531%) * Prec 92.650% best acc: 92.770000 Epoch: [180][0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180][100/391] Time 0.055 (0.059) Data 0.004 (0.008) Loss	-					
0.0004 (0.0022) Prec 100.000% (99.946%) Epoch: [179][300/391] Time 0.055 (0.057) Data 0.002 (0.004) Loss 0.0165 (0.0021) Prec 99.219% (99.943%) Validation starts Test: [0/79] Time 0.344 (0.344) Loss 0.1657 (0.1657) Prec 94.531% (94.531%) * Prec 92.650% best acc: 92.770000 Epoch: [180][0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180][100/391] Time 0.055 (0.059) Data 0.004 (0.008) Loss			Data	0.006	(0.005)	Loss
Epoch: [179][300/391] Time 0.055 (0.057) Data 0.002 (0.004) Loss 0.0165 (0.0021) Prec 99.219% (99.943%) Validation starts Test: [0/79] Time 0.344 (0.344) Loss 0.1657 (0.1657) Prec 94.531% (94.531%) * Prec 92.650% best acc: 92.770000 Epoch: [180][0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180][100/391] Time 0.055 (0.059) Data 0.004 (0.008) Loss	-					
0.0165 (0.0021) Prec 99.219% (99.943%) Validation starts Test: [0/79] Time 0.344 (0.344) Loss 0.1657 (0.1657) Prec 94.531% (94.531%) * Prec 92.650% best acc: 92.770000 Epoch: [180] [0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180] [100/391] Time 0.055 (0.059) Data 0.004 (0.008) Loss			Data	0.002	(0.004)	Loss
Validation starts Test: [0/79] Time 0.344 (0.344) Loss 0.1657 (0.1657) Prec 94.531% (94.531%) * Prec 92.650% best acc: 92.770000 Epoch: [180] [0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180] [100/391] Time 0.055 (0.059) Data 0.004 (0.008) Loss	-					
Test: [0/79] Time 0.344 (0.344) Loss 0.1657 (0.1657) Prec 94.531% (94.531%) * Prec 92.650% best acc: 92.770000 Epoch: [180] [0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180] [100/391] Time 0.055 (0.059) Data 0.004 (0.008) Loss						
(94.531%) * Prec 92.650% best acc: 92.770000 Epoch: [180] [0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180] [100/391] Time 0.055 (0.059) Data 0.004 (0.008) Loss		Loss	0.1657	(0.1657	7) Prec	94.531%
* Prec 92.650% best acc: 92.770000 Epoch: [180] [0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180] [100/391] Time 0.055 (0.059) Data 0.004 (0.008) Loss				•	•	,
best acc: 92.770000 Epoch: [180][0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180][100/391] Time 0.055 (0.059) Data 0.004 (0.008) Loss						
Epoch: [180][0/391] Time 0.415 (0.415) Data 0.376 (0.376) Loss 0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180][100/391] Time 0.055 (0.059) Data 0.004 (0.008) Loss						
0.0007 (0.0007) Prec 100.000% (100.000%) Epoch: [180] [100/391] Time 0.055 (0.059) Data 0.004 (0.008) Loss		15)	Data	0.376	(0.376)	Loss
Epoch: [180][100/391] Time 0.055 (0.059) Data 0.004 (0.008) Loss	-		2.30		,	
			Data	0.004	(0.008)	Loss
	-					

Epoch: [180] [200/391] Time 0.055 (0.057)	Data 0.002 (0.005) Loss
0.0005 (0.0023) Prec 100.000% (99.922%) Epoch: [180] [300/391] Time 0.055 (0.056) 0.0006 (0.0022) Prec 100.000% (99.935%)	Data 0.002 (0.004) Loss
	0.1329 (0.1329) Prec 95.312%
(95.312%) * Prec 92.640%	
best acc: 92.770000	
Epoch: [181] [0/391] Time 0.465 (0.465)	Data 0.413 (0.413) Loss
0.0015 (0.0015) Prec 100.000% (100.000%)	
Epoch: [181] [100/391] Time 0.060 (0.060)	Data 0.002 (0.007) Loss
0.0002 (0.0016) Prec 100.000% (99.961%)	
Epoch: [181] [200/391] Time 0.060 (0.057)	Data 0.002 (0.005) Loss
0.0011 (0.0020) Prec 100.000% (99.938%)	D . 0 000 (0 004)
Epoch: [181] [300/391] Time 0.059 (0.057)	Data 0.002 (0.004) Loss
0.0030 (0.0019) Prec 100.000% (99.951%)	
Validation starts Test: [0/79] Time 0.282 (0.282) Loss	0 1020 (0 1020) Proc 06 975%
(96.875%)	0.1259 (0.1259) Prec 96.675%
* Prec 92.640%	
best acc: 92.770000	
Epoch: [182][0/391] Time 0.372 (0.372)	Data 0.328 (0.328) Loss
0.0002 (0.0002) Prec 100.000% (100.000%)	Dava 0.020 (0.020) Hoss
Epoch: [182] [100/391] Time 0.055 (0.058)	Data 0.002 (0.006) Loss
0.0019 (0.0020) Prec 100.000% (99.954%)	2000 01002 (01000) 2022
Epoch: [182] [200/391] Time 0.053 (0.057)	Data 0.002 (0.005) Loss
0.0003 (0.0024) Prec 100.000% (99.926%)	
Epoch: [182][300/391] Time 0.055 (0.056)	Data 0.002 (0.004) Loss
0.0011 (0.0022) Prec 100.000% (99.933%)	
Validation starts	
Test: [0/79] Time 0.374 (0.374) Loss	0.1412 (0.1412) Prec 95.312%
(95.312%)	
* Prec 92.660%	
best acc: 92.770000	
Epoch: [183] [0/391] Time 0.376 (0.376)	Data 0.335 (0.335) Loss
0.0004 (0.0004) Prec 100.000% (100.000%)	
Epoch: [183][100/391] Time 0.054 (0.059)	Data 0.002 (0.007) Loss
0.0006 (0.0018) Prec 100.000% (99.946%)	
Epoch: [183][200/391] Time 0.055 (0.057)	Data 0.002 (0.005) Loss
0.0003 (0.0021) Prec 100.000% (99.946%)	
Epoch: [183][300/391] Time 0.059 (0.056)	Data 0.002 (0.004) Loss
0.0047 (0.0021) Prec 100.000% (99.938%)	
Validation starts	
Test: [0/79] Time 0.315 (0.315) Loss	0.1648 (0.1648) Prec 94.531%
(94.531%)	
* Prec 92.610%	
best acc: 92.770000	

Epoch: [184] [0/391] Time 0.507 (0.507) Data 0.457 (0.457) Los 0.0008 (0.0008) Prec 100.000% (100.000%)	SS
Epoch: [184] [100/391] Time 0.056 (0.060) Data 0.002 (0.007) Los 0.0003 (0.0015) Prec 100.000% (99.969%)	ss
Epoch: [184] [200/391] Time 0.065 (0.057) Data 0.002 (0.005) Los 0.0006 (0.0017) Prec 100.000% (99.965%)	SS
Epoch: [184] [300/391] Time 0.059 (0.057) Data 0.007 (0.004) Los 0.0006 (0.0017) Prec 100.000% (99.961%)	ss
Validation starts	
Test: [0/79] Time 0.329 (0.329) Loss 0.1735 (0.1735) Prec 96.094	4%
(96.094%)	
* Prec 92.740%	
best acc: 92.770000	
Epoch: [185][0/391] Time 0.365 (0.365) Data 0.326 (0.326) Los	SS
0.0014 (0.0014) Prec 100.000% (100.000%)	
Epoch: [185][100/391] Time 0.051 (0.058) Data 0.005 (0.007) Los	SS
0.0006 (0.0019) Prec 100.000% (99.977%)	
Epoch: [185][200/391] Time 0.051 (0.057) Data 0.002 (0.004) Los	SS
0.0002 (0.0019) Prec 100.000% (99.961%)	
Epoch: [185] [300/391] Time 0.058 (0.056) Data 0.002 (0.004) Los	SS
0.0006 (0.0019) Prec 100.000% (99.953%)	
Validation starts	
Test: [0/79] Time 0.364 (0.364) Loss 0.1630 (0.1630) Prec 95.312	2%
(95.312%)	
* Prec 92.710%	
best acc: 92.770000	
Epoch: [186] [0/391] Time 0.356 (0.356) Data 0.317 (0.317) Los	SS
0.0008 (0.0008) Prec 100.000% (100.000%)	
Epoch: [186] [100/391] Time 0.049 (0.059) Data 0.002 (0.007) Los	SS
0.0010 (0.0026) Prec 100.000% (99.930%)	
Epoch: [186] [200/391] Time 0.059 (0.057) Data 0.003 (0.005) Los	SS
0.0006 (0.0023) Prec 100.000% (99.946%)	
Epoch: [186] [300/391] Time 0.055 (0.056) Data 0.002 (0.004) Los	SS
0.0003 (0.0021) Prec 100.000% (99.956%)	
Validation starts	
Test: [0/79] Time 0.421 (0.421) Loss 0.1306 (0.1306) Prec 96.094	4%
(96.094%)	
* Prec 92.650%	
best acc: 92.770000	
Epoch: [187] [0/391] Time 0.410 (0.410) Data 0.365 (0.365) Los	99
0.0012 (0.0012) Prec 100.000% (100.000%)	00
0.0012 (0.0012)	00
Epoch: [187] [100/391] Time 0.055 (0.059) Data 0.008 (0.007) Los	
Epoch: [187][100/391] Time 0.055 (0.059) Data 0.008 (0.007) Los	SS
Epoch: [187][100/391] Time 0.055 (0.059) Data 0.008 (0.007) Los 0.0010 (0.0019) Prec 100.000% (99.938%)	SS
Epoch: [187][100/391] Time 0.055 (0.059) Data 0.008 (0.007) Los 0.0010 (0.0019) Prec 100.000% (99.938%) Epoch: [187][200/391] Time 0.053 (0.057) Data 0.002 (0.005) Los	SS SS
Epoch: [187][100/391] Time 0.055 (0.059) Data 0.008 (0.007) Los 0.0010 (0.0019) Prec 100.000% (99.938%) Epoch: [187][200/391] Time 0.053 (0.057) Data 0.002 (0.005) Los 0.0002 (0.0023) Prec 100.000% (99.930%)	SS SS

* Prec 92.700% best acc: 92.770000 Epoch: [188] [0/391] Time 0.454 (0.454) Data 0.400 (0.400) Loss 0.0007 (0.0007) Prec 100.000% (100.000%)
Epoch: [188][0/391] Time 0.454 (0.454) Data 0.400 (0.400) Loss 0.0007 (0.0007) Prec 100.000% (100.000%)
0.0007 (0.0007) Prec 100.000% (100.000%)
Epoch: [188] [100/391] Time 0.056 (0.060) Data 0.002 (0.007) Loss
0.0001 (0.0013) Prec 100.000% (99.977%)
Epoch: [188] [200/391] Time 0.054 (0.058) Data 0.001 (0.005) Loss
0.0003 (0.0014) Prec 100.000% (99.973%)
Epoch: [188] [300/391] Time 0.050 (0.057) Data 0.002 (0.004) Loss
0.0017 (0.0014) Prec 100.000% (99.964%)
Validation starts
Test: [0/79] Time 0.331 (0.331) Loss 0.1628 (0.1628) Prec 96.094%
(96.094%)
* Prec 92.830%
best acc: 92.830000
Epoch: [189] [0/391] Time 0.377 (0.377) Data 0.334 (0.334) Loss
0.0001 (0.0001) Prec 100.000% (100.000%)
Epoch: [189][100/391] Time 0.079 (0.059) Data 0.002 (0.007) Loss
0.0004 (0.0012) Prec 100.000% (99.961%)
Epoch: [189] [200/391] Time 0.054 (0.057) Data 0.002 (0.005) Loss
0.0019 (0.0012) Prec 100.000% (99.973%)
Epoch: [189] [300/391] Time 0.054 (0.057) Data 0.002 (0.004) Loss
0.0002 (0.0013) Prec 100.000% (99.958%)
Validation starts
Test: [0/79] Time 0.358 (0.358) Loss 0.1415 (0.1415) Prec 96.875%
(96.875%)
* Prec 92.680%
best acc: 92.830000
Epoch: [190] [0/391] Time 0.454 (0.454) Data 0.411 (0.411) Loss
0.0002 (0.0002) Prec 100.000% (100.000%)
Epoch: [190] [100/391] Time 0.051 (0.059) Data 0.002 (0.007) Loss
0.0003 (0.0016) Prec 100.000% (99.946%)
Epoch: [190] [200/391] Time 0.055 (0.057) Data 0.002 (0.005) Loss
0.0002 (0.0015) Prec 100.000% (99.957%)
Epoch: [190] [300/391] Time 0.055 (0.057) Data 0.002 (0.004) Loss
0.0005 (0.0014) Prec 100.000% (99.961%)
Validation starts
Test: [0/79] Time 0.318 (0.318) Loss 0.1052 (0.1052) Prec 97.656%
(97.656%)
* Prec 92.680%
best acc: 92.830000
Epoch: [191] [0/391] Time 0.396 (0.396) Data 0.352 (0.352) Loss
0.0174 (0.0174) Prec 99.219% (99.219%)
Epoch: [191] [100/391] Time 0.063 (0.059) Data 0.002 (0.006) Loss
0.0013 (0.0017) Prec 100.000% (99.954%)
Epoch: [191] [200/391] Time 0.053 (0.057) Data 0.002 (0.004) Loss

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0.0002 (0.0017)
                   Prec 100.000% (99.961%)
                                                 Data 0.002 (0.004)
Epoch: [191] [300/391]
                        Time 0.057 (0.056)
                                                                          Loss
0.0002 (0.0017)
                   Prec 100.000% (99.956%)
Validation starts
                                         Loss 0.1411 (0.1411)
Test: [0/79]
                Time 0.377 (0.377)
                                                                  Prec 97.656%
(97.656\%)
 * Prec 92.760%
best acc: 92.830000
Epoch: [192] [0/391]
                        Time 0.455 (0.455)
                                                 Data 0.411 (0.411)
                                                                          Loss
0.0004 (0.0004)
                   Prec 100.000% (100.000%)
Epoch: [192] [100/391]
                                                 Data 0.002 (0.007)
                                                                          Loss
                        Time 0.055 (0.060)
0.0115 (0.0013)
                   Prec 99.219% (99.954%)
Epoch: [192] [200/391]
                        Time 0.048 (0.057)
                                                 Data 0.002 (0.005)
                                                                          Loss
0.0003 (0.0014)
                   Prec 100.000% (99.953%)
Epoch: [192] [300/391]
                        Time 0.050 (0.057)
                                                 Data 0.005 (0.004)
                                                                          Loss
0.0006 (0.0016)
                   Prec 100.000% (99.951%)
Validation starts
Test: [0/79]
                Time 0.340 (0.340)
                                         Loss 0.1341 (0.1341)
                                                                  Prec 97.656%
(97.656\%)
* Prec 92.840%
best acc: 92.840000
Epoch: [193] [0/391]
                        Time 0.426 (0.426)
                                                 Data 0.375 (0.375)
                                                                          Loss
0.0002 (0.0002)
                   Prec 100.000% (100.000%)
Epoch: [193] [100/391]
                        Time 0.061 (0.059)
                                                 Data 0.002 (0.007)
                                                                          Loss
0.0001 (0.0017)
                   Prec 100.000% (99.946%)
Epoch: [193] [200/391]
                        Time 0.059 (0.057)
                                                 Data 0.002 (0.005)
                                                                          Loss
0.0002 (0.0017)
                   Prec 100.000% (99.949%)
Epoch: [193] [300/391]
                        Time 0.059 (0.057)
                                                 Data 0.002 (0.004)
                                                                          Loss
0.0007 (0.0016)
                   Prec 100.000% (99.958%)
Validation starts
Test: [0/79]
                Time 0.380 (0.380)
                                         Loss 0.1365 (0.1365)
                                                                  Prec 96.094%
(96.094\%)
* Prec 92.740%
best acc: 92.840000
Epoch: [194] [0/391]
                        Time 0.427 (0.427)
                                                 Data 0.388 (0.388)
                                                                          Loss
0.0002 (0.0002)
                   Prec 100.000% (100.000%)
Epoch: [194] [100/391]
                        Time 0.057 (0.059)
                                                 Data 0.001 (0.006)
                                                                          Loss
0.0002 (0.0019)
                   Prec 100.000% (99.961%)
Epoch: [194] [200/391]
                        Time 0.055 (0.057)
                                                 Data 0.002 (0.004)
                                                                          Loss
0.0004 (0.0017)
                   Prec 100.000% (99.961%)
Epoch: [194] [300/391]
                        Time 0.054 (0.056)
                                                 Data 0.002 (0.003)
                                                                          Loss
0.0006 (0.0015)
                   Prec 100.000% (99.971%)
Validation starts
Test: [0/79]
                                         Loss 0.1224 (0.1224)
                                                                  Prec 96.875%
                Time 0.368 (0.368)
(96.875\%)
 * Prec 92.790%
best acc: 92.840000
Epoch: [195] [0/391]
                        Time 0.475 (0.475)
                                                 Data 0.420 (0.420)
                                                                          Loss
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0.0002 (0.0002) Prec 100.000% (100.000%) Epoch: [195] [100/391] Time 0.054 (0.060) Data 0.002 (0.008) Loss
Epoch: [195] [100/391] Time 0.054 (0.060) Data 0.002 (0.008) Loss 0.0003 (0.0014) Prec 100.000% (99.961%)
Epoch: [195] [200/391] Time 0.069 (0.057) Data 0.002 (0.005) Loss
0.0003 (0.0016) Prec 100.000% (99.953%)
Epoch: [195] [300/391] Time 0.052 (0.057) Data 0.002 (0.004) Loss
0.0004 (0.0016) Prec 100.000% (99.953%)
Validation starts
Test: [0/79] Time 0.438 (0.438) Loss 0.1384 (0.1384) Prec 96.875%
(96.875%)
* Prec 92.670%
best acc: 92.840000
Epoch: [196] [0/391] Time 0.364 (0.364) Data 0.325 (0.325) Loss
0.0008 (0.0008) Prec 100.000% (100.000%)
Epoch: [196] [100/391] Time 0.052 (0.058) Data 0.002 (0.006) Loss
0.0002 (0.0013) Prec 100.000% (99.977%)
Epoch: [196] [200/391] Time 0.056 (0.057) Data 0.003 (0.005) Loss
0.0003 (0.0013) Prec 100.000% (99.965%)
Epoch: [196] [300/391] Time 0.065 (0.056) Data 0.002 (0.004) Loss
0.0004 (0.0012) Prec 100.000% (99.969%)
Validation starts
Test: [0/79] Time 0.325 (0.325) Loss 0.1623 (0.1623) Prec 96.094%
(96.094%)
* Prec 92.750%
best acc: 92.840000
Epoch: [197] [0/391] Time 0.416 (0.416) Data 0.377 (0.377) Loss
0.0002 (0.0002) Prec 100.000% (100.000%)
Epoch: [197] [100/391] Time 0.055 (0.059) Data 0.002 (0.007) Loss
0.0005 (0.0011) Prec 100.000% (99.969%)
Epoch: [197][200/391] Time 0.061 (0.057) Data 0.002 (0.005) Loss
0.0004 (0.0012) Prec 100.000% (99.977%)
Epoch: [197][300/391] Time 0.051 (0.057) Data 0.006 (0.005) Loss
0.0003 (0.0014) Prec 100.000% (99.969%)
Validation starts
Test: [0/79] Time 0.395 (0.395) Loss 0.1631 (0.1631) Prec 94.531%
(94.531%)
* Prec 92.450%
best acc: 92.840000
Epoch: [198] [0/391] Time 0.471 (0.471) Data 0.427 (0.427) Loss
0.0017 (0.0017) Prec 100.000% (100.000%)
Epoch: [198] [100/391] Time 0.062 (0.060) Data 0.002 (0.007) Loss
0.0001 (0.0013) Prec 100.000% (99.969%)
Epoch: [198] [200/391] Time 0.057 (0.057) Data 0.014 (0.005) Loss
0.0007 (0.0014) Prec 100.000% (99.969%)
Epoch: [198] [300/391] Time 0.056 (0.057) Data 0.002 (0.004) Loss
0.0002 (0.0013) Prec 100.000% (99.969%)
Validation starts
Test: [0/79] Time 0.398 (0.398) Loss 0.1126 (0.1126) Prec 96.094%

(96.094%)	
* Prec 92.790%	
best acc: 92.840000	
Epoch: [199][0/391] Time 0.484 (0.484)	Data 0.435 (0.435) Loss
0.0004 (0.0004) Prec 100.000% (100.000%)	
Epoch: [199][100/391] Time 0.055 (0.060)	Data 0.002 (0.008) Loss
0.0011 (0.0015) Prec 100.000% (99.969%)	
Epoch: [199][200/391] Time 0.055 (0.058)	Data 0.002 (0.005) Loss
0.0036 (0.0016) Prec 100.000% (99.965%)	
Epoch: [199][300/391] Time 0.048 (0.057)	Data 0.002 (0.004) Loss
0.0004 (0.0016) Prec 100.000% (99.964%)	
Validation starts	
Test: [0/79] Time 0.340 (0.340) Loss	0.1207 (0.1207) Prec 96.094%
(96.094%)	
* Prec 92.680%	
best acc: 92.840000	
Epoch: [200][0/391] Time 0.430 (0.430)	Data 0.382 (0.382) Loss
0.0079 (0.0079) Prec 99.219% (99.219%)	
Epoch: [200][100/391] Time 0.055 (0.060)	Data 0.002 (0.007) Loss
0.0290 (0.0021) Prec 99.219% (99.923%)	
Epoch: [200][200/391] Time 0.065 (0.058)	Data 0.002 (0.005) Loss
0.0003 (0.0019) Prec 100.000% (99.934%)	
Epoch: [200][300/391] Time 0.061 (0.057)	Data 0.002 (0.004) Loss
0.0005 (0.0020) Prec 100.000% (99.935%)	
Validation starts	
m · [0/m0] m · 0.000 (0.000)	
Test: [0/79] Time 0.383 (0.383) Loss	0.1169 (0.1169) Prec 96.094%
Test: [0/79] Time 0.383 (0.383) Loss (96.094%)	0.1169 (0.1169) Prec 96.094%
	0.1169 (0.1169) Prec 96.094%
(96.094%)	0.1169 (0.1169) Prec 96.094%
(96.094%) * Prec 92.590%	
(96.094%) * Prec 92.590% best acc: 92.840000	
(96.094%) * Prec 92.590% best acc: 92.840000 Epoch: [201][0/391] Time 0.515 (0.515)	
(96.094%) * Prec 92.590% best acc: 92.840000 Epoch: [201][0/391] Time 0.515 (0.515) 0.0006 (0.0006) Prec 100.000% (100.000%)	Data 0.468 (0.468) Loss
(96.094%) * Prec 92.590% best acc: 92.840000 Epoch: [201] [0/391] Time 0.515 (0.515) 0.0006 (0.0006) Prec 100.000% (100.000%) Epoch: [201] [100/391] Time 0.054 (0.060)	Data 0.468 (0.468) Loss Data 0.002 (0.008) Loss
(96.094%) * Prec 92.590% best acc: 92.840000 Epoch: [201] [0/391] Time 0.515 (0.515) 0.0006 (0.0006) Prec 100.000% (100.000%) Epoch: [201] [100/391] Time 0.054 (0.060) 0.0005 (0.0010) Prec 100.000% (99.969%)	Data 0.468 (0.468) Loss Data 0.002 (0.008) Loss
(96.094%) * Prec 92.590% best acc: 92.840000 Epoch: [201][0/391] Time 0.515 (0.515) 0.0006 (0.0006) Prec 100.000% (100.000%) Epoch: [201][100/391] Time 0.054 (0.060) 0.0005 (0.0010) Prec 100.000% (99.969%) Epoch: [201][200/391] Time 0.053 (0.058)	Data 0.468 (0.468) Loss Data 0.002 (0.008) Loss Data 0.002 (0.005) Loss
(96.094%) * Prec 92.590% best acc: 92.840000 Epoch: [201][0/391] Time 0.515 (0.515) 0.0006 (0.0006) Prec 100.000% (100.000%) Epoch: [201][100/391] Time 0.054 (0.060) 0.0005 (0.0010) Prec 100.000% (99.969%) Epoch: [201][200/391] Time 0.053 (0.058) 0.0016 (0.0013) Prec 100.000% (99.953%)	Data 0.468 (0.468) Loss Data 0.002 (0.008) Loss Data 0.002 (0.005) Loss
(96.094%) * Prec 92.590% best acc: 92.840000 Epoch: [201][0/391] Time 0.515 (0.515) 0.0006 (0.0006) Prec 100.000% (100.000%) Epoch: [201][100/391] Time 0.054 (0.060) 0.0005 (0.0010) Prec 100.000% (99.969%) Epoch: [201][200/391] Time 0.053 (0.058) 0.0016 (0.0013) Prec 100.000% (99.953%) Epoch: [201][300/391] Time 0.054 (0.057)	Data 0.468 (0.468) Loss Data 0.002 (0.008) Loss Data 0.002 (0.005) Loss
(96.094%) * Prec 92.590% best acc: 92.840000 Epoch: [201][0/391] Time 0.515 (0.515) 0.0006 (0.0006) Prec 100.000% (100.000%) Epoch: [201][100/391] Time 0.054 (0.060) 0.0005 (0.0010) Prec 100.000% (99.969%) Epoch: [201][200/391] Time 0.053 (0.058) 0.0016 (0.0013) Prec 100.000% (99.953%) Epoch: [201][300/391] Time 0.054 (0.057) 0.0002 (0.0015) Prec 100.000% (99.948%)	Data 0.468 (0.468) Loss Data 0.002 (0.008) Loss Data 0.002 (0.005) Loss Data 0.004 (0.004) Loss
(96.094%) * Prec 92.590% best acc: 92.840000 Epoch: [201][0/391] Time 0.515 (0.515) 0.0006 (0.0006) Prec 100.000% (100.000%) Epoch: [201][100/391] Time 0.054 (0.060) 0.0005 (0.0010) Prec 100.000% (99.969%) Epoch: [201][200/391] Time 0.053 (0.058) 0.0016 (0.0013) Prec 100.000% (99.953%) Epoch: [201][300/391] Time 0.054 (0.057) 0.0002 (0.0015) Prec 100.000% (99.948%) Validation starts	Data 0.468 (0.468) Loss Data 0.002 (0.008) Loss Data 0.002 (0.005) Loss Data 0.004 (0.004) Loss
(96.094%) * Prec 92.590% best acc: 92.840000 Epoch: [201][0/391] Time 0.515 (0.515) 0.0006 (0.0006) Prec 100.000% (100.000%) Epoch: [201][100/391] Time 0.054 (0.060) 0.0005 (0.0010) Prec 100.000% (99.969%) Epoch: [201][200/391] Time 0.053 (0.058) 0.0016 (0.0013) Prec 100.000% (99.953%) Epoch: [201][300/391] Time 0.054 (0.057) 0.0002 (0.0015) Prec 100.000% (99.948%) Validation starts Test: [0/79] Time 0.356 (0.356) Loss	Data 0.468 (0.468) Loss Data 0.002 (0.008) Loss Data 0.002 (0.005) Loss Data 0.004 (0.004) Loss
(96.094%) * Prec 92.590% best acc: 92.840000 Epoch: [201][0/391] Time 0.515 (0.515) 0.0006 (0.0006) Prec 100.000% (100.000%) Epoch: [201][100/391] Time 0.054 (0.060) 0.0005 (0.0010) Prec 100.000% (99.969%) Epoch: [201][200/391] Time 0.053 (0.058) 0.0016 (0.0013) Prec 100.000% (99.953%) Epoch: [201][300/391] Time 0.054 (0.057) 0.0002 (0.0015) Prec 100.000% (99.948%) Validation starts Test: [0/79] Time 0.356 (0.356) Loss (96.875%)	Data 0.468 (0.468) Loss Data 0.002 (0.008) Loss Data 0.002 (0.005) Loss Data 0.004 (0.004) Loss
(96.094%) * Prec 92.590% best acc: 92.840000 Epoch: [201][0/391] Time 0.515 (0.515) 0.0006 (0.0006) Prec 100.000% (100.000%) Epoch: [201][100/391] Time 0.054 (0.060) 0.0005 (0.0010) Prec 100.000% (99.969%) Epoch: [201][200/391] Time 0.053 (0.058) 0.0016 (0.0013) Prec 100.000% (99.953%) Epoch: [201][300/391] Time 0.054 (0.057) 0.0002 (0.0015) Prec 100.000% (99.948%) Validation starts Test: [0/79] Time 0.356 (0.356) Loss (96.875%) * Prec 92.750%	Data 0.468 (0.468) Loss Data 0.002 (0.008) Loss Data 0.002 (0.005) Loss Data 0.004 (0.004) Loss 0.1178 (0.1178) Prec 96.875%
(96.094%) * Prec 92.590% best acc: 92.840000 Epoch: [201][0/391] Time 0.515 (0.515) 0.0006 (0.0006) Prec 100.000% (100.000%) Epoch: [201][100/391] Time 0.054 (0.060) 0.0005 (0.0010) Prec 100.000% (99.969%) Epoch: [201][200/391] Time 0.053 (0.058) 0.0016 (0.0013) Prec 100.000% (99.953%) Epoch: [201][300/391] Time 0.054 (0.057) 0.0002 (0.0015) Prec 100.000% (99.948%) Validation starts Test: [0/79] Time 0.356 (0.356) Loss (96.875%) * Prec 92.750% best acc: 92.840000	Data 0.468 (0.468) Loss Data 0.002 (0.008) Loss Data 0.002 (0.005) Loss Data 0.004 (0.004) Loss 0.1178 (0.1178) Prec 96.875%
(96.094%) * Prec 92.590% best acc: 92.840000 Epoch: [201][0/391] Time 0.515 (0.515) 0.0006 (0.0006) Prec 100.000% (100.000%) Epoch: [201][100/391] Time 0.054 (0.060) 0.0005 (0.0010) Prec 100.000% (99.969%) Epoch: [201][200/391] Time 0.053 (0.058) 0.0016 (0.0013) Prec 100.000% (99.953%) Epoch: [201][300/391] Time 0.054 (0.057) 0.0002 (0.0015) Prec 100.000% (99.948%) Validation starts Test: [0/79] Time 0.356 (0.356) Loss (96.875%) * Prec 92.750% best acc: 92.840000 Epoch: [202][0/391] Time 0.427 (0.427)	Data 0.468 (0.468) Loss Data 0.002 (0.008) Loss Data 0.002 (0.005) Loss Data 0.004 (0.004) Loss 0.1178 (0.1178) Prec 96.875%
(96.094%) * Prec 92.590% best acc: 92.840000 Epoch: [201][0/391] Time 0.515 (0.515) 0.0006 (0.0006) Prec 100.000% (100.000%) Epoch: [201][100/391] Time 0.054 (0.060) 0.0005 (0.0010) Prec 100.000% (99.969%) Epoch: [201][200/391] Time 0.053 (0.058) 0.0016 (0.0013) Prec 100.000% (99.953%) Epoch: [201][300/391] Time 0.054 (0.057) 0.0002 (0.0015) Prec 100.000% (99.948%) Validation starts Test: [0/79] Time 0.356 (0.356) Loss (96.875%) * Prec 92.750% best acc: 92.840000 Epoch: [202][0/391] Time 0.427 (0.427) 0.0008 (0.0008) Prec 100.000% (100.000%)	Data 0.468 (0.468) Loss Data 0.002 (0.008) Loss Data 0.002 (0.005) Loss Data 0.004 (0.004) Loss 0.1178 (0.1178) Prec 96.875% Data 0.387 (0.387) Loss
(96.094%) * Prec 92.590% best acc: 92.840000 Epoch: [201][0/391] Time 0.515 (0.515) 0.0006 (0.0006) Prec 100.000% (100.000%) Epoch: [201][100/391] Time 0.054 (0.060) 0.0005 (0.0010) Prec 100.000% (99.969%) Epoch: [201][200/391] Time 0.053 (0.058) 0.0016 (0.0013) Prec 100.000% (99.953%) Epoch: [201][300/391] Time 0.054 (0.057) 0.0002 (0.0015) Prec 100.000% (99.948%) Validation starts Test: [0/79] Time 0.356 (0.356) Loss (96.875%) * Prec 92.750% best acc: 92.840000 Epoch: [202][0/391] Time 0.427 (0.427) 0.0008 (0.0008) Prec 100.000% (100.000%) Epoch: [202][100/391] Time 0.059 (0.059)	Data 0.468 (0.468) Loss Data 0.002 (0.008) Loss Data 0.002 (0.005) Loss Data 0.004 (0.004) Loss 0.1178 (0.1178) Prec 96.875% Data 0.387 (0.387) Loss Data 0.002 (0.006) Loss
<pre>(96.094%) * Prec 92.590% best acc: 92.840000 Epoch: [201][0/391]</pre>	Data 0.468 (0.468) Loss Data 0.002 (0.008) Loss Data 0.002 (0.005) Loss Data 0.004 (0.004) Loss 0.1178 (0.1178) Prec 96.875% Data 0.387 (0.387) Loss Data 0.002 (0.006) Loss

Epoch: [202][300/391] Time 0.055 (0.057) 0.0002 (0.0015) Prec 100.000% (99.956%)	Data 0.002 (0.004) Loss	s
Validation starts Test: [0/79] Time 0.360 (0.360) Loss (96.094%)	0.1287 (0.1287) Prec 96.094	%
* Prec 92.610%		
best acc: 92.840000		
Epoch: [203][0/391] Time 0.455 (0.455)	Data 0.414 (0.414) Loss	s
0.0008 (0.0008) Prec 100.000% (100.000%)		
Epoch: [203][100/391] Time 0.054 (0.059)	Data 0.002 (0.007) Loss	s
0.0003 (0.0007) Prec 100.000% (99.992%)		
Epoch: [203][200/391] Time 0.054 (0.058)	Data 0.006 (0.005) Loss	s
0.0001 (0.0011) Prec 100.000% (99.969%)		
Epoch: [203][300/391] Time 0.052 (0.057)	Data 0.005 (0.005) Los	S
0.0070 (0.0012) Prec 99.219% (99.971%)		
Validation starts		
Test: [0/79] Time 0.392 (0.392) Loss	0.1270 (0.1270) Prec 96.094	%
(96.094%)		
* Prec 92.820%		
best acc: 92.840000		
Epoch: [204] [0/391] Time 0.472 (0.472)	Data 0.430 (0.430) Loss	S
0.0004 (0.0004) Prec 100.000% (100.000%)		
Epoch: [204][100/391] Time 0.047 (0.060)	Data 0.006 (0.008) Loss	S
0.0005 (0.0016) Prec 100.000% (99.961%)		
Epoch: [204][200/391] Time 0.051 (0.058)	Data 0.002 (0.005) Loss	S
0.0007 (0.0014) Prec 100.000% (99.961%)		
Epoch: [204][300/391] Time 0.048 (0.057)	Data 0.002 (0.004) Los	S
0.0003 (0.0012) Prec 100.000% (99.966%)		
Validation starts		
Test: [0/79] Time 0.335 (0.335) Loss	0.1198 (0.1198) Prec 96.875	%
(96.875%)		
* Prec 92.630%		
best acc: 92.840000		
Epoch: [205][0/391] Time 0.433 (0.433)	Data 0.380 (0.380) Loss	S
0.0020 (0.0020) Prec 100.000% (100.000%)		
Epoch: [205][100/391] Time 0.052 (0.059)	Data 0.007 (0.008) Loss	S
0.0109 (0.0013) Prec 99.219% (99.961%)		
Epoch: [205] [200/391] Time 0.054 (0.057)	Data 0.005 (0.006) Loss	S
0.0006 (0.0017) Prec 100.000% (99.949%)		
Epoch: [205][300/391] Time 0.055 (0.057)	Data 0.002 (0.005) Loss	S
0.0006 (0.0014) Prec 100.000% (99.958%)		
Validation starts		
Test: [0/79] Time 0.356 (0.356) Loss	0.1129 (0.1129) Prec 96.094	%
(96.094%)		
* Prec 92.840%		
best acc: 92.840000		
Epoch: [206] [0/391] Time 0.423 (0.423)	Data 0.379 (0.379) Loss	S
0.0001 (0.0001) Prec 100.000% (100.000%)		

0.0003 (0.0017)	Epoch: [206][100/391] Time 0.055		Data 0	.002 (0.	008) Lo	ss
Epoch: [206] [300/391]			Data 0	.002 (0.	006) Lo	ss
Test: [0/79]	Epoch: [206][300/391] Time 0.055 0.0002 (0.0013) Prec 100.000% (9	(0.057)	Data O	.002 (0.	005) Lo	ss
* Prec 92.860% Epoch: [207][0/391] Time 0.408 (0.408) Data 0.363 (0.363) Loss 0.0002 (0.0002) Prec 100.000% (100.000%) Data 0.002 (0.007) Loss Epoch: [207][100/391] Time 0.057 (0.059) Data 0.002 (0.007) Loss 0.0013 (0.0017) Prec 100.000% (99.964%) Epoch: [207][200/391] Time 0.050 (0.057) Data 0.004 (0.005) Loss 0.0002 (0.0015) Prec 100.000% (99.961%) Epoch: [207][300/391] Time 0.060 (0.057) Data 0.002 (0.005) Loss 0.0024 (0.0016) Prec 100.000% (99.961%) Epoch: [207][300/391] Time 0.050 (0.057) Data 0.002 (0.005) Loss 0.0024 (0.0016) Prec 100.000% (99.953%) Validation starts Prec 92.850% Prec 92.850% Prec 92.86000 Epoch: [208][100/391] Time 0.339 (0.339) Data 0.299 (0.299) Loss 0.0002 (0.0002) Prec 100.000% (100.000%) Epoch: [208][100/391] Time 0.054 (0.058) Data 0.002 (0.005) Loss 0.0005 (0.0010) Prec 100.000% (99.977%) Epoch: [208][300/391] Time 0.055 (0.056) Data 0.002 (0.003) Prec 96.094% (96.094%)	Test: [0/79] Time 0.374 (0.374)	Loss	0.2161 (0	.2161)	Prec 94.53	31%
Epoch: [207][0/391]						
O.0002 (0.0002)						
Epoch: [207][100/391]	-		Data O	.363 (0.	363) Lo	SS
O.0013 (0.0017)			5 . 0	000 (0		
Epoch: [207] [200/391]	_		Data O	.002 (0.	007) Lo	SS
O.0002 (0.0015)			Do+o 0	004 (0	00E) I.a	
Epoch: [207][300/391]	-		Data 0	.004 (0.	005) Lo	088
Validation starts Test: [0/79] Time 0.370 (0.370) Loss 0.1473 (0.1473) Prec 95.312% (95.312%) * Prec 92.850% best acc: 92.860000 Epoch: [208][0/391] Time 0.339 (0.339) Data 0.299 (0.299) Loss 0.0002 (0.0002) Prec 100.000% (100.000%) Epoch: [208][100/391] Time 0.054 (0.058) Data 0.002 (0.005) Loss 0.0002 (0.0013) Prec 100.000% (99.961%) Epoch: [208][200/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss 0.0005 (0.0010) Prec 100.000% (99.977%) Epoch: [208][300/391] Time 0.055 (0.056) Data 0.002 (0.003) Loss 0.0003 (0.0010) Prec 100.000% (99.977%) Epoch: [208][300/391] Time 0.053 (0.056) Data 0.002 (0.003) Loss 0.0003 (0.0010) Prec 100.000% (99.977%) Validation starts Test: [0/79] Time 0.354 (0.354) Loss 0.1579 (0.1579) Prec 96.094% (96.094%) * Prec 92.780% best acc: 92.860000 Epoch: [209][0/391] Time 0.413 (0.413) Data 0.374 (0.374) Loss 0.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [209][100/391] Time 0.055 (0.058) Data 0.001 (0.006) Loss 0.0003 (0.0008) Prec 100.000% (99.992%) Epoch: [209][100/391] Time 0.055 (0.058) Data 0.001 (0.006) Loss 0.0001 (0.0008) Prec 100.000% (99.992%) Epoch: [209][200/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss 0.0014 (0.0013) Prec 100.000% (99.965%) Epoch: [209][300/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss 0.0003 (0.0014) Prec 100.000% (99.965%)			Data O	002 (0	005) Io	122
Validation starts Test: [0/79]	-		Dava v	.002 (0.	000)	,66
Test: [0/79]		.0.000,,,				
* Prec 92.850% best acc: 92.860000 Epoch: [208][0/391]		Loss	0.1473 (0	.1473)	Prec 95.31	2%
best acc: 92.860000 Epoch: [208][0/391] Time 0.339 (0.339) Data 0.299 (0.299) Loss 0.0002 (0.0002) Prec 100.000% (100.000%) Data 0.002 (0.005) Loss 0.0002 (0.0013) Prec 100.000% (99.961%) Data 0.002 (0.004) Loss 0.0005 (0.0010) Prec 100.000% (99.977%) Data 0.002 (0.003) Loss 0.0003 (0.0010) Prec 100.000% (99.977%) Data 0.002 (0.003) Loss 0.0003 (0.0010) Prec 100.000% (99.977%) Prec 100.000% (99.977%) Validation starts Test: [0/79] Time 0.354 (0.354) Loss 0.1579 (0.1579) Prec 96.094% * Prec 92.780% Prec 92.780% Prec 92.780% Prec 92.780% Prec 92.780% Data 0.374 (0.374) Loss 0.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [209][0/391] Time 0.413 (0.413) Data 0.374 (0.374) Loss 0.0002 (0.0008) Epoch: [209][100/391] Time 0.055 (0.058) Data 0.001 (0.006) Loss 0.0002 (0.004) Epoch: [209][200/391] Time 0.058 (0.057) Data 0.002 (0.004) Loss 0.0014 (0.0013) Epoch: [209][300/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss 0.000						
Epoch: [208] [0/391]	* Prec 92.850%					
0.0002 (0.0002) Prec 100.000% (100.000%) Epoch: [208][100/391] Time 0.054 (0.058) Data 0.002 (0.005) Loss 0.0002 (0.0013) Prec 100.000% (99.961%) Epoch: [208][200/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss 0.0005 (0.0010) Prec 100.000% (99.977%) Epoch: [208][300/391] Time 0.053 (0.056) Data 0.002 (0.003) Loss 0.0003 (0.0010) Prec 100.000% (99.977%) Validation starts Test: [0/79] Time 0.354 (0.354) Loss 0.1579 (0.1579) Prec 96.094% (96.094%) * Prec 92.780% best acc: 92.860000 Epoch: [209][0/391] Time 0.413 (0.413) Data 0.374 (0.374) Loss 0.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [209][100/391] Time 0.055 (0.058) Data 0.001 (0.006) Loss 0.0002 (0.0008) Prec 100.000% (99.992%) Epoch: [209][200/391] Time 0.058 (0.057) Data 0.002 (0.004) Loss 0.0014 (0.0013) Prec 100.000% (99.965%) Epoch: [209][300/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss 0.0003 (0.0014) Prec 100.000% (99.969%) Validation starts	best acc: 92.860000					
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0.0002 (0.0013)	0.0002 (0.0002) Prec 100.000% (1	.00.000%)				
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Validation starts Test: [0/79] Time 0.354 (0.354) Loss 0.1579 (0.1579) Prec 96.094% (96.094%) * Prec 92.780% best acc: 92.860000 Epoch: [209] [0/391] Time 0.413 (0.413) Data 0.374 (0.374) Loss 0.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [209] [100/391] Time 0.055 (0.058) Data 0.001 (0.006) Loss 0.0002 (0.0008) Prec 100.000% (99.992%) Epoch: [209] [200/391] Time 0.058 (0.057) Data 0.002 (0.004) Loss 0.0014 (0.0013) Prec 100.000% (99.965%) Epoch: [209] [300/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss 0.0003 (0.0014) Prec 100.000% (99.969%) Validation starts						
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Test: [0/79] Time 0.354 (0.354) Loss 0.1579 (0.1579) Prec 96.094% (96.094%) * Prec 92.780% best acc: 92.860000 Epoch: [209] [0/391] Time 0.413 (0.413) Data 0.374 (0.374) Loss 0.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [209] [100/391] Time 0.055 (0.058) Data 0.001 (0.006) Loss 0.0002 (0.0008) Prec 100.000% (99.992%) Epoch: [209] [200/391] Time 0.058 (0.057) Data 0.002 (0.004) Loss 0.0014 (0.0013) Prec 100.000% (99.965%) Epoch: [209] [300/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss 0.0003 (0.0014) Prec 100.000% (99.969%)		99.977%)				
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best acc: 92.860000 Epoch: [209][0/391] Time 0.413 (0.413) Data 0.374 (0.374) Loss 0.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [209][100/391] Time 0.055 (0.058) Data 0.001 (0.006) Loss 0.0002 (0.0008) Prec 100.000% (99.992%) Epoch: [209][200/391] Time 0.058 (0.057) Data 0.002 (0.004) Loss 0.0014 (0.0013) Prec 100.000% (99.965%) Epoch: [209][300/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss 0.0003 (0.0014) Prec 100.000% (99.969%) Validation starts						
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Epoch: [209][100/391] Time 0.055 (0.058) Data 0.001 (0.006) Loss 0.0002 (0.0008) Prec 100.000% (99.992%) Epoch: [209][200/391] Time 0.058 (0.057) Data 0.002 (0.004) Loss 0.0014 (0.0013) Prec 100.000% (99.965%) Epoch: [209][300/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss 0.0003 (0.0014) Prec 100.000% (99.969%) Validation starts	_		Data 0	.374 (0.	3/4) LO	088
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Epoch: [209][200/391] Time 0.058 (0.057) Data 0.002 (0.004) Loss 0.0014 (0.0013) Prec 100.000% (99.965%) Epoch: [209][300/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss 0.0003 (0.0014) Prec 100.000% (99.969%) Validation starts	-		Data 0	.001 (0.	000) Lo	660
0.0014 (0.0013) Prec 100.000% (99.965%) Epoch: [209][300/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss 0.0003 (0.0014) Prec 100.000% (99.969%) Validation starts			Data O	002 (0	004) Io	166
Epoch: [209][300/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss 0.0003 (0.0014) Prec 100.000% (99.969%) Validation starts	-		Data 0	.002 (0.	004) E0	755
0.0003 (0.0014) Prec 100.000% (99.969%) Validation starts			Data O	.002 (0.	004) Lo	วรร
Validation starts	-					
		• • • • •				
		Loss	0.1939 (0	.1939)	Prec 94.53	31%
(94.531%)	(94.531%)					

* Prec 92.680%	
best acc: 92.860000	
Epoch: [210][0/391] Time 0.384 (0.384)	Data 0.343 (0.343) Loss
0.0002 (0.0002) Prec 100.000% (100.000%)	
Epoch: [210][100/391] Time 0.057 (0.059)	Data 0.002 (0.006) Loss
0.0002 (0.0012) Prec 100.000% (99.977%)	
Epoch: [210][200/391] Time 0.052 (0.057)	Data 0.002 (0.005) Loss
0.0002 (0.0013) Prec 100.000% (99.969%)	
Epoch: [210] [300/391] Time 0.055 (0.056)	Data 0.002 (0.004) Loss
0.0168 (0.0013) Prec 99.219% (99.966%)	
Validation starts	
Test: [0/79] Time 0.282 (0.282) Loss	s 0.2050 (0.2050) Prec 94.531%
(94.531%)	
* Prec 92.610%	
best acc: 92.860000	D + 0 204 (0 204)
Epoch: [211] [0/391] Time 0.361 (0.361)	Data 0.321 (0.321) Loss
0.0001 (0.0001) Prec 100.000% (100.000%)	D-+- 0 005 (0 006)
Epoch: [211] [100/391] Time 0.054 (0.058)	Data 0.005 (0.006) Loss
0.0002 (0.0012) Prec 100.000% (99.954%)	Data 0 012 (0 004)
Epoch: [211] [200/391] Time 0.052 (0.057)	Data 0.013 (0.004) Loss
0.0042 (0.0010) Prec 100.000% (99.969%)	Data 0 002 (0 004) I aga
Epoch: [211] [300/391] Time 0.049 (0.056)	Data 0.002 (0.004) Loss
0.0033 (0.0010) Prec 100.000% (99.971%)	
Validation starts	
	$a \cap 1267 (\cap 1267) \qquad D_{max} \cap G = 210\%$
	s 0.1367 (0.1367) Prec 95.312%
(95.312%)	s 0.1367 (0.1367) Prec 95.312%
(95.312%) * Prec 92.620%	s 0.1367 (0.1367) Prec 95.312%
(95.312%) * Prec 92.620% best acc: 92.860000	
(95.312%) * Prec 92.620% best acc: 92.860000 Epoch: [212][0/391] Time 0.401 (0.401)	
(95.312%) * Prec 92.620% best acc: 92.860000 Epoch: [212] [0/391] Time 0.401 (0.401) 0.0003 (0.0003) Prec 100.000% (100.000%)	Data 0.358 (0.358) Loss
(95.312%) * Prec 92.620% best acc: 92.860000 Epoch: [212] [0/391] Time 0.401 (0.401) 0.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [212] [100/391] Time 0.055 (0.059)	
(95.312%) * Prec 92.620% best acc: 92.860000 Epoch: [212] [0/391] Time 0.401 (0.401) 0.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [212] [100/391] Time 0.055 (0.059) 0.0002 (0.0016) Prec 100.000% (99.977%)	Data 0.358 (0.358) Loss Data 0.006 (0.007) Loss
(95.312%) * Prec 92.620% best acc: 92.860000 Epoch: [212] [0/391] Time 0.401 (0.401) 0.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [212] [100/391] Time 0.055 (0.059) 0.0002 (0.0016) Prec 100.000% (99.977%) Epoch: [212] [200/391] Time 0.055 (0.057)	Data 0.358 (0.358) Loss Data 0.006 (0.007) Loss
(95.312%) * Prec 92.620% best acc: 92.860000 Epoch: [212] [0/391] Time 0.401 (0.401) 0.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [212] [100/391] Time 0.055 (0.059) 0.0002 (0.0016) Prec 100.000% (99.977%) Epoch: [212] [200/391] Time 0.055 (0.057) 0.0130 (0.0014) Prec 99.219% (99.965%)	Data 0.358 (0.358) Loss Data 0.006 (0.007) Loss Data 0.002 (0.005) Loss
(95.312%) * Prec 92.620% best acc: 92.860000 Epoch: [212] [0/391] Time 0.401 (0.401) 0.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [212] [100/391] Time 0.055 (0.059) 0.0002 (0.0016) Prec 100.000% (99.977%) Epoch: [212] [200/391] Time 0.055 (0.057) 0.0130 (0.0014) Prec 99.219% (99.965%) Epoch: [212] [300/391] Time 0.056 (0.056)	Data 0.358 (0.358) Loss Data 0.006 (0.007) Loss Data 0.002 (0.005) Loss
(95.312%) * Prec 92.620% best acc: 92.860000 Epoch: [212] [0/391] Time 0.401 (0.401) 0.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [212] [100/391] Time 0.055 (0.059) 0.0002 (0.0016) Prec 100.000% (99.977%) Epoch: [212] [200/391] Time 0.055 (0.057) 0.0130 (0.0014) Prec 99.219% (99.965%)	Data 0.358 (0.358) Loss Data 0.006 (0.007) Loss Data 0.002 (0.005) Loss
(95.312%) * Prec 92.620% best acc: 92.860000 Epoch: [212] [0/391] Time 0.401 (0.401) 0.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [212] [100/391] Time 0.055 (0.059) 0.0002 (0.0016) Prec 100.000% (99.977%) Epoch: [212] [200/391] Time 0.055 (0.057) 0.0130 (0.0014) Prec 99.219% (99.965%) Epoch: [212] [300/391] Time 0.056 (0.056) 0.0001 (0.0014) Prec 100.000% (99.966%) Validation starts	Data 0.358 (0.358) Loss Data 0.006 (0.007) Loss Data 0.002 (0.005) Loss Data 0.002 (0.005) Loss
(95.312%) * Prec 92.620% best acc: 92.860000 Epoch: [212] [0/391] Time 0.401 (0.401) 0.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [212] [100/391] Time 0.055 (0.059) 0.0002 (0.0016) Prec 100.000% (99.977%) Epoch: [212] [200/391] Time 0.055 (0.057) 0.0130 (0.0014) Prec 99.219% (99.965%) Epoch: [212] [300/391] Time 0.056 (0.056) 0.0001 (0.0014) Prec 100.000% (99.966%) Validation starts Test: [0/79] Time 0.448 (0.448) Loss	Data 0.358 (0.358) Loss Data 0.006 (0.007) Loss Data 0.002 (0.005) Loss Data 0.002 (0.005) Loss
(95.312%) * Prec 92.620% best acc: 92.860000 Epoch: [212] [0/391] Time 0.401 (0.401) 0.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [212] [100/391] Time 0.055 (0.059) 0.0002 (0.0016) Prec 100.000% (99.977%) Epoch: [212] [200/391] Time 0.055 (0.057) 0.0130 (0.0014) Prec 99.219% (99.965%) Epoch: [212] [300/391] Time 0.056 (0.056) 0.0001 (0.0014) Prec 100.000% (99.966%) Validation starts Test: [0/79] Time 0.448 (0.448) Loss (96.094%)	Data 0.358 (0.358) Loss Data 0.006 (0.007) Loss Data 0.002 (0.005) Loss Data 0.002 (0.005) Loss
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(95.312%) * Prec 92.620% best acc: 92.860000 Epoch: [212] [0/391] Time 0.401 (0.401) 0.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [212] [100/391] Time 0.055 (0.059) 0.0002 (0.0016) Prec 100.000% (99.977%) Epoch: [212] [200/391] Time 0.055 (0.057) 0.0130 (0.0014) Prec 99.219% (99.965%) Epoch: [212] [300/391] Time 0.056 (0.056) 0.0001 (0.0014) Prec 100.000% (99.966%) Validation starts Test: [0/79] Time 0.448 (0.448) Loss (96.094%) * Prec 92.630%	Data 0.358 (0.358) Loss Data 0.006 (0.007) Loss Data 0.002 (0.005) Loss Data 0.002 (0.005) Loss s 0.1191 (0.1191) Prec 96.094%
(95.312%) * Prec 92.620% best acc: 92.860000 Epoch: [212] [0/391] Time 0.401 (0.401) 0.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [212] [100/391] Time 0.055 (0.059) 0.0002 (0.0016) Prec 100.000% (99.977%) Epoch: [212] [200/391] Time 0.055 (0.057) 0.0130 (0.0014) Prec 99.219% (99.965%) Epoch: [212] [300/391] Time 0.056 (0.056) 0.0001 (0.0014) Prec 100.000% (99.966%) Validation starts Test: [0/79] Time 0.448 (0.448) Loss (96.094%) * Prec 92.630% best acc: 92.860000	Data 0.358 (0.358) Loss Data 0.006 (0.007) Loss Data 0.002 (0.005) Loss Data 0.002 (0.005) Loss s 0.1191 (0.1191) Prec 96.094%
(95.312%) * Prec 92.620% best acc: 92.860000 Epoch: [212] [0/391] Time 0.401 (0.401) 0.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [212] [100/391] Time 0.055 (0.059) 0.0002 (0.0016) Prec 100.000% (99.977%) Epoch: [212] [200/391] Time 0.055 (0.057) 0.0130 (0.0014) Prec 99.219% (99.965%) Epoch: [212] [300/391] Time 0.056 (0.056) 0.0001 (0.0014) Prec 100.000% (99.966%) Validation starts Test: [0/79] Time 0.448 (0.448) Loss (96.094%) * Prec 92.630% best acc: 92.860000 Epoch: [213] [0/391] Time 0.360 (0.360)	Data 0.358 (0.358) Loss Data 0.006 (0.007) Loss Data 0.002 (0.005) Loss Data 0.002 (0.005) Loss s 0.1191 (0.1191) Prec 96.094%
(95.312%) * Prec 92.620% best acc: 92.860000 Epoch: [212] [0/391] Time 0.401 (0.401) 0.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [212] [100/391] Time 0.055 (0.059) 0.0002 (0.0016) Prec 100.000% (99.977%) Epoch: [212] [200/391] Time 0.055 (0.057) 0.0130 (0.0014) Prec 99.219% (99.965%) Epoch: [212] [300/391] Time 0.056 (0.056) 0.0001 (0.0014) Prec 100.000% (99.966%) Validation starts Test: [0/79] Time 0.448 (0.448) Loss (96.094%) * Prec 92.630% best acc: 92.860000 Epoch: [213] [0/391] Time 0.360 (0.360) 0.0001 (0.0001) Prec 100.000% (100.000%)	Data 0.358 (0.358) Loss Data 0.006 (0.007) Loss Data 0.002 (0.005) Loss Data 0.002 (0.005) Loss s 0.1191 (0.1191) Prec 96.094% Data 0.307 (0.307) Loss
(95.312%) * Prec 92.620% best acc: 92.860000 Epoch: [212] [0/391] Time 0.401 (0.401) 0.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [212] [100/391] Time 0.055 (0.059) 0.0002 (0.0016) Prec 100.000% (99.977%) Epoch: [212] [200/391] Time 0.055 (0.057) 0.0130 (0.0014) Prec 99.219% (99.965%) Epoch: [212] [300/391] Time 0.056 (0.056) 0.0001 (0.0014) Prec 100.000% (99.966%) Validation starts Test: [0/79] Time 0.448 (0.448) Loss (96.094%) * Prec 92.630% best acc: 92.860000 Epoch: [213] [0/391] Time 0.360 (0.360) 0.0001 (0.0001) Prec 100.000% (100.000%) Epoch: [213] [100/391] Time 0.055 (0.059)	Data 0.358 (0.358) Loss Data 0.006 (0.007) Loss Data 0.002 (0.005) Loss Data 0.002 (0.005) Loss s 0.1191 (0.1191) Prec 96.094% Data 0.307 (0.307) Loss
(95.312%) * Prec 92.620% best acc: 92.860000 Epoch: [212] [0/391] Time 0.401 (0.401) 0.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [212] [100/391] Time 0.055 (0.059) 0.0002 (0.0016) Prec 100.000% (99.977%) Epoch: [212] [200/391] Time 0.055 (0.057) 0.0130 (0.0014) Prec 99.219% (99.965%) Epoch: [212] [300/391] Time 0.056 (0.056) 0.0001 (0.0014) Prec 100.000% (99.966%) Validation starts Test: [0/79] Time 0.448 (0.448) Loss (96.094%) * Prec 92.630% best acc: 92.860000 Epoch: [213] [0/391] Time 0.360 (0.360) 0.0001 (0.0001) Prec 100.000% (100.000%) Epoch: [213] [100/391] Time 0.055 (0.059) 0.0002 (0.0010) Prec 100.000% (99.977%)	Data 0.358 (0.358) Loss Data 0.006 (0.007) Loss Data 0.002 (0.005) Loss Data 0.002 (0.005) Loss s 0.1191 (0.1191) Prec 96.094% Data 0.307 (0.307) Loss Data 0.005 (0.008) Loss
* Prec 92.620% best acc: 92.860000 Epoch: [212] [0/391]	Data 0.358 (0.358) Loss Data 0.006 (0.007) Loss Data 0.002 (0.005) Loss Data 0.002 (0.005) Loss s 0.1191 (0.1191) Prec 96.094% Data 0.307 (0.307) Loss Data 0.005 (0.008) Loss

```
0.0006 (0.0014)
                   Prec 100.000% (99.966%)
Validation starts
Test: [0/79]
                Time 0.319 (0.319)
                                         Loss 0.1104 (0.1104)
                                                                  Prec 96.094%
(96.094\%)
 * Prec 92.630%
best acc: 92.860000
Epoch: [214] [0/391]
                        Time 0.405 (0.405)
                                                 Data 0.359 (0.359)
                                                                          Loss
0.0004 (0.0004)
                   Prec 100.000% (100.000%)
Epoch: [214] [100/391]
                        Time 0.056 (0.059)
                                                 Data 0.002 (0.007)
                                                                          Loss
0.0004 (0.0007)
                   Prec 100.000% (99.985%)
Epoch: [214] [200/391]
                                                 Data 0.002 (0.005)
                        Time 0.058 (0.057)
                                                                          Loss
0.0004 (0.0008)
                   Prec 100.000% (99.977%)
Epoch: [214] [300/391]
                        Time 0.054 (0.056)
                                                 Data 0.004 (0.004)
                                                                          Loss
0.0013 (0.0011)
                   Prec 100.000% (99.971%)
Validation starts
Test: [0/79]
                Time 0.358 (0.358)
                                         Loss 0.1857 (0.1857)
                                                                  Prec 95.312%
(95.312\%)
 * Prec 92.590%
best acc: 92.860000
Epoch: [215] [0/391]
                        Time 0.406 (0.406)
                                                 Data 0.358 (0.358)
                                                                          Loss
0.0001 (0.0001)
                   Prec 100.000% (100.000%)
Epoch: [215] [100/391]
                        Time 0.055 (0.058)
                                                 Data 0.002 (0.006)
                                                                          Loss
0.0019 (0.0015)
                   Prec 100.000% (99.954%)
Epoch: [215] [200/391]
                        Time 0.055 (0.057)
                                                 Data 0.002 (0.004)
                                                                          Loss
0.0002 (0.0016)
                   Prec 100.000% (99.953%)
Epoch: [215] [300/391]
                                                 Data 0.002 (0.004)
                        Time 0.058 (0.056)
                                                                          Loss
0.0002 (0.0015)
                   Prec 100.000% (99.958%)
Validation starts
Test: [0/79]
                Time 0.354 (0.354)
                                         Loss 0.1578 (0.1578)
                                                                  Prec 94.531%
(94.531\%)
 * Prec 92.600%
best acc: 92.860000
Epoch: [216] [0/391]
                        Time 0.426 (0.426)
                                                 Data 0.378 (0.378)
                                                                          Loss
0.0004 (0.0004)
                   Prec 100.000% (100.000%)
Epoch: [216] [100/391]
                        Time 0.055 (0.059)
                                                 Data 0.002 (0.006)
                                                                          Loss
0.0002 (0.0013)
                   Prec 100.000% (99.954%)
Epoch: [216] [200/391]
                        Time 0.067 (0.057)
                                                 Data 0.002 (0.004)
                                                                          Loss
0.0002 (0.0014)
                   Prec 100.000% (99.961%)
Epoch: [216] [300/391]
                        Time 0.059 (0.057)
                                                 Data 0.002 (0.004)
                                                                          Loss
0.0002 (0.0013)
                   Prec 100.000% (99.966%)
Validation starts
Test: [0/79]
                Time 0.364 (0.364)
                                         Loss 0.1007 (0.1007)
                                                                  Prec 96.094%
(96.094\%)
* Prec 92.710%
best acc: 92.860000
Epoch: [217] [0/391]
                        Time 0.405 (0.405)
                                                 Data 0.364 (0.364)
                                                                          Loss
0.0002 (0.0002)
                   Prec 100.000% (100.000%)
Epoch: [217] [100/391]
                        Time 0.049 (0.059)
                                                 Data 0.002 (0.007)
                                                                          Loss
```

0.0000 (0.0010)	100 0001/ (00 0051/)				
0.0002 (0.0010) Prec		D-+-	0 000	(0 005)	T
Epoch: [217] [200/391]		Data	0.002	(0.005)	Loss
0.0001 (0.0015) Prec		D-+-	0 000	(0,004)	T
Epoch: [217] [300/391]		Data	0.002	(0.004)	Loss
0.0003 (0.0015) Prec	100.000% (99.958%)				
Validation starts	244 (0 044) - T	0 0000 (0 0000		06 075%
Test: [0/79] Time 0.3	311 (0.311) Loss	0.0963 (0.0963	3) Prec	96.875%
(96.875%)					
* Prec 92.790%					
best acc: 92.860000	T: 0 470 (0 470)	D-+-	0 400	(0 422)	T
Epoch: [218] [0/391]		Data	0.433	(0.433)	Loss
0.0006 (0.0006) Prec		ъ.		(0, 000)	-
Epoch: [218] [100/391]		Data	0.002	(0.008)	Loss
0.0005 (0.0011) Prec		_			
Epoch: [218] [200/391]		Data	0.002	(0.005)	Loss
0.0002 (0.0009) Prec					
Epoch: [218][300/391]		Data	0.002	(0.005)	Loss
0.0002 (0.0010) Prec	100.000% (99.971%)				
Validation starts					
Test: [0/79] Time 0.3	302 (0.302) Loss	0.1565 (0.1565	S) Prec	95.312%
(95.312%)					
* Prec 92.990%					
best acc: 92.990000					
Epoch: [219][0/391]	Time 0.397 (0.397)	Data	0.356	(0.356)	Loss
0.0081 (0.0081) Prec	99.219% (99.219%)				
Epoch: [219][100/391]	Time 0.046 (0.059)	Data	0.002	(0.007)	Loss
0.0003 (0.0012) Prec	100.000% (99.969%)				
Epoch: [219][200/391]	Time 0.055 (0.057)	Data	0.002	(0.005)	Loss
0.0005 (0.0014) Prec	100.000% (99.969%)				
Epoch: [219][300/391]	Time 0.059 (0.056)	Data	0.002	(0.004)	Loss
0.0022 (0.0014) Prec	100.000% (99.958%)				
Validation starts					
Test: [0/79] Time 0.3	273 (0.273) Loss	0.1227 (0.1227) Prec	95.312%
(95.312%)					
* Prec 92.730%					
best acc: 92.990000					
Epoch: [220][0/391]	Time 0.389 (0.389)	Data	0.344	(0.344)	Loss
0.0010 (0.0010) Prec	100.000% (100.000%)				
Epoch: [220][100/391]	Time 0.055 (0.058)	Data	0.002	(0.005)	Loss
0.0027 (0.0011) Prec	100.000% (99.969%)				
Epoch: [220][200/391]	Time 0.062 (0.056)	Data	0.002	(0.004)	Loss
0.0007 (0.0015) Prec	100.000% (99.949%)				
Epoch: [220][300/391]	Time 0.055 (0.056)	Data	0.002	(0.004)	Loss
0.0030 (0.0014) Prec	100.000% (99.956%)				
Validation starts					
Test: [0/79] Time 0.2	273 (0.273) Loss	0.1214 (0.1214	Prec	96.875%
(96.875%)					
* Prec 92.640%					

best acc: 92.990000	
Epoch: [221] [0/391] Time 0.456 (0.456)	Data 0.404 (0.404) Loss
0.0033 (0.0033) Prec 100.000% (100.000%)	2404 0.101 (0.101)
Epoch: [221][100/391] Time 0.054 (0.059)	Data 0.002 (0.006) Loss
0.0002 (0.0011) Prec 100.000% (99.969%)	2002 00002 (00000), 2000
Epoch: [221][200/391] Time 0.054 (0.057)	Data 0.002 (0.004) Loss
0.0007 (0.0013) Prec 100.000% (99.961%)	
Epoch: [221][300/391] Time 0.051 (0.056)	Data 0.002 (0.003) Loss
0.0002 (0.0013) Prec 100.000% (99.966%)	, , , , , , , , , , , , , , , , , , ,
Validation starts	
Test: [0/79] Time 0.326 (0.326) Loss	0.1326 (0.1326) Prec 96.094%
(96.094%)	
* Prec 92.660%	
best acc: 92.990000	
Epoch: [222][0/391] Time 0.385 (0.385)	Data 0.346 (0.346) Loss
0.0004 (0.0004) Prec 100.000% (100.000%)	
Epoch: [222][100/391] Time 0.054 (0.058)	Data 0.002 (0.006) Loss
0.0029 (0.0011) Prec 100.000% (99.969%)	
Epoch: [222][200/391] Time 0.054 (0.057)	Data 0.002 (0.004) Loss
0.0004 (0.0015) Prec 100.000% (99.949%)	
Epoch: [222][300/391] Time 0.055 (0.056)	Data 0.002 (0.004) Loss
0.0001 (0.0013) Prec 100.000% (99.964%)	
Validation starts	
Test: [0/79] Time 0.383 (0.383) Loss	0.0944 (0.0944) Prec 97.656%
(97.656%)	
* Prec 92.850%	
best acc: 92.990000	
Epoch: [223][0/391] Time 0.391 (0.391)	Data 0.327 (0.327) Loss
0.0008 (0.0008) Prec 100.000% (100.000%)	
Epoch: [223][100/391] Time 0.059 (0.059)	Data 0.002 (0.006) Loss
0.0001 (0.0011) Prec 100.000% (99.977%)	
Epoch: [223][200/391] Time 0.055 (0.057)	Data 0.002 (0.004) Loss
0.0007 (0.0013) Prec 100.000% (99.977%)	
$F_{DOCh} \cdot [223][300/301] Time 0.054 (0.056)$	
-	Data 0.002 (0.004) Loss
0.0004 (0.0012) Prec 100.000% (99.977%)	Data 0.002 (0.004) Loss
0.0004 (0.0012) Prec 100.000% (99.977%) Validation starts	
0.0004 (0.0012) Prec 100.000% (99.977%) Validation starts Test: [0/79] Time 0.309 (0.309) Loss	
0.0004 (0.0012) Prec 100.000% (99.977%) Validation starts Test: [0/79] Time 0.309 (0.309) Loss (96.875%)	
0.0004 (0.0012) Prec 100.000% (99.977%) Validation starts Test: [0/79] Time 0.309 (0.309) Loss (96.875%) * Prec 92.780%	
0.0004 (0.0012) Prec 100.000% (99.977%) Validation starts Test: [0/79] Time 0.309 (0.309) Loss (96.875%) * Prec 92.780% best acc: 92.990000	0.1303 (0.1303) Prec 96.875%
0.0004 (0.0012) Prec 100.000% (99.977%) Validation starts Test: [0/79] Time 0.309 (0.309) Loss (96.875%) * Prec 92.780% best acc: 92.990000 Epoch: [224] [0/391] Time 0.357 (0.357)	0.1303 (0.1303) Prec 96.875%
0.0004 (0.0012) Prec 100.000% (99.977%) Validation starts Test: [0/79] Time 0.309 (0.309) Loss (96.875%) * Prec 92.780% best acc: 92.990000 Epoch: [224] [0/391] Time 0.357 (0.357) 0.0001 (0.0001) Prec 100.000% (100.000%)	0.1303 (0.1303) Prec 96.875% Data 0.312 (0.312) Loss
0.0004 (0.0012) Prec 100.000% (99.977%) Validation starts Test: [0/79] Time 0.309 (0.309) Loss (96.875%) * Prec 92.780% best acc: 92.990000 Epoch: [224] [0/391] Time 0.357 (0.357) 0.0001 (0.0001) Prec 100.000% (100.000%) Epoch: [224] [100/391] Time 0.054 (0.058)	0.1303 (0.1303) Prec 96.875%
0.0004 (0.0012) Prec 100.000% (99.977%) Validation starts Test: [0/79] Time 0.309 (0.309) Loss (96.875%) * Prec 92.780% best acc: 92.990000 Epoch: [224] [0/391] Time 0.357 (0.357) 0.0001 (0.0001) Prec 100.000% (100.000%) Epoch: [224] [100/391] Time 0.054 (0.058) 0.0006 (0.0008) Prec 100.000% (99.992%)	0.1303 (0.1303) Prec 96.875% Data 0.312 (0.312) Loss Data 0.002 (0.005) Loss
0.0004 (0.0012) Prec 100.000% (99.977%) Validation starts Test: [0/79] Time 0.309 (0.309) Loss (96.875%) * Prec 92.780% best acc: 92.990000 Epoch: [224] [0/391] Time 0.357 (0.357) 0.0001 (0.0001) Prec 100.000% (100.000%) Epoch: [224] [100/391] Time 0.054 (0.058) 0.0006 (0.0008) Prec 100.000% (99.992%) Epoch: [224] [200/391] Time 0.061 (0.056)	0.1303 (0.1303) Prec 96.875% Data 0.312 (0.312) Loss
0.0004 (0.0012) Prec 100.000% (99.977%) Validation starts Test: [0/79] Time 0.309 (0.309) Loss (96.875%) * Prec 92.780% best acc: 92.990000 Epoch: [224] [0/391] Time 0.357 (0.357) 0.0001 (0.0001) Prec 100.000% (100.000%) Epoch: [224] [100/391] Time 0.054 (0.058) 0.0006 (0.0008) Prec 100.000% (99.992%) Epoch: [224] [200/391] Time 0.061 (0.056) 0.0003 (0.0008) Prec 100.000% (99.984%)	0.1303 (0.1303) Prec 96.875% Data 0.312 (0.312) Loss Data 0.002 (0.005) Loss Data 0.002 (0.004) Loss
0.0004 (0.0012) Prec 100.000% (99.977%) Validation starts Test: [0/79] Time 0.309 (0.309) Loss (96.875%) * Prec 92.780% best acc: 92.990000 Epoch: [224] [0/391] Time 0.357 (0.357) 0.0001 (0.0001) Prec 100.000% (100.000%) Epoch: [224] [100/391] Time 0.054 (0.058) 0.0006 (0.0008) Prec 100.000% (99.992%) Epoch: [224] [200/391] Time 0.061 (0.056)	0.1303 (0.1303) Prec 96.875% Data 0.312 (0.312) Loss Data 0.002 (0.005) Loss

Validation starts Test: [0/79] Time 0.360 (0.360) Loss (95.312%) * Prec 92.750%	0.1263 (0.1263) Prec 95.312%
best acc: 92.990000 Epoch: [225][0/391] Time 0.470 (0.470)	Data 0.421 (0.421) Loss
0.0001 (0.0001) Prec 100.000% (100.000%) Epoch: [225][100/391] Time 0.055 (0.059) 0.0002 (0.0005) Prec 100.000% (100.000%)	Data 0.002 (0.007) Loss
Epoch: [225] [200/391] Time 0.049 (0.057) 0.0002 (0.0006) Prec 100.000% (99.996%)	Data 0.003 (0.005) Loss
Epoch: [225][300/391] Time 0.055 (0.057) 0.0002 (0.0008) Prec 100.000% (99.987%)	Data 0.002 (0.004) Loss
Validation starts Test: [0/79] Time 0.335 (0.335) Loss	0.1643 (0.1643) Prec 96.875%
(96.875%) * Prec 92.920%	
best acc: 92.990000	
Epoch: [226][0/391] Time 0.393 (0.393) 0.0002 (0.0002) Prec 100.000% (100.000%)	Data 0.353 (0.353) Loss
Epoch: [226][100/391] Time 0.048 (0.058) 0.0002 (0.0013) Prec 100.000% (99.977%)	Data 0.002 (0.006) Loss
Epoch: [226][200/391] Time 0.052 (0.057) 0.0002 (0.0010) Prec 100.000% (99.984%)	Data 0.002 (0.004) Loss
Epoch: [226][300/391] Time 0.064 (0.057) 0.0002 (0.0011) Prec 100.000% (99.979%)	Data 0.002 (0.004) Loss
Validation starts	
Test: [0/79] Time 0.259 (0.259) Loss	3 0.1742 (0.1742) Prec 95.312%
(95.312%) * Prec 92.920%	
best acc: 92.990000	
Epoch: [227][0/391] Time 0.371 (0.371)	Data 0.331 (0.331) Loss
0.0003 (0.0003) Prec 100.000% (100.000%)	
Epoch: [227][100/391] Time 0.053 (0.059)	Data 0.002 (0.006) Loss
0.0001 (0.0009) Prec 100.000% (99.969%)	
Epoch: [227] [200/391] Time 0.058 (0.057)	Data 0.002 (0.005) Loss
0.0004 (0.0009) Prec 100.000% (99.969%)	D-+- 0 000 (0 004)
Epoch: [227][300/391] Time 0.056 (0.056) 0.0004 (0.0009) Prec 100.000% (99.969%)	Data 0.002 (0.004) Loss
Validation starts	
Test: [0/79] Time 0.308 (0.308) Loss (97.656%)	0.1348 (0.1348) Prec 97.656%
* Prec 92.960%	
best acc: 92.990000	
Epoch: [228] [0/391] Time 0.472 (0.472)	Data 0.422 (0.422) Loss
0.0015 (0.0015) Prec 100.000% (100.000%) Epoch: [228] [100/391] Time 0.055 (0.059) 0.0002 (0.0011) Prec 100.000% (99.961%)	Data 0.002 (0.008) Loss

Epoch: [228] [200/391] Time 0.052 (0.057)	Data 0.003 (0.005) Loss
0.0003 (0.0010) Prec 100.000% (99.961%) Epoch: [228] [300/391] Time 0.055 (0.057) 0.0007 (0.0010) Prec 100.000% (99.969%)	Data 0.002 (0.004) Loss
	0.1675 (0.1675) Prec 95.312%
(95.312%) * Prec 92.810%	
best acc: 92.990000	
Epoch: [229] [0/391] Time 0.443 (0.443) 0.0003 (0.0003) Prec 100.000% (100.000%)	Data 0.394 (0.394) Loss
Epoch: [229] [100/391] Time 0.058 (0.059)	Data 0.002 (0.007) Loss
0.0001 (0.0009) Prec 100.000% (99.969%)	Edda 0.002 (0.001) Hobb
Epoch: [229][200/391] Time 0.065 (0.057)	Data 0.002 (0.005) Loss
0.0002 (0.0007) Prec 100.000% (99.984%)	
Epoch: [229][300/391] Time 0.063 (0.056)	Data 0.007 (0.004) Loss
0.0007 (0.0007) Prec 100.000% (99.987%)	
Validation starts	
Test: [0/79] Time 0.355 (0.355) Loss	0.1352 (0.1352) Prec 97.656%
(97.656%) * Prec 92.940%	
* Fiec 92.940% best acc: 92.990000	
Epoch: [230] [0/391] Time 0.419 (0.419)	Data 0.376 (0.376) Loss
0.0001 (0.0001) Prec 100.000% (100.000%)	2404 0.010 (0.010) 1025
Epoch: [230][100/391] Time 0.056 (0.060)	Data 0.002 (0.007) Loss
0.0003 (0.0008) Prec 100.000% (99.969%)	
Epoch: [230][200/391] Time 0.055 (0.058)	Data 0.008 (0.005) Loss
0.0018 (0.0011) Prec 100.000% (99.961%)	
Epoch: [230][300/391] Time 0.064 (0.057)	Data 0.002 (0.004) Loss
0.0002 (0.0011) Prec 100.000% (99.964%)	
Validation starts	
Test: [0/79] Time 0.428 (0.428) Loss	0.1454 (0.1454) Prec 97.656%
(97.656%)	
* Prec 92.900%	
best acc: 92.990000	Data 0.413 (0.413) Loss
Epoch: [231] [0/391] Time 0.456 (0.456) 0.0008 (0.0008) Prec 100.000% (100.000%)	Data 0.413 (0.413) LOSS
Epoch: [231] [100/391] Time 0.065 (0.059)	Data 0.002 (0.007) Loss
0.0006 (0.0012) Prec 100.000% (99.992%)	Data 0.002 (0.007) Hoss
Epoch: [231] [200/391] Time 0.055 (0.057)	Data 0.002 (0.005) Loss
0.0025 (0.0010) Prec 100.000% (99.984%)	
Epoch: [231][300/391] Time 0.057 (0.057)	Data 0.002 (0.004) Loss
0.0001 (0.0008) Prec 100.000% (99.990%)	
Validation starts	
Test: [0/79] Time 0.326 (0.326) Loss	0.1549 (0.1549) Prec 96.094%
(96.094%)	
* Prec 92.840%	
best acc: 92.990000	

Epoch: [232] [0/391] Time 0.410 (0.410) 0.0006 (0.0006) Prec 100.000% (100.000%)	Data 0.363 (0.363) Lo	ss
Epoch: [232] [100/391] Time 0.055 (0.059) 0.0114 (0.0009) Prec 99.219% (99.977%)	Data 0.002 (0.007) Lo	ss
Epoch: [232][200/391] Time 0.055 (0.057) 0.0003 (0.0009) Prec 100.000% (99.981%)	Data 0.002 (0.005) Lo	ss
Epoch: [232][300/391] Time 0.055 (0.057) 0.0065 (0.0009) Prec 99.219% (99.974%)	Data 0.002 (0.004) Lo	ss
Validation starts		
Test: [0/79] Time 0.376 (0.376) Loss	0.1510 (0.1510) Prec 96.87	75%
(96.875%)		
* Prec 92.820%		
best acc: 92.990000		
Epoch: [233][0/391] Time 0.422 (0.422)	Data 0.379 (0.379) Lo	SS
0.0002 (0.0002) Prec 100.000% (100.000%)		
Epoch: [233][100/391] Time 0.054 (0.059)	Data 0.002 (0.007) Lo	SS
0.0002 (0.0007) Prec 100.000% (99.985%)		
Epoch: [233][200/391] Time 0.054 (0.057)	Data 0.002 (0.006) Lo	SS
0.0006 (0.0009) Prec 100.000% (99.973%)		
Epoch: [233][300/391] Time 0.057 (0.056)	Data 0.002 (0.005) Lo	ss
0.0005 (0.0009) Prec 100.000% (99.977%)		
Validation starts		
Test: [0/79] Time 0.370 (0.370) Loss	0.1297 (0.1297) Prec 96.09	94%
(96.094%)		
* Prec 92.840%		
best acc: 92.990000		
Epoch: [234][0/391] Time 0.450 (0.450)	Data 0.404 (0.404) Lo	ss
0.0001 (0.0001) Prec 100.000% (100.000%)		
Epoch: [234][100/391] Time 0.055 (0.060)	Data 0.002 (0.007) Lo	ss
0.0007 (0.0009) Prec 100.000% (99.977%)		
Epoch: [234][200/391] Time 0.055 (0.058)	Data 0.006 (0.005) Lo	ss
0.0002 (0.0011) Prec 100.000% (99.973%)		
Epoch: [234][300/391] Time 0.052 (0.057)	Data 0.002 (0.004) Lo	ss
0.0006 (0.0010) Prec 100.000% (99.974%)		
Validation starts		
Test: [0/79] Time 0.408 (0.408) Loss	0.1288 (0.1288) Prec 97.65	6%
(97.656%)		
* Prec 92.940%		
best acc: 92.990000		
Epoch: [235][0/391] Time 0.421 (0.421)	Data 0.378 (0.378) Lo	ss
0.0004 (0.0004) Prec 100.000% (100.000%)		
Epoch: [235][100/391] Time 0.054 (0.059)	Data 0.001 (0.007) Lo	ss
0.0002 (0.0009) Prec 100.000% (99.969%)		
Epoch: [235][200/391] Time 0.054 (0.057)	Data 0.002 (0.005) Lo	ss
0.0002 (0.0010) Prec 100.000% (99.969%)		
Epoch: [235][300/391] Time 0.057 (0.057)	Data 0.002 (0.004) Lo	ss
0.0002 (0.0010) Prec 100.000% (99.969%)		
Validation starts		

Test: [0/79] Time 0.360 (0.360) (96.875%)	Loss	0.1540	(0.1540)) Prec	96.875%
* Prec 92.830%					
best acc: 92.990000					
Epoch: [236][0/391] Time 0.441	(0.441)	Data	0.395	(0.395)	Loss
0.0001 (0.0001) Prec 100.000%	(100.000%)				
Epoch: [236][100/391] Time 0.058	5 (0.059)	Data	0.002	(0.007)	Loss
0.0002 (0.0014) Prec 100.000%					
Epoch: [236][200/391] Time 0.063	3 (0.058)	Data	0.002	(0.005)	Loss
0.0002 (0.0010) Prec 100.000%					
Epoch: [236][300/391] Time 0.058	5 (0.057)	Data	0.002	(0.005)	Loss
0.0002 (0.0012) Prec 100.000%	(99.961%)				
Validation starts					
Test: [0/79] Time 0.332 (0.332)	Loss	0.1340	(0.1340)) Prec	97.656%
(97.656%)					
* Prec 92.830%					
best acc: 92.990000					
Epoch: [237][0/391] Time 0.421	(0.421)	Data	0.377	(0.377)	Loss
0.0004 (0.0004) Prec 100.000%	(100.000%)				
Epoch: [237][100/391] Time 0.055	(0.059)	Data	0.002	(0.008)	Loss
0.0002 (0.0016) Prec 100.000%	(99.961%)				
Epoch: [237][200/391] Time 0.060	(0.057)	Data	0.004	(0.005)	Loss
0.0038 (0.0015) Prec 100.000%	(99.961%)				
Epoch: [237][300/391] Time 0.042	2 (0.057)	Data	0.002	(0.005)	Loss
0.0005 (0.0012) Prec 100.000%	(99.974%)				
Validation starts					
Test: [0/79] Time 0.350 (0.350)	Loss	0.1388	(0.1388	Prec	96.875%
(96.875%)					
* Prec 92.680%					
best acc: 92.990000					
Epoch: [238] [0/391] Time 0.439	0.439)	Data	0.394	(0.394)	Loss
0.0009 (0.0009) Prec 100.000%					
Epoch: [238][100/391] Time 0.063	3 (0.059)	Data	0.002	(0.007)	Loss
0.0001 (0.0008) Prec 100.000%	(99.985%)				
Epoch: [238][200/391] Time 0.054	1 (0.057)	Data	0.002	(0.005)	Loss
0.0074 (0.0009) Prec 99.219% (9	99.977%)				
Epoch: [238][300/391] Time 0.058		Data	0.002	(0.004)	Loss
0.0002 (0.0009) Prec 100.000%	(99.971%)				
Validation starts					
Test: [0/79] Time 0.407 (0.407)	Loss	0.1749	(0.1749)) Prec	96.094%
(96.094%)					
* Prec 92.690%					
best acc: 92.990000	_				
Epoch: [239] [0/391] Time 0.304		Data	0.264	(0.264)	Loss
0.0012 (0.0012) Prec 100.000%					
Epoch: [239][100/391] Time 0.058		Data	0.002	(0.006)	Loss
0.0002 (0.0011) Prec 100.000%					
Epoch: [239] [200/391] Time 0.049	0.056)	Data	0.002	(0.004)	Loss

```
0.0002 (0.0011)
                   Prec 100.000% (99.961%)
                                                 Data 0.002 (0.004)
Epoch: [239] [300/391]
                        Time 0.059 (0.056)
                                                                          Loss
0.0103 (0.0010)
                   Prec 99.219% (99.964%)
Validation starts
Test: [0/79]
                                         Loss 0.1812 (0.1812)
                Time 0.362 (0.362)
                                                                  Prec 96.094%
(96.094\%)
* Prec 92.900%
best acc: 92.990000
Epoch: [240] [0/391]
                                                 Data 0.363 (0.363)
                        Time 0.410 (0.410)
                                                                          Loss
0.0001 (0.0001)
                   Prec 100.000% (100.000%)
Epoch: [240] [100/391]
                                                 Data 0.002 (0.007)
                                                                          Loss
                        Time 0.054 (0.058)
0.0001 (0.0008)
                   Prec 100.000% (99.985%)
Epoch: [240] [200/391]
                        Time 0.055 (0.057)
                                                 Data 0.002 (0.006)
                                                                          Loss
0.0002 (0.0010)
                   Prec 100.000% (99.981%)
Epoch: [240] [300/391]
                        Time 0.057 (0.057)
                                                 Data 0.002 (0.005)
                                                                          Loss
0.0002 (0.0009)
                   Prec 100.000% (99.982%)
Validation starts
Test: [0/79]
                Time 0.322 (0.322)
                                         Loss 0.1598 (0.1598)
                                                                  Prec 96.094%
(96.094\%)
 * Prec 92.860%
best acc: 92.990000
Epoch: [241] [0/391]
                        Time 0.416 (0.416)
                                                 Data 0.380 (0.380)
                                                                          Loss
0.0012 (0.0012)
                   Prec 100.000% (100.000%)
Epoch: [241] [100/391]
                        Time 0.052 (0.059)
                                                 Data 0.006 (0.008)
                                                                          Loss
0.0002 (0.0013)
                   Prec 100.000% (99.946%)
Epoch: [241] [200/391]
                        Time 0.058 (0.057)
                                                 Data 0.002 (0.005)
                                                                          Loss
0.0002 (0.0010)
                   Prec 100.000% (99.957%)
Epoch: [241] [300/391]
                        Time 0.054 (0.056)
                                                 Data 0.007 (0.004)
                                                                          Loss
0.0002 (0.0009)
                   Prec 100.000% (99.969%)
Validation starts
Test: [0/79]
                Time 0.355 (0.355)
                                         Loss 0.1653 (0.1653)
                                                                  Prec 96.094%
(96.094\%)
* Prec 92.950%
best acc: 92.990000
Epoch: [242] [0/391]
                        Time 0.402 (0.402)
                                                 Data 0.355 (0.355)
                                                                          Loss
0.0008 (0.0008)
                   Prec 100.000% (100.000%)
Epoch: [242] [100/391]
                        Time 0.052 (0.059)
                                                 Data 0.002 (0.007)
                                                                          Loss
0.0002 (0.0010)
                   Prec 100.000% (99.977%)
Epoch: [242] [200/391]
                        Time 0.059 (0.057)
                                                 Data 0.002 (0.005)
                                                                          Loss
0.0002 (0.0009)
                   Prec 100.000% (99.981%)
Epoch: [242] [300/391]
                        Time 0.058 (0.057)
                                                 Data 0.002 (0.004)
                                                                          Loss
0.0023 (0.0008)
                   Prec 100.000% (99.987%)
Validation starts
Test: [0/79]
                                         Loss 0.1412 (0.1412)
                                                                  Prec 96.875%
                Time 0.343 (0.343)
(96.875\%)
 * Prec 92.980%
best acc: 92.990000
Epoch: [243] [0/391]
                        Time 0.387 (0.387)
                                                 Data 0.338 (0.338)
                                                                          Loss
```

0.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [243] [100/391] Time 0.054 (0.059) Data 0.002 (0.006) Loss 0.0008 (0.0008) Prec 100.000% (99.992%) Epoch: [243] [200/391] Time 0.055 (0.057) Data 0.002 (0.005) Loss 0.0004 (0.0008) Prec 100.000% (99.988%) Epoch: [243] [300/391] Time 0.070 (0.057) Data 0.002 (0.005) Loss 0.0001 (0.0008) Prec 100.000% (99.987%) Validation starts Test: [0/79] Time 0.383 (0.383) Loss 0.1883 (0.1883) Prec 96.875% (96.875%) * Prec 92.870% Deta acc: 92.990000 Epoch: [244] [100/391] Time 0.000% (100.000%) Epoch: [244] [100/391] Time 0.000% (100.000%) Epoch: [244] [100/391] Time 0.056 (0.057) Data 0.002 (0.007) Loss 0.0003 (0.0006) Prec 100.000% (99.997%) Epoch: [244] [200/391] Time 0.056 (0.057) Data 0.002 (0.005) Loss 0.0003 (0.0010) Prec 100.000% (99.996%) Epoch: [244] [200/391] Time 0.056 (0.057) Data 0.002 (0.005) Loss 0.0002 (0.0012) Prec 100.000% (99.966%) Epoch: [244] [300/391] Time 0.050 (0.057) Data 0.002 (0.004) Loss 0.0002 (0.0012) Prec 100.000% (99.966%) Epoch: [245] [100/391] Time 0.050 (0.057) Data 0.002 (0.004) Loss 0.0002 (0.0012) Prec 100.000% (99.966%) Epoch: [245] [100/391] Time 0.050 (0.057) Data 0.002 (0.0004) Loss 0.0002 (0.0001) Prec 100.000% (99.966%) Epoch: [245] [100/391] Time 0.052 (0.059) Data 0.002 (0.007) Loss 0.0003 (0.0001) Prec 100.000% (99.985%) Epoch: [245] [100/391] Time 0.055 (0.057) Data 0.002 (0.007) Loss 0.0003 (0.0001) Prec 100.000% (99.985%) Epoch: [245] [100/391] Time 0.055 (0.057) Data 0.002 (0.005) Loss 0.0001 (0.0007) Prec 100.000% (99.998%) Epoch: [245] [100/391] Time 0.055 (0.057) Data 0.002 (0.004) Loss 0.0001 (0.0007) Prec 100.000% (99.998%) Epoch: [245] [100/391] Time 0.055 (0.057) Data 0.002 (0.004) Loss 0.0001 (0.0007) Prec 100.000% (99.998%) Epoch: [246] [100/391] Time 0.050 (0.057) Data 0.002 (0.004) Loss 0.0002 (0.0006) Prec 100.000% (99.998%) Epoch: [246] [100/391] Time 0.057 (0.057) Data 0.002 (0.0007) Loss 0.0003 (0.0006) Prec 100.000% (99.999%) Validation starts Epoch: [246] [100/391] Time 0.057 (0.057) Data 0.002 (0.004) Loss 0	0.0002 (0.0002)	100 000% (100 00%	~% / `				
O.0008				Doto O	002 (0	006)	Togg
Epoch: [243] [200/391]	-			Data 0.	002 (0	.006)	LOSS
O.0004 (0.0008) Prec 100.000% (99.988%) Epoch: [243][300/391] Time 0.070 (0.057) Data 0.0002 (0.005) Loss 0.0001 (0.0008) Prec 100.000% (99.987%) Validation starts Sett: [0/79] Time 0.383 (0.383) Loss 0.1883 (0.1883) Prec 96.875% (96.875%) Free 92.870% Data 0.414 (0.414) Loss O.0001 Prec 100.000% (100.000%) Epoch: [244][0/391] Time 0.454 (0.454) Data 0.414 (0.414) Loss O.0001 Description Data O.002 (0.007) Loss O.0003 (0.0006) Prec 100.000% (100.000%) Epoch: [244][100/391] Time 0.054 (0.059) Data 0.002 (0.007) Loss O.0003 (0.0006) Prec 100.000% (99.977%) Epoch: [244][200/391] Time 0.056 (0.057) Data 0.002 (0.005) Loss O.0003 (0.0010) Prec 100.000% (99.969%) Epoch: [244][300/391] Time 0.049 (0.057) Data 0.002 (0.004) Loss O.0002 (0.0012) Prec 100.000% (99.966%) Epoch: [245][300/391] Time 0.413 (0.413) Data 0.369 (0.369) Loss O.0002 (0.0012) Prec 100.000% (100.000%) Epoch: [245][0/391] Time 0.413 (0.413) Data 0.369 (0.369) Loss O.0001 (0.0001) Prec 100.000% (100.000%) Epoch: [245][0/391] Time 0.052 (0.059) Data 0.002 (0.007) Loss O.0003 (0.0010) Prec 100.000% (99.985%) Epoch: [245][300/391] Time 0.055 (0.057) Data 0.002 (0.007) Loss O.002 (0.0008) Prec 100.000% (99.988%) Epoch: [245][300/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss O.0014 (0.0007) Prec 100.000% (99.998%) Epoch: [245][300/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss O.0014 (0.0007) Prec 100.000% (100.000%) Epoch: [245][300/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss O.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [246][3031] Time 0.052 (0.059) Data 0.002 (0.004) Loss O.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [246][3031] Time 0.052 (0.059) Data 0.002 (0.0004) Loss O.0003 (0.0006) Prec 100.000% (100.000%) Epoch: [246][300/391] Time 0.057 (0.057) Data 0.002 (0.0004) Loss O.0003 (0.0006) Pr				Do+o 0	004 (0	00E)	Logg
Epoch: [243][300/391]	•			Data 0.	004 (0	.003)	LOSS
O.0001 (0.0008)				Data O	002 (<u>0</u>	005)	Logg
Validation starts Test: [0/79] Time 0.383 (0.383) Loss 0.1883 (0.1883) Prec 96.875% (96.875%) * Prec 92.870% best acc: 92.990000 Epoch: [244] [0/391] Time 0.454 (0.454) Data 0.414 (0.414) Loss 0.0001 (0.0001) Prec 100.000% (100.000%) Epoch: [244] [100/391] Time 0.054 (0.059) Data 0.002 (0.007) Loss 0.0003 (0.0006) Prec 100.000% (99.977%) Epoch: [244] [200/391] Time 0.056 (0.057) Data 0.002 (0.004) Loss 0.0003 (0.0010) Prec 100.000% (99.968%) Epoch: [244] [300/391] Time 0.049 (0.057) Data 0.002 (0.004) Loss 0.0003 (0.0012) Prec 100.000% (99.966%) Validation starts Test: [0/79] Time 0.295 (0.295) Loss 0.1870 (0.1870) Prec 96.875% (96.875%) * Prec 92.810% best acc: 92.990000 Epoch: [245] [100/391] Time 0.413 (0.413) Data 0.369 (0.369) Loss 0.0001 (0.0001) Prec 100.000% (100.000%) Epoch: [245] [100/391] Time 0.052 (0.059) Data 0.002 (0.007) Loss 0.0001 (0.0001) Prec 100.000% (100.000%) Epoch: [245] [200/391] Time 0.052 (0.059) Data 0.002 (0.005) Loss 0.0021 (0.0008) Prec 100.000% (99.985%) Epoch: [245] [300/391] Time 0.055 (0.056) Data 0.002 (0.005) Loss 0.0001 (0.0007) Prec 100.000% (99.998%) Epoch: [245] [300/391] Time 0.055 (0.056) Data 0.002 (0.005) Loss 0.0001 (0.0007) Prec 100.000% (99.998%) Epoch: [245] [300/391] Time 0.055 (0.056) Data 0.002 (0.005) Loss 0.0001 (0.0007) Prec 100.000% (99.999%) Validation starts Erest: [0/79] Time 0.264 (0.264) Loss 0.1719 (0.1719) Prec 96.094% (96.094%) * Prec 92.900% best acc: 92.99000 Epoch: [246] [100/391] Time 0.055 (0.056) Data 0.002 (0.007) Loss 0.0003 (0.0008) Prec 100.000% (100.000%) Epoch: [246] [100/391] Time 0.055 (0.057) Data 0.002 (0.007) Loss 0.0003 (0.0008) Prec 100.000% (100.000%) Epoch: [246] [100/391] Time 0.055 (0.057) Data 0.002 (0.007) Loss 0.0003 (0.0008) Prec 100.000% (100.000%) Epoch: [246] [100/391] Time 0.057 (0.057) Data 0.002 (0.000) Loss 0.0003 (0.0008) Prec 100.000% (100.000%) Epoch: [246] [200/391] Time 0.057 (0.057) Data 0.002 (0.0004) Loss 0.0003 (0.0008) Prec 100.000% (100.000%) Epoch: [246] [200/391] Time 0.057 (0.0	-			Data 0.	002 (0	.003)	LOSS
Test: [0/79] Time 0.383 (0.383) Loss 0.1883 (0.1883) Prec 96.875% (96.875%) * Prec 92.870% best acc: 92.990000 Epoch: [244] [0/391] Time 0.454 (0.454) Data 0.414 (0.414) Loss 0.0001 (0.0001) Prec 100.000% (100.0007) Epoch: [244] [100/391] Time 0.054 (0.059) Data 0.002 (0.007) Loss 0.0003 (0.0006) Prec 100.000% (99.977%) Epoch: [244] [200/391] Time 0.056 (0.057) Data 0.002 (0.005) Loss 0.0003 (0.0010) Prec 100.000% (99.968%) Epoch: [244] [300/391] Time 0.049 (0.057) Data 0.002 (0.004) Loss 0.0002 (0.0012) Prec 100.000% (99.966%) Validation starts Test: [0/79] Time 0.295 (0.295) Loss 0.1870 (0.1870) Prec 96.875% (96.875%) * Prec 92.810% best acc: 92.990000 Epoch: [245] [100/391] Time 0.0413 (0.413) Data 0.369 (0.369) Loss 0.0001 (0.0001) Prec 100.000% (100.000%) Epoch: [245] [100/391] Time 0.052 (0.059) Data 0.002 (0.007) Loss 0.0001 (0.0001) Prec 100.000% (99.988%) Epoch: [245] [200/391] Time 0.055 (0.057) Data 0.002 (0.005) Loss 0.0011 (0.0008) Prec 100.000% (99.988%) Epoch: [245] [300/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss 0.0011 (0.0007) Prec 100.000% (99.988%) Epoch: [245] [300/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss 0.0011 (0.0007) Prec 100.000% (99.988%) Epoch: [245] [300/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss 0.0001 (0.0007) Prec 100.000% (99.988%) Epoch: [245] [300/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss 0.0011 (0.0007) Prec 100.000% (99.988%) Epoch: [245] [300/391] Time 0.055 (0.056) Data 0.002 (0.0004) Loss 0.0001 (0.0007) Prec 100.000% (99.988%) Epoch: [246] [100/391] Time 0.055 (0.056) Data 0.002 (0.0004) Loss 0.0002 (0.0006) Prec 100.000% (99.988%) Epoch: [246] [100/391] Time 0.055 (0.057) Data 0.002 (0.0007) Loss 0.0002 (0.0008) Prec 100.000% (99.988%) Epoch: [246] [200/391] Time 0.055 (0.057) Data 0.002 (0.0007) Loss 0.0002 (0.0008) Prec 100.000% (99.988%) Epoch: [246] [300/391] Time 0.055 (0.057) Data 0.002 (0.0005) Loss 0.0002 (0.0006) Prec 100.000% (99.998%)		100.000% (99.901)	/6 /				
(96.875%) * Prec 92.870% best acc: 92.990000 Epoch: [244] [0/391]		383 (0 383)	[0 g g 0 1	1883 (0	1883)	Drec	06 875 ⁹
* Prec 92.870% best acc: 92.990000 Epoch: [244][0/391]		303 (0.303)	LUSS U.I	1005 (0.	1000)	1160	30.010%
Dest acc: 92.990000 Epoch: [244] [0/391]							
Epoch: [244][0/391]							
O.0001 (0.0001)		Time 0 454 (0 454	4)	Data O	414 (0	414)	Ingg
Epoch: [244][100/391]	-			Data V.	414 (0	.414)	LUSS
O.0003 (0.0006) Prec 100.000% (99.977%) Epoch: [244] [200/391] Time 0.056 (0.057) Data 0.002 (0.005) Loss 0.0003 (0.0010) Prec 100.000% (99.969%) Epoch: [244] [300/391] Time 0.049 (0.057) Data 0.002 (0.004) Loss 0.0002 (0.0012) Prec 100.000% (99.966%) Validation starts Test: [0/79] Time 0.295 (0.295) Loss 0.1870 (0.1870) Prec 96.875% (96.875%) Prec 92.810% Best acc: 92.990000 Epoch: [245] [0/391] Time 0.413 (0.413) Data 0.369 (0.369) Loss 0.0001 (0.0001) Prec 100.000% (100.000%) Epoch: [245] [100/391] Time 0.052 (0.059) Data 0.002 (0.007) Loss 0.0001 (0.0008) Prec 100.000% (99.985%) Epoch: [245] [300/391] Time 0.055 (0.057) Data 0.002 (0.005) Loss 0.0021 (0.0008) Prec 100.000% (99.998%) Epoch: [245] [300/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss 0.0001 (0.0007) Prec 100.000% (99.999%) Validation starts Test: [0/79] Time 0.264 (0.264) Loss 0.1719 (0.1719) Prec 96.094% (96.094%) Prec 100.000% (100.000%) Epoch: [246] [0/391] Time 0.372 (0.372) Data 0.328 (0.328) Loss 0.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [246] [100/391] Time 0.052 (0.059) Data 0.002 (0.007) Loss 0.0002 (0.006) Prec 100.000% (99.9985%) Epoch: [246] [100/391] Time 0.057 (0.059) Data 0.002 (0.007) Loss 0.0002 (0.0006) Prec 100.000% (99.9985%) Epoch: [246] [200/391] Time 0.057 (0.057) Data 0.002 (0.005) Loss 0.0003 (0.0006) Prec 100.000% (99.9985%) Epoch: [246] [300/391] Time 0.057 (0.057) Data 0.002 (0.004) Loss 0.0003 (0.0006) Prec 100.000% (99.999%) Data 0.0002 (0.0004) Loss 0.0003 (0.0006) Prec 100.000% (99.999%) Data 0.0002 (0.0004) Loss 0.0003 (0.0006) Prec 100.000% (99.999%) Data 0.0002 (0.0004) Loss 0.0003 (0.0006) Prec 100.000% (99.999%) Data 0.0002 (0.0004) Loss 0.0003 (0.0006) Prec 100.000% (99.999%) Data 0.0002 (0.0004) Loss 0.0003 (0.0006) Prec 100.000% (99.999%) Data 0.0002 (0.0004) Loss 0.0003 (0.0006) Prec				D2+2 0	002 (O	007)	Logg
Epoch: [244] [200/391]	_			Data V.	002 (0	.001)	LOSS
0.0003 (0.0010)				Data O	002 (0	005)	Ingg
Epoch: [244][300/391]	-			Data V.	002 (0	.000)	LOSS
Validation starts Test: [0/79] Time 0.295 (0.295) Loss 0.1870 (0.1870) Prec 96.875% (96.875%) * Prec 92.810% best acc: 92.990000 Epoch: [245][0/391] Time 0.413 (0.413) Data 0.369 (0.369) Loss 0.0001 (0.0001) Prec 100.000% (100.000%) Epoch: [245][100/391] Time 0.052 (0.059) Data 0.002 (0.007) Loss 0.0003 (0.0010) Prec 100.000% (99.985%) Epoch: [245][200/391]] Time 0.055 (0.057) Data 0.002 (0.005) Loss 0.0011 (0.0008) Prec 100.000% (99.988%) Epoch: [245][300/391]] Time 0.055 (0.056) Data 0.002 (0.004) Loss 0.0011 (0.0007) Prec 100.000% (99.998%) Epoch: [245][300/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss 0.0001 (0.0007) Prec 100.000% (99.990%) Validation starts Test: [0/79] Time 0.264 (0.264) Loss 0.1719 (0.1719) Prec 96.094% (96.094%) * Prec 92.990% best acc: 92.990000 Epoch: [246][0/391] Time 0.372 (0.372) Data 0.328 (0.328) Loss 0.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [246][100/391] Time 0.052 (0.059) Data 0.002 (0.007) Loss 0.0002 (0.0006) Prec 100.000% (99.998%) Epoch: [246][200/391] Time 0.057 (0.057) Data 0.002 (0.005) Loss 0.0003 (0.0006) Prec 100.000% (99.9992%) Epoch: [246][300/391] Time 0.047 (0.057) Data 0.002 (0.004) Loss 0.0003 (0.0006) Prec 100.000% (99.9990%)				D2+2 0	002 (O	004)	Logg
Validation starts Test: [0/79]	-			Data 0.	002 (0	.004)	LOSS
Test: [0/79] Time 0.295 (0.295) Loss 0.1870 (0.1870) Prec 96.875% (96.875%) * Prec 92.810% best acc: 92.990000 Epoch: [245][0/391] Time 0.413 (0.413) Data 0.369 (0.369) Loss 0.0001 (0.0001) Prec 100.000% (100.000%) Epoch: [245][100/391] Time 0.052 (0.059) Data 0.002 (0.007) Loss 0.003 (0.0010) Prec 100.000% (99.985%) Epoch: [245][200/391] Time 0.055 (0.057) Data 0.002 (0.005) Loss 0.0021 (0.0008) Prec 100.000% (99.988%) Epoch: [245][300/391] Time 0.055 (0.056) Data 0.002 (0.004) Loss 0.0011 (0.0007) Prec 100.000% (99.990%) Validation starts Test: [0/79] Time 0.264 (0.264) Loss 0.1719 (0.1719) Prec 96.094% (96.094%) * Prec 92.900% best acc: 92.990000 Epoch: [246][0/391] Time 0.372 (0.372) Data 0.328 (0.328) Loss 0.0003 (0.0003) Prec 100.000% (100.0000%) Epoch: [246][100/391] Time 0.052 (0.059) Data 0.002 (0.007) Loss 0.0002 (0.0006) Prec 100.000% (99.985%) Epoch: [246][200/391] Time 0.057 (0.057) Data 0.002 (0.005) Loss 0.0003 (0.0006) Prec 100.000% (99.992%) Epoch: [246][300/391] Time 0.057 (0.057) Data 0.002 (0.005) Loss 0.0003 (0.0006) Prec 100.000% (99.992%) Epoch: [246][300/391] Time 0.057 (0.057) Data 0.002 (0.004) Loss 0.0003 (0.0006) Prec 100.000% (99.990%)		100.000% (33.300)	/0 /				
* Prec 92.810% best acc: 92.990000 Epoch: [245][0/391]		295 (0 295)	[nee	1870 (0	1870)	Proc	96 875%
* Prec 92.810% best acc: 92.990000 Epoch: [245][0/391]		200 (0.200)	LOBB 0.1	1070 (0.	10/0)	1160	30.010%
best acc: 92.990000 Fpoch: [245][0/391] Time 0.413 (0.413) Data 0.369 (0.369) Loss 0.0001 (0.0001) Prec 100.000% (100.000%) Data 0.002 (0.007) Loss 0.0003 (0.0010) Prec 100.000% (99.985%) Data 0.002 (0.005) Loss 0.0021 (0.0008) Prec 100.000% (99.988%) Data 0.002 (0.004) Loss 0.0021 (0.0008) Prec 100.000% (99.990%) Data 0.002 (0.004) Loss 0.0001 (0.0007) Prec 100.000% (99.990%) Prec 100.000% (99.990%) Prec 100.000% (99.990%) Prec 96.094% Validation starts Time 0.264 (0.264) Loss 0.1719 (0.1719) Prec 96.094% * Prec 92.900% Prec 92.900% Prec 92.900% Prec 92.900% Prec 92.900% best acc: 92.990000 Prec 100.000% (100.000%) Prec 100.000% (100.000%) Prec 100.000% (100.000%) Prec 100.000% (100.000%) Epoch: [246][0/391] Time 0.052 (0.059) Data 0.002 (0.007) Loss 0.0002 (0.0006) Prec 100.000% (99.995%) Prec 100.000% (99.995%) Prec 100.000% (99.992%) Epoch: [246][300/391] Time 0.047 (0.057) Data 0.002 (0.004) Loss							
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* Prec 92.900% best acc: 92.990000 Epoch: [246][0/391] Time 0.372 (0.372) Data 0.328 (0.328) Loss 0.0003 (0.0003) Prec 100.000% (100.000%) Epoch: [246][100/391] Time 0.052 (0.059) Data 0.002 (0.007) Loss 0.0002 (0.006) Prec 100.000% (99.985%) Epoch: [246][200/391] Time 0.057 (0.057) Data 0.002 (0.005) Loss 0.0003 (0.0006) Prec 100.000% (99.992%) Epoch: [246][300/391] Time 0.047 (0.057) Data 0.002 (0.004) Loss 0.0003 (0.0006) Prec 100.000% (99.990%) Validation starts		201 (0.201)	1000 0.1	1110 (0.	1110)	1100	00.001/
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0.0002 (0.0006) Prec 100.000% (99.985%) Epoch: [246][200/391] Time 0.057 (0.057) Data 0.002 (0.005) Loss 0.0003 (0.0006) Prec 100.000% (99.992%) Epoch: [246][300/391] Time 0.047 (0.057) Data 0.002 (0.004) Loss 0.0003 (0.0006) Prec 100.000% (99.990%) Validation starts				Data 0.	002 (0	.007)	Loss
Epoch: [246][200/391] Time 0.057 (0.057) Data 0.002 (0.005) Loss 0.0003 (0.0006) Prec 100.000% (99.992%) Epoch: [246][300/391] Time 0.047 (0.057) Data 0.002 (0.004) Loss 0.0003 (0.0006) Prec 100.000% (99.990%) Validation starts	-			2404 01		,	
0.0003 (0.0006) Prec 100.000% (99.992%) Epoch: [246][300/391] Time 0.047 (0.057) Data 0.002 (0.004) Loss 0.0003 (0.0006) Prec 100.000% (99.990%) Validation starts				Data O.	002 (0	.005)	Loss
Epoch: [246][300/391] Time 0.047 (0.057) Data 0.002 (0.004) Loss 0.0003 (0.0006) Prec 100.000% (99.990%) Validation starts	-			Dava v.	002 (0	.000)	2000
0.0003 (0.0006) Prec 100.000% (99.990%) Validation starts				Data O.	002 (0	.004)	Loss
Validation starts	_					,	_000
		387 (0.387)	Loss 0.1	1435 (0.	1435)	Prec	97.656%

(97.656%)	
* Prec 92.800%	
best acc: 92.990000	
Epoch: [247][0/391] Time 0.461 (0.461)	Data 0.405 (0.405) Loss
0.0002 (0.0002) Prec 100.000% (100.000%)	
Epoch: [247][100/391] Time 0.054 (0.060)	Data 0.002 (0.008) Loss
0.0003 (0.0007) Prec 100.000% (99.992%)	
Epoch: [247][200/391] Time 0.052 (0.058)	Data 0.002 (0.005) Loss
0.0007 (0.0009) Prec 100.000% (99.977%)	
Epoch: [247][300/391] Time 0.052 (0.057)	Data 0.002 (0.004) Loss
0.0002 (0.0008) Prec 100.000% (99.982%)	
Validation starts	
Test: [0/79] Time 0.368 (0.368) Loss	0.1656 (0.1656) Prec 96.094%
(96.094%)	
* Prec 93.000%	
best acc: 93.000000	D
Epoch: [248] [0/391] Time 0.382 (0.382)	Data 0.342 (0.342) Loss
0.0004 (0.0004) Prec 100.000% (100.000%)	D
Epoch: [248] [100/391] Time 0.055 (0.059)	Data 0.004 (0.006) Loss
0.0001 (0.0006) Prec 100.000% (99.992%)	D
Epoch: [248] [200/391] Time 0.052 (0.057)	Data 0.004 (0.005) Loss
0.0001 (0.0006) Prec 100.000% (99.992%)	Data 0.000 (0.004) I are
Epoch: [248] [300/391] Time 0.056 (0.057)	Data 0.002 (0.004) Loss
0.0002 (0.0006) Prec 100.000% (99.992%) Validation starts	
Test: [0/79] Time 0.401 (0.401) Loss	0.1422 (0.1422) Prec 96.094%
(96.094%)	0.1422 (0.1422) Prec 96.094%
* Prec 92.840%	
best acc: 93.000000	
Epoch: [249][0/391] Time 0.445 (0.445)	Data 0.401 (0.401) Loss
0.0002 (0.0002) Prec 100.000% (100.000%)	Data 0.101 (0.101) Lobb
Epoch: [249][100/391] Time 0.049 (0.059)	Data 0.002 (0.007) Loss
0.0010 (0.0009) Prec 100.000% (99.961%)	2404 01002 (01001) 2002
Epoch: [249][200/391] Time 0.055 (0.057)	Data 0.002 (0.005) Loss
0.0002 (0.0009) Prec 100.000% (99.973%)	
Epoch: [249][300/391] Time 0.054 (0.057)	Data 0.002 (0.005) Loss
0.0001 (0.0010) Prec 100.000% (99.969%)	, , ,
Validation starts	
Test: [0/79] Time 0.352 (0.352) Loss	0.1474 (0.1474) Prec 96.875%
(96.875%)	
* Prec 92.830%	
best acc: 93.000000	
Epoch: [250][0/391] Time 0.394 (0.394)	Data 0.354 (0.354) Loss
0.0003 (0.0003) Prec 100.000% (100.000%)	
Epoch: [250][100/391] Time 0.053 (0.059)	Data 0.002 (0.006) Loss
0.0001 (0.0007) Prec 100.000% (99.985%)	
Epoch: [250][200/391] Time 0.062 (0.057)	Data 0.002 (0.004) Loss
0 0004 (0 0000) B 400 000W (00 077W)	
0.0001 (0.0009) Prec 100.000% (99.977%)	

Epoch: [250][300/391] Time 0.056 (0.056) 0.0013 (0.0009) Prec 100.000% (99.979%)	Data 0.002 (0.004) Loss
Validation starts Test: [0/79] Time 0.316 (0.316) Loss (96.094%)	0.1543 (0.1543) Prec 96.094%
* Prec 92.730%	
best acc: 93.000000	
Epoch: [251] [0/391] Time 0.495 (0.495)	Data 0.454 (0.454) Loss
0.0002 (0.0002) Prec 100.000% (100.000%)	
Epoch: [251][100/391] Time 0.058 (0.060)	Data 0.002 (0.008) Loss
0.0003 (0.0008) Prec 100.000% (99.977%)	
Epoch: [251][200/391] Time 0.057 (0.057)	Data 0.002 (0.005) Loss
0.0002 (0.0007) Prec 100.000% (99.977%)	
Epoch: [251][300/391] Time 0.058 (0.057)	Data 0.002 (0.004) Loss
0.0008 (0.0006) Prec 100.000% (99.984%)	
Validation starts	
Test: [0/79] Time 0.388 (0.388) Loss	0.1481 (0.1481) Prec 96.094%
(96.094%)	
* Prec 92.770%	
best acc: 93.000000	
Epoch: [252][0/391] Time 0.477 (0.477)	Data 0.437 (0.437) Loss
0.0013 (0.0013) Prec 100.000% (100.000%)	
Epoch: [252][100/391] Time 0.058 (0.060)	Data 0.002 (0.008) Loss
0.0002 (0.0011) Prec 100.000% (99.969%)	
Epoch: [252][200/391] Time 0.060 (0.058)	Data 0.015 (0.006) Loss
0.0009 (0.0009) Prec 100.000% (99.981%)	
Epoch: [252][300/391] Time 0.057 (0.057)	Data 0.002 (0.005) Loss
0.0001 (0.0009) Prec 100.000% (99.982%)	
Validation starts	
Test: [0/79] Time 0.412 (0.412) Loss	0.1597 (0.1597) Prec 96.094%
(96.094%)	
* Prec 92.540%	
best acc: 93.000000	
Epoch: [253][0/391] Time 0.466 (0.466)	Data 0.410 (0.410) Loss
0.0002 (0.0002) Prec 100.000% (100.000%)	
Epoch: [253][100/391] Time 0.055 (0.059)	Data 0.002 (0.006) Loss
0.0009 (0.0007) Prec 100.000% (99.985%)	
Epoch: [253] [200/391] Time 0.049 (0.057)	Data 0.002 (0.004) Loss
0.0002 (0.0008) Prec 100.000% (99.984%)	, , , , , , , , , , , , , , , , , , ,
Epoch: [253] [300/391] Time 0.055 (0.056)	Data 0.002 (0.003) Loss
0.0003 (0.0007) Prec 100.000% (99.987%)	
Validation starts	
	0.1498 (0.1498) Prec 96.875%
(96.875%)	1100 00.0100
* Prec 92.900%	
best acc: 93.000000	
Epoch: [254][0/391] Time 0.457 (0.457)	Data 0.413 (0.413) Loss
0.0001 (0.0001) Prec 100.000% (100.000%)	2000
(======================================	

Epoch: [254][100/391] Time 0.050 (0.059)	Data 0.002 (0.007) Loss
0.0007 (0.0012) Prec 100.000% (99.954%) Epoch: [254] [200/391] Time 0.056 (0.057)	Data 0.002 (0.005) Loss
0.0002 (0.0008) Prec 100.000% (99.973%) Epoch: [254] [300/391] Time 0.050 (0.056) 0.0002 (0.0007) Prec 100.000% (99.979%)	Data 0.002 (0.005) Loss
Validation starts Test: [0/79] Time 0.364 (0.364) Loss (96.094%)	s 0.1558 (0.1558) Prec 96.094%
* Prec 92.820%	
best acc: 93.000000	
Epoch: [255][0/391] Time 0.372 (0.372)	Data 0.331 (0.331) Loss
0.0022 (0.0022) Prec 100.000% (100.000%)	
Epoch: [255][100/391] Time 0.054 (0.058)	Data 0.002 (0.006) Loss
0.0002 (0.0010) Prec 100.000% (99.969%)	
Epoch: [255] [200/391] Time 0.054 (0.057)	Data 0.002 (0.005) Loss
0.0016 (0.0010) Prec 100.000% (99.969%)	D
Epoch: [255] [300/391] Time 0.054 (0.056)	Data 0.002 (0.004) Loss
0.0002 (0.0010) Prec 100.000% (99.969%)	
Validation starts Test: [0/79] Time 0.282 (0.282) Loss	n 0 1421 (0 1421) Proc 07 6569
(97.656%)	5 U.1421 (U.1421) FIEC 97.030%
* Prec 92.790%	
best acc: 93.000000	
Epoch: [256] [0/391] Time 0.395 (0.395)	Data 0.351 (0.351) Loss
0.0038 (0.0038) Prec 100.000% (100.000%)	Data 0.331 (0.331) Loss
Epoch: [256] [100/391] Time 0.056 (0.058)	Data 0.002 (0.006) Loss
0.0001 (0.0009) Prec 100.000% (99.969%)	2434 0.002 (0.000) 1000
Epoch: [256] [200/391] Time 0.056 (0.057)	Data 0.002 (0.004) Loss
0.0003 (0.0009) Prec 100.000% (99.969%)	2000 0.002 (0.001), 2000
Epoch: [256][300/391] Time 0.054 (0.056)	Data 0.002 (0.004) Loss
0.0003 (0.0009) Prec 100.000% (99.971%)	
Validation starts	
Test: [0/79] Time 0.324 (0.324) Loss	s 0.1390 (0.1390) Prec 97.656%
(97.656%)	
* Prec 92.970%	
best acc: 93.000000	
Epoch: [257][0/391] Time 0.443 (0.443)	Data 0.400 (0.400) Loss
0.0003 (0.0003) Prec 100.000% (100.000%)	
Epoch: [257][100/391] Time 0.061 (0.059)	Data 0.002 (0.007) Loss
0.0005 (0.0005) Prec 100.000% (99.992%)	
Epoch: [257][200/391] Time 0.052 (0.057)	Data 0.002 (0.005) Loss
0.0002 (0.0005) Prec 100.000% (99.996%)	
Epoch: [257][300/391] Time 0.055 (0.057)	Data 0.002 (0.004) Loss
0.0009 (0.0004) Prec 100.000% (99.997%)	
Validation starts	
Test: [0/79] Time 0.296 (0.296) Loss	s 0.1751 (0.1751) Prec 96.875%
(96.875%)	

```
* Prec 92.680%
    best acc: 93.000000
    Epoch: [258] [0/391]
                            Time 0.447 (0.447)
                                                     Data 0.405 (0.405)
                                                                             Loss
    0.0001 (0.0001)
                       Prec 100.000% (100.000%)
    Epoch: [258] [100/391]
                            Time 0.056 (0.059)
                                                     Data 0.002 (0.007)
                                                                             Loss
    0.0001 (0.0004)
                       Prec 100.000% (99.992%)
    Epoch: [258] [200/391]
                            Time 0.055 (0.057)
                                                     Data 0.002 (0.005)
                                                                             Loss
    0.0005 (0.0005)
                       Prec 100.000% (99.988%)
    Epoch: [258] [300/391]
                            Time 0.055 (0.056)
                                                     Data 0.002 (0.004)
                                                                             Loss
    0.0004 (0.0006)
                       Prec 100.000% (99.987%)
    Validation starts
    Test: [0/79]
                                            Loss 0.1534 (0.1534)
                    Time 0.341 (0.341)
                                                                     Prec 96.875%
    (96.875\%)
     * Prec 92.850%
    best acc: 93.000000
    Epoch: [259] [0/391]
                            Time 0.377 (0.377)
                                                     Data 0.323 (0.323)
                                                                             Loss
    0.0007 (0.0007)
                       Prec 100.000% (100.000%)
    Epoch: [259] [100/391]
                            Time 0.059 (0.059)
                                                     Data 0.002 (0.008)
                                                                             Loss
    0.0026 (0.0008)
                       Prec 100.000% (99.977%)
                                                     Data 0.002 (0.005)
    Epoch: [259] [200/391]
                            Time 0.056 (0.057)
                                                                             Loss
    0.0006 (0.0007)
                       Prec 100.000% (99.984%)
    Epoch: [259] [300/391]
                            Time 0.071 (0.057)
                                                     Data 0.002 (0.004)
                                                                             Loss
    0.0002 (0.0007)
                       Prec 100.000% (99.982%)
    Validation starts
                                        Loss 0.1598 (0.1598)
    Test: [0/79]
                    Time 0.358 (0.358)
                                                                     Prec 96.875%
    (96.875\%)
     * Prec 92.890%
    best acc: 93.000000
[2]: PATH = "result/VGG16_quant_4bit_hw7/model_best.pth.tar"
     checkpoint = torch.load(PATH)
     model.load_state_dict(checkpoint['state_dict'])
     device = torch.device("cuda")
     model.cuda()
     model.eval()
     test_loss = 0
     correct = 0
     with torch.no_grad():
         for data, target in testloader:
             data, target = data.to(device), target.to(device) # loading to GPU
             output = model(data)
             pred = output.argmax(dim=1, keepdim=True)
             correct += pred.eq(target.view_as(pred)).sum().item()
```

Test set: Accuracy: 9300/10000 (93%)

0.1 Unstructured Pruning

```
[6]: # Further fine-tuning, but you can stop here
     lr = 4e-2 #hyperparameter 2
     weight_decay = 1e-4 #hyperparameter 3
     epochs = 100 #hyperparameter 4
     best_prec = 0 #hyperparameter 5
     #model = nn.DataParallel(model).cuda()
     copied_model.cuda()
     criterion = nn.CrossEntropyLoss().cuda()
     optimizer = torch.optim.SGD(copied_model.parameters(), lr=lr, momentum=0.9, __
      →weight_decay=weight_decay)
     #cudnn.benchmark = True
     if not os.path.exists('result'):
         os.makedirs('result')
     fdir = 'result/'+str(model_name)+'_finetuning'
     if not os.path.exists(fdir):
         os.makedirs(fdir)
     for epoch in range(0, epochs):
         adjust_learning_rate(optimizer, epoch)
         train(trainloader, copied_model, criterion, optimizer, epoch)
         # evaluate on test set
         print("Validation starts")
         prec = validate(testloader, copied_model, criterion)
         # remember best precision and save checkpoint
         is_best = prec > best_prec
         best_prec = max(prec,best_prec)
         print('best acc: {:1f}'.format(best_prec))
         save_checkpoint({
             'epoch': epoch + 1,
             'state_dict': copied_model.state_dict(),
             'best_prec': best_prec,
             'optimizer': optimizer.state_dict(),
         }, is_best, fdir)
```

```
Epoch: [0][0/391] Time 0.533 (0.533) Data 0.243 (0.243) Loss 3.4165 (3.4165) Prec 36.719% (36.719%) Epoch: [0][100/391] Time 0.053 (0.060) Data 0.002 (0.004) Loss 0.6189 (0.9439) Prec 78.906% (72.509%) Epoch: [0][200/391] Time 0.055 (0.058) Data 0.001 (0.003) Loss
```

0.2838 (0.6465) Prec 90.625% (80.344%) Epoch: [0][300/391] Time 0.052 (0.057) Data 0.001 (0.002) Loss 0.2638 (0.5258) Prec 93.750% (83.651%)
0.2638 (0.5258) Prec 93.750% (83.651%)
V-1:4-+:
Validation starts
Test: [0/79] Time 0.250 (0.250) Loss 0.3489 (0.3489) Prec 89.062%
(89.062%)
* Prec 85.710%
best acc: 85.710000
Epoch: [1][0/391] Time 0.284 (0.284) Data 0.234 (0.234) Loss
0.1898 (0.1898) Prec 92.969% (92.969%)
Epoch: [1][100/391] Time 0.055 (0.057) Data 0.001 (0.004) Loss
0.1852 (0.1883) Prec 93.750% (93.773%)
Epoch: [1][200/391] Time 0.057 (0.056) Data 0.001 (0.003) Loss
0.1663 (0.1902) Prec 92.188% (93.645%)
0.1897 (0.1869) Prec 94.531% (93.675%)
Validation starts
Test: [0/79] Time 0.248 (0.248) Loss 0.2048 (0.2048) Prec 92.188%
(92.188%)
* Prec 88.590%
best acc: 88.590000
Epoch: [2][0/391] Time 0.298 (0.298) Data 0.254 (0.254) Loss
0.1384 (0.1384) Prec 94.531% (94.531%)
Epoch: [2][100/391] Time 0.056 (0.058) Data 0.001 (0.004) Loss
0.0894 (0.1447) Prec 96.875% (95.003%)
Epoch: [2][200/391] Time 0.057 (0.057) Data 0.002 (0.003) Loss
0.0948 (0.1474) Prec 96.875% (94.924%)
Epoch: [2][300/391] Time 0.056 (0.056) Data 0.001 (0.002) Loss
0.1942 (0.1476) Prec 92.188% (94.882%)
Validation starts
Test: [0/79] Time 0.229 (0.229) Loss 0.2228 (0.2228) Prec 92.188%
(92.188%)
* Prec 89.310%
best acc: 89.310000
Epoch: [3][0/391] Time 0.279 (0.279) Data 0.232 (0.232) Loss
0.1123 (0.1123) Prec 96.875% (96.875%)
Epoch: [3][100/391] Time 0.055 (0.057) Data 0.001 (0.004) Loss
0.0928 (0.1276) Prec 97.656% (95.575%)
Epoch: [3] [200/391] Time 0.055 (0.056) Data 0.001 (0.003) Loss
0.0597 (0.1247) Prec 97.656% (95.596%)
Epoch: [3][300/391] Time 0.057 (0.056) Data 0.001 (0.002) Loss
0.1036 (0.1273) Prec 95.312% (95.528%)
Validation starts
Test: [0/79] Time 0.212 (0.212) Loss 0.2350 (0.2350) Prec 90.625%
(90.625%)
* Prec 89.450%
best acc: 89.450000
Epoch: [4][0/391] Time 0.298 (0.298) Data 0.251 (0.251) Loss

0.4562 (0.4562)	(00 000%)			
0.1563 (0.1563) Prec 92.969%		D-+- 0 00	1 (0 004)	T
Epoch: [4][100/391] Time 0.		Data 0.00	01 (0.004)	Loss
0.0471 (0.1143) Prec 98.438% Epoch: [4][200/391] Time 0.	056 (0.057)	D-+- 0 00	20 (0 002)	T
0.0722 (0.1143) Prec 96.875%		Data 0.00	02 (0.003)	Loss
		Do+o 0 00	22 (0 002)	Togg
Epoch: [4][300/391] Time 0. 0.0837 (0.1159) Prec 96.094%		Data 0.00	02 (0.002)	Loss
Validation starts	(90.000%)			
Test: [0/79] Time 0.268 (0.2	68) I ogg	0 2025 (0 20	225) Prec	90 625%
(90.625%)	00) LOSS	0.2925 (0.23	723) Fiec	90.025%
* Prec 89.220%				
best acc: 89.450000				
Epoch: [5] [0/391] Time 0.	300 (0 300)	D2+2 0 21	50 (0.250)	Loss
0.1592 (0.1592) Prec 92.969%		Data 0.20	0.230)	LUSS
Epoch: [5] [100/391] Time 0.		Da+a 0 00	02 (0.004)	Loss
0.0478 (0.0933) Prec 98.438%		Data 0.00	72 (0:004)	LOSS
	058 (0.057)	Data 0 00	01 (0.003)	Loss
0.0839 (0.0977) Prec 97.656%		Data 0.00)1 (0.000)	LOSS
Epoch: [5] [300/391] Time 0.		Data 0 00	01 (0.002)	Loss
0.1042 (0.0987) Prec 95.312%		Data 0.00)1 (0.002)	LOSS
Validation starts	(30.401%)			
Test: [0/79] Time 0.208 (0.2	08) [099	0 2529 (0 25	529) Prec	92 188%
(92.188%)	oo, Lobb	0.2020 (0.20	720) 1100	32.100%
* Prec 89.520%				
best acc: 89.520000				
Epoch: [6][0/391] Time 0.	294 (0.294)	Data 0.24	15 (0.245)	Loss
0.0706 (0.0706) Prec 96.094%		2404 012	10 (01210)	
	056 (0.058)	Data 0.00	01 (0.004)	Loss
0.0481 (0.0953) Prec 98.438%			(,	
Epoch: [6][200/391] Time 0.		Data 0.00	01 (0.003)	Loss
0.1084 (0.0978) Prec 96.094%			(,	
	053 (0.056)	Data 0.00	01 (0.002)	Loss
0.0577 (0.0980) Prec 99.219%			(,	
Validation starts	(0.010.770)			
Test: [0/79] Time 0.211 (0.2	11) Loss	0.2190 (0.2	190) Prec	93.750%
(93.750%)		0.2200 (0.2	1200	001.0070
* Prec 89.040%				
best acc: 89.520000				
Epoch: [7][0/391] Time 0.	280 (0.280)	Data 0.23	30 (0.230)	Loss
0.0332 (0.0332) Prec 100.000				
	057 (0.058)	Data 0.00	01 (0.004)	Loss
0.0835 (0.0909) Prec 95.312%				
	055 (0.057)	Data 0.00	02 (0.003)	Loss
0.0883 (0.0871) Prec 97.656%				
Epoch: [7][300/391] Time 0.		Data 0.00	0.002)	Loss
0.0674 (0.0887) Prec 97.656%			-	
Validation starts				
Test: [0/79] Time 0.207 (0.2	07) Loss	0.2180 (0.2	l80) Prec	92.188%

(92.188%) * Prec 89.060%	
best acc: 89.520000 Epoch: [8][0/391] Time 0.280 (0.280)	Data 0.232 (0.232) Loss
0.0759 (0.0759) Prec 96.875% (96.875%) Epoch: [8][100/391] Time 0.059 (0.058)	Data 0.001 (0.004) Loss
0.0498 (0.0767) Prec 97.656% (97.424%) Epoch: [8][200/391] Time 0.055 (0.057)	Data 0.001 (0.003) Loss
0.0825 (0.0819) Prec 95.312% (97.163%)	
Epoch: [8] [300/391] Time 0.050 (0.056) 0.0568 (0.0816) Prec 97.656% (97.103%)	Data 0.001 (0.002) Loss
Validation starts Test: [0/79] Time 0.203 (0.203) Loss	0.2084 (0.2084) Prec 92.969%
(92.969%)	
* Prec 89.310%	
best acc: 89.520000 Epoch: [9][0/391] Time 0.250 (0.250)	Data 0.209 (0.209) Loss
0.0326 (0.0326) Prec 97.656% (97.656%) Epoch: [9][100/391] Time 0.061 (0.057)	Data 0.002 (0.004) Loss
0.0417 (0.0840) Prec 98.438% (97.061%)	Data 0.002 (0.004) Loss
Epoch: [9][200/391] Time 0.056 (0.056) 0.0890 (0.0860) Prec 97.656% (97.058%)	Data 0.001 (0.003) Loss
Epoch: [9][300/391] Time 0.055 (0.056)	Data 0.002 (0.002) Loss
0.0662 (0.0826) Prec 97.656% (97.197%)	
Validation starts Test: [0/79] Time 0.187 (0.187) Loss	0.1786 (0.1786) Prec 93.750%
(93.750%)	
* Prec 90.170%	
best acc: 90.170000	
Epoch: [10] [0/391] Time 0.248 (0.248)	Data 0.198 (0.198) Loss
0.1027 (0.1027) Prec 97.656% (97.656%)	D
Epoch: [10] [100/391] Time 0.055 (0.057)	Data 0.002 (0.004) Loss
0.0446 (0.0788) Prec 97.656% (97.146%) Epoch: [10][200/391] Time 0.055 (0.056)	Data 0.001 (0.003) Loss
0.0497 (0.0752) Prec 98.438% (97.326%)	Data 0.001 (0.003) Loss
Epoch: [10] [300/391] Time 0.055 (0.056)	Data 0.001 (0.002) Loss
0.1634 (0.0767) Prec 95.312% (97.290%)	
Validation starts	
Test: [0/79] Time 0.203 (0.203) Loss	0.1581 (0.1581) Prec 97.656%
(97.656%)	
* Prec 89.060%	
best acc: 90.170000	Data 0 015 (0 015) I aaa
Epoch: [11] [0/391] Time 0.265 (0.265) 0.1037 (0.1037) Prec 96.094% (96.094%)	Data 0.215 (0.215) Loss
Epoch: [11] [100/391] Time 0.056 (0.057)	Data 0.002 (0.004) Loss
0.0309 (0.0729) Prec 99.219% (97.447%)	
Epoch: [11][200/391] Time 0.051 (0.056)	Data 0.002 (0.003) Loss
0.0434 (0.0714) Prec 97.656% (97.532%)	

Epoch: [11][300/391] Time 0.056 (0.056) 0.0838 (0.0719) Prec 98.438% (97.482%) Validation starts	Data 0.002 (0.002) Loss
Test: [0/79] Time 0.229 (0.229) Loss (92.969%)	0.1214 (0.1214) Prec 92.969%
* Prec 90.390%	
best acc: 90.390000	
Epoch: [12][0/391] Time 0.299 (0.299)	Data 0.252 (0.252) Loss
0.0116 (0.0116) Prec 100.000% (100.000%)	
Epoch: [12][100/391] Time 0.060 (0.058)	Data 0.002 (0.004) Loss
0.0584 (0.0672) Prec 98.438% (97.664%)	
Epoch: [12] [200/391] Time 0.056 (0.057)	Data 0.002 (0.003) Loss
0.0682 (0.0686) Prec 96.875% (97.579%)	
Epoch: [12] [300/391] Time 0.056 (0.056)	Data 0.001 (0.003) Loss
0.0393 (0.0729) Prec 97.656% (97.410%)	2404 00002 (00000) 2000
Validation starts	
Test: [0/79] Time 0.201 (0.201) Loss	0.1899 (0.1899) Prec 92.969%
(92.969%)	0.1000 (0.1000) 1100 02.000%
* Prec 89.380%	
best acc: 90.390000	
Epoch: [13] [0/391] Time 0.275 (0.275)	Data 0.228 (0.228) Loss
0.1190 (0.1190) Prec 96.875% (96.875%)	Data 0.220 (0.220) Lobb
Epoch: [13] [100/391] Time 0.049 (0.058)	Data 0.002 (0.004) Loss
0.0776 (0.0708) Prec 96.094% (97.517%)	Data 0.002 (0.004) Loss
Epoch: [13] [200/391] Time 0.056 (0.057)	Data 0.002 (0.003) Loss
0.1123 (0.0721) Prec 96.094% (97.520%)	Data 0.002 (0.000) Loss
Epoch: [13] [300/391] Time 0.056 (0.056)	Data 0.002 (0.002) Loss
0.0635 (0.0729) Prec 96.875% (97.472%)	Data 0.002 (0.002) LOSS
Validation starts	
Test: [0/79] Time 0.250 (0.250) Loss	0 2562 (0 2562) Proc 01 4069
(91.406%)	0.2502 (0.2502) Fied 91.400%
* Prec 89.960%	
best acc: 90.390000	
Epoch: [14] [0/391] Time 0.260 (0.260)	Data 0.212 (0.212) Loss
-	Data 0.212 (0.212) Loss
0.0662 (0.0662) Prec 96.875% (96.875%) Epoch: [14][100/391] Time 0.061 (0.058)	Data 0.001 (0.004) Loss
-	Data 0.001 (0.004) Loss
0.0568 (0.0579) Prec 97.656% (98.012%)	Data 0 000 (0 000)
Epoch: [14] [200/391] Time 0.056 (0.057)	Data 0.002 (0.003) Loss
0.0671 (0.0640) Prec 96.094% (97.839%)	D-+- 0 000 (0 000) I
-	Data 0.002 (0.002) Loss
0.1507 (0.0699) Prec 95.312% (97.615%)	
Validation starts	0.4040 (0.4040)
Test: [0/79] Time 0.208 (0.208) Loss	0.1640 (0.1640) Prec 94.531%
(94.531%)	
* Prec 90.900%	
best acc: 90.900000	D-+- 0 000 (0 000)
Epoch: [15] [0/391] Time 0.271 (0.271)	Data 0.222 (0.222) Loss
0.0588 (0.0588) Prec 97.656% (97.656%)	·

Epoch: [15] [100/391] Time 0.056 (0.058) Data 0.001 (0.004) Los	SS
0.0564 (0.0585) Prec 97.656% (97.896%) Epoch: [15] [200/391] Time 0.056 (0.057) Data 0.001 (0.003) Los	SS
0.0479 (0.0636) Prec 98.438% (97.812%) Epoch: [15] [300/391] Time 0.055 (0.057) Data 0.002 (0.003) Los 0.0884 (0.0658) Prec 95.312% (97.711%)	SS
Validation starts Test: [0/79] Time 0.250 (0.250) Loss 0.3213 (0.3213) Prec 92.969 (92.969%)	9%
* Prec 89.160%	
best acc: 90.900000	
Epoch: [16] [0/391] Time 0.272 (0.272) Data 0.226 (0.226) Los	SS
0.0383 (0.0383) Prec 98.438% (98.438%)	
Epoch: [16][100/391] Time 0.048 (0.058) Data 0.002 (0.004) Los	SS
0.0696 (0.0574) Prec 97.656% (98.028%)	
Epoch: [16][200/391] Time 0.054 (0.057) Data 0.002 (0.003) Los	SS
0.1428 (0.0624) Prec 96.875% (97.854%)	
Epoch: [16][300/391] Time 0.058 (0.057) Data 0.002 (0.003) Los	SS
0.1587 (0.0641) Prec 96.875% (97.755%)	
Validation starts	
Test: [0/79] Time 0.247 (0.247) Loss 0.1602 (0.1602) Prec 96.094	4%
(96.094%)	
* Prec 89.880%	
best acc: 90.900000	
Epoch: [17] [0/391] Time 0.280 (0.280) Data 0.235 (0.235) Los	SS
0.0471 (0.0471) Prec 97.656% (97.656%)	
Epoch: [17] [100/391] Time 0.056 (0.058) Data 0.002 (0.004) Los	SS
0.0515 (0.0698) Prec 98.438% (97.455%)	
Epoch: [17][200/391] Time 0.056 (0.057) Data 0.002 (0.003) Los	SS
0.0710 (0.0683) Prec 96.875% (97.567%)	
Epoch: [17] [300/391] Time 0.055 (0.056) Data 0.002 (0.002) Los	SS
0.1042 (0.0700) Prec 94.531% (97.555%)	
Validation starts	
Test: [0/79] Time 0.223 (0.223) Loss 0.1956 (0.1956) Prec 92.969	9%
(92.969%)	
* Prec 90.320%	
best acc: 90.900000	
Epoch: [18] [0/391] Time 0.274 (0.274) Data 0.225 (0.225) Los	SS
0.0966 (0.0966) Prec 96.094% (96.094%)	
Epoch: [18] [100/391] Time 0.056 (0.058) Data 0.002 (0.004) Los	SS
0.0391 (0.0586) Prec 98.438% (97.896%)	
Epoch: [18] [200/391] Time 0.056 (0.057) Data 0.002 (0.003) Los	SS
0.0765 (0.0617) Prec 96.875% (97.866%)	
Epoch: [18] [300/391] Time 0.056 (0.056) Data 0.002 (0.002) Los	SS
0.0488 (0.0616) Prec 97.656% (97.848%)	
Validation starts	
Test: [0/79] Time 0.254 (0.254) Loss 0.1656 (0.1656) Prec 94.533	1%
(94.531%)	

* Prec 89.600%		
best acc: 90.900000		
Epoch: [19][0/391] Time 0.265 (0.265)	Data 0.219 (0.219)	Loss
0.0786 (0.0786) Prec 97.656% (97.656%)		
Epoch: [19][100/391] Time 0.055 (0.058)	Data 0.002 (0.004)	Loss
0.0360 (0.0632) Prec 99.219% (97.834%)		
Epoch: [19][200/391] Time 0.055 (0.057)	Data 0.001 (0.003)	Loss
0.0306 (0.0627) Prec 99.219% (97.878%)		
Epoch: [19][300/391] Time 0.056 (0.056)	Data 0.001 (0.002)	Loss
0.1103 (0.0655) Prec 96.094% (97.778%)		
Validation starts		
Test: [0/79] Time 0.226 (0.226) Loss	0.1617 (0.1617) Prec 9	3.750%
(93.750%)		
* Prec 89.930%		
best acc: 90.900000		
Epoch: [20][0/391] Time 0.259 (0.259)	Data 0.214 (0.214)	Loss
0.0510 (0.0510) Prec 98.438% (98.438%)		
Epoch: [20][100/391] Time 0.054 (0.058)	Data 0.002 (0.004)	Loss
0.0772 (0.0555) Prec 96.875% (98.159%)		
Epoch: [20][200/391] Time 0.055 (0.057)	Data 0.001 (0.003)	Loss
0.0854 (0.0554) Prec 96.875% (98.099%)		
Epoch: [20][300/391] Time 0.056 (0.056)	Data 0.002 (0.002)	Loss
0.0850 (0.0610) Prec 96.094% (97.900%)		
Validation starts		
Test: [0/79] Time 0.266 (0.266) Loss	0.1380 (0.1380) Prec 9	4.531%
Test: [0/79] Time 0.266 (0.266) Loss (94.531%)	0.1380 (0.1380) Prec 9	4.531%
Test: [0/79] Time 0.266 (0.266) Loss (94.531%) * Prec 89.820%	0.1380 (0.1380) Prec 9	4.531%
(94.531%)	0.1380 (0.1380) Prec 9	4.531%
(94.531%) * Prec 89.820%		
(94.531%) * Prec 89.820% best acc: 90.900000		
(94.531%) * Prec 89.820% best acc: 90.900000 Epoch: [21][0/391] Time 0.311 (0.311)	Data 0.261 (0.261)	Loss
(94.531%) * Prec 89.820% best acc: 90.900000 Epoch: [21] [0/391] Time 0.311 (0.311) 0.0791 (0.0791) Prec 98.438% (98.438%)	Data 0.261 (0.261)	Loss
(94.531%) * Prec 89.820% best acc: 90.900000 Epoch: [21] [0/391] Time 0.311 (0.311) 0.0791 (0.0791) Prec 98.438% (98.438%) Epoch: [21] [100/391] Time 0.056 (0.058)	Data 0.261 (0.261) Data 0.001 (0.004)	Loss
(94.531%) * Prec 89.820% best acc: 90.900000 Epoch: [21] [0/391] Time 0.311 (0.311) 0.0791 (0.0791) Prec 98.438% (98.438%) Epoch: [21] [100/391] Time 0.056 (0.058) 0.0919 (0.0615) Prec 96.875% (97.912%)	Data 0.261 (0.261) Data 0.001 (0.004)	Loss Loss
(94.531%) * Prec 89.820% best acc: 90.900000 Epoch: [21] [0/391] Time 0.311 (0.311) 0.0791 (0.0791) Prec 98.438% (98.438%) Epoch: [21] [100/391] Time 0.056 (0.058) 0.0919 (0.0615) Prec 96.875% (97.912%) Epoch: [21] [200/391] Time 0.056 (0.057)	Data 0.261 (0.261) Data 0.001 (0.004) Data 0.001 (0.003)	Loss Loss
(94.531%) * Prec 89.820% best acc: 90.900000 Epoch: [21] [0/391] Time 0.311 (0.311) 0.0791 (0.0791) Prec 98.438% (98.438%) Epoch: [21] [100/391] Time 0.056 (0.058) 0.0919 (0.0615) Prec 96.875% (97.912%) Epoch: [21] [200/391] Time 0.056 (0.057) 0.0294 (0.0602) Prec 99.219% (97.901%)	Data 0.261 (0.261) Data 0.001 (0.004) Data 0.001 (0.003)	Loss Loss Loss
(94.531%) * Prec 89.820% best acc: 90.900000 Epoch: [21][0/391] Time 0.311 (0.311) 0.0791 (0.0791) Prec 98.438% (98.438%) Epoch: [21][100/391] Time 0.056 (0.058) 0.0919 (0.0615) Prec 96.875% (97.912%) Epoch: [21][200/391] Time 0.056 (0.057) 0.0294 (0.0602) Prec 99.219% (97.901%) Epoch: [21][300/391] Time 0.056 (0.056)	Data 0.261 (0.261) Data 0.001 (0.004) Data 0.001 (0.003)	Loss Loss Loss
(94.531%) * Prec 89.820% best acc: 90.900000 Epoch: [21] [0/391] Time 0.311 (0.311) 0.0791 (0.0791) Prec 98.438% (98.438%) Epoch: [21] [100/391] Time 0.056 (0.058) 0.0919 (0.0615) Prec 96.875% (97.912%) Epoch: [21] [200/391] Time 0.056 (0.057) 0.0294 (0.0602) Prec 99.219% (97.901%) Epoch: [21] [300/391] Time 0.056 (0.056) 0.0976 (0.0629) Prec 97.656% (97.794%)	Data 0.261 (0.261) Data 0.001 (0.004) Data 0.001 (0.003) Data 0.002 (0.002)	Loss Loss Loss
(94.531%) * Prec 89.820% best acc: 90.900000 Epoch: [21][0/391] Time 0.311 (0.311) 0.0791 (0.0791) Prec 98.438% (98.438%) Epoch: [21][100/391] Time 0.056 (0.058) 0.0919 (0.0615) Prec 96.875% (97.912%) Epoch: [21][200/391] Time 0.056 (0.057) 0.0294 (0.0602) Prec 99.219% (97.901%) Epoch: [21][300/391] Time 0.056 (0.056) 0.0976 (0.0629) Prec 97.656% (97.794%) Validation starts	Data 0.261 (0.261) Data 0.001 (0.004) Data 0.001 (0.003) Data 0.002 (0.002)	Loss Loss Loss
(94.531%) * Prec 89.820% best acc: 90.900000 Epoch: [21][0/391] Time 0.311 (0.311) 0.0791 (0.0791) Prec 98.438% (98.438%) Epoch: [21][100/391] Time 0.056 (0.058) 0.0919 (0.0615) Prec 96.875% (97.912%) Epoch: [21][200/391] Time 0.056 (0.057) 0.0294 (0.0602) Prec 99.219% (97.901%) Epoch: [21][300/391] Time 0.056 (0.056) 0.0976 (0.0629) Prec 97.656% (97.794%) Validation starts Test: [0/79] Time 0.256 (0.256) Loss	Data 0.261 (0.261) Data 0.001 (0.004) Data 0.001 (0.003) Data 0.002 (0.002)	Loss Loss Loss
(94.531%) * Prec 89.820% best acc: 90.900000 Epoch: [21] [0/391] Time 0.311 (0.311) 0.0791 (0.0791) Prec 98.438% (98.438%) Epoch: [21] [100/391] Time 0.056 (0.058) 0.0919 (0.0615) Prec 96.875% (97.912%) Epoch: [21] [200/391] Time 0.056 (0.057) 0.0294 (0.0602) Prec 99.219% (97.901%) Epoch: [21] [300/391] Time 0.056 (0.056) 0.0976 (0.0629) Prec 97.656% (97.794%) Validation starts Test: [0/79] Time 0.256 (0.256) Loss (95.312%)	Data 0.261 (0.261) Data 0.001 (0.004) Data 0.001 (0.003) Data 0.002 (0.002)	Loss Loss Loss
(94.531%) * Prec 89.820% best acc: 90.900000 Epoch: [21] [0/391] Time 0.311 (0.311) 0.0791 (0.0791) Prec 98.438% (98.438%) Epoch: [21] [100/391] Time 0.056 (0.058) 0.0919 (0.0615) Prec 96.875% (97.912%) Epoch: [21] [200/391] Time 0.056 (0.057) 0.0294 (0.0602) Prec 99.219% (97.901%) Epoch: [21] [300/391] Time 0.056 (0.056) 0.0976 (0.0629) Prec 97.656% (97.794%) Validation starts Test: [0/79] Time 0.256 (0.256) Loss (95.312%) * Prec 89.720%	Data 0.261 (0.261) Data 0.001 (0.004) Data 0.001 (0.003) Data 0.002 (0.002) 0.1292 (0.1292) Prec 9	Loss Loss Loss
(94.531%) * Prec 89.820% best acc: 90.900000 Epoch: [21][0/391] Time 0.311 (0.311) 0.0791 (0.0791) Prec 98.438% (98.438%) Epoch: [21][100/391] Time 0.056 (0.058) 0.0919 (0.0615) Prec 96.875% (97.912%) Epoch: [21][200/391] Time 0.056 (0.057) 0.0294 (0.0602) Prec 99.219% (97.901%) Epoch: [21][300/391] Time 0.056 (0.056) 0.0976 (0.0629) Prec 97.656% (97.794%) Validation starts Test: [0/79] Time 0.256 (0.256) Loss (95.312%) * Prec 89.720% best acc: 90.900000	Data 0.261 (0.261) Data 0.001 (0.004) Data 0.001 (0.003) Data 0.002 (0.002) 0.1292 (0.1292) Prec 9	Loss Loss Loss Solve:
(94.531%) * Prec 89.820% best acc: 90.900000 Epoch: [21] [0/391] Time 0.311 (0.311) 0.0791 (0.0791) Prec 98.438% (98.438%) Epoch: [21] [100/391] Time 0.056 (0.058) 0.0919 (0.0615) Prec 96.875% (97.912%) Epoch: [21] [200/391] Time 0.056 (0.057) 0.0294 (0.0602) Prec 99.219% (97.901%) Epoch: [21] [300/391] Time 0.056 (0.056) 0.0976 (0.0629) Prec 97.656% (97.794%) Validation starts Test: [0/79] Time 0.256 (0.256) Loss (95.312%) * Prec 89.720% best acc: 90.900000 Epoch: [22] [0/391] Time 0.334 (0.334)	Data 0.261 (0.261) Data 0.001 (0.004) Data 0.001 (0.003) Data 0.002 (0.002) 0.1292 (0.1292) Prec 9 Data 0.286 (0.286)	Loss Loss Loss Solve Loss Loss
(94.531%) * Prec 89.820% best acc: 90.900000 Epoch: [21] [0/391] Time 0.311 (0.311) 0.0791 (0.0791) Prec 98.438% (98.438%) Epoch: [21] [100/391] Time 0.056 (0.058) 0.0919 (0.0615) Prec 96.875% (97.912%) Epoch: [21] [200/391] Time 0.056 (0.057) 0.0294 (0.0602) Prec 99.219% (97.901%) Epoch: [21] [300/391] Time 0.056 (0.056) 0.0976 (0.0629) Prec 97.656% (97.794%) Validation starts Test: [0/79] Time 0.256 (0.256) Loss (95.312%) * Prec 89.720% best acc: 90.900000 Epoch: [22] [0/391] Time 0.334 (0.334) 0.0194 (0.0194) Prec 99.219% (99.219%)	Data 0.261 (0.261) Data 0.001 (0.004) Data 0.001 (0.003) Data 0.002 (0.002) 0.1292 (0.1292) Prec 9 Data 0.286 (0.286)	Loss Loss Loss Loss Loss Loss
(94.531%) * Prec 89.820% best acc: 90.900000 Epoch: [21][0/391] Time 0.311 (0.311) 0.0791 (0.0791) Prec 98.438% (98.438%) Epoch: [21][100/391] Time 0.056 (0.058) 0.0919 (0.0615) Prec 96.875% (97.912%) Epoch: [21][200/391] Time 0.056 (0.057) 0.0294 (0.0602) Prec 99.219% (97.901%) Epoch: [21][300/391] Time 0.056 (0.056) 0.0976 (0.0629) Prec 97.656% (97.794%) Validation starts Test: [0/79] Time 0.256 (0.256) Loss (95.312%) * Prec 89.720% best acc: 90.900000 Epoch: [22][0/391] Time 0.334 (0.334) 0.0194 (0.0194) Prec 99.219% (99.219%) Epoch: [22][100/391] Time 0.053 (0.058)	Data 0.261 (0.261) Data 0.001 (0.004) Data 0.001 (0.003) Data 0.002 (0.002) 0.1292 (0.1292) Prec 9 Data 0.286 (0.286)	Loss Loss Loss Loss Loss Loss
* Prec 89.820% best acc: 90.900000 Epoch: [21] [0/391] Time 0.311 (0.311) 0.0791 (0.0791) Prec 98.438% (98.438%) Epoch: [21] [100/391] Time 0.056 (0.058) 0.0919 (0.0615) Prec 96.875% (97.912%) Epoch: [21] [200/391] Time 0.056 (0.057) 0.0294 (0.0602) Prec 99.219% (97.901%) Epoch: [21] [300/391] Time 0.056 (0.056) 0.0976 (0.0629) Prec 97.656% (97.794%) Validation starts Test: [0/79] Time 0.256 (0.256) Loss (95.312%) * Prec 89.720% best acc: 90.900000 Epoch: [22] [0/391] Time 0.334 (0.334) 0.0194 (0.0194) Prec 99.219% (99.219%) Epoch: [22] [100/391] Time 0.053 (0.058) 0.0219 (0.0528) Prec 100.000% (98.128%)	Data 0.261 (0.261) Data 0.001 (0.004) Data 0.001 (0.003) Data 0.002 (0.002) 0.1292 (0.1292) Prec 9 Data 0.286 (0.286) Data 0.001 (0.004)	Loss Loss Loss Loss Loss Loss Loss
* Prec 89.820% best acc: 90.900000 Epoch: [21] [0/391] Time 0.311 (0.311) 0.0791 (0.0791) Prec 98.438% (98.438%) Epoch: [21] [100/391] Time 0.056 (0.058) 0.0919 (0.0615) Prec 96.875% (97.912%) Epoch: [21] [200/391] Time 0.056 (0.057) 0.0294 (0.0602) Prec 99.219% (97.901%) Epoch: [21] [300/391] Time 0.056 (0.056) 0.0976 (0.0629) Prec 97.656% (97.794%) Validation starts Test: [0/79] Time 0.256 (0.256) Loss (95.312%) * Prec 89.720% best acc: 90.900000 Epoch: [22] [0/391] Time 0.334 (0.334) 0.0194 (0.0194) Prec 99.219% (99.219%) Epoch: [22] [100/391] Time 0.053 (0.058) 0.0219 (0.0528) Prec 100.000% (98.128%) Epoch: [22] [200/391] Time 0.055 (0.057)	Data 0.261 (0.261) Data 0.001 (0.004) Data 0.001 (0.003) Data 0.002 (0.002) 0.1292 (0.1292) Prec 9 Data 0.286 (0.286) Data 0.001 (0.004) Data 0.002 (0.003)	Loss Loss Loss Loss Loss Loss Loss

0.1098 (0.0613) Prec 96.875% (97.854%) Validation starts Test: [0/79] Time 0.205 (0.205) Loss 0.1983 (0.1983) Prec 92.188% (92.188%)* Prec 89.860% best acc: 90.900000 Epoch: [23] [0/391] Time 0.313 (0.313) Data 0.264 (0.264) Loss 0.0353 (0.0353) Prec 98.438% (98.438%) Epoch: [23] [100/391] Time 0.055 (0.058)Data 0.002 (0.004) Loss 0.0380 (0.0596) Prec 98.438% (97.927%) Epoch: [23] [200/391] Data 0.002 (0.003) Time 0.055 (0.057)Loss 0.0314 (0.0594) Prec 99.219% (97.932%) Epoch: [23] [300/391] Time 0.055 (0.056)Data 0.001 (0.002) Loss 0.0701 (0.0600) Prec 96.094% (97.890%) Validation starts Test: [0/79] Time 0.249 (0.249) Loss 0.1682 (0.1682) Prec 94.531% (94.531%)* Prec 89.610% best acc: 90.900000 Epoch: [24] [0/391] Time 0.227 (0.227)Data 0.178 (0.178) Loss 0.0464 (0.0464) Prec 98.438% (98.438%) Epoch: [24] [100/391] Data 0.001 (0.003) Time 0.056 (0.057)Loss 0.0564 (0.0602) Prec 97.656% (97.865%) Epoch: [24] [200/391] Time 0.056 (0.056)Data 0.001 (0.002) Loss 0.0951 (0.0599) Prec 97.656% (97.905%) Epoch: [24] [300/391] Data 0.001 (0.002) Time 0.057 (0.056)Loss 0.0307 (0.0597) Prec 98.438% (97.942%) Validation starts Test: [0/79] Time 0.223 (0.223) Loss 0.5265 (0.5265) Prec 87.500% (87.500%)* Prec 83.840% best acc: 90.900000 Epoch: [25] [0/391] Time 0.280 (0.280)Data 0.233 (0.233) Loss 0.1958 (0.1958) Prec 92.969% (92.969%) Epoch: [25] [100/391] Time 0.055 (0.058)Data 0.001 (0.004) Loss 0.0634 (0.1673) Prec 98.438% (94.191%) Epoch: [25] [200/391] Time 0.055 (0.057)Data 0.001 (0.003) Loss 0.1577 (0.1512) Prec 94.531% (94.691%) Epoch: [25] [300/391] Time 0.056 (0.056)Data 0.002 (0.002) Loss 0.1616 (0.1442) Prec 95.312% (95.019%) Validation starts Test: [0/79] Time 0.270 (0.270) Loss 0.2602 (0.2602) Prec 91.406% (91.406%)* Prec 88.720% best acc: 90.900000 Epoch: [26] [0/391] Time 0.263 (0.263) Data 0.218 (0.218) Loss 0.0754 (0.0754) Prec 96.875% (96.875%) Epoch: [26] [100/391] Time 0.056 (0.058)Data 0.001 (0.004) Loss

0.0404 (0.0040)	00 4001/ (04 0401/	,				
0.0421 (0.0846) Prec			D-+-	0 001	(0,000)	T
Epoch: [26] [200/391]			рата	0.001	(0.003)	Loss
0.0955 (0.0900) Prec			D-+-	0 001	(0, 000)	T
Epoch: [26] [300/391]			рата	0.001	(0.002)	Loss
0.0977 (0.0915) Prec	96.875% (96.878%)				
Validation starts)FO (0 0FO)	-	0 4005	(0.4065	-) -	06 075%
Test: [0/79] Time 0.2	252 (0.252)	Loss	0.1265	(0.1265) Prec	96.875%
(96.875%)						
* Prec 89.740%						
best acc: 90.900000	TT: 0 000 (0 00	.0.)	ъ.	0.040	(0.040)	.
Epoch: [27] [0/391]			Data	0.243	(0.243)	Loss
0.0413 (0.0413) Prec			ъ.	0 000	(0.004)	-
Epoch: [27] [100/391]			Data	0.002	(0.004)	Loss
0.0576 (0.0758) Prec			_			
Epoch: [27] [200/391]			Data	0.002	(0.003)	Loss
0.0850 (0.0787) Prec						
Epoch: [27] [300/391]			Data	0.002	(0.002)	Loss
0.0636 (0.0821) Prec	97.656% (97.264%	,)				
Validation starts						
Test: [0/79] Time 0.1	.92 (0.192)	Loss	0.1502	(0.1502	2) Prec	94.531%
(94.531%)						
* Prec 89.690%						
best acc: 90.900000						
Epoch: [28][0/391]	Time 0.269 (0.26	9)	Data	0.221	(0.221)	Loss
0.0846 (0.0846) Prec						
Epoch: [28][100/391]	Time $0.054 (0.05)$	8)	Data	0.002	(0.004)	Loss
0.1064 (0.0725) Prec	95.312% (97.463%	()				
Epoch: [28] [200/391]	Time 0.055 (0.05	7)	Data	0.002	(0.003)	Loss
0.0914 (0.0751) Prec	97.656% (97.271%)				
Epoch: [28][300/391]	Time $0.056 (0.05)$	6)	Data	0.001	(0.002)	Loss
0.0898 (0.0751) Prec	96.094% (97.303%)				
Validation starts						
Test: [0/79] Time 0.2	235 (0.235)	Loss	0.2660	(0.2660)) Prec	93.750%
(93.750%)						
* Prec 89.650%						
best acc: 90.900000						
Epoch: [29][0/391]	Time 0.335 (0.33	5)	Data	0.287	(0.287)	Loss
0.0453 (0.0453) Prec	99.219% (99.219%)				
Epoch: [29][100/391]	Time 0.056 (0.05	8)	Data	0.001	(0.004)	Loss
0.0263 (0.0645) Prec	100.000% (97.772	%)				
Epoch: [29][200/391]	Time 0.057 (0.05	7)	Data	0.002	(0.003)	Loss
0.0557 (0.0665) Prec	96.875% (97.738%	()				
Epoch: [29][300/391]	Time 0.054 (0.05	6)	Data	0.001	(0.003)	Loss
0.0750 (0.0707) Prec	97.656% (97.594%	()				
Validation starts						
Test: [0/79] Time 0.1	.90 (0.190)	Loss	0.2180	(0.2180)) Prec	92.969%
(92.969%)						
* Prec 89.450%						

best acc: 90.900000					
Epoch: [30] [0/391]	Time 0.294 (0.294)	Data	0.249	(0.249)	Loss
0.0678 (0.0678) Prec		Dava	0.210	(0.210)	2000
Epoch: [30] [100/391]		Data	0.002	(0.004)	Loss
0.0354 (0.0656) Prec		2404		(0,002)	
Epoch: [30] [200/391]		Data	0.001	(0.003)	Loss
0.1061 (0.0650) Prec		2404		(0,000)	
Epoch: [30] [300/391]		Data	0.001	(0.002)	Loss
0.0739 (0.0664) Prec				(******/	
Validation starts	((((((((((
Test: [0/79] Time 0.	215 (0.215) Loss	0.1250	(0.1250)) Prec	95.312%
(95.312%)	, , , , , , , , , , , , , , , , , , , ,		•	•	
* Prec 90.200%					
best acc: 90.900000					
Epoch: [31][0/391]	Time 0.260 (0.260)	Data	0.212	(0.212)	Loss
0.0988 (0.0988) Prec					
Epoch: [31][100/391]		Data	0.001	(0.004)	Loss
0.0633 (0.0672) Prec					
Epoch: [31][200/391]		Data	0.002	(0.003)	Loss
0.0922 (0.0641) Prec					
Epoch: [31][300/391]		Data	0.001	(0.002)	Loss
0.0289 (0.0637) Prec	99.219% (97.680%)				
Validation starts					
Test: [0/79] Time 0.	259 (0.259) Loss	0.1547	(0.1547) Prec	92.969%
(92.969%)					
* Prec 89.760%					
best acc: 90.900000					
Epoch: [32][0/391]	Time 0.279 (0.279)	Data	0.229	(0.229)	Loss
0.0798 (0.0798) Prec	95.312% (95.312%)				
Epoch: [32][100/391]	Time 0.056 (0.058)	Data	0.001	(0.004)	Loss
0.0810 (0.0626) Prec	97.656% (97.757%)				
Epoch: [32][200/391]	Time 0.056 (0.057)	Data	0.002	(0.003)	Loss
0.0379 (0.0578) Prec	99.219% (97.979%)				
Epoch: [32][300/391]	Time 0.056 (0.056)	Data	0.002	(0.002)	Loss
0.0981 (0.0588) Prec	95.312% (97.882%)				
Validation starts					
Test: $[0/79]$ Time 0.	246 (0.246) Loss	0.3104	(0.3104	l) Prec	92.188%
(92.188%)					
* Prec 89.260%					
best acc: 90.900000					
Epoch: [33][0/391]	Time 0.367 (0.367)	Data	0.318	(0.318)	Loss
0.0906 (0.0906) Prec	96.094% (96.094%)				
Epoch: [33][100/391]	Time 0.056 (0.059)	Data	0.001	(0.005)	Loss
0.0352 (0.0620) Prec	98.438% (97.734%)				
Epoch: [33][200/391]		Data	0.002	(0.003)	Loss
0.0881 (0.0646) Prec					
Epoch: [33][300/391]		Data	0.002	(0.003)	Loss
0.0699 (0.0643) Prec	98.438% (97.674%)				

Validation starts Test: [0/79] Time 0.240 (0.240) Lo (93.750%)	ss 0.2296	(0.2296	3) Prec	93.750%
* Prec 90.530%				
best acc: 90.900000	_		(_
Epoch: [34] [0/391] Time 0.273 (0.273)	Data	0.226	(0.226)	Loss
0.0201 (0.0201) Prec 99.219% (99.219%)	_		(_
Epoch: [34] [100/391] Time 0.056 (0.058)	Data	0.001	(0.004)	Loss
0.0293 (0.0531) Prec 98.438% (98.229%)	_		(_
Epoch: [34] [200/391] Time 0.055 (0.057)	Data	0.001	(0.003)	Loss
0.0582 (0.0538) Prec 96.875% (98.165%)				
Epoch: [34] [300/391] Time 0.056 (0.056)		0.001	(0.002)	Loss
0.0074 (0.0561) Prec 100.000% (98.105%)				
Validation starts				
Test: [0/79] Time 0.186 (0.186) Lo	ss 0.1202	(0.1202	2) Prec	96.094%
(96.094%)				
* Prec 89.890%				
best acc: 90.900000				
Epoch: [35] [0/391] Time 0.293 (0.293)	Data	0.245	(0.245)	Loss
0.0724 (0.0724) Prec 96.875% (96.875%)				
Epoch: [35][100/391] Time 0.054 (0.058)	Data	0.001	(0.004)	Loss
0.0528 (0.0598) Prec 97.656% (97.896%)				
Epoch: [35][200/391] Time 0.056 (0.057)	Data	0.002	(0.003)	Loss
0.1311 (0.0626) Prec 94.531% (97.718%)				
Epoch: [35] [300/391] Time 0.054 (0.056)	Data	0.002	(0.002)	Loss
0.0504 (0.0606) Prec 96.875% (97.809%)				
Validation starts				
Test: [0/79] Time 0.218 (0.218) Lo	ss 0.1547	(0.1547	7) Prec	95.312%
(95.312%)				
* Prec 90.460%				
best acc: 90.900000				
Epoch: [36] [0/391] Time 0.272 (0.272)	Data	0.222	(0.222)	Loss
0.0729 (0.0729) Prec 97.656% (97.656%)				
Epoch: [36][100/391] Time 0.056 (0.058)	Data	0.001	(0.004)	Loss
0.0525 (0.0559) Prec 97.656% (98.020%)				
Epoch: [36] [200/391] Time 0.055 (0.057)	Data	0.001	(0.003)	Loss
0.0289 (0.0576) Prec 99.219% (98.002%)				
Epoch: [36] [300/391] Time 0.056 (0.056)	Data	0.001	(0.002)	Loss
0.0886 (0.0581) Prec 96.094% (97.996%)				
Validation starts				
Test: [0/79] Time 0.268 (0.268) Lo	ss 0.1695	(0.1695	5) Prec	95.312%
(95.312%)				
* Prec 89.880%				
best acc: 90.900000				
Epoch: [37] [0/391] Time 0.292 (0.292)		0.244	(0.244)	Loss
0.0104 (0.0104) Prec 100.000% (100.000%)				
Epoch: [37] [100/391] Time 0.055 (0.058)	Data	0.002	(0.004)	Loss
0.0594 (0.0486) Prec 97.656% (98.236%)				

Epoch: [37] [200/391] Time 0.057 (0.057) Data 0.002 (0.003) Los	SS
0.0527 (0.0527) Prec 97.656% (98.200%) Epoch: [37] [300/391] Time 0.056 (0.056) Data 0.002 (0.002) Los 0.0518 (0.0545) Prec 96.875% (98.090%)	SS
Validation starts Test: [0/79] Time 0.259 (0.259) Loss 0.1569 (0.1569) Prec 94.531 (94.531%)	L%
* Prec 89.910%	
best acc: 90.900000	
Epoch: [38] [0/391] Time 0.322 (0.322) Data 0.275 (0.275) Los	SS
0.0696 (0.0696) Prec 96.875% (96.875%)	
Epoch: [38] [100/391] Time 0.055 (0.058) Data 0.001 (0.004) Los	SS
0.0096 (0.0478) Prec 100.000% (98.360%)	
Epoch: [38] [200/391] Time 0.056 (0.057) Data 0.001 (0.003) Los	SS
0.0848 (0.0535) Prec 96.875% (98.150%)	
Epoch: [38][300/391] Time 0.054 (0.056) Data 0.002 (0.002) Los	SS
0.0422 (0.0525) Prec 98.438% (98.204%)	
Validation starts	
Test: [0/79] Time 0.209 (0.209) Loss 0.3275 (0.3275) Prec 91.406	3%
(91.406%)	
* Prec 90.000%	
best acc: 90.900000	
Epoch: [39] [0/391] Time 0.265 (0.265) Data 0.219 (0.219) Los	SS
0.0105 (0.0105) Prec 100.000% (100.000%)	
Epoch: [39][100/391] Time 0.058 (0.058) Data 0.001 (0.004) Los	SS
0.0382 (0.0556) Prec 98.438% (98.105%)	
Epoch: [39] [200/391] Time 0.056 (0.057) Data 0.001 (0.003) Los	SS
0.0462 (0.0542) Prec 98.438% (98.115%)	
Epoch: [39][300/391] Time 0.056 (0.056) Data 0.001 (0.002) Los	SS
0.1390 (0.0563) Prec 96.094% (98.043%)	
Validation starts	
Test: [0/79] Time 0.259 (0.259) Loss 0.1753 (0.1753) Prec 93.750)%
(93.750%)	
* Prec 90.300%	
best acc: 90.900000	
Epoch: [40][0/391] Time 0.246 (0.246) Data 0.204 (0.204) Los	38
0.0537 (0.0537) Prec 98.438% (98.438%)	
Epoch: [40][100/391] Time 0.056 (0.057) Data 0.001 (0.004) Los	SS
0.0426 (0.0530) Prec 97.656% (98.167%)	
Epoch: [40][200/391] Time 0.056 (0.056) Data 0.001 (0.003) Los	SS
0.0149 (0.0507) Prec 100.000% (98.239%)	
Epoch: [40][300/391] Time 0.052 (0.056) Data 0.002 (0.002) Los	SS
0.0308 (0.0507) Prec 98.438% (98.240%)	
Validation starts	
Test: [0/79] Time 0.216 (0.216) Loss 0.1474 (0.1474) Prec 92.969	}%
(92.969%)	
* Prec 89.750%	
best acc: 90.900000	

Epoch: [41][0/391]	Time 0.303 (0.303)	Data 0.255	(0.255) Loss
0.0218 (0.0218) Prec Epoch: [41][100/391]		Data 0.001	(0.004) Loss
0.0271 (0.0630) Prec		Data 0.001	(0.004) LOSS
Epoch: [41][200/391]	Time 0.055 (0.057)	Data 0.001	(0.003) Loss
0.0686 (0.0566) Prec		D	(0.000)
Epoch: [41][300/391] 0.0200 (0.0575) Prec		Data 0.001	(0.002) Loss
Validation starts	33.213% (30.001%)		
Test: [0/79] Time 0.2	208 (0.208) Loss	0.2589 (0.2589	Prec 94.531%
(94.531%)			
* Prec 90.520%			
best acc: 90.900000			
Epoch: [42][0/391]	Time 0.256 (0.256)	Data 0.207	(0.207) Loss
0.0145 (0.0145) Prec			
Epoch: [42][100/391]		Data 0.002	(0.004) Loss
0.0810 (0.0507) Prec			
Epoch: [42][200/391]		Data 0.001	(0.003) Loss
0.0548 (0.0500) Prec			
Epoch: [42][300/391]	Time 0.057 (0.056)	Data 0.001	(0.002) Loss
0.0349 (0.0515) Prec	99.219% (98.178%)		
Validation starts		0 4000 (0 400) D 00 00 10
	246 (0.246) Loss	0.1639 (0.1639	Prec 96.094%
(96.094%)			
* Prec 90.010%			
best acc: 90.900000	Time 0 000 (0 000)	D-+- 0 020	(0.020)
Epoch: [43][0/391] 0.0488 (0.0488) Prec		Data 0.232	(0.232) Loss
Epoch: [43] [100/391]		Data 0.001	(0.004) Loss
0.0367 (0.0500) Prec		Data 0.001	(0.004) Loss
Epoch: [43] [200/391]	Time 0.053 (0.057)	Data 0.001	(0.003) Loss
0.0389 (0.0481) Prec		Dava 0.001	(0.000)
Epoch: [43] [300/391]			
0.1091 (0.0523) Prec		Data 0.001	(0.002) Loss
		Data 0.001	(0.002) Loss
Validation starts		Data 0.001	(0.002) Loss
Validation starts Test: [0/79] Time 0.2	94.531% (98.245%)		
Validation starts Test: [0/79] Time 0.2 (98.438%)	94.531% (98.245%)		
Test: [0/79] Time 0.2	94.531% (98.245%)		
Test: [0/79] Time 0.2 (98.438%)	94.531% (98.245%)		
Test: [0/79] Time 0.2 (98.438%) * Prec 90.420% best acc: 90.900000	94.531% (98.245%)	0.1080 (0.1080)) Prec 98.438%
Test: [0/79] Time 0.2 (98.438%) * Prec 90.420% best acc: 90.900000	94.531% (98.245%) 247 (0.247) Loss Time 0.246 (0.246)	0.1080 (0.1080)) Prec 98.438%
Test: [0/79] Time 0.2 (98.438%) * Prec 90.420% best acc: 90.900000 Epoch: [44][0/391]	94.531% (98.245%) 247 (0.247) Loss Time 0.246 (0.246) 96.875% (96.875%)	0.1080 (0.1080	Prec 98.438% (0.200) Loss
Test: [0/79] Time 0.2 (98.438%) * Prec 90.420% best acc: 90.900000 Epoch: [44][0/391] 0.0610 (0.0610) Prec	94.531% (98.245%) 247 (0.247) Loss Time 0.246 (0.246) 96.875% (96.875%) Time 0.055 (0.057)	0.1080 (0.1080 Data 0.200	Prec 98.438% (0.200) Loss
Test: [0/79] Time 0.2 (98.438%) * Prec 90.420% best acc: 90.900000 Epoch: [44] [0/391] 0.0610 (0.0610) Prec Epoch: [44] [100/391] 0.0208 (0.0431) Prec Epoch: [44] [200/391]	94.531% (98.245%) 247 (0.247) Loss Time 0.246 (0.246) 96.875% (96.875%) Time 0.055 (0.057) 99.219% (98.422%) Time 0.054 (0.057)	0.1080 (0.1080 Data 0.200	(0.200) Loss (0.004) Loss
Test: [0/79] Time 0.2 (98.438%) * Prec 90.420% best acc: 90.900000 Epoch: [44][0/391] 0.0610 (0.0610) Prec Epoch: [44][100/391] 0.0208 (0.0431) Prec Epoch: [44][200/391] 0.0589 (0.0478) Prec	94.531% (98.245%) 247 (0.247) Loss Time 0.246 (0.246) 96.875% (96.875%) Time 0.055 (0.057) 99.219% (98.422%) Time 0.054 (0.057) 98.438% (98.235%)	0.1080 (0.1080 Data 0.200 Data 0.002 Data 0.002	(0.200) Loss (0.004) Loss (0.003) Loss
Test: [0/79] Time 0.2 (98.438%) * Prec 90.420% best acc: 90.900000 Epoch: [44] [0/391] 0.0610 (0.0610) Prec Epoch: [44] [100/391] 0.0208 (0.0431) Prec Epoch: [44] [200/391] 0.0589 (0.0478) Prec Epoch: [44] [300/391]	94.531% (98.245%) 247 (0.247) Loss Time 0.246 (0.246) 96.875% (96.875%) Time 0.055 (0.057) 99.219% (98.422%) Time 0.054 (0.057) 98.438% (98.235%) Time 0.053 (0.056)	0.1080 (0.1080 Data 0.200 Data 0.002 Data 0.002	(0.200) Loss (0.004) Loss (0.003) Loss
Test: [0/79] Time 0.2 (98.438%) * Prec 90.420% best acc: 90.900000 Epoch: [44][0/391] 0.0610 (0.0610) Prec Epoch: [44][100/391] 0.0208 (0.0431) Prec Epoch: [44][200/391] 0.0589 (0.0478) Prec	94.531% (98.245%) 247 (0.247) Loss Time 0.246 (0.246) 96.875% (96.875%) Time 0.055 (0.057) 99.219% (98.422%) Time 0.054 (0.057) 98.438% (98.235%) Time 0.053 (0.056)	0.1080 (0.1080 Data 0.200 Data 0.002 Data 0.002	(0.200) Loss (0.004) Loss (0.003) Loss

Test: [0/79] Time 0.195 (0 (93.750%)).195) Loss	0.1880 (0.188	0) Prec 93.750%
* Prec 90.120%			
best acc: 90.900000			
Epoch: [45][0/391] Time	0.303 (0.303)	Data 0.254	(0.254) Loss
0.0820 (0.0820) Prec 96.8			
Epoch: [45][100/391] Time		Data 0.001	(0.004) Loss
0.0308 (0.0464) Prec 99.2			
Epoch: [45][200/391] Time		Data 0.002	(0.003) Loss
0.0264 (0.0490) Prec 100.0			
Epoch: [45][300/391] Time		Data 0.001	(0.002) Loss
0.0452 (0.0492) Prec 97.69			
Validation starts			
Test: [0/79] Time 0.253 ().253) Loss	0.2630 (0.263	0) Prec 90.625%
(90.625%)			
* Prec 88.870%			
best acc: 90.900000			
Epoch: [46] [0/391] Time	0.255 (0.255)	Data 0.206	(0.206) Loss
0.0251 (0.0251) Prec 99.2			
Epoch: [46] [100/391] Time		Data 0.001	(0.004) Loss
0.0250 (0.0551) Prec 99.2			
Epoch: [46][200/391] Time		Data 0.002	(0.003) Loss
0.0302 (0.0543) Prec 98.43			
Epoch: [46][300/391] Time		Data 0.001	(0.002) Loss
0.1705 (0.0546) Prec 95.3			
Validation starts			
Test: [0/79] Time 0.209 ().209) Loss	0.1171 (0.117	1) Prec 95.312%
(95.312%)			
* Prec 90.420%			
best acc: 90.900000			
Epoch: [47] [0/391] Time	0.254 (0.254)	Data 0.208	(0.208) Loss
0.0221 (0.0221) Prec 99.2			
Epoch: [47][100/391] Time	0.056 (0.057)	Data 0.001	(0.004) Loss
0.0599 (0.0458) Prec 97.69			
Epoch: [47][200/391] Time		Data 0.001	(0.003) Loss
0.0422 (0.0475) Prec 98.43			
Epoch: [47][300/391] Time	0.055 (0.056)	Data 0.002	(0.002) Loss
0.0307 (0.0493) Prec 99.2			
Validation starts			
Test: [0/79] Time 0.292 ().292) Loss	0.2657 (0.265	7) Prec 91.406%
(91.406%)			
* Prec 90.320%			
best acc: 90.900000			
Epoch: [48] [0/391] Time	0.284 (0.284)	Data 0.232	(0.232) Loss
0.0167 (0.0167) Prec 99.2			
Epoch: [48][100/391] Time		Data 0.001	(0.004) Loss
0.0047 (0.0435) Prec 100.0			
Epoch: [48][200/391] Time	0.054 (0.057)	Data 0.002	(0.003) Loss

0.0116 (0.0446) Prec 100.000% (98.457%)	
Epoch: [48] [300/391] Time 0.056 (0.056)	Data 0 002 (0 002) Loss
0.0195 (0.0455) Prec 99.219% (98.430%)	Data 0.002 (0.002) Lobb
Validation starts	
Test: [0/79] Time 0.227 (0.227) Loss	0.1377 (0.1377) Prec 94.531%
(94.531%)	
* Prec 90.440%	
best acc: 90.900000	
Epoch: [49] [0/391] Time 0.258 (0.258)	Data 0.214 (0.214) Loss
0.0384 (0.0384) Prec 98.438% (98.438%)	
Epoch: [49][100/391] Time 0.054 (0.058)	Data 0.002 (0.004) Loss
0.0798 (0.0539) Prec 97.656% (98.337%)	(1)
Epoch: [49][200/391] Time 0.056 (0.057)	Data 0.002 (0.003) Loss
0.0868 (0.0513) Prec 96.094% (98.371%)	
Epoch: [49][300/391] Time 0.055 (0.056)	Data 0.002 (0.003) Loss
0.0932 (0.0538) Prec 97.656% (98.212%)	
Validation starts	
Test: [0/79] Time 0.220 (0.220) Loss	0.1381 (0.1381) Prec 96.094%
(96.094%)	
* Prec 90.980%	
best acc: 90.980000	
Epoch: [50][0/391] Time 0.250 (0.250)	Data 0.201 (0.201) Loss
0.0485 (0.0485) Prec 98.438% (98.438%)	
Epoch: [50][100/391] Time 0.055 (0.057)	Data 0.001 (0.004) Loss
0.0208 (0.0403) Prec 100.000% (98.492%)	
Epoch: [50][200/391] Time 0.056 (0.056)	Data 0.001 (0.003) Loss
0.0271 (0.0436) Prec 98.438% (98.403%)	
Epoch: [50][300/391] Time 0.056 (0.056)	Data 0.001 (0.002) Loss
0.0103 (0.0452) Prec 100.000% (98.375%)	
Validation starts	
Test: [0/79] Time 0.198 (0.198) Loss	0.2756 (0.2756) Prec 93.750%
(93.750%)	
* Prec 89.290%	
best acc: 90.980000	
Epoch: [51] [0/391] Time 0.271 (0.271)	Data 0.223 (0.223) Loss
0.0660 (0.0660) Prec 97.656% (97.656%)	
Epoch: [51][100/391] Time 0.056 (0.058)	Data 0.001 (0.004) Loss
0.0794 (0.0470) Prec 97.656% (98.422%)	
Epoch: [51][200/391] Time 0.055 (0.057)	Data 0.002 (0.003) Loss
0.0269 (0.0472) Prec 98.438% (98.383%)	
Epoch: [51][300/391] Time 0.053 (0.056)	Data 0.001 (0.002) Loss
0.1434 (0.0485) Prec 94.531% (98.274%)	
Validation starts	
Test: [0/79] Time 0.208 (0.208) Loss	0.0918 (0.0918) Prec 95.312%
(95.312%)	
* Prec 90.440%	
best acc: 90.980000	
Epoch: [52][0/391] Time 0.265 (0.265)	Data 0.219 (0.219) Loss

0 0000 (0 0000) Pro-	07 6569 (07 6569)			
0.0922 (0.0922) Prec Epoch: [52][100/391]		Do+o 0 0	01 (0.004)	Loss
0.0574 (0.0498) Prec		Data 0.0	0.004)	LUSS
		D2+2 0 00	01 (0.003)	Loss
0.0106 (0.0481) Prec		Data 0.0	01 (0.003)	LUSS
Epoch: [52] [300/391]		Da+a 0 0	01 (0.002)	Loss
0.0427 (0.0493) Prec		Data 0.0	01 (0.002)	LUSS
Validation starts	91.000% (90.291%)			
Test: [0/79] Time 0.2	214 (0.214) I os	a 0 2024 (0 2)	124) Prec	a2 a6a%
(92.969%)	214 (U.214) LOS	5 0.2024 (0.20	J24) Fiec	92.909%
* Prec 89.980%				
best acc: 90.980000				
Epoch: [53] [0/391]	Time 0 254 (0 254)	Da+a 0 20	05 (0.205)	Loss
0.0194 (0.0194) Prec		Data 0.2	00 (0.200)	LUSS
Epoch: [53] [100/391]		Da+a 0 0	02 (0.004)	Loss
0.0422 (0.0510) Prec		Data 0.0	02 (0.004)	LUSS
Epoch: [53] [200/391]	Time 0.056 (0.057)	Da+a 0 0	02 (0.003)	Loss
0.0313 (0.0494) Prec		Data 0.0	02 (0.003)	LUSS
Epoch: [53] [300/391]		Do+o 0 0	01 (0.002)	Loss
0.0377 (0.0488) Prec		Data 0.0	01 (0.002)	LUSS
Validation starts	91.000% (90.000%)			
Test: [0/79] Time 0.2	226 (0 226) I os	a 0 2002 (0 20	202) Prec	03 75NY
(93.750%)	220 (0.220) Los	S 0.2302 (0.2	902) ITEC	30.100%
* Prec 90.260%				
best acc: 90.980000				
Epoch: [54] [0/391]	Time () 283 (() 283)	Data 0 2	35 (0.235)	Loss
0.0734 (0.0734) Prec		Dava 0.2	30 (0.200)	ДОВВ
Epoch: [54] [100/391]	Time 0.056 (0.058)	Data O O	02 (0.004)	Loss
0.0076 (0.0522) Prec		Data 0.0	02 (0.004)	LOSS
Epoch: [54] [200/391]		Data 0 0	01 (0.003)	Loss
0.1140 (0.0541) Prec		Dava 0.0	01 (0.000)	ДОВВ
Epoch: [54] [300/391]	Time 0.051 (0.056)	Data 0 0	01 (0.002)	Loss
0.0151 (0.0520) Prec		Dava 0.0	01 (0.002)	ДОВВ
Validation starts	100.000% (30.102%)			
Test: [0/79] Time 0.2	206 (0.206) Ins	s 0 1655 (0 1	655) Prec	96 094%
(96.094%)	200 (0.200)	5 0.1000 (0.1	1160	30.034%
* Prec 90.590%				
best acc: 90.980000				
Epoch: [55] [0/391]	Time 0.255 (0.255)	Data 0.2	09 (0.209)	Loss
0.0241 (0.0241) Prec		Dava 0.2	(0.200)	ДОВВ
Epoch: [55] [100/391]		Data 0.0	01 (0.004)	Loss
0.0199 (0.0474) Prec		2404 0.0	01 (0.001)	2000
Epoch: [55] [200/391]		Data 0 0	02 (0.003)	Loss
_	99.219% (98.181%)	Dava 0.0	02 (0.000)	ДОББ
Epoch: [55] [300/391]		Data 0 0	01 (0 002)	Loss
0.0266 (0.0513) Prec		Dava O.O.	0.002)	порр
Validation starts	20.22.070 (00.10170)			
	253 (0.253) Los	s 0.1961 (0.1	961) Prec	94.531%
			,	10

(94.531%)* Prec 90.460% best acc: 90.980000 Epoch: [56] [0/391] Time 0.343 (0.343)Data 0.295 (0.295) Loss 0.0246 (0.0246) Prec 99.219% (99.219%) Epoch: [56] [100/391] Time 0.054 (0.058)Data 0.001 (0.005) Loss 0.0957 (0.0472) Prec 98.438% (98.275%) Epoch: [56] [200/391] Time 0.055 (0.057)Data 0.001 (0.003) Loss 0.1225 (0.0481) Prec 96.094% (98.282%) Data 0.001 (0.003) Epoch: [56] [300/391] Time 0.056 (0.056)Loss 0.0662 (0.0500) Prec 96.875% (98.222%) Validation starts Test: [0/79] Time 0.263 (0.263) Loss 0.1629 (0.1629) Prec 95.312% (95.312%)* Prec 90.370% best acc: 90.980000 Epoch: [57] [0/391] Time 0.316 (0.316)Data 0.270 (0.270) Loss 0.0389 (0.0389) Prec 98.438% (98.438%) Epoch: [57] [100/391] Time 0.058 (0.058)Data 0.002 (0.004) Loss 0.0320 (0.0512) Prec 98.438% (98.236%) Epoch: [57] [200/391] Time 0.056 (0.057)Data 0.002 (0.003) Loss 0.0226 (0.0505) Prec 99.219% (98.251%) Epoch: [57] [300/391] Time 0.055 (0.056)Data 0.002 (0.002) Loss 0.0334 (0.0482) Prec 99.219% (98.318%) Validation starts Test: [0/79] Time 0.207 (0.207)Loss 0.1786 (0.1786) Prec 92.969% (92.969%)* Prec 89.810% best acc: 90.980000 Epoch: [58] [0/391] Time 0.263 (0.263)Data 0.215 (0.215) Loss 0.0227 (0.0227) Prec 99.219% (99.219%) Epoch: [58] [100/391] Time 0.055 (0.057)Data 0.001 (0.004) Loss 0.0821 (0.0393) Prec 97.656% (98.747%) Epoch: [58] [200/391] Time 0.054 (0.056)Data 0.001 (0.003) Loss 0.0219 (0.0395) Prec 99.219% (98.702%) Epoch: [58] [300/391] Time 0.061 (0.056)Data 0.001 (0.002) Loss 0.0569 (0.0432) Prec 99.219% (98.567%) Validation starts Test: [0/79] Time 0.188 (0.188) Loss 0.1730 (0.1730) Prec 95.312% (95.312%)* Prec 90.890% best acc: 90.980000 Epoch: [59] [0/391] Time 0.307 (0.307)Data 0.263 (0.263) Loss 0.0126 (0.0126) Prec 99.219% (99.219%) Epoch: [59] [100/391] Time 0.056 (0.058)Data 0.002 (0.004) Loss 0.0302 (0.0402) Prec 98.438% (98.554%) Epoch: [59] [200/391] Time 0.054 (0.057)Data 0.002 (0.003) Loss

Prec 99.219% (98.418%)

0.0334 (0.0439)

Epoch: [59][300/391] Time 0.056 (0.056) 0.0651 (0.0452) Prec 97.656% (98.386%)	Data 0.002 (0.002) Lo	oss
Validation starts		0/
Test: [0/79] Time 0.234 (0.234) Loss	0.1497 (0.1497) Prec 94.53	31%
(94.531%)		
* Prec 88.900%		
best acc: 90.980000		
Epoch: [60] [0/391] Time 0.267 (0.267)	Data 0.226 (0.226) Lo	oss
0.1334 (0.1334) Prec 94.531% (94.531%)		
Epoch: [60][100/391] Time 0.055 (0.058)	Data 0.002 (0.004) Lo	oss
0.0477 (0.0504) Prec 96.875% (98.198%)		
Epoch: [60][200/391] Time 0.056 (0.057)	Data 0.001 (0.003) Lo	oss
0.0416 (0.0511) Prec 98.438% (98.208%)		
Epoch: [60][300/391] Time 0.054 (0.056)	Data 0.002 (0.002) Lo	oss
0.0480 (0.0522) Prec 98.438% (98.152%)		
Validation starts		
Test: [0/79] Time 0.209 (0.209) Loss	0.2513 (0.2513) Prec 94.53	31%
(94.531%)		
* Prec 90.440%		
best acc: 90.980000		
Epoch: [61][0/391] Time 0.332 (0.332)	Data 0.287 (0.287) Lo	oss
0.0313 (0.0313) Prec 99.219% (99.219%)		
Epoch: [61][100/391] Time 0.057 (0.058)	Data 0.002 (0.004) Lo	oss
0.0361 (0.0509) Prec 98.438% (98.252%)	, , , , , , , , , , , , , , , , , , ,	
Epoch: [61][200/391] Time 0.055 (0.057)	Data 0.001 (0.003) Lo	oss
0.0255 (0.0491) Prec 98.438% (98.278%)		
	Data 0.001 (0.002) Lo	oss
0.0467 (0.0487) Prec 98.438% (98.313%)	Data 0.001 (0.002)	ODD
Validation starts		
Test: [0/79] Time 0.259 (0.259) Loss	0 3335 (0 3335) Proc 90 69	0E%
(90.625%)	0.5555 (0.5555) Fiel 90.02	20%
* Prec 89.770%		
best acc: 90.980000		
	D-+- 0 200 (0 200) I.	
Epoch: [62] [0/391] Time 0.258 (0.258)	Data 0.208 (0.208) Lo	oss
0.0461 (0.0461) Prec 96.875% (96.875%)	D	
Epoch: [62] [100/391] Time 0.055 (0.057)	Data 0.001 (0.004) Lo	oss
0.0799 (0.0487) Prec 97.656% (98.352%)	D	
Epoch: [62] [200/391] Time 0.055 (0.056)	Data 0.002 (0.003) Lo	oss
0.0207 (0.0509) Prec 100.000% (98.216%)		
Epoch: [62] [300/391] Time 0.054 (0.056)	Data 0.001 (0.002) Lo	oss
0.0854 (0.0514) Prec 96.875% (98.248%)		
Validation starts		
	0.1552 (0.1552) Prec 96.09	94%
(96.094%)		
* Prec 90.920%		
best acc: 90.980000		
Epoch: [63][0/391] Time 0.267 (0.267)	Data 0.212 (0.212) Lo	oss
0.0440 (0.0440) Prec 97.656% (97.656%)		

Epoch: [63][100/391] Time 0.		Data 0.001	(0.004) Loss
-	055 (0.057)	Data 0.002	(0.003) Loss
0.0745 (0.0497) Prec 96.094% Epoch: [63][300/391] Time 0. 0.0369 (0.0507) Prec 97.656% Validation starts	058 (0.056)	Data 0.001	(0.002) Loss
	37) Loss	0.2263 (0.2263	3) Prec 93.750%
* Prec 90.410%			
best acc: 90.980000			
Epoch: [64] [0/391] Time 0.	315 (0.315)	Data 0.266	(0.266) Loss
0.0463 (0.0463) Prec 98.438%	(98.438%)		
Epoch: [64] [100/391] Time 0.		Data 0.001	(0.004) Loss
0.0741 (0.0423) Prec 96.875%			
-	054 (0.057)	Data 0.001	(0.003) Loss
0.0305 (0.0522) Prec 99.219%			
Epoch: [64] [300/391] Time 0.		Data 0.002	(0.003) Loss
0.0343 (0.0518) Prec 99.219%	(98.162%)		
Validation starts	_		
Test: [0/79] Time 0.230 (0.2	30) Loss	0.2427 (0.242)	7) Prec 95.312%
(95.312%)			
* Prec 90.480%			
best acc: 90.980000	()		(· - ·
-	263 (0.263)	Data 0.218	(0.218) Loss
0.1272 (0.1272) Prec 96.094%			
-	052 (0.058)	Data 0.002	(0.004) Loss
0.0406 (0.0478) Prec 97.656%			
Epoch: [65] [200/391] Time 0.		Data 0.001	(0.003) Loss
0.0419 (0.0464) Prec 97.656%			
-	056 (0.056)	Data 0.001	(0.002) Loss
0.0103 (0.0464) Prec 100.000	% (98.354%)		
Validation starts			
Test: [0/79] Time 0.237 (0.2	37) Loss	0.1839 (0.1839	9) Prec 94.531%
(94.531%)			
* Prec 90.530%			
best acc: 90.980000			
Epoch: [66] [0/391] Time 0.		Data 0.215	(0.215) Loss
0.0694 (0.0694) Prec 97.656%			
-	056 (0.058)	Data 0.002	(0.004) Loss
0.0607 (0.0457) Prec 98.438%			
Epoch: [66] [200/391] Time 0.		Data 0.002	(0.003) Loss
0.0345 (0.0466) Prec 97.656%			
-	056 (0.056)	Data 0.001	(0.002) Loss
0.1146 (0.0501) Prec 96.094%	(98.269%)		
Validation starts	47)	0.4400 (0.455	D 04 50:01
Test: [0/79] Time 0.247 (0.2	41) Loss	0.1423 (0.142)	3) Prec 94.531%
(94.531%)			

* Prec 90.150%		
best acc: 90.980000		
Epoch: [67] [0/391] Time 0.262 (0.262)	Data 0.212 (0.212) Lo	SS
0.0444 (0.0444) Prec 98.438% (98.438%)		
Epoch: [67][100/391] Time 0.054 (0.058)	Data 0.001 (0.004) Lo	SS
0.0122 (0.0536) Prec 99.219% (98.043%)		
Epoch: [67][200/391] Time 0.054 (0.057)	Data 0.001 (0.003) Lo	SS
0.0462 (0.0508) Prec 98.438% (98.173%)		
Epoch: [67][300/391] Time 0.055 (0.056)	Data 0.001 (0.002) Lo	SS
0.0489 (0.0502) Prec 98.438% (98.206%)		
Validation starts		
Test: [0/79] Time 0.230 (0.230) Loss	s 0.0922 (0.0922) Prec 96.09	4%
(96.094%)		
* Prec 89.500%		
best acc: 90.980000		
Epoch: [68] [0/391] Time 0.257 (0.257)	Data 0.207 (0.207) Lo	ss
0.0285 (0.0285) Prec 99.219% (99.219%)		
Epoch: [68] [100/391] Time 0.056 (0.057)	Data 0.002 (0.004) Lo	SS
0.0294 (0.0459) Prec 98.438% (98.291%)	2404 00002 (00001) 20	
Epoch: [68] [200/391] Time 0.054 (0.056)	Data 0.002 (0.003) Lo	55
0.0381 (0.0454) Prec 99.219% (98.321%)	Dava 0.002 (0.000) 10	
Epoch: [68] [300/391] Time 0.057 (0.056)	Data 0.001 (0.002) Lo	SS
0.0353 (0.0497) Prec 99.219% (98.217%)	Data 0.001 (0.002) Ho	00
Validation starts		
Validation Starts		
Tagt. $\lceil 0/79 \rceil$ Time $0.274 (0.274)$ Inst	s 0 2243 (0 2243) Prec 92 96	a%
Test: [0/79] Time 0.274 (0.274) Loss	s 0.2243 (0.2243) Prec 92.96	9%
(92.969%)	s 0.2243 (0.2243) Prec 92.96	9%
(92.969%) * Prec 90.130%	s 0.2243 (0.2243) Prec 92.96	9%
(92.969%) * Prec 90.130% best acc: 90.980000		
(92.969%) * Prec 90.130% best acc: 90.980000 Epoch: [69] [0/391] Time 0.324 (0.324)	Data 0.275 (0.275) Lo	9%
(92.969%) * Prec 90.130% best acc: 90.980000 Epoch: [69] [0/391] Time 0.324 (0.324) 0.0118 (0.0118) Prec 100.000% (100.000%)	Data 0.275 (0.275) Lo	ss
(92.969%) * Prec 90.130% best acc: 90.980000 Epoch: [69] [0/391] Time 0.324 (0.324) 0.0118 (0.0118) Prec 100.000% (100.000%) Epoch: [69] [100/391] Time 0.056 (0.058)	Data 0.275 (0.275) Lo	ss
(92.969%) * Prec 90.130% best acc: 90.980000 Epoch: [69] [0/391] Time 0.324 (0.324) 0.0118 (0.0118) Prec 100.000% (100.000%) Epoch: [69] [100/391] Time 0.056 (0.058) 0.0243 (0.0441) Prec 99.219% (98.523%)	Data 0.275 (0.275) Lo Data 0.002 (0.004) Lo	ss
(92.969%) * Prec 90.130% best acc: 90.980000 Epoch: [69] [0/391] Time 0.324 (0.324) 0.0118 (0.0118) Prec 100.000% (100.000%) Epoch: [69] [100/391] Time 0.056 (0.058) 0.0243 (0.0441) Prec 99.219% (98.523%) Epoch: [69] [200/391] Time 0.056 (0.057)	Data 0.275 (0.275) Lo Data 0.002 (0.004) Lo	ss
(92.969%) * Prec 90.130% best acc: 90.980000 Epoch: [69] [0/391] Time 0.324 (0.324) 0.0118 (0.0118) Prec 100.000% (100.000%) Epoch: [69] [100/391] Time 0.056 (0.058) 0.0243 (0.0441) Prec 99.219% (98.523%) Epoch: [69] [200/391] Time 0.056 (0.057) 0.0562 (0.0422) Prec 97.656% (98.616%)	Data 0.275 (0.275) Lo Data 0.002 (0.004) Lo Data 0.002 (0.003) Lo	555
(92.969%) * Prec 90.130% best acc: 90.980000 Epoch: [69] [0/391] Time 0.324 (0.324) 0.0118 (0.0118) Prec 100.000% (100.000%) Epoch: [69] [100/391] Time 0.056 (0.058) 0.0243 (0.0441) Prec 99.219% (98.523%) Epoch: [69] [200/391] Time 0.056 (0.057) 0.0562 (0.0422) Prec 97.656% (98.616%) Epoch: [69] [300/391] Time 0.055 (0.056)	Data 0.275 (0.275) Lo Data 0.002 (0.004) Lo Data 0.002 (0.003) Lo	ss
(92.969%) * Prec 90.130% best acc: 90.980000 Epoch: [69] [0/391] Time 0.324 (0.324) 0.0118 (0.0118) Prec 100.000% (100.000%) Epoch: [69] [100/391] Time 0.056 (0.058) 0.0243 (0.0441) Prec 99.219% (98.523%) Epoch: [69] [200/391] Time 0.056 (0.057) 0.0562 (0.0422) Prec 97.656% (98.616%) Epoch: [69] [300/391] Time 0.055 (0.056) 0.0385 (0.0432) Prec 99.219% (98.559%)	Data 0.275 (0.275) Lo Data 0.002 (0.004) Lo Data 0.002 (0.003) Lo	555
(92.969%) * Prec 90.130% best acc: 90.980000 Epoch: [69] [0/391] Time 0.324 (0.324) 0.0118 (0.0118) Prec 100.000% (100.000%) Epoch: [69] [100/391] Time 0.056 (0.058) 0.0243 (0.0441) Prec 99.219% (98.523%) Epoch: [69] [200/391] Time 0.056 (0.057) 0.0562 (0.0422) Prec 97.656% (98.616%) Epoch: [69] [300/391] Time 0.055 (0.056) 0.0385 (0.0432) Prec 99.219% (98.559%) Validation starts	Data 0.275 (0.275) Lo Data 0.002 (0.004) Lo Data 0.002 (0.003) Lo Data 0.001 (0.002) Lo	
(92.969%) * Prec 90.130% best acc: 90.980000 Epoch: [69] [0/391] Time 0.324 (0.324) 0.0118 (0.0118) Prec 100.000% (100.000%) Epoch: [69] [100/391] Time 0.056 (0.058) 0.0243 (0.0441) Prec 99.219% (98.523%) Epoch: [69] [200/391] Time 0.056 (0.057) 0.0562 (0.0422) Prec 97.656% (98.616%) Epoch: [69] [300/391] Time 0.055 (0.056) 0.0385 (0.0432) Prec 99.219% (98.559%) Validation starts Test: [0/79] Time 0.217 (0.217) Loss	Data 0.275 (0.275) Lo Data 0.002 (0.004) Lo Data 0.002 (0.003) Lo Data 0.001 (0.002) Lo	
(92.969%) * Prec 90.130% best acc: 90.980000 Epoch: [69] [0/391] Time 0.324 (0.324) 0.0118 (0.0118) Prec 100.000% (100.000%) Epoch: [69] [100/391] Time 0.056 (0.058) 0.0243 (0.0441) Prec 99.219% (98.523%) Epoch: [69] [200/391] Time 0.056 (0.057) 0.0562 (0.0422) Prec 97.656% (98.616%) Epoch: [69] [300/391] Time 0.055 (0.056) 0.0385 (0.0432) Prec 99.219% (98.559%) Validation starts Test: [0/79] Time 0.217 (0.217) Loss (93.750%)	Data 0.275 (0.275) Lo Data 0.002 (0.004) Lo Data 0.002 (0.003) Lo Data 0.001 (0.002) Lo	
(92.969%) * Prec 90.130% best acc: 90.980000 Epoch: [69] [0/391] Time 0.324 (0.324) 0.0118 (0.0118) Prec 100.000% (100.000%) Epoch: [69] [100/391] Time 0.056 (0.058) 0.0243 (0.0441) Prec 99.219% (98.523%) Epoch: [69] [200/391] Time 0.056 (0.057) 0.0562 (0.0422) Prec 97.656% (98.616%) Epoch: [69] [300/391] Time 0.055 (0.056) 0.0385 (0.0432) Prec 99.219% (98.559%) Validation starts Test: [0/79] Time 0.217 (0.217) Loss (93.750%) * Prec 90.550%	Data 0.275 (0.275) Lo Data 0.002 (0.004) Lo Data 0.002 (0.003) Lo Data 0.001 (0.002) Lo	
(92.969%) * Prec 90.130% best acc: 90.980000 Epoch: [69] [0/391]	Data 0.275 (0.275) Lo Data 0.002 (0.004) Lo Data 0.002 (0.003) Lo Data 0.001 (0.002) Lo s 0.1656 (0.1656) Prec 93.75	ss ss ss
(92.969%) * Prec 90.130% best acc: 90.980000 Epoch: [69] [0/391] Time 0.324 (0.324) 0.0118 (0.0118) Prec 100.000% (100.000%) Epoch: [69] [100/391] Time 0.056 (0.058) 0.0243 (0.0441) Prec 99.219% (98.523%) Epoch: [69] [200/391] Time 0.056 (0.057) 0.0562 (0.0422) Prec 97.656% (98.616%) Epoch: [69] [300/391] Time 0.055 (0.056) 0.0385 (0.0432) Prec 99.219% (98.559%) Validation starts Test: [0/79] Time 0.217 (0.217) Loss (93.750%) * Prec 90.550% best acc: 90.980000 Epoch: [70] [0/391] Time 0.262 (0.262)	Data 0.275 (0.275) Lo Data 0.002 (0.004) Lo Data 0.002 (0.003) Lo Data 0.001 (0.002) Lo s 0.1656 (0.1656) Prec 93.75	
(92.969%) * Prec 90.130% best acc: 90.980000 Epoch: [69] [0/391] Time 0.324 (0.324) 0.0118 (0.0118) Prec 100.000% (100.000%) Epoch: [69] [100/391] Time 0.056 (0.058) 0.0243 (0.0441) Prec 99.219% (98.523%) Epoch: [69] [200/391] Time 0.056 (0.057) 0.0562 (0.0422) Prec 97.656% (98.616%) Epoch: [69] [300/391] Time 0.055 (0.056) 0.0385 (0.0432) Prec 99.219% (98.559%) Validation starts Test: [0/79] Time 0.217 (0.217) Loss (93.750%) * Prec 90.550% best acc: 90.980000 Epoch: [70] [0/391] Time 0.262 (0.262) 0.0353 (0.0353) Prec 98.438% (98.438%)	Data 0.275 (0.275) Lo Data 0.002 (0.004) Lo Data 0.002 (0.003) Lo Data 0.001 (0.002) Lo s 0.1656 (0.1656) Prec 93.75	ss ss ss ss
(92.969%) * Prec 90.130% best acc: 90.980000 Epoch: [69] [0/391]	Data 0.275 (0.275) Lo Data 0.002 (0.004) Lo Data 0.002 (0.003) Lo Data 0.001 (0.002) Lo s 0.1656 (0.1656) Prec 93.75	ss ss ss
(92.969%) * Prec 90.130% best acc: 90.980000 Epoch: [69] [0/391] Time 0.324 (0.324) 0.0118 (0.0118) Prec 100.000% (100.000%) Epoch: [69] [100/391] Time 0.056 (0.058) 0.0243 (0.0441) Prec 99.219% (98.523%) Epoch: [69] [200/391] Time 0.056 (0.057) 0.0562 (0.0422) Prec 97.656% (98.616%) Epoch: [69] [300/391] Time 0.055 (0.056) 0.0385 (0.0432) Prec 99.219% (98.559%) Validation starts Test: [0/79] Time 0.217 (0.217) Loss (93.750%) * Prec 90.550% best acc: 90.980000 Epoch: [70] [0/391] Time 0.262 (0.262) 0.0353 (0.0353) Prec 98.438% (98.438%) Epoch: [70] [100/391] Time 0.056 (0.058) 0.0684 (0.0506) Prec 96.094% (98.267%)	Data 0.275 (0.275) Lo Data 0.002 (0.004) Lo Data 0.002 (0.003) Lo Data 0.001 (0.002) Lo s 0.1656 (0.1656) Prec 93.75 Data 0.212 (0.212) Lo Data 0.002 (0.004) Lo	ss ss ss ss ss
(92.969%) * Prec 90.130% best acc: 90.980000 Epoch: [69] [0/391] Time 0.324 (0.324) 0.0118 (0.0118) Prec 100.000% (100.000%) Epoch: [69] [100/391] Time 0.056 (0.058) 0.0243 (0.0441) Prec 99.219% (98.523%) Epoch: [69] [200/391] Time 0.056 (0.057) 0.0562 (0.0422) Prec 97.656% (98.616%) Epoch: [69] [300/391] Time 0.055 (0.056) 0.0385 (0.0432) Prec 99.219% (98.559%) Validation starts Test: [0/79] Time 0.217 (0.217) Loss (93.750%) * Prec 90.550% best acc: 90.980000 Epoch: [70] [0/391] Time 0.262 (0.262) 0.0353 (0.0353) Prec 98.438% (98.438%) Epoch: [70] [100/391] Time 0.056 (0.058) 0.0684 (0.0506) Prec 96.094% (98.267%) Epoch: [70] [200/391] Time 0.055 (0.056)	Data 0.275 (0.275) Lo Data 0.002 (0.004) Lo Data 0.002 (0.003) Lo Data 0.001 (0.002) Lo s 0.1656 (0.1656) Prec 93.75 Data 0.212 (0.212) Lo Data 0.002 (0.004) Lo	ss ss ss ss
(92.969%) * Prec 90.130% best acc: 90.980000 Epoch: [69] [0/391] Time 0.324 (0.324) 0.0118 (0.0118) Prec 100.000% (100.000%) Epoch: [69] [100/391] Time 0.056 (0.058) 0.0243 (0.0441) Prec 99.219% (98.523%) Epoch: [69] [200/391] Time 0.056 (0.057) 0.0562 (0.0422) Prec 97.656% (98.616%) Epoch: [69] [300/391] Time 0.055 (0.056) 0.0385 (0.0432) Prec 99.219% (98.559%) Validation starts Test: [0/79] Time 0.217 (0.217) Loss (93.750%) * Prec 90.550% best acc: 90.980000 Epoch: [70] [0/391] Time 0.262 (0.262) 0.0353 (0.0353) Prec 98.438% (98.438%) Epoch: [70] [100/391] Time 0.056 (0.058) 0.0684 (0.0506) Prec 96.094% (98.267%)	Data 0.275 (0.275) Lo Data 0.002 (0.004) Lo Data 0.002 (0.003) Lo Data 0.001 (0.002) Lo s 0.1656 (0.1656) Prec 93.75 Data 0.212 (0.212) Lo Data 0.002 (0.004) Lo Data 0.001 (0.003) Lo	ss ss ss ss ss

0.0395 (0.0468) Prec 97.656% (98.440%) Validation starts Test: [0/79] Time 0.204 (0.204) Loss 0.2819 (0.2819) Prec 90.625% (90.625%)* Prec 89.960% best acc: 90.980000 Epoch: [71] [0/391] Time 0.276 (0.276)Data 0.227 (0.227) Loss 0.0504 (0.0504) Prec 99.219% (99.219%) Epoch: [71] [100/391] Time 0.056 (0.058)Data 0.002 (0.004) Loss 0.0641 (0.0432) Prec 97.656% (98.453%) Epoch: [71] [200/391] Data 0.002 (0.003) Time 0.056 (0.057)Loss 0.0273 (0.0446) Prec 99.219% (98.480%) Epoch: [71] [300/391] Time 0.055 (0.056)Data 0.002 (0.002) Loss 0.0245 (0.0474) Prec 97.656% (98.344%) Validation starts Test: [0/79] Time 0.213 (0.213) Loss 0.1224 (0.1224) Prec 95.312% (95.312%)* Prec 90.240% best acc: 90.980000 Epoch: [72] [0/391] Time 0.296 (0.296) Data 0.250 (0.250) Loss 0.0892 (0.0892) Prec 94.531% (94.531%) Epoch: [72] [100/391] Data 0.001 (0.004) Time 0.056 (0.058)Loss 0.0186 (0.0438) Prec 100.000% (98.530%) Epoch: [72] [200/391] Time 0.054 (0.057)Data 0.002 (0.003) Loss 0.0457 (0.0499) Prec 97.656% (98.278%) Epoch: [72] [300/391] Data 0.001 (0.002) Time 0.056 (0.056)Loss Prec 95.312% (98.209%) 0.0829 (0.0521) Validation starts Test: [0/79] Time 0.266 (0.266) Loss 0.1485 (0.1485) Prec 92.969% (92.969%)* Prec 90.150% best acc: 90.980000 Epoch: [73] [0/391] Time 0.275 (0.275)Data 0.227 (0.227) Loss 0.0174 (0.0174) Prec 99.219% (99.219%) Epoch: [73] [100/391] Time 0.055 (0.058)Data 0.001 (0.004) Loss 0.0975 (0.1462) Prec 96.875% (95.034%) Epoch: [73] [200/391] Time 0.056 (0.057)Data 0.001 (0.003) Loss 0.0907 (0.1191) Prec 97.656% (95.872%) Epoch: [73] [300/391] Time 0.055 (0.056)Data 0.001 (0.002) Loss 0.0939 (0.1102) Prec 95.312% (96.177%) Validation starts Test: [0/79] Time 0.213 (0.213) Loss 0.1588 (0.1588) Prec 93.750% (93.750%)* Prec 90.020% best acc: 90.980000 Epoch: [74] [0/391] Time 0.286 (0.286) Data 0.241 (0.241) Loss 0.0141 (0.0141) Prec 100.000% (100.000%) Epoch: [74] [100/391] Time 0.057 (0.058) Data 0.001 (0.004) Loss

0.0440 (0.0000)	00 400% (00 504%					
0.0442 (0.0668) Prec			D-+-	0 001	(0,000)	T
Epoch: [74] [200/391]			рата	0.001	(0.003)	Loss
0.1158 (0.0674) Prec			D-+-	0 001	(0, 000)	T
Epoch: [74] [300/391]			рата	0.001	(0.002)	Loss
0.0349 (0.0689) Prec	99.219% (97.534%	,)				
Validation starts	204 (0 004)	_	0.0000	(0.000		00 750%
Test: [0/79] Time 0.2	234 (0.234)	Loss	0.2038	(0.2038	3) Prec	93.750%
(93.750%)						
* Prec 90.190%						
best acc: 90.980000	T: 0 0EC (0 0E	· C)	D-+-	0 007	(0.007)	T
Epoch: [75] [0/391]			Data	0.207	(0.207)	Loss
0.0616 (0.0616) Prec			.		(0.004)	_
Epoch: [75] [100/391]			Data	0.002	(0.004)	Loss
0.0890 (0.0589) Prec			_			
Epoch: [75] [200/391]			Data	0.001	(0.003)	Loss
0.0330 (0.0616) Prec						
Epoch: [75] [300/391]			Data	0.002	(0.002)	Loss
0.0595 (0.0631) Prec	98.438% (97.783%	(,)				
Validation starts						
Test: [0/79] Time 0.2	250 (0.250)	Loss	0.1986	(0.1986	S) Prec	91.406%
(91.406%)						
* Prec 90.380%						
best acc: 90.980000						
Epoch: [76][0/391]			Data	0.204	(0.204)	Loss
0.0473 (0.0473) Prec	98.438% (98.438%	(,)				
Epoch: [76][100/391]	Time 0.056 (0.05	(8)	Data	0.001	(0.004)	Loss
0.0713 (0.0668) Prec	97.656% (97.641%	(,)				
Epoch: [76] [200/391]	Time 0.055 (0.05	57)	Data	0.001	(0.003)	Loss
0.0835 (0.0647) Prec	97.656% (97.765%	(,)				
Epoch: [76][300/391]	Time 0.056 (0.05	66)	Data	0.002	(0.002)	Loss
0.0596 (0.0644) Prec	97.656% (97.812%	(,)				
Validation starts						
Test: [0/79] Time 0.2	264 (0.264)	Loss	0.2573	(0.2573	3) Prec	93.750%
(93.750%)						
* Prec 90.280%						
best acc: 90.980000						
Epoch: [77][0/391]	Time 0.312 (0.31	.2)	Data	0.263	(0.263)	Loss
0.0389 (0.0389) Prec	98.438% (98.438%	(,)				
Epoch: [77][100/391]	Time 0.055 (0.05	(8)	Data	0.002	(0.004)	Loss
0.0523 (0.0541) Prec	97.656% (98.113%	(,)				
Epoch: [77][200/391]	Time 0.055 (0.05	57)	Data	0.001	(0.003)	Loss
0.0667 (0.0535) Prec	96.875% (98.080%	(,)				
Epoch: [77][300/391]	Time 0.055 (0.05	66)	Data	0.001	(0.002)	Loss
0.0348 (0.0564) Prec	98.438% (97.986%	(,)				
Validation starts						
Test: [0/79] Time 0.2	230 (0.230)	Loss	0.2227	(0.2227	7) Prec	95.312%
(95.312%)						
* Prec 90.570%						

best acc: 90.980000	
Epoch: [78] [0/391] Time 0.284 (0.284)	Data 0.234 (0.234) Loss
0.0441 (0.0441) Prec 98.438% (98.438%)	Basa 0.201 (0.201) Hobb
Epoch: [78] [100/391] Time 0.056 (0.058)	Data 0.002 (0.004) Loss
0.0421 (0.0538) Prec 98.438% (98.175%)	2000 0.002 (0.001) 2000
Epoch: [78] [200/391] Time 0.055 (0.057)	Data 0.001 (0.003) Loss
0.0226 (0.0535) Prec 99.219% (98.173%)	2000 0.001 (0.000) 2000
Epoch: [78] [300/391] Time 0.056 (0.056)	Data 0.002 (0.002) Loss
0.0168 (0.0540) Prec 99.219% (98.126%)	2404 01002 (01002) 2022
Validation starts	
Test: [0/79] Time 0.233 (0.233) Loss	0.2586 (0.2586) Prec 94.531%
(94.531%)	
* Prec 90.050%	
best acc: 90.980000	
Epoch: [79] [0/391] Time 0.314 (0.314)	Data 0.266 (0.266) Loss
0.0401 (0.0401) Prec 98.438% (98.438%)	
Epoch: [79] [100/391] Time 0.054 (0.058)	Data 0.001 (0.004) Loss
0.0627 (0.0562) Prec 97.656% (98.012%)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Epoch: [79][200/391] Time 0.055 (0.057)	Data 0.001 (0.003) Loss
0.0403 (0.0542) Prec 98.438% (98.088%)	, , , , , , , , , , , , , , , , , , ,
Epoch: [79] [300/391] Time 0.058 (0.056)	Data 0.001 (0.002) Loss
0.0374 (0.0558) Prec 98.438% (98.048%)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Validation starts	
Test: [0/79] Time 0.271 (0.271) Loss	s 0.1852 (0.1852) Prec 94.531%
(94.531%)	
* Prec 90.610%	
best acc: 90.980000	
Epoch: [80] [0/391] Time 0.274 (0.274)	Data 0.227 (0.227) Loss
0.0322 (0.0322) Prec 98.438% (98.438%)	
Epoch: [80] [100/391] Time 0.057 (0.058)	Data 0.002 (0.004) Loss
0.0475 (0.0467) Prec 99.219% (98.414%)	
Epoch: [80] [200/391] Time 0.055 (0.057)	Data 0.001 (0.003) Loss
0.0723 (0.0507) Prec 96.875% (98.259%)	
Epoch: [80][300/391] Time 0.058 (0.056)	Data 0.002 (0.002) Loss
0.0471 (0.0516) Prec 97.656% (98.261%)	
Validation starts	
Test: [0/79] Time 0.204 (0.204) Loss	0.2065 (0.2065) Prec 92.188%
(92.188%)	
* Prec 90.290%	
best acc: 90.980000	
Epoch: [81] [0/391] Time 0.313 (0.313)	Data 0.265 (0.265) Loss
0.0147 (0.0147) Prec 100.000% (100.000%)	
Epoch: [81][100/391] Time 0.055 (0.058)	Data 0.002 (0.004) Loss
0.0400 (0.0494) Prec 98.438% (98.314%)	
Epoch: [81][200/391] Time 0.052 (0.057)	Data 0.002 (0.003) Loss
0.0327 (0.0513) Prec 99.219% (98.212%)	
Epoch: [81][300/391] Time 0.058 (0.056)	Data 0.001 (0.002) Loss
0.0281 (0.0526) Prec 99.219% (98.160%)	

Validation starts Test: [0/79] Time 0.232 (0.232) Los (90.625%)	ss 0.2224 (0.2224) Prec 90.625%
* Prec 88.740%	
best acc: 90.980000	
Epoch: [82] [0/391] Time 0.249 (0.249)	Data 0.201 (0.201) Loss
0.0803 (0.0803) Prec 98.438% (98.438%)	
Epoch: [82][100/391] Time 0.055 (0.057)	Data 0.002 (0.004) Loss
0.0594 (0.0553) Prec 98.438% (98.198%)	, , , , , , , , , , , , , , , , , , , ,
Epoch: [82] [200/391] Time 0.054 (0.056)	Data 0.001 (0.003) Loss
0.0075 (0.0506) Prec 100.000% (98.313%)	
Epoch: [82] [300/391] Time 0.055 (0.056)	Data 0.001 (0.002) Loss
0.0343 (0.0510) Prec 99.219% (98.227%)	2404 01002 (01002) 2002
Validation starts	
Test: [0/79] Time 0.225 (0.225) Los	ss 0.1366 (0.1366) Prec 93.750%
(93.750%)	
* Prec 90.580%	
best acc: 90.980000	
Epoch: [83] [0/391] Time 0.250 (0.250)	Data 0.201 (0.201) Loss
0.0383 (0.0383) Prec 99.219% (99.219%)	2404 00202 (00202), 2000
Epoch: [83] [100/391] Time 0.054 (0.057)	Data 0.002 (0.004) Loss
0.0586 (0.0502) Prec 99.219% (98.159%)	2404 0.002 (0.001) 2022
Epoch: [83] [200/391] Time 0.055 (0.056)	Data 0.002 (0.003) Loss
0.0636 (0.0485) Prec 99.219% (98.251%)	2404 00012 (00000), 2000
Epoch: [83] [300/391] Time 0.058 (0.056)	Data 0.002 (0.002) Loss
0.0379 (0.0496) Prec 98.438% (98.225%)	2404 00012 (00001, 2000
Validation starts	
Test: [0/79] Time 0.230 (0.230) Los	ss 0.1673 (0.1673) Prec 94.531%
(94.531%)	22 012010 (012010)
* Prec 90.000%	
best acc: 90.980000	
Epoch: [84] [0/391] Time 0.289 (0.289)	Data 0.246 (0.246) Loss
0.0424 (0.0424) Prec 99.219% (99.219%)	2404 00210 (00210), 2000
Epoch: [84] [100/391] Time 0.056 (0.058)	Data 0.002 (0.004) Loss
0.0461 (0.0575) Prec 96.875% (97.997%)	2404 00002 (00002), 2000
Epoch: [84] [200/391] Time 0.055 (0.057)	Data 0.002 (0.003) Loss
0.0763 (0.0556) Prec 97.656% (98.060%)	2404 00012 (00000), 2000
Epoch: [84] [300/391] Time 0.055 (0.056)	Data 0.002 (0.002) Loss
0.0161 (0.0559) Prec 100.000% (98.038%)	2404 00012 (00001, 2000
Validation starts	
Test: [0/79] Time 0.230 (0.230) Los	ss 0.2032 (0.2032) Prec 93.750%
(93.750%)	,
* Prec 89.770%	
best acc: 90.980000	
Epoch: [85] [0/391] Time 0.264 (0.264)	Data 0.218 (0.218) Loss
0.0391 (0.0391) Prec 99.219% (99.219%)	,
Epoch: [85][100/391] Time 0.053 (0.058)	Data 0.001 (0.004) Loss
0.0690 (0.0516) Prec 96.094% (98.175%)	

Epoch: [85] [200/391] Time 0.055 (0.057)	Data 0.002 (0.003) Loss
0.0678 (0.0479) Prec 97.656% (98.317%) Epoch: [85] [300/391] Time 0.057 (0.056) 0.0625 (0.0462) Prec 97.656% (98.380%)	Data 0.001 (0.002) Loss
Validation starts Test: [0/79] Time 0.224 (0.224) Loss (92.969%)	0.2413 (0.2413) Prec 92.969%
* Prec 89.480%	
best acc: 90.980000	
Epoch: [86] [0/391] Time 0.253 (0.253)	Data 0.205 (0.205) Loss
0.0607 (0.0607) Prec 97.656% (97.656%)	
Epoch: [86][100/391] Time 0.056 (0.057)	Data 0.002 (0.004) Loss
0.0976 (0.0507) Prec 94.531% (98.198%)	
Epoch: [86][200/391] Time 0.054 (0.057)	Data 0.001 (0.003) Loss
0.0232 (0.0514) Prec 100.000% (98.193%)	
Epoch: [86][300/391] Time 0.058 (0.056)	Data 0.002 (0.002) Loss
0.0407 (0.0507) Prec 98.438% (98.194%)	
Validation starts	
Test: [0/79] Time 0.238 (0.238) Loss	0.2613 (0.2613) Prec 93.750%
(93.750%)	
* Prec 90.350%	
best acc: 90.980000	
Epoch: [87][0/391] Time 0.311 (0.311)	Data 0.262 (0.262) Loss
0.0342 (0.0342) Prec 98.438% (98.438%)	
Epoch: [87][100/391] Time 0.058 (0.058)	Data 0.001 (0.004) Loss
0.0624 (0.0502) Prec 98.438% (98.267%)	
Epoch: [87][200/391] Time 0.056 (0.057)	Data 0.002 (0.003) Loss
0.0327 (0.0510) Prec 98.438% (98.142%)	• • •
Epoch: [87][300/391] Time 0.052 (0.056)	Data 0.002 (0.002) Loss
0.0196 (0.0527) Prec 100.000% (98.087%)	, , , , , , , , , , , , , , , , , , ,
Validation starts	
Test: [0/79] Time 0.245 (0.245) Loss	0.3695 (0.3695) Prec 89.062%
(89.062%)	, , , , , , , , , , , , , , , , , , , ,
* Prec 88.060%	
best acc: 90.980000	
Epoch: [88] [0/391] Time 0.284 (0.284)	Data 0.239 (0.239) Loss
0.0721 (0.0721) Prec 97.656% (97.656%)	
Epoch: [88] [100/391] Time 0.052 (0.058)	Data 0.002 (0.004) Loss
0.0344 (0.0478) Prec 99.219% (98.252%)	
Epoch: [88] [200/391] Time 0.056 (0.057)	Data 0.002 (0.003) Loss
0.0252 (0.0523) Prec 99.219% (98.123%)	
Epoch: [88] [300/391] Time 0.056 (0.056)	Data 0.001 (0.002) Loss
0.0543 (0.0520) Prec 96.094% (98.136%)	2404 0.001 (0.002)
Validation starts	
Test: [0/79] Time 0.207 (0.207) Loss	0.2664 (0.2664) Prec 92 1889
(92.188%)	1.231 (0.231, 1133 52.100%
* Prec 90.040%	
best acc: 90.980000	
2020 400. 00.000000	

Epoch: [89] [0/391] Time 0.296 (0.296) 0.0419 (0.0419) Prec 97.656% (97.656%)	Data 0.246	(0.246) Loss
Epoch: [89] [100/391] Time 0.054 (0.058) 0.0491 (0.0484) Prec 96.875% (98.321%)	Data 0.002	(0.004) Loss
Epoch: [89] [200/391] Time 0.053 (0.057) 0.0317 (0.0491) Prec 99.219% (98.235%)	Data 0.001	(0.003) Loss
Epoch: [89] [300/391] Time 0.053 (0.056) 0.0329 (0.0494) Prec 97.656% (98.271%)	Data 0.002	(0.002) Loss
Validation starts		
Test: [0/79] Time 0.230 (0.230) Loss	0.2337 (0.2337	Prec 92.188%
(92.188%)		
* Prec 89.500%		
best acc: 90.980000		
Epoch: [90][0/391] Time 0.257 (0.257)	Data 0.215	(0.215) Loss
0.0218 (0.0218) Prec 99.219% (99.219%)		
Epoch: [90][100/391] Time 0.057 (0.058)	Data 0.002	(0.004) Loss
0.0327 (0.0465) Prec 98.438% (98.329%)		
Epoch: [90][200/391] Time 0.056 (0.057)	Data 0.001	(0.003) Loss
0.0983 (0.0472) Prec 96.094% (98.364%)		
Epoch: [90][300/391] Time 0.056 (0.056)	Data 0.001	(0.002) Loss
0.0206 (0.0480) Prec 99.219% (98.336%)		
Validation starts		
Test: [0/79] Time 0.228 (0.228) Loss	0.1857 (0.1857	Prec 95.312%
(95.312%)		
* Prec 89.130%		
* Prec 89.130% best acc: 90.980000		
	Data 0.215	(0.215) Loss
best acc: 90.980000	Data 0.215	(0.215) Loss
best acc: 90.980000 Epoch: [91] [0/391] Time 0.266 (0.266) 0.0615 (0.0615) Prec 97.656% (97.656%) Epoch: [91] [100/391] Time 0.055 (0.058)	Data 0.215 Data 0.002	
best acc: 90.980000 Epoch: [91][0/391] Time 0.266 (0.266) 0.0615 (0.0615) Prec 97.656% (97.656%)		
best acc: 90.980000 Epoch: [91] [0/391] Time 0.266 (0.266) 0.0615 (0.0615) Prec 97.656% (97.656%) Epoch: [91] [100/391] Time 0.055 (0.058)		(0.004) Loss
best acc: 90.980000 Epoch: [91] [0/391] Time 0.266 (0.266) 0.0615 (0.0615) Prec 97.656% (97.656%) Epoch: [91] [100/391] Time 0.055 (0.058) 0.0341 (0.0472) Prec 98.438% (98.291%) Epoch: [91] [200/391] Time 0.060 (0.057) 0.0805 (0.0472) Prec 97.656% (98.282%)	Data 0.002	(0.004) Loss
best acc: 90.980000 Epoch: [91] [0/391] Time 0.266 (0.266) 0.0615 (0.0615) Prec 97.656% (97.656%) Epoch: [91] [100/391] Time 0.055 (0.058) 0.0341 (0.0472) Prec 98.438% (98.291%) Epoch: [91] [200/391] Time 0.060 (0.057) 0.0805 (0.0472) Prec 97.656% (98.282%) Epoch: [91] [300/391] Time 0.056 (0.056)	Data 0.002	(0.004) Loss (0.003) Loss
best acc: 90.980000 Epoch: [91] [0/391] Time 0.266 (0.266) 0.0615 (0.0615) Prec 97.656% (97.656%) Epoch: [91] [100/391] Time 0.055 (0.058) 0.0341 (0.0472) Prec 98.438% (98.291%) Epoch: [91] [200/391] Time 0.060 (0.057) 0.0805 (0.0472) Prec 97.656% (98.282%)	Data 0.002	(0.004) Loss (0.003) Loss
best acc: 90.980000 Epoch: [91] [0/391] Time 0.266 (0.266) 0.0615 (0.0615) Prec 97.656% (97.656%) Epoch: [91] [100/391] Time 0.055 (0.058) 0.0341 (0.0472) Prec 98.438% (98.291%) Epoch: [91] [200/391] Time 0.060 (0.057) 0.0805 (0.0472) Prec 97.656% (98.282%) Epoch: [91] [300/391] Time 0.056 (0.056)	Data 0.002	(0.004) Loss (0.003) Loss
best acc: 90.980000 Epoch: [91] [0/391] Time 0.266 (0.266) 0.0615 (0.0615) Prec 97.656% (97.656%) Epoch: [91] [100/391] Time 0.055 (0.058) 0.0341 (0.0472) Prec 98.438% (98.291%) Epoch: [91] [200/391] Time 0.060 (0.057) 0.0805 (0.0472) Prec 97.656% (98.282%) Epoch: [91] [300/391] Time 0.056 (0.056) 0.0440 (0.0483) Prec 98.438% (98.297%)	Data 0.002 Data 0.001 Data 0.001	(0.004) Loss (0.003) Loss (0.002) Loss
best acc: 90.980000 Epoch: [91][0/391] Time 0.266 (0.266) 0.0615 (0.0615) Prec 97.656% (97.656%) Epoch: [91][100/391] Time 0.055 (0.058) 0.0341 (0.0472) Prec 98.438% (98.291%) Epoch: [91][200/391] Time 0.060 (0.057) 0.0805 (0.0472) Prec 97.656% (98.282%) Epoch: [91][300/391] Time 0.056 (0.056) 0.0440 (0.0483) Prec 98.438% (98.297%) Validation starts	Data 0.002 Data 0.001 Data 0.001	(0.004) Loss (0.003) Loss (0.002) Loss
best acc: 90.980000 Epoch: [91][0/391] Time 0.266 (0.266) 0.0615 (0.0615) Prec 97.656% (97.656%) Epoch: [91][100/391] Time 0.055 (0.058) 0.0341 (0.0472) Prec 98.438% (98.291%) Epoch: [91][200/391] Time 0.060 (0.057) 0.0805 (0.0472) Prec 97.656% (98.282%) Epoch: [91][300/391] Time 0.056 (0.056) 0.0440 (0.0483) Prec 98.438% (98.297%) Validation starts Test: [0/79] Time 0.246 (0.246) Loss	Data 0.002 Data 0.001 Data 0.001	(0.004) Loss (0.003) Loss (0.002) Loss
best acc: 90.980000 Epoch: [91][0/391] Time 0.266 (0.266) 0.0615 (0.0615) Prec 97.656% (97.656%) Epoch: [91][100/391] Time 0.055 (0.058) 0.0341 (0.0472) Prec 98.438% (98.291%) Epoch: [91][200/391] Time 0.060 (0.057) 0.0805 (0.0472) Prec 97.656% (98.282%) Epoch: [91][300/391] Time 0.056 (0.056) 0.0440 (0.0483) Prec 98.438% (98.297%) Validation starts Test: [0/79] Time 0.246 (0.246) Loss (93.750%)	Data 0.002 Data 0.001 Data 0.001	(0.004) Loss (0.003) Loss (0.002) Loss
best acc: 90.980000 Epoch: [91][0/391] Time 0.266 (0.266) 0.0615 (0.0615) Prec 97.656% (97.656%) Epoch: [91][100/391] Time 0.055 (0.058) 0.0341 (0.0472) Prec 98.438% (98.291%) Epoch: [91][200/391] Time 0.060 (0.057) 0.0805 (0.0472) Prec 97.656% (98.282%) Epoch: [91][300/391] Time 0.056 (0.056) 0.0440 (0.0483) Prec 98.438% (98.297%) Validation starts Test: [0/79] Time 0.246 (0.246) Loss (93.750%) * Prec 90.240%	Data 0.002 Data 0.001 Data 0.001 0.3136 (0.3136	(0.004) Loss (0.003) Loss (0.002) Loss
best acc: 90.980000 Epoch: [91][0/391] Time 0.266 (0.266) 0.0615 (0.0615) Prec 97.656% (97.656%) Epoch: [91][100/391] Time 0.055 (0.058) 0.0341 (0.0472) Prec 98.438% (98.291%) Epoch: [91][200/391] Time 0.060 (0.057) 0.0805 (0.0472) Prec 97.656% (98.282%) Epoch: [91][300/391] Time 0.056 (0.056) 0.0440 (0.0483) Prec 98.438% (98.297%) Validation starts Test: [0/79] Time 0.246 (0.246) Loss (93.750%) * Prec 90.240% best acc: 90.980000	Data 0.002 Data 0.001 Data 0.001 0.3136 (0.3136	(0.004) Loss (0.003) Loss (0.002) Loss e) Prec 93.750%
best acc: 90.980000 Epoch: [91][0/391] Time 0.266 (0.266) 0.0615 (0.0615) Prec 97.656% (97.656%) Epoch: [91][100/391] Time 0.055 (0.058) 0.0341 (0.0472) Prec 98.438% (98.291%) Epoch: [91][200/391] Time 0.060 (0.057) 0.0805 (0.0472) Prec 97.656% (98.282%) Epoch: [91][300/391] Time 0.056 (0.056) 0.0440 (0.0483) Prec 98.438% (98.297%) Validation starts Test: [0/79] Time 0.246 (0.246) Loss (93.750%) * Prec 90.240% best acc: 90.980000 Epoch: [92][0/391] Time 0.320 (0.320)	Data 0.002 Data 0.001 Data 0.001 0.3136 (0.3136	(0.004) Loss (0.003) Loss (0.002) Loss 2) Prec 93.750% (0.270) Loss
best acc: 90.980000 Epoch: [91][0/391] Time 0.266 (0.266) 0.0615 (0.0615) Prec 97.656% (97.656%) Epoch: [91][100/391] Time 0.055 (0.058) 0.0341 (0.0472) Prec 98.438% (98.291%) Epoch: [91][200/391] Time 0.060 (0.057) 0.0805 (0.0472) Prec 97.656% (98.282%) Epoch: [91][300/391] Time 0.056 (0.056) 0.0440 (0.0483) Prec 98.438% (98.297%) Validation starts Test: [0/79] Time 0.246 (0.246) Loss (93.750%) * Prec 90.240% best acc: 90.980000 Epoch: [92][0/391] Time 0.320 (0.320) 0.0562 (0.0562) Prec 97.656% (97.656%)	Data 0.002 Data 0.001 Data 0.001 0.3136 (0.3136) Data 0.270	(0.004) Loss (0.003) Loss (0.002) Loss Prec 93.750% (0.270) Loss
best acc: 90.980000 Epoch: [91] [0/391] Time 0.266 (0.266) 0.0615 (0.0615) Prec 97.656% (97.656%) Epoch: [91] [100/391] Time 0.055 (0.058) 0.0341 (0.0472) Prec 98.438% (98.291%) Epoch: [91] [200/391] Time 0.060 (0.057) 0.0805 (0.0472) Prec 97.656% (98.282%) Epoch: [91] [300/391] Time 0.056 (0.056) 0.0440 (0.0483) Prec 98.438% (98.297%) Validation starts Test: [0/79] Time 0.246 (0.246) Loss (93.750%) * Prec 90.240% best acc: 90.980000 Epoch: [92] [0/391] Time 0.320 (0.320) 0.0562 (0.0562) Prec 97.656% (97.656%) Epoch: [92] [100/391] Time 0.056 (0.058) 0.0288 (0.0397) Prec 99.219% (98.716%) Epoch: [92] [200/391] Time 0.055 (0.057)	Data 0.002 Data 0.001 Data 0.001 0.3136 (0.3136) Data 0.270 Data 0.001	(0.004) Loss (0.003) Loss (0.002) Loss Prec 93.750% (0.270) Loss (0.004) Loss
Epoch: [91] [0/391] Time 0.266 (0.266) 0.0615 (0.0615) Prec 97.656% (97.656%) Epoch: [91] [100/391] Time 0.055 (0.058) 0.0341 (0.0472) Prec 98.438% (98.291%) Epoch: [91] [200/391] Time 0.060 (0.057) 0.0805 (0.0472) Prec 97.656% (98.282%) Epoch: [91] [300/391] Time 0.056 (0.056) 0.0440 (0.0483) Prec 98.438% (98.297%) Validation starts Test: [0/79] Time 0.246 (0.246) Loss (93.750%) * Prec 90.240% best acc: 90.980000 Epoch: [92] [0/391] Time 0.320 (0.320) 0.0562 (0.0562) Prec 97.656% (97.656%) Epoch: [92] [100/391] Time 0.056 (0.058) 0.0288 (0.0397) Prec 99.219% (98.716%) Epoch: [92] [200/391] Time 0.055 (0.057) 0.0784 (0.0438) Prec 98.438% (98.523%)	Data 0.002 Data 0.001 Data 0.001 0.3136 (0.3136) Data 0.270 Data 0.001 Data 0.002	(0.004) Loss (0.003) Loss (0.002) Loss Prec 93.750% (0.270) Loss (0.004) Loss (0.003) Loss
Epoch: [91][0/391] Time 0.266 (0.266) 0.0615 (0.0615) Prec 97.656% (97.656%) Epoch: [91][100/391] Time 0.055 (0.058) 0.0341 (0.0472) Prec 98.438% (98.291%) Epoch: [91][200/391] Time 0.060 (0.057) 0.0805 (0.0472) Prec 97.656% (98.282%) Epoch: [91][300/391] Time 0.056 (0.056) 0.0440 (0.0483) Prec 98.438% (98.297%) Validation starts Test: [0/79] Time 0.246 (0.246) Loss (93.750%) * Prec 90.240% best acc: 90.980000 Epoch: [92][0/391] Time 0.320 (0.320) 0.0562 (0.0562) Prec 97.656% (97.656%) Epoch: [92][100/391] Time 0.056 (0.058) 0.0288 (0.0397) Prec 99.219% (98.716%) Epoch: [92][200/391] Time 0.055 (0.057) 0.0784 (0.0438) Prec 98.438% (98.523%) Epoch: [92][300/391] Time 0.056 (0.056)	Data 0.002 Data 0.001 Data 0.001 0.3136 (0.3136) Data 0.270 Data 0.001 Data 0.002	(0.004) Loss (0.003) Loss (0.002) Loss Prec 93.750% (0.270) Loss (0.004) Loss (0.003) Loss
Epoch: [91] [0/391] Time 0.266 (0.266) 0.0615 (0.0615) Prec 97.656% (97.656%) Epoch: [91] [100/391] Time 0.055 (0.058) 0.0341 (0.0472) Prec 98.438% (98.291%) Epoch: [91] [200/391] Time 0.060 (0.057) 0.0805 (0.0472) Prec 97.656% (98.282%) Epoch: [91] [300/391] Time 0.056 (0.056) 0.0440 (0.0483) Prec 98.438% (98.297%) Validation starts Test: [0/79] Time 0.246 (0.246) Loss (93.750%) * Prec 90.240% best acc: 90.980000 Epoch: [92] [0/391] Time 0.320 (0.320) 0.0562 (0.0562) Prec 97.656% (97.656%) Epoch: [92] [100/391] Time 0.056 (0.058) 0.0288 (0.0397) Prec 99.219% (98.716%) Epoch: [92] [200/391] Time 0.055 (0.057) 0.0784 (0.0438) Prec 98.438% (98.523%)	Data 0.002 Data 0.001 Data 0.001 0.3136 (0.3136) Data 0.270 Data 0.001 Data 0.002	(0.004) Loss (0.003) Loss (0.002) Loss Prec 93.750% (0.270) Loss (0.004) Loss (0.003) Loss

Test: [0/79] Time 0.3 (92.188%)	224 (0.224) Los	ss 0.2628	(0.2628) Prec	92.188%
* Prec 89.830%					
best acc: 90.980000					
Epoch: [93][0/391]		Data	0.271	(0.271)	Loss
0.0731 (0.0731) Prec		_			
Epoch: [93] [100/391]		Data	0.001	(0.004)	Loss
0.0682 (0.0453) Prec		ъ.	0 000	(0.000)	-
Epoch: [93] [200/391]		Data	0.002	(0.003)	Loss
0.0384 (0.0439) Prec		Data	0 000	(0, 000)	T
Epoch: [93][300/391] 0.0329 (0.0429) Prec		Data	0.002	(0.002)	Loss
Validation starts	99.219% (90.492%)				
Test: [0/79] Time 0.3	238 (0 238) I.o.	ss 0 2751	(0. 2751) Prec	92 969%
(92.969%)	200 (0.200)	0.2701	(0.2/01	, 1100	02.000%
* Prec 89.590%					
best acc: 90.980000					
Epoch: [94][0/391]	Time 0.292 (0.292)	Data	0.240	(0.240)	Loss
0.0579 (0.0579) Prec					
Epoch: [94][100/391]	Time 0.056 (0.058)	Data	0.001	(0.004)	Loss
0.0636 (0.0454) Prec	97.656% (98.430%)				
Epoch: [94][200/391]	Time 0.058 (0.057)	Data	0.001	(0.003)	Loss
0.0398 (0.0494) Prec	99.219% (98.298%)				
Epoch: [94][300/391]		Data	0.002	(0.002)	Loss
0.0616 (0.0507) Prec	98.438% (98.282%)				
Validation starts					
Test: [0/79] Time 0.5	263 (0.263) Los	ss 0.1762	(0.1762)) Prec	94.531%
(94.531%)					
* Prec 90.390%					
best acc: 90.980000	Time 0 064 (0 064)	Doto	0.012	(0 012)	Loss
Epoch: [95][0/391] 0.0141 (0.0141) Prec		раца	0.213	(0.213)	LOSS
Epoch: [95] [100/391]		Data	0 001	(0.004)	Loss
0.0712 (0.0400) Prec		Date	0.001	(0.004)	LUSS
Epoch: [95] [200/391]		Data	0.002	(0.003)	Loss
0.0288 (0.0459) Prec		Dave	0.002	(0.000)	Добб
Epoch: [95] [300/391]		Data	0.001	(0.002)	Loss
0.0445 (0.0453) Prec				,	
Validation starts					
Test: [0/79] Time 0.3	227 (0.227) Los	ss 0.2724	(0.2724) Prec	93.750%
(93.750%)					
* Prec 89.840%					
best acc: 90.980000					
Epoch: [96][0/391]			0.215	(0.215)	Loss
0.0165 (0.0165) Prec					
Epoch: [96] [100/391]		Data	0.001	(0.004)	Loss
0.0189 (0.0434) Prec		_		(a aa=)	_
Epoch: [96][200/391]	Time 0.056 (0.057)	Data	0.002	(0.003)	Loss

```
0.0148 (0.0436)
                   Prec 100.000% (98.445%)
                                                 Data 0.002 (0.002)
Epoch: [96] [300/391]
                        Time 0.055 (0.056)
                                                                          Loss
0.0681 (0.0479)
                   Prec 98.438% (98.297%)
Validation starts
Test: [0/79]
                                         Loss 0.1059 (0.1059)
                Time 0.241 (0.241)
                                                                  Prec 96.094%
(96.094\%)
 * Prec 88.920%
best acc: 90.980000
Epoch: [97] [0/391]
                        Time 0.273 (0.273)
                                                 Data 0.227 (0.227)
                                                                          Loss
0.0365 (0.0365)
                   Prec 97.656% (97.656%)
Epoch: [97] [100/391]
                                                 Data 0.002 (0.004)
                        Time 0.056 (0.057)
                                                                          Loss
0.1314 (0.0485)
                   Prec 96.094% (98.306%)
Epoch: [97] [200/391]
                        Time 0.056 (0.057)
                                                 Data 0.002 (0.003)
                                                                          Loss
                   Prec 96.875% (98.286%)
0.0576 (0.0485)
Epoch: [97] [300/391]
                        Time 0.055 (0.056)
                                                 Data 0.001 (0.002)
                                                                          Loss
0.1235 (0.0488)
                   Prec 96.875% (98.292%)
Validation starts
Test: [0/79]
                Time 0.206 (0.206)
                                         Loss 0.1146 (0.1146)
                                                                  Prec 96.094%
(96.094\%)
* Prec 90.970%
best acc: 90.980000
Epoch: [98] [0/391]
                                                 Data 0.216 (0.216)
                        Time 0.265 (0.265)
                                                                          Loss
0.0129 (0.0129)
                   Prec 99.219% (99.219%)
Epoch: [98] [100/391]
                        Time 0.056 (0.058)
                                                 Data 0.002 (0.004)
                                                                          Loss
0.1009 (0.0455)
                   Prec 96.094% (98.291%)
Epoch: [98] [200/391]
                        Time 0.055 (0.057)
                                                 Data 0.002 (0.003)
                                                                          Loss
0.0824 (0.0477)
                   Prec 97.656% (98.286%)
Epoch: [98] [300/391]
                        Time 0.055 (0.056)
                                                 Data 0.001 (0.002)
                                                                          Loss
0.0261 (0.0495)
                   Prec 99.219% (98.219%)
Validation starts
Test: [0/79]
                Time 0.216 (0.216)
                                         Loss 0.2437 (0.2437)
                                                                  Prec 93.750%
(93.750\%)
* Prec 89.780%
best acc: 90.980000
Epoch: [99] [0/391]
                                                 Data 0.208 (0.208)
                        Time 0.254 (0.254)
                                                                          Loss
0.1022 (0.1022)
                   Prec 97.656% (97.656%)
Epoch: [99] [100/391]
                        Time 0.053 (0.057)
                                                 Data 0.001 (0.004)
                                                                          Loss
0.0418 (0.0456)
                   Prec 98.438% (98.445%)
Epoch: [99] [200/391]
                        Time 0.055 (0.057)
                                                 Data 0.002 (0.003)
                                                                          Loss
0.0348 (0.0441)
                   Prec 98.438% (98.461%)
Epoch: [99] [300/391]
                        Time 0.057 (0.056)
                                                 Data 0.001 (0.002)
                                                                          Loss
0.0634 (0.0464)
                   Prec 97.656% (98.370%)
Validation starts
Test: [0/79]
                Time 0.224 (0.224)
                                         Loss 0.2511 (0.2511)
                                                                  Prec 94.531%
(94.531\%)
 * Prec 89.670%
best acc: 90.980000
```

```
[9]: copied_model.cuda()
    copied_model.eval()

    test_loss = 0
    correct = 0

with torch.no_grad():
    for data, target in testloader:
        data, target = data.to(device), target.to(device) # loading to GPU
        output = copied_model(data) # use copied_model instead of model
        pred = output.argmax(dim=1, keepdim=True)
        correct += pred.eq(target.view_as(pred)).sum().item()

test_loss /= len(testloader.dataset)

print('\nTest set: Accuracy: {}/{} ({:.0f}%)\n'.format(
        correct, len(testloader.dataset)))
```

Test set: Accuracy: 8967/10000 (90%)

0.2 Structured Pruning

```
import copy
import torch.nn.utils.prune as prune

# Assuming QuantConv2d is your custom class inheriting from torch.nn.Module
# Make sure to import it

# Create a deep copy of the model
copied_model = copy.deepcopy(model)

# Iterate over copied_model modules and prune QuantConv2d layers
for name, module in copied_model.named_modules():
    if isinstance(module, QuantConv2d):
        prune.ln_structured(module, name='weight', amount=0.80, dim=0, n=1)
```

```
[13]: copied_model.cuda()
    copied_model.eval()

    test_loss = 0
    correct = 0

with torch.no_grad():
    for data, target in testloader:
```

```
data, target = data.to(device), target.to(device) # loading to GPU
  output = copied_model(data) # use copied_model instead of model
  pred = output.argmax(dim=1, keepdim=True)
  correct += pred.eq(target.view_as(pred)).sum().item()

test_loss /= len(testloader.dataset)

print('\nTest set: Accuracy: {}/{} ({:.0f}%)\n'.format(
  correct, len(testloader.dataset),
  100. * correct / len(testloader.dataset)))
```

Test set: Accuracy: 1000/10000 (10%)

```
[14]: # Further fine-tuning, but you can stop here
      lr = 4e-2 #hyperparameter 2
      weight_decay = 1e-4 #hyperparameter 3
      epochs = 100 #hyperparameter 4
      best_prec = 0 #hyperparameter 5
      #model = nn.DataParallel(model).cuda()
      copied_model.cuda()
      criterion = nn.CrossEntropyLoss().cuda()
      optimizer = torch.optim.SGD(copied_model.parameters(), lr=lr, momentum=0.9, __
       →weight_decay=weight_decay)
      \#cudnn.benchmark = True
      if not os.path.exists('result'):
         os.makedirs('result')
      fdir = 'result/'+str(model_name)+'_finetuning'
      if not os.path.exists(fdir):
          os.makedirs(fdir)
      for epoch in range(0, epochs):
          adjust_learning_rate(optimizer, epoch)
          train(trainloader, copied_model, criterion, optimizer, epoch)
          # evaluate on test set
          print("Validation starts")
          prec = validate(testloader, copied_model, criterion)
          # remember best precision and save checkpoint
          is_best = prec > best_prec
          best_prec = max(prec,best_prec)
```

```
print('best acc: {:1f}'.format(best_prec))
    save_checkpoint({
         'epoch': epoch + 1,
         'state_dict': copied_model.state_dict(),
         'best_prec': best_prec,
         'optimizer': optimizer.state_dict(),
    }, is_best, fdir)
Epoch: [0] [0/391]
                        Time 0.350 (0.350)
                                                 Data 0.280 (0.280)
                                                                          Loss
3.0467 (3.0467)
                   Prec 9.375% (9.375%)
Epoch: [0] [100/391]
                                                 Data 0.002 (0.005)
                        Time 0.052 (0.056)
                                                                          Loss
1.7066 (2.0388)
                   Prec 33.594% (23.120%)
                                                 Data 0.001 (0.003)
Epoch: [0] [200/391]
                        Time 0.052 (0.054)
                                                                          Loss
1.4802 (1.8365)
                   Prec 45.312% (30.683%)
Epoch: [0] [300/391]
                        Time 0.053 (0.054)
                                                 Data 0.001 (0.003)
                                                                          Loss
1.2373 (1.7032)
                   Prec 54.688% (35.976%)
Validation starts
Test: [0/79]
                Time 0.280 (0.280)
                                         Loss 1.3093 (1.3093)
                                                                  Prec 48.438%
(48.438\%)
* Prec 51.450%
best acc: 51.450000
Epoch: [1] [0/391]
                        Time 0.336 (0.336)
                                                 Data 0.288 (0.288)
                                                                          Loss
1.1300 (1.1300)
                   Prec 64.844% (64.844%)
Epoch: [1] [100/391]
                        Time 0.053 (0.056)
                                                 Data 0.002 (0.005)
                                                                          Loss
1.2289 (1.1727)
                   Prec 55.469% (57.905%)
Epoch: [1] [200/391]
                        Time 0.053 (0.054)
                                                 Data 0.001 (0.003)
                                                                          Loss
0.9933 (1.1302)
                   Prec 63.281% (59.581%)
                                                 Data 0.001 (0.003)
Epoch: [1] [300/391]
                        Time 0.052 (0.054)
                                                                          Loss
1.1278 (1.1002)
                   Prec 64.062% (60.914%)
Validation starts
Test: [0/79]
                Time 0.237 (0.237)
                                         Loss 1.0333 (1.0333)
                                                                  Prec 62.500%
(62.500\%)
 * Prec 61.290%
best acc: 61.290000
Epoch: [2] [0/391]
                        Time 0.303 (0.303)
                                                 Data 0.257 (0.257)
                                                                          Loss
0.9280 (0.9280)
                   Prec 62.500% (62.500%)
Epoch: [2] [100/391]
                         Time 0.051 (0.055)
                                                 Data 0.002 (0.004)
                                                                          Loss
0.8925 (0.9442)
                   Prec 68.750% (66.901%)
Epoch: [2] [200/391]
                        Time 0.053 (0.054)
                                                 Data 0.002 (0.003)
                                                                          Loss
0.9204 (0.9458)
                   Prec 68.750% (66.950%)
Epoch: [2] [300/391]
                        Time 0.052 (0.054)
                                                 Data 0.002 (0.002)
                                                                          Loss
0.9245 (0.9269)
                   Prec 74.219% (67.525%)
Validation starts
Test: [0/79]
                                         Loss 0.9556 (0.9556)
                Time 0.238 (0.238)
                                                                  Prec 64.844%
(64.844\%)
 * Prec 65.060%
best acc: 65.060000
```

Epoch: [3][0/391]	Time 0.261 (0.261)	Data 0.213	(0.213) Loss
0.7098 (0.7098) Prec			
Epoch: [3][100/391]		Data 0.001	(0.004) Loss
0.8707 (0.8433) Prec	70.312% (70.575%)		
Epoch: [3][200/391]	Time 0.053 (0.054)	Data 0.001	(0.003) Loss
0.9427 (0.8588) Prec	65.625% (70.103%)		
Epoch: [3][300/391]	Time 0.053 (0.054)	Data 0.001	(0.002) Loss
0.9000 (0.8506) Prec	63.281% (70.110%)		
Validation starts			
Test: [0/79] Time 0.3	212 (0.212) Loss	0.9269 (0.9269	Prec 67.188%
(67.188%)			
* Prec 69.120%			
best acc: 69.120000			
Epoch: [4][0/391]	Time 0.324 (0.324)	Data 0.275	(0.275) Loss
0.6939 (0.6939) Prec	73.438% (73.438%)		
Epoch: [4][100/391]	Time 0.051 (0.056)	Data 0.001	(0.004) Loss
0.7820 (0.7804) Prec	70.312% (72.710%)		
Epoch: [4][200/391]	Time 0.053 (0.054)	Data 0.001	(0.003) Loss
0.8173 (0.7951) Prec	71.875% (72.217%)		
Epoch: [4][300/391]	Time 0.055 (0.054)	Data 0.002	(0.002) Loss
0.9195 (0.7949) Prec	71.094% (72.329%)		
Validation starts			
Test: [0/79] Time 0.3	226 (0.226) Loss	0.7594 (0.7594	1) Prec 75.781%
(75.781%)			
* Prec 68.450%			
best acc: 69.120000			
Epoch: [5][0/391]		Data 0.261	(0.261) Loss
0.6931 (0.6931) Prec			
Epoch: [5][100/391]	Time 0.050 (0.055)	Data 0.001	(0.004) Loss
0.7639 (0.7782) Prec			()
Epoch: [5] [200/391]		Data 0.002	(0.003) Loss
0.6663 (0.7682) Prec			(0.000)
Epoch: [5] [300/391]		Data 0.002	(0.002) Loss
0.6518 (0.7607) Prec	77.344% (73.528%)		
Validation starts	- (- ((-)		
Test: [0/79] Time 0.5	216 (0.216) Loss	0.8061 (0.8061	1) Prec 72.656%
(72.656%)			
* Prec 72.340%			
best acc: 72.340000	m: 0.057 (0.057)	D . 0.005	(0.005)
Epoch: [6] [0/391]	Time 0.257 (0.257)	Data 0.205	(0.205) Loss
0.6007 (0.6007) Prec		D . 0.000	(0.004)
Epoch: [6] [100/391]		Data 0.002	(0.004) Loss
0.6298 (0.7335) Prec		D . 0.004	(0.000)
Epoch: [6] [200/391]	Time 0.053 (0.054)	Data 0.001	(0.003) Loss
0.6825 (0.7332) Prec		D-+c 0 000	(0,000)
Epoch: [6] [300/391]	Time 0.053 (0.054)	pata 0.002	(0.002) Loss
			,
Validation starts	74.219% (74.738%)		

Test: [0/79] Time 0.20 (74.219%)	69 (0.269) Loss	0.7493 (0.7493)) Prec 74.219%
* Prec 70.670%			
best acc: 72.340000			
Epoch: [7][0/391]	Time 0.335 (0.335)	Data 0.287	(0.287) Loss
0.6893 (0.6893) Prec	77.344% (77.344%)		
Epoch: [7][100/391]		Data 0.001	(0.004) Loss
0.7837 (0.7131) Prec	74.219% (74.938%)		
Epoch: [7][200/391]	Time 0.052 (0.054)	Data 0.002	(0.003) Loss
0.6857 (0.7093) Prec	78.125% (74.957%)		
Epoch: [7][300/391]	Time 0.054 (0.054)	Data 0.001	(0.003) Loss
0.8098 (0.7100) Prec	74.219% (75.106%)		
Validation starts			
Test: [0/79] Time 0.23	34 (0.234) Loss	0.7418 (0.7418)) Prec 74.219%
(74.219%)			
* Prec 75.330%			
best acc: 75.330000			
Epoch: [8][0/391]	Time 0.283 (0.283)	Data 0.239	(0.239) Loss
0.6022 (0.6022) Prec	78.125% (78.125%)		
Epoch: [8][100/391]	Time 0.056 (0.055)	Data 0.001	(0.004) Loss
0.7458 (0.6789) Prec			
Epoch: [8][200/391]	Time 0.052 (0.054)	Data 0.002	(0.003) Loss
0.7993 (0.6824) Prec	67.188% (76.248%)		
Epoch: [8][300/391]	Time 0.053 (0.054)	Data 0.001	(0.002) Loss
0.5439 (0.6876) Prec	84.375% (76.098%)		
Validation starts			
Test: [0/79] Time 0.2	29 (0.229) Loss	0.8365 (0.8365)) Prec 74.219%
(74.219%)			
* Prec 68.400%			
best acc: 75.330000			
Epoch: [9][0/391]	Time 0.284 (0.284)	Data 0.236	(0.236) Loss
0.7976 (0.7976) Prec	74.219% (74.219%)		
Epoch: [9][100/391]	Time 0.052 (0.055)	Data 0.002	(0.004) Loss
0.6648 (0.6788) Prec	78.906% (76.346%)		
Epoch: [9][200/391]	Time 0.055 (0.054)	Data 0.003	(0.003) Loss
0.7216 (0.6762) Prec	76.562% (76.364%)		
Epoch: [9][300/391]	Time 0.055 (0.054)	Data 0.001	(0.003) Loss
0.7439 (0.6704) Prec	70.312% (76.596%)		
Validation starts			
Test: [0/79] Time 0.2	50 (0.250) Loss	0.5589 (0.5589)) Prec 81.250%
(81.250%)			
* Prec 76.210%			
best acc: 76.210000			
Epoch: [10][0/391]	Time 0.288 (0.288)	Data 0.243	(0.243) Loss
0.6631 (0.6631) Prec	77.344% (77.344%)		
Epoch: [10][100/391]	Time 0.051 (0.056)	Data 0.002	(0.004) Loss
0.7515 (0.6475) Prec	72.656% (77.522%)		
Frach: [10][200/301]	Time 0.054 (0.056)	Data 0.002	(0.003) Loss

0.7122 (0.6584) Prec 75.781% (77.099%)	
Epoch: [10][300/391] Time 0.064 (0.055)	Data 0.004 (0.003) Loss
0.6474 (0.6571) Prec 78.906% (77.206%)	
Validation starts	
Test: [0/79] Time 0.219 (0.219) Loss	0.6524 (0.6524) Prec 75.000%
(75.000%)	
* Prec 73.630%	
best acc: 76.210000	
Epoch: [11] [0/391] Time 0.284 (0.284)	Data 0.236 (0.236) Loss
0.6646 (0.6646) Prec 79.688% (79.688%)	
Epoch: [11][100/391] Time 0.053 (0.057)	Data 0.002 (0.004) Loss
0.6214 (0.6363) Prec 77.344% (78.133%)	
Epoch: [11][200/391] Time 0.053 (0.055)	Data 0.001 (0.003) Loss
0.6424 (0.6394) Prec 80.469% (78.082%)	
	Data 0.002 (0.003) Loss
0.6520 (0.6387) Prec 75.000% (78.021%)	
Validation starts	
Test: [0/79] Time 0.230 (0.230) Loss	0.6409 (0.6409) Prec 78.125%
(78.125%)	
* Prec 76.000%	
best acc: 76.210000	
Epoch: [12][0/391] Time 0.304 (0.304)	Data 0.257 (0.257) Loss
0.6947 (0.6947) Prec 76.562% (76.562%)	· · ·
Epoch: [12][100/391] Time 0.053 (0.056)	Data 0.001 (0.004) Loss
0.5692 (0.6094) Prec 78.125% (78.829%)	•
Epoch: [12][200/391] Time 0.050 (0.054)	Data 0.001 (0.003) Loss
0.5992 (0.6303) Prec 79.688% (78.090%)	,
Epoch: [12][300/391] Time 0.051 (0.054)	Data 0.002 (0.003) Loss
0.6057 (0.6295) Prec 79.688% (78.216%)	,
Validation starts	
Test: [0/79] Time 0.274 (0.274) Loss	0.6036 (0.6036) Prec 81.250%
(81.250%)	
* Prec 75.490%	
best acc: 76.210000	
Epoch: [13][0/391] Time 0.261 (0.261)	Data 0.220 (0.220) Loss
0.5566 (0.5566) Prec 80.469% (80.469%)	
Epoch: [13][100/391] Time 0.051 (0.055)	Data 0.001 (0.004) Loss
0.7608 (0.6215) Prec 72.656% (78.489%)	•
Epoch: [13][200/391] Time 0.052 (0.054)	Data 0.002 (0.003) Loss
0.5733 (0.6205) Prec 85.938% (78.529%)	
Epoch: [13][300/391] Time 0.055 (0.054)	Data 0.001 (0.002) Loss
0.8632 (0.6207) Prec 67.969% (78.631%)	•
Validation starts	
Test: [0/79] Time 0.255 (0.255) Loss	0.6387 (0.6387) Prec 78.125%
(78.125%)	=======================================
* Prec 76.530%	
best acc: 76.530000	
Epoch: [14] [0/391] Time 0.284 (0.284)	Data 0.234 (0.234) Loss
• • • • • • • • • • • • • • • • • • •	, ,

0 6106 (0 6106) Pro-	70 105% (70 105%)				
0.6106 (0.6106) Prec			0 000	(0.004)	Togg
Epoch: [14] [100/391] 0.4548 (0.6144) Prec			0.002	(0.004)	Loss
			0 000	(0.003)	Loss
0.6820 (0.6124) Prec			0.002	(0.003)	LOSS
			0 000	(0, 000)	T
Epoch: [14] [300/391]			0.002	(0.002)	Loss
0.8204 (0.6137) Prec	73.438% (78.857%))			
Validation starts	240 (0 040)	0 4007	(0. 0005		70 0001/
Test: [0/79] Time 0.2	219 (0.219) I	loss 0.6207	(0.6207) Prec	79.688%
(79.688%)					
* Prec 76.670%					
best acc: 76.670000					
Epoch: [15][0/391]			0.231	(0.231)	Loss
0.5538 (0.5538) Prec					
Epoch: [15][100/391]			0.002	(0.004)	Loss
0.5986 (0.6030) Prec	75.781% (78.960%)				
Epoch: [15][200/391]	Time 0.051 (0.054	l) Data	0.001	(0.003)	Loss
0.5757 (0.5970) Prec	79.688% (79.291%))			
Epoch: [15][300/391]	Time 0.052 (0.054	l) Data	0.002	(0.002)	Loss
0.6022 (0.5993) Prec	83.594% (79.233%))			
Validation starts					
Test: [0/79] Time 0.2	236 (0.236) I	Loss 0.6909	(0.6909	Prec	77.344%
(77.344%)					
* Prec 77.390%					
best acc: 77.390000					
Epoch: [16][0/391]	Time 0.331 (0.331	l) Data	0.279	(0.279)	Loss
0.5256 (0.5256) Prec					
Epoch: [16][100/391]	Time 0.053 (0.056	3) Data	0.002	(0.004)	Loss
0.6472 (0.5943) Prec					
Epoch: [16] [200/391]			0.002	(0.003)	Loss
0.4392 (0.5925) Prec				, , , , , ,	
Epoch: [16] [300/391]			0.002	(0.003)	Loss
0.7188 (0.5947) Prec				(::::,	
Validation starts					
Test: [0/79] Time 0.2	223 (0.223) I	099 0 6341	(0.6341) Prec	76 562%
(76.562%)	220 (0.220)	0.0011	(0.0011	1100	10.002/
* Prec 75.000%					
best acc: 77.390000					
Epoch: [17] [0/391]	Time 0 207 (0 207	7) Data	0 2/18	(0.248)	Loss
0.5791 (0.5791) Prec			0.240	(0.240)	LUSS
Epoch: [17] [100/391]			0 000	(0.004)	Loss
_			0.002	(0.004)	LUSS
0.5354 (0.5922) Prec			0 001	(0, 002)	T
Epoch: [17] [200/391]			0.001	(0.003)	Loss
	87.500% (79.481%)		0 004	(0,000)	т.
Epoch: [17] [300/391]			0.001	(0.002)	Loss
0.5617 (0.5863) Prec	80.469% (79.675%))			
Validation starts			/o ===		70 65 50'
Test: [0/79] Time 0.2	256 (0.256) I	loss 0.5974	(0.5974)	Prec	78.906%

(78.906%)	
* Prec 75.660%	
best acc: 77.390000	D
Epoch: [18] [0/391] Time 0.322 (0.322)	Data 0.273 (0.273) Loss
0.6891 (0.6891) Prec 74.219% (74.219%)	D
Epoch: [18] [100/391] Time 0.049 (0.055)	Data 0.002 (0.004) Loss
0.6015 (0.5804) Prec 82.812% (79.819%)	D
Epoch: [18] [200/391] Time 0.053 (0.054)	Data 0.001 (0.003) Loss
0.4835 (0.5828) Prec 85.938% (79.983%)	D
Epoch: [18] [300/391] Time 0.053 (0.054)	Data 0.001 (0.002) Loss
0.5476 (0.5840) Prec 82.031% (79.934%)	
Validation starts	0 5000 (0 5000) B 04 0FFM
Test: [0/79] Time 0.262 (0.262) Loss	0.5302 (0.5302) Prec 84.375%
(84.375%)	
* Prec 78.510%	
best acc: 78.510000	D . 0.000 (0.000)
Epoch: [19] [0/391] Time 0.313 (0.313)	Data 0.262 (0.262) Loss
0.5508 (0.5508) Prec 82.812% (82.812%)	D
Epoch: [19][100/391] Time 0.054 (0.056)	Data 0.002 (0.004) Loss
0.5934 (0.5725) Prec 77.344% (80.322%)	D
Epoch: [19] [200/391] Time 0.051 (0.054)	Data 0.002 (0.003) Loss
0.5415 (0.5757) Prec 80.469% (80.177%)	D
Epoch: [19][300/391] Time 0.053 (0.054)	Data 0.002 (0.002) Loss
0.5915 (0.5791) Prec 80.469% (80.046%)	
Validation starts	0 FF00 (0 FF00) B 00 400W
Test: [0/79] Time 0.243 (0.243) Loss	0.5596 (0.5596) Prec 80.469%
(80.469%)	
D DD 0001/	
* Prec 77.880%	
best acc: 78.510000	D 0.050 (0.050)
best acc: 78.510000 Epoch: [20][0/391] Time 0.301 (0.301)	Data 0.252 (0.252) Loss
best acc: 78.510000 Epoch: [20][0/391] Time 0.301 (0.301) 0.5839 (0.5839) Prec 77.344% (77.344%)	
best acc: 78.510000 Epoch: [20][0/391] Time 0.301 (0.301) 0.5839 (0.5839) Prec 77.344% (77.344%) Epoch: [20][100/391] Time 0.053 (0.055)	Data 0.252 (0.252) Loss Data 0.001 (0.004) Loss
best acc: 78.510000 Epoch: [20] [0/391] Time 0.301 (0.301) 0.5839 (0.5839) Prec 77.344% (77.344%) Epoch: [20] [100/391] Time 0.053 (0.055) 0.6208 (0.5641) Prec 78.906% (80.709%)	Data 0.001 (0.004) Loss
best acc: 78.510000 Epoch: [20][0/391] Time 0.301 (0.301) 0.5839 (0.5839) Prec 77.344% (77.344%) Epoch: [20][100/391] Time 0.053 (0.055) 0.6208 (0.5641) Prec 78.906% (80.709%) Epoch: [20][200/391] Time 0.053 (0.054)	Data 0.001 (0.004) Loss
best acc: 78.510000 Epoch: [20] [0/391] Time 0.301 (0.301) 0.5839 (0.5839) Prec 77.344% (77.344%) Epoch: [20] [100/391] Time 0.053 (0.055) 0.6208 (0.5641) Prec 78.906% (80.709%) Epoch: [20] [200/391] Time 0.053 (0.054) 0.4327 (0.5639) Prec 85.156% (80.752%)	Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss
best acc: 78.510000 Epoch: [20][0/391] Time 0.301 (0.301) 0.5839 (0.5839) Prec 77.344% (77.344%) Epoch: [20][100/391] Time 0.053 (0.055) 0.6208 (0.5641) Prec 78.906% (80.709%) Epoch: [20][200/391] Time 0.053 (0.054) 0.4327 (0.5639) Prec 85.156% (80.752%) Epoch: [20][300/391] Time 0.052 (0.054)	Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss
best acc: 78.510000 Epoch: [20] [0/391] Time 0.301 (0.301) 0.5839 (0.5839) Prec 77.344% (77.344%) Epoch: [20] [100/391] Time 0.053 (0.055) 0.6208 (0.5641) Prec 78.906% (80.709%) Epoch: [20] [200/391] Time 0.053 (0.054) 0.4327 (0.5639) Prec 85.156% (80.752%) Epoch: [20] [300/391] Time 0.052 (0.054) 0.5029 (0.5694) Prec 83.594% (80.573%)	Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss
best acc: 78.510000 Epoch: [20] [0/391] Time 0.301 (0.301) 0.5839 (0.5839) Prec 77.344% (77.344%) Epoch: [20] [100/391] Time 0.053 (0.055) 0.6208 (0.5641) Prec 78.906% (80.709%) Epoch: [20] [200/391] Time 0.053 (0.054) 0.4327 (0.5639) Prec 85.156% (80.752%) Epoch: [20] [300/391] Time 0.052 (0.054) 0.5029 (0.5694) Prec 83.594% (80.573%) Validation starts	Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss Data 0.001 (0.002) Loss
best acc: 78.510000 Epoch: [20][0/391] Time 0.301 (0.301) 0.5839 (0.5839) Prec 77.344% (77.344%) Epoch: [20][100/391] Time 0.053 (0.055) 0.6208 (0.5641) Prec 78.906% (80.709%) Epoch: [20][200/391] Time 0.053 (0.054) 0.4327 (0.5639) Prec 85.156% (80.752%) Epoch: [20][300/391] Time 0.052 (0.054) 0.5029 (0.5694) Prec 83.594% (80.573%) Validation starts Test: [0/79] Time 0.225 (0.225) Loss	Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss Data 0.001 (0.002) Loss
best acc: 78.510000 Epoch: [20][0/391] Time 0.301 (0.301) 0.5839 (0.5839) Prec 77.344% (77.344%) Epoch: [20][100/391] Time 0.053 (0.055) 0.6208 (0.5641) Prec 78.906% (80.709%) Epoch: [20][200/391] Time 0.053 (0.054) 0.4327 (0.5639) Prec 85.156% (80.752%) Epoch: [20][300/391] Time 0.052 (0.054) 0.5029 (0.5694) Prec 83.594% (80.573%) Validation starts Test: [0/79] Time 0.225 (0.225) Loss (79.688%)	Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss Data 0.001 (0.002) Loss
best acc: 78.510000 Epoch: [20][0/391] Time 0.301 (0.301) 0.5839 (0.5839) Prec 77.344% (77.344%) Epoch: [20][100/391] Time 0.053 (0.055) 0.6208 (0.5641) Prec 78.906% (80.709%) Epoch: [20][200/391] Time 0.053 (0.054) 0.4327 (0.5639) Prec 85.156% (80.752%) Epoch: [20][300/391] Time 0.052 (0.054) 0.5029 (0.5694) Prec 83.594% (80.573%) Validation starts Test: [0/79] Time 0.225 (0.225) Loss (79.688%) * Prec 78.120%	Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss Data 0.001 (0.002) Loss
best acc: 78.510000 Epoch: [20][0/391] Time 0.301 (0.301) 0.5839 (0.5839) Prec 77.344% (77.344%) Epoch: [20][100/391] Time 0.053 (0.055) 0.6208 (0.5641) Prec 78.906% (80.709%) Epoch: [20][200/391] Time 0.053 (0.054) 0.4327 (0.5639) Prec 85.156% (80.752%) Epoch: [20][300/391] Time 0.052 (0.054) 0.5029 (0.5694) Prec 83.594% (80.573%) Validation starts Test: [0/79] Time 0.225 (0.225) Loss (79.688%) * Prec 78.120% best acc: 78.510000	Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss Data 0.001 (0.002) Loss 0.5766 (0.5766) Prec 79.688%
best acc: 78.510000 Epoch: [20][0/391] Time 0.301 (0.301) 0.5839 (0.5839) Prec 77.344% (77.344%) Epoch: [20][100/391] Time 0.053 (0.055) 0.6208 (0.5641) Prec 78.906% (80.709%) Epoch: [20][200/391] Time 0.053 (0.054) 0.4327 (0.5639) Prec 85.156% (80.752%) Epoch: [20][300/391] Time 0.052 (0.054) 0.5029 (0.5694) Prec 83.594% (80.573%) Validation starts Test: [0/79] Time 0.225 (0.225) Loss (79.688%) * Prec 78.120% best acc: 78.510000 Epoch: [21][0/391] Time 0.286 (0.286)	Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss Data 0.001 (0.002) Loss 0.5766 (0.5766) Prec 79.688%
best acc: 78.510000 Epoch: [20] [0/391] Time 0.301 (0.301) 0.5839 (0.5839) Prec 77.344% (77.344%) Epoch: [20] [100/391] Time 0.053 (0.055) 0.6208 (0.5641) Prec 78.906% (80.709%) Epoch: [20] [200/391] Time 0.053 (0.054) 0.4327 (0.5639) Prec 85.156% (80.752%) Epoch: [20] [300/391] Time 0.052 (0.054) 0.5029 (0.5694) Prec 83.594% (80.573%) Validation starts Test: [0/79] Time 0.225 (0.225) Loss (79.688%) * Prec 78.120% best acc: 78.510000 Epoch: [21] [0/391] Time 0.286 (0.286) 0.5464 (0.5464) Prec 80.469% (80.469%)	Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss Data 0.001 (0.002) Loss 0.5766 (0.5766) Prec 79.688% Data 0.237 (0.237) Loss
best acc: 78.510000 Epoch: [20][0/391] Time 0.301 (0.301) 0.5839 (0.5839) Prec 77.344% (77.344%) Epoch: [20][100/391] Time 0.053 (0.055) 0.6208 (0.5641) Prec 78.906% (80.709%) Epoch: [20][200/391] Time 0.053 (0.054) 0.4327 (0.5639) Prec 85.156% (80.752%) Epoch: [20][300/391] Time 0.052 (0.054) 0.5029 (0.5694) Prec 83.594% (80.573%) Validation starts Test: [0/79] Time 0.225 (0.225) Loss (79.688%) * Prec 78.120% best acc: 78.510000 Epoch: [21][0/391] Time 0.286 (0.286) 0.5464 (0.5464) Prec 80.469% (80.469%) Epoch: [21][100/391] Time 0.053 (0.055)	Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss Data 0.001 (0.002) Loss 0.5766 (0.5766) Prec 79.688% Data 0.237 (0.237) Loss
best acc: 78.510000 Epoch: [20][0/391] Time 0.301 (0.301) 0.5839 (0.5839) Prec 77.344% (77.344%) Epoch: [20][100/391] Time 0.053 (0.055) 0.6208 (0.5641) Prec 78.906% (80.709%) Epoch: [20][200/391] Time 0.053 (0.054) 0.4327 (0.5639) Prec 85.156% (80.752%) Epoch: [20][300/391] Time 0.052 (0.054) 0.5029 (0.5694) Prec 83.594% (80.573%) Validation starts Test: [0/79] Time 0.225 (0.225) Loss (79.688%) * Prec 78.120% best acc: 78.510000 Epoch: [21][0/391] Time 0.286 (0.286) 0.5464 (0.5464) Prec 80.469% (80.469%) Epoch: [21][100/391] Time 0.053 (0.055) 0.4693 (0.5572) Prec 85.156% (80.856%)	Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss Data 0.001 (0.002) Loss 0.5766 (0.5766) Prec 79.688% Data 0.237 (0.237) Loss Data 0.002 (0.004) Loss
best acc: 78.510000 Epoch: [20][0/391] Time 0.301 (0.301) 0.5839 (0.5839) Prec 77.344% (77.344%) Epoch: [20][100/391] Time 0.053 (0.055) 0.6208 (0.5641) Prec 78.906% (80.709%) Epoch: [20][200/391] Time 0.053 (0.054) 0.4327 (0.5639) Prec 85.156% (80.752%) Epoch: [20][300/391] Time 0.052 (0.054) 0.5029 (0.5694) Prec 83.594% (80.573%) Validation starts Test: [0/79] Time 0.225 (0.225) Loss (79.688%) * Prec 78.120% best acc: 78.510000 Epoch: [21][0/391] Time 0.286 (0.286) 0.5464 (0.5464) Prec 80.469% (80.469%) Epoch: [21][100/391] Time 0.053 (0.055)	Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss Data 0.001 (0.002) Loss 0.5766 (0.5766) Prec 79.688% Data 0.237 (0.237) Loss Data 0.002 (0.004) Loss

Epoch: [21][300/391] Time 0.053 (0.054) 0.6519 (0.5652) Prec 75.000% (80.484%)	Data 0.002 (0.002) Los	s
Validation starts Test: [0/79] Time 0.211 (0.211) Loss (83.594%) * Prec 79.210%	s 0.4880 (0.4880) Prec 83.594	%
best acc: 79.210000		
Epoch: [22][0/391] Time 0.292 (0.292)	Data 0.242 (0.242) Los	s
0.8409 (0.8409) Prec 69.531% (69.531%)		
Epoch: [22] [100/391] Time 0.054 (0.055)	Data 0.001 (0.004) Los	Q
0.4955 (0.5613) Prec 82.031% (80.786%)	Data 0.001 (0.001) LOS	D
	Data 0.001 (0.003) Los	_
Epoch: [22] [200/391] Time 0.056 (0.054)	Data 0.001 (0.003) Los	S
0.5052 (0.5624) Prec 76.562% (80.760%)	D . 0.004 (0.000) I	
Epoch: [22] [300/391] Time 0.053 (0.054)	Data 0.001 (0.002) Los	S
0.5712 (0.5635) Prec 79.688% (80.721%)		
Validation starts		
Test: [0/79] Time 0.219 (0.219) Loss (79.688%)	s 0.5925 (0.5925) Prec 79.688	%
* Prec 78.150%		
best acc: 79.210000		
Epoch: [23][0/391] Time 0.339 (0.339)	Data 0.291 (0.291) Los	s
0.5770 (0.5770) Prec 78.906% (78.906%)		
Epoch: [23] [100/391] Time 0.053 (0.056)	Data 0.001 (0.004) Los	S
0.5058 (0.5634) Prec 82.812% (80.507%)	2434 0.001 (0.001) 202	٥
Epoch: [23] [200/391] Time 0.053 (0.054)	Data 0.001 (0.003) Los	
-	Data 0.001 (0.003) LOS	۵
0.4500 (0.5620) Prec 85.156% (80.640%)	D + 0 000 (0 000) I	
Epoch: [23] [300/391] Time 0.059 (0.054)	Data 0.002 (0.003) Los	S
0.5115 (0.5560) Prec 83.594% (80.861%)		
Validation starts		
Test: [0/79] Time 0.262 (0.262) Loss	s 0.6762 (0.6762) Prec 74.219	%
(74.219%)		
* Prec 76.450%		
best acc: 79.210000		
Epoch: [24][0/391] Time 0.298 (0.298)	Data 0.249 (0.249) Los	S
0.6248 (0.6248) Prec 83.594% (83.594%)		
Epoch: [24][100/391] Time 0.053 (0.056)	Data 0.002 (0.004) Los	s
0.6286 (0.5535) Prec 81.250% (81.374%)		
Epoch: [24][200/391] Time 0.053 (0.054)	Data 0.001 (0.003) Los	s
0.4640 (0.5579) Prec 83.594% (80.892%)	200 0.001 (0.000)	-
	Data 0.001 (0.002) Los	
0.6208 (0.5555) Prec 79.688% (80.866%)	Data 0.001 (0.002) LOS	S
Validation starts	0.5004 (0.5004)	.07
Test: [0/79] Time 0.213 (0.213) Loss	s 0.5064 (0.5064) Prec 85.156	%
(85.156%)		
* Prec 79.630%		
best acc: 79.630000		
Epoch: [25] [0/391] Time 0.291 (0.291)	Data 0.250 (0.250) Los	S
0.5956 (0.5956) Prec 79.688% (79.688%)		

Epoch: [25][100/391] Time 0.052 (0.055)	Data 0.001 (0.004) Loss
0.6579 (0.5445) Prec 77.344% (81.010%) Epoch: [25][200/391] Time 0.059 (0.054)	Data 0.002 (0.003) Loss
0.5709 (0.5433) Prec 78.125% (81.083%) Epoch: [25] [300/391] Time 0.053 (0.054) 0.5158 (0.5480) Prec 85.156% (81.022%)	Data 0.001 (0.002) Loss
Validation starts Test: [0/79] Time 0.225 (0.225) Loss (86.719%)	s 0.4332 (0.4332) Prec 86.719%
* Prec 80.420%	
best acc: 80.420000	
Epoch: [26][0/391] Time 0.305 (0.305)	Data 0.256 (0.256) Loss
0.4881 (0.4881) Prec 85.156% (85.156%)	
Epoch: [26][100/391] Time 0.052 (0.055)	Data 0.002 (0.004) Loss
0.4962 (0.5471) Prec 81.250% (81.250%)	
Epoch: [26][200/391] Time 0.053 (0.054)	Data 0.002 (0.003) Loss
0.5406 (0.5464) Prec 78.906% (81.374%)	
Epoch: [26][300/391] Time 0.055 (0.054)	Data 0.002 (0.003) Loss
0.6069 (0.5470) Prec 78.125% (81.247%)	
Validation starts	
Test: [0/79] Time 0.224 (0.224) Loss	s 0.5654 (0.5654) Prec 78.125%
(78.125%)	
* Prec 76.410%	
best acc: 80.420000	
Epoch: [27] [0/391] Time 0.236 (0.236)	Data 0.190 (0.190) Loss
0.4356 (0.4356) Prec 82.812% (82.812%)	
Epoch: [27][100/391] Time 0.052 (0.055)	Data 0.001 (0.003) Loss
0.4986 (0.5344) Prec 85.938% (81.637%)	
Epoch: [27][200/391] Time 0.055 (0.054)	Data 0.002 (0.003) Loss
0.5710 (0.5396) Prec 81.250% (81.635%)	
Epoch: [27] [300/391] Time 0.053 (0.054)	Data 0.001 (0.002) Loss
0.5130 (0.5358) Prec 85.156% (81.598%)	
Validation starts	
Test: [0/79] Time 0.247 (0.247) Loss	s 0.6430 (0.6430) Prec 81.250%
(81.250%)	
* Prec 77.580%	
best acc: 80.420000	
Epoch: [28] [0/391] Time 0.311 (0.311)	Data 0.263 (0.263) Loss
0.5876 (0.5876) Prec 78.906% (78.906%)	
Epoch: [28][100/391] Time 0.053 (0.056)	Data 0.002 (0.004) Loss
0.6481 (0.5567) Prec 72.656% (80.987%)	
Epoch: [28] [200/391] Time 0.051 (0.054)	Data 0.002 (0.003) Loss
0.5053 (0.5514) Prec 81.250% (80.997%)	
Epoch: [28] [300/391] Time 0.054 (0.054)	Data 0.002 (0.002) Loss
0.5334 (0.5479) Prec 79.688% (81.094%)	
Validation starts	
Test: [0/79] Time 0.225 (0.225) Loss	s 0.5459 (0.5459) Prec 84.375%
(84.375%)	

* Prec 79.350%		
best acc: 80.420000		
Epoch: [29] [0/391] Time 0.275 (0.275)	Data 0.228 (0.228) Loss	3
0.5168 (0.5168) Prec 79.688% (79.688%)		
Epoch: [29][100/391] Time 0.053 (0.055)	Data 0.002 (0.004) Loss	3
0.4606 (0.5299) Prec 83.594% (81.822%)	,	
Epoch: [29] [200/391] Time 0.051 (0.054)	Data 0.002 (0.003) Loss	3
0.6447 (0.5450) Prec 76.562% (81.351%)	2000 01002 (01000), 2022	
Epoch: [29] [300/391] Time 0.053 (0.054)	Data 0.002 (0.002) Loss	
0.5850 (0.5459) Prec 79.688% (81.276%)	2000 0.002 (0.002) 2000	•
Validation starts		
Test: [0/79] Time 0.248 (0.248) Loss	s 0 5818 (0 5818) Prec 80 469%	,
(80.469%)	5 0.0010 (0.0010) 1100 00.103/	,
* Prec 77.980%		
best acc: 80.420000		
Epoch: [30] [0/391] Time 0.279 (0.279)	Data 0.231 (0.231) Loss	
0.6382 (0.6382) Prec 78.906% (78.906%)	Data 0.201 (0.201) LOSS	,
Epoch: [30] [100/391] Time 0.051 (0.055)	Data 0.002 (0.004) Loss	,
0.5456 (0.5375) Prec 81.250% (81.436%)	Data 0.002 (0.004) Loss	,
Epoch: [30] [200/391] Time 0.051 (0.054)	Data 0.002 (0.003) Loss	,
0.4823 (0.5370) Prec 85.156% (81.542%)	Data 0.002 (0.003) Loss	,
Epoch: [30] [300/391] Time 0.053 (0.054)	Data 0.001 (0.002) Loss	
0.5950 (0.5392) Prec 78.906% (81.543%)	Data 0.001 (0.002) Loss	į
Validation starts		
Validation Starts		
$T_{0.0} + \cdot [0.70]$ $T_{0.0} = 0.240 (0.240)$ $I_{0.0} = 0.240$	a 0 5000 (0 5000) Dros 90 021%	,
Test: [0/79] Time 0.240 (0.240) Loss	s 0.5202 (0.5202) Prec 82.031%	0
(82.031%)	s 0.5202 (0.5202) Prec 82.031%	6
(82.031%) * Prec 79.910%	s 0.5202 (0.5202) Prec 82.031%	/ °
(82.031%) * Prec 79.910% best acc: 80.420000		
(82.031%) * Prec 79.910% best acc: 80.420000 Epoch: [31] [0/391] Time 0.289 (0.289)		
(82.031%) * Prec 79.910% best acc: 80.420000 Epoch: [31] [0/391] Time 0.289 (0.289) 0.3906 (0.3906) Prec 89.062% (89.062%)	Data 0.242 (0.242) Loss	3
(82.031%) * Prec 79.910% best acc: 80.420000 Epoch: [31] [0/391] Time 0.289 (0.289) 0.3906 (0.3906) Prec 89.062% (89.062%) Epoch: [31] [100/391] Time 0.056 (0.055)		3
(82.031%) * Prec 79.910% best acc: 80.420000 Epoch: [31] [0/391] Time 0.289 (0.289) 0.3906 (0.3906) Prec 89.062% (89.062%) Epoch: [31] [100/391] Time 0.056 (0.055) 0.5093 (0.5319) Prec 81.250% (81.498%)	Data 0.242 (0.242) Loss Data 0.002 (0.004) Loss	5
(82.031%) * Prec 79.910% best acc: 80.420000 Epoch: [31] [0/391] Time 0.289 (0.289) 0.3906 (0.3906) Prec 89.062% (89.062%) Epoch: [31] [100/391] Time 0.056 (0.055) 0.5093 (0.5319) Prec 81.250% (81.498%) Epoch: [31] [200/391] Time 0.053 (0.054)	Data 0.242 (0.242) Loss Data 0.002 (0.004) Loss	5
(82.031%) * Prec 79.910% best acc: 80.420000 Epoch: [31] [0/391] Time 0.289 (0.289) 0.3906 (0.3906) Prec 89.062% (89.062%) Epoch: [31] [100/391] Time 0.056 (0.055) 0.5093 (0.5319) Prec 81.250% (81.498%) Epoch: [31] [200/391] Time 0.053 (0.054) 0.4603 (0.5288) Prec 85.938% (81.744%)	Data 0.242 (0.242) Loss Data 0.002 (0.004) Loss Data 0.001 (0.003) Loss	5
(82.031%) * Prec 79.910% best acc: 80.420000 Epoch: [31] [0/391] Time 0.289 (0.289) 0.3906 (0.3906) Prec 89.062% (89.062%) Epoch: [31] [100/391] Time 0.056 (0.055) 0.5093 (0.5319) Prec 81.250% (81.498%) Epoch: [31] [200/391] Time 0.053 (0.054) 0.4603 (0.5288) Prec 85.938% (81.744%) Epoch: [31] [300/391] Time 0.052 (0.054)	Data 0.242 (0.242) Loss Data 0.002 (0.004) Loss Data 0.001 (0.003) Loss	5
(82.031%) * Prec 79.910% best acc: 80.420000 Epoch: [31] [0/391] Time 0.289 (0.289) 0.3906 (0.3906) Prec 89.062% (89.062%) Epoch: [31] [100/391] Time 0.056 (0.055) 0.5093 (0.5319) Prec 81.250% (81.498%) Epoch: [31] [200/391] Time 0.053 (0.054) 0.4603 (0.5288) Prec 85.938% (81.744%) Epoch: [31] [300/391] Time 0.052 (0.054) 0.5266 (0.5289) Prec 80.469% (81.811%)	Data 0.242 (0.242) Loss Data 0.002 (0.004) Loss Data 0.001 (0.003) Loss	5
(82.031%) * Prec 79.910% best acc: 80.420000 Epoch: [31] [0/391] Time 0.289 (0.289) 0.3906 (0.3906) Prec 89.062% (89.062%) Epoch: [31] [100/391] Time 0.056 (0.055) 0.5093 (0.5319) Prec 81.250% (81.498%) Epoch: [31] [200/391] Time 0.053 (0.054) 0.4603 (0.5288) Prec 85.938% (81.744%) Epoch: [31] [300/391] Time 0.052 (0.054) 0.5266 (0.5289) Prec 80.469% (81.811%) Validation starts	Data 0.242 (0.242) Loss Data 0.002 (0.004) Loss Data 0.001 (0.003) Loss Data 0.002 (0.002) Loss	5
(82.031%) * Prec 79.910% best acc: 80.420000 Epoch: [31] [0/391] Time 0.289 (0.289) 0.3906 (0.3906) Prec 89.062% (89.062%) Epoch: [31] [100/391] Time 0.056 (0.055) 0.5093 (0.5319) Prec 81.250% (81.498%) Epoch: [31] [200/391] Time 0.053 (0.054) 0.4603 (0.5288) Prec 85.938% (81.744%) Epoch: [31] [300/391] Time 0.052 (0.054) 0.5266 (0.5289) Prec 80.469% (81.811%) Validation starts Test: [0/79] Time 0.226 (0.226) Loss	Data 0.242 (0.242) Loss Data 0.002 (0.004) Loss Data 0.001 (0.003) Loss Data 0.002 (0.002) Loss	5
(82.031%) * Prec 79.910% best acc: 80.420000 Epoch: [31] [0/391] Time 0.289 (0.289) 0.3906 (0.3906) Prec 89.062% (89.062%) Epoch: [31] [100/391] Time 0.056 (0.055) 0.5093 (0.5319) Prec 81.250% (81.498%) Epoch: [31] [200/391] Time 0.053 (0.054) 0.4603 (0.5288) Prec 85.938% (81.744%) Epoch: [31] [300/391] Time 0.052 (0.054) 0.5266 (0.5289) Prec 80.469% (81.811%) Validation starts Test: [0/79] Time 0.226 (0.226) Loss (79.688%)	Data 0.242 (0.242) Loss Data 0.002 (0.004) Loss Data 0.001 (0.003) Loss Data 0.002 (0.002) Loss	5
(82.031%) * Prec 79.910% best acc: 80.420000 Epoch: [31] [0/391] Time 0.289 (0.289) 0.3906 (0.3906) Prec 89.062% (89.062%) Epoch: [31] [100/391] Time 0.056 (0.055) 0.5093 (0.5319) Prec 81.250% (81.498%) Epoch: [31] [200/391] Time 0.053 (0.054) 0.4603 (0.5288) Prec 85.938% (81.744%) Epoch: [31] [300/391] Time 0.052 (0.054) 0.5266 (0.5289) Prec 80.469% (81.811%) Validation starts Test: [0/79] Time 0.226 (0.226) Loss (79.688%) * Prec 78.270%	Data 0.242 (0.242) Loss Data 0.002 (0.004) Loss Data 0.001 (0.003) Loss Data 0.002 (0.002) Loss	5
(82.031%) * Prec 79.910% best acc: 80.420000 Epoch: [31] [0/391] Time 0.289 (0.289) 0.3906 (0.3906) Prec 89.062% (89.062%) Epoch: [31] [100/391] Time 0.056 (0.055) 0.5093 (0.5319) Prec 81.250% (81.498%) Epoch: [31] [200/391] Time 0.053 (0.054) 0.4603 (0.5288) Prec 85.938% (81.744%) Epoch: [31] [300/391] Time 0.052 (0.054) 0.5266 (0.5289) Prec 80.469% (81.811%) Validation starts Test: [0/79] Time 0.226 (0.226) Loss (79.688%) * Prec 78.270% best acc: 80.420000	Data 0.242 (0.242) Loss Data 0.002 (0.004) Loss Data 0.001 (0.003) Loss Data 0.002 (0.002) Loss s 0.6509 (0.6509) Prec 79.688%	5 5 5 70
(82.031%) * Prec 79.910% best acc: 80.420000 Epoch: [31] [0/391] Time 0.289 (0.289) 0.3906 (0.3906) Prec 89.062% (89.062%) Epoch: [31] [100/391] Time 0.056 (0.055) 0.5093 (0.5319) Prec 81.250% (81.498%) Epoch: [31] [200/391] Time 0.053 (0.054) 0.4603 (0.5288) Prec 85.938% (81.744%) Epoch: [31] [300/391] Time 0.052 (0.054) 0.5266 (0.5289) Prec 80.469% (81.811%) Validation starts Test: [0/79] Time 0.226 (0.226) Loss (79.688%) * Prec 78.270% best acc: 80.420000 Epoch: [32] [0/391] Time 0.340 (0.340)	Data 0.242 (0.242) Loss Data 0.002 (0.004) Loss Data 0.001 (0.003) Loss Data 0.002 (0.002) Loss s 0.6509 (0.6509) Prec 79.688%	5 5 5 70
(82.031%) * Prec 79.910% best acc: 80.420000 Epoch: [31] [0/391] Time 0.289 (0.289) 0.3906 (0.3906) Prec 89.062% (89.062%) Epoch: [31] [100/391] Time 0.056 (0.055) 0.5093 (0.5319) Prec 81.250% (81.498%) Epoch: [31] [200/391] Time 0.053 (0.054) 0.4603 (0.5288) Prec 85.938% (81.744%) Epoch: [31] [300/391] Time 0.052 (0.054) 0.5266 (0.5289) Prec 80.469% (81.811%) Validation starts Test: [0/79] Time 0.226 (0.226) Loss (79.688%) * Prec 78.270% best acc: 80.420000 Epoch: [32] [0/391] Time 0.340 (0.340) 0.6087 (0.6087) Prec 78.906% (78.906%)	Data 0.242 (0.242) Loss Data 0.002 (0.004) Loss Data 0.001 (0.003) Loss Data 0.002 (0.002) Loss s 0.6509 (0.6509) Prec 79.688% Data 0.293 (0.293) Loss	
(82.031%) * Prec 79.910% best acc: 80.420000 Epoch: [31] [0/391] Time 0.289 (0.289) 0.3906 (0.3906) Prec 89.062% (89.062%) Epoch: [31] [100/391] Time 0.056 (0.055) 0.5093 (0.5319) Prec 81.250% (81.498%) Epoch: [31] [200/391] Time 0.053 (0.054) 0.4603 (0.5288) Prec 85.938% (81.744%) Epoch: [31] [300/391] Time 0.052 (0.054) 0.5266 (0.5289) Prec 80.469% (81.811%) Validation starts Test: [0/79] Time 0.226 (0.226) Loss (79.688%) * Prec 78.270% best acc: 80.420000 Epoch: [32] [0/391] Time 0.340 (0.340) 0.6087 (0.6087) Prec 78.906% (78.906%) Epoch: [32] [100/391] Time 0.053 (0.056)	Data 0.242 (0.242) Loss Data 0.002 (0.004) Loss Data 0.001 (0.003) Loss Data 0.002 (0.002) Loss s 0.6509 (0.6509) Prec 79.688% Data 0.293 (0.293) Loss	
(82.031%) * Prec 79.910% best acc: 80.420000 Epoch: [31] [0/391] Time 0.289 (0.289) 0.3906 (0.3906) Prec 89.062% (89.062%) Epoch: [31] [100/391] Time 0.056 (0.055) 0.5093 (0.5319) Prec 81.250% (81.498%) Epoch: [31] [200/391] Time 0.053 (0.054) 0.4603 (0.5288) Prec 85.938% (81.744%) Epoch: [31] [300/391] Time 0.052 (0.054) 0.5266 (0.5289) Prec 80.469% (81.811%) Validation starts Test: [0/79] Time 0.226 (0.226) Loss (79.688%) * Prec 78.270% best acc: 80.420000 Epoch: [32] [0/391] Time 0.340 (0.340) 0.6087 (0.6087) Prec 78.906% (78.906%) Epoch: [32] [100/391] Time 0.053 (0.056) 0.4733 (0.5219) Prec 85.156% (82.132%)	Data 0.242 (0.242) Loss Data 0.002 (0.004) Loss Data 0.001 (0.003) Loss Data 0.002 (0.002) Loss s 0.6509 (0.6509) Prec 79.688% Data 0.293 (0.293) Loss Data 0.001 (0.005) Loss	
* Prec 79.910% best acc: 80.420000 Epoch: [31] [0/391]	Data 0.242 (0.242) Loss Data 0.002 (0.004) Loss Data 0.001 (0.003) Loss Data 0.002 (0.002) Loss s 0.6509 (0.6509) Prec 79.688% Data 0.293 (0.293) Loss Data 0.001 (0.005) Loss	
(82.031%) * Prec 79.910% best acc: 80.420000 Epoch: [31] [0/391] Time 0.289 (0.289) 0.3906 (0.3906) Prec 89.062% (89.062%) Epoch: [31] [100/391] Time 0.056 (0.055) 0.5093 (0.5319) Prec 81.250% (81.498%) Epoch: [31] [200/391] Time 0.053 (0.054) 0.4603 (0.5288) Prec 85.938% (81.744%) Epoch: [31] [300/391] Time 0.052 (0.054) 0.5266 (0.5289) Prec 80.469% (81.811%) Validation starts Test: [0/79] Time 0.226 (0.226) Loss (79.688%) * Prec 78.270% best acc: 80.420000 Epoch: [32] [0/391] Time 0.340 (0.340) 0.6087 (0.6087) Prec 78.906% (78.906%) Epoch: [32] [100/391] Time 0.053 (0.056) 0.4733 (0.5219) Prec 85.156% (82.132%)	Data 0.242 (0.242) Loss Data 0.002 (0.004) Loss Data 0.001 (0.003) Loss Data 0.002 (0.002) Loss s 0.6509 (0.6509) Prec 79.688% Data 0.293 (0.293) Loss Data 0.001 (0.005) Loss Data 0.002 (0.003) Loss	

0.4000 (0.5044) D 04.0FFW (00.000W)	
0.4289 (0.5244) Prec 84.375% (82.099%)	
Validation starts	0 4505 (0 4505)
Test: [0/79] Time 0.223 (0.223) Loss	0.4565 (0.4565) Prec 85.938%
(85.938%)	
* Prec 79.960%	
best acc: 80.420000	
Epoch: [33] [0/391] Time 0.284 (0.284)	Data 0.235 (0.235) Loss
0.6371 (0.6371) Prec 78.125% (78.125%)	
Epoch: [33] [100/391] Time 0.056 (0.055)	Data 0.002 (0.004) Loss
0.5848 (0.5237) Prec 82.812% (81.381%)	
Epoch: [33] [200/391] Time 0.054 (0.054)	Data 0.003 (0.003) Loss
0.5316 (0.5312) Prec 83.594% (81.472%)	
Epoch: [33] [300/391] Time 0.053 (0.054)	Data 0.001 (0.002) Loss
0.5449 (0.5297) Prec 82.031% (81.546%)	
Validation starts	
Test: [0/79] Time 0.235 (0.235) Loss	0.5028 (0.5028) Prec 82.812%
(82.812%)	
* Prec 80.690%	
best acc: 80.690000	
Epoch: [34][0/391] Time 0.323 (0.323)	Data 0.272 (0.272) Loss
0.5314 (0.5314) Prec 83.594% (83.594%)	
Epoch: [34][100/391] Time 0.054 (0.056)	Data 0.002 (0.004) Loss
0.6813 (0.5272) Prec 82.031% (82.031%)	
Epoch: [34][200/391] Time 0.054 (0.054)	Data 0.001 (0.003) Loss
0.4174 (0.5231) Prec 87.500% (82.128%)	
Epoch: [34][300/391] Time 0.055 (0.054)	Data 0.001 (0.003) Loss
0.5612 (0.5223) Prec 81.250% (82.200%)	
Validation starts	
Test: [0/79] Time 0.260 (0.260) Loss	0.5666 (0.5666) Prec 80.469%
(80.469%)	
* Prec 79.490%	
best acc: 80.690000	
Epoch: [35][0/391] Time 0.274 (0.274)	Data 0.233 (0.233) Loss
0.4997 (0.4997) Prec 84.375% (84.375%)	
Epoch: [35][100/391] Time 0.052 (0.055)	Data 0.001 (0.004) Loss
0.4506 (0.5158) Prec 84.375% (82.132%)	,
Epoch: [35] [200/391] Time 0.058 (0.054)	Data 0.004 (0.003) Loss
0.6439 (0.5154) Prec 78.906% (82.179%)	2002 00001 (00000) 2002
Epoch: [35] [300/391] Time 0.051 (0.054)	Data 0.001 (0.002) Loss
0.5682 (0.5224) Prec 82.031% (81.977%)	2404 0.001 (0.002) 2005
Validation starts	
Test: [0/79] Time 0.256 (0.256) Loss	0 5517 (0 5517) Proc 77 3/1/9
(77.344%)	0.0017 (0.0017) Tiec 77.044%
* Prec 77.900%	
best acc: 80.690000	
Epoch: [36] [0/391] Time 0.262 (0.262)	Data 0.213 (0.213) Loss
0.4930 (0.4930) Prec 82.812% (82.812%)	Data 0.213 (0.213) LOSS
Epoch: [36] [100/391] Time 0.054 (0.055)	Data 0.001 (0.004) Loss
Epocii. [30][100/331] 11me 0.004 (0.055)	Data 0.001 (0.004) Loss

0.5000 (0.5404)	00 4001/ (00 0001/)			
0.5893 (0.5161) Prec		D-+- 0 00	1 (0 002)	T
Epoch: [36] [200/391]		Data 0.00	1 (0.003)	Loss
0.3976 (0.5097) Prec		Do+o 0 00	2 (0 002)	Loss
Epoch: [36] [300/391]		Data 0.00	2 (0.002)	LOSS
0.6474 (0.5160) Prec	78.125% (82.112%)			
Validation starts	006 (0 006) I	- 0 F630 (0 F6	20) D 0	1 050%
Test: [0/79] Time 0.2	230 (0.230) LOSS	3 0.5639 (0.56	39) Prec 8	1.250%
(81.250%)				
* Prec 80.900% best acc: 80.900000				
	Time 0 060 (0 060)	Do+o 0 00) (0 000)	Togg
Epoch: [37] [0/391]		Data 0.22	2 (0.222)	Loss
0.5352 (0.5352) Prec		D-+- 0 00	1 (0 004)	T
Epoch: [37] [100/391]		Data 0.00	1 (0.004)	Loss
0.4357 (0.5018) Prec		D	4 (0 000)	
Epoch: [37] [200/391]		Data 0.00	1 (0.003)	Loss
0.4500 (0.5042) Prec		D	(0.000)	
Epoch: [37] [300/391]		Data 0.00	1 (0.002)	Loss
0.5782 (0.5122) Prec	82.812% (82.493%)			
Validation starts	207 (2 207)	0 5000 (0 50		0.0401/
Test: [0/79] Time 0.3	227 (0.227) Loss	3 0.5369 (0.53	59) Prec 8	2.812%
(82.812%)				
* Prec 78.740%				
best acc: 80.900000			- ()	_
Epoch: [38] [0/391]		Data 0.22	7 (0.227)	Loss
0.5809 (0.5809) Prec				
Epoch: [38][100/391]		Data 0.00	2 (0.004)	Loss
0.3565 (0.5066) Prec				
Epoch: [38][200/391]		Data 0.00	1 (0.003)	Loss
0.4716 (0.5070) Prec				
Epoch: [38][300/391]		Data 0.00	2 (0.002)	Loss
0.3665 (0.5115) Prec	89.844% (82.470%)			
Validation starts				
Test: [0/79] Time 0.2	227 (0.227) Loss	0.4755 (0.47	55) Prec 8	4.375%
(84.375%)				
* Prec 79.970%				
best acc: 80.900000				
Epoch: [39][0/391]	Time 0.265 (0.265)	Data 0.21	5 (0.215)	Loss
0.4432 (0.4432) Prec	85.938% (85.938%)			
Epoch: [39][100/391]	Time 0.053 (0.055)	Data 0.00	1 (0.004)	Loss
0.5889 (0.4897) Prec	78.906% (82.967%)			
Epoch: [39][200/391]	Time 0.053 (0.054)	Data 0.00	1 (0.003)	Loss
0.4190 (0.5034) Prec	83.594% (82.572%)			
Epoch: [39][300/391]	Time 0.053 (0.054)	Data 0.00	1 (0.002)	Loss
0.6044 (0.5027) Prec	75.000% (82.511%)			
Validation starts				
Test: [0/79] Time 0.2	225 (0.225) Loss	0.5184 (0.51	84) Prec 8	4.375%
(84.375%)				
* Prec 81.050%				

best acc: 81.050000	
Epoch: [40] [0/391] Time 0.294 (0.294)	Data 0.248 (0.248) Loss
0.5296 (0.5296) Prec 81.250% (81.250%)	Data 0.240 (0.240) LOSS
Epoch: [40] [100/391] Time 0.052 (0.055)	Data 0.001 (0.004) Loss
0.4600 (0.5057) Prec 82.812% (82.859%)	Data 0.001 (0.004) LOSS
Epoch: [40] [200/391] Time 0.054 (0.054)	Data 0.001 (0.003) Loss
-	Data 0.001 (0.003) Loss
0.4600 (0.5029) Prec 82.812% (82.847%)	Data 0 004 (0 002) I aga
Epoch: [40] [300/391] Time 0.054 (0.054)	Data 0.004 (0.002) Loss
0.6821 (0.5002) Prec 78.906% (82.805%)	
Validation starts	0 F400 (0 F400) B 00 460W
Test: [0/79] Time 0.242 (0.242) Loss	0.5188 (0.5188) Prec 80.469%
(80.469%)	
* Prec 81.170%	
best acc: 81.170000	D
Epoch: [41] [0/391] Time 0.284 (0.284)	Data 0.237 (0.237) Loss
0.5741 (0.5741) Prec 80.469% (80.469%)	
Epoch: [41] [100/391] Time 0.057 (0.055)	Data 0.002 (0.004) Loss
0.5721 (0.5035) Prec 82.031% (82.495%)	
Epoch: [41][200/391] Time 0.053 (0.054)	Data 0.001 (0.003) Loss
0.5491 (0.5103) Prec 81.250% (82.334%)	
Epoch: [41][300/391] Time 0.053 (0.054)	Data 0.002 (0.003) Loss
0.5599 (0.5068) Prec 82.031% (82.556%)	
Validation starts	
Test: [0/79] Time 0.219 (0.219) Loss	0.4875 (0.4875) Prec 82.812%
(82.812%)	
* Prec 80.150%	
best acc: 81.170000	
Epoch: [42][0/391] Time 0.283 (0.283)	Data 0.234 (0.234) Loss
0.5694 (0.5694) Prec 79.688% (79.688%)	
Epoch: [42][100/391] Time 0.053 (0.055)	Data 0.001 (0.004) Loss
0.5477 (0.5089) Prec 79.688% (82.650%)	
Epoch: [42][200/391] Time 0.050 (0.054)	Data 0.001 (0.003) Loss
0.5648 (0.5021) Prec 81.250% (82.727%)	
Epoch: [42][300/391] Time 0.053 (0.054)	Data 0.001 (0.002) Loss
0.4721 (0.5061) Prec 80.469% (82.501%)	
Validation starts	
Test: [0/79] Time 0.228 (0.228) Loss	0.5334 (0.5334) Prec 83.594%
(83.594%)	
* Prec 79.940%	
best acc: 81.170000	
Epoch: [43][0/391] Time 0.300 (0.300)	Data 0.249 (0.249) Loss
0.4799 (0.4799) Prec 84.375% (84.375%)	
Epoch: [43][100/391] Time 0.053 (0.055)	Data 0.001 (0.004) Loss
0.4643 (0.4989) Prec 84.375% (82.789%)	
Epoch: [43][200/391] Time 0.052 (0.054)	Data 0.001 (0.003) Loss
0.5009 (0.4986) Prec 82.812% (82.719%)	
Epoch: [43][300/391] Time 0.053 (0.054)	Data 0.002 (0.002) Loss
0.5430 (0.5020) Prec 79.688% (82.683%)	

Validation starts Test: [0/79] Time 0.276 (0.469%)	0.276) Loss	0.4781 ((0.4781) Prec	80.469%
* Prec 80.240%					
best acc: 81.170000					
Epoch: [44] [0/391] Time	0.282 (0.282)	Data	0.232	(0.232)	Loss
0.4885 (0.4885) Prec 79.68	88% (79.688%)				
Epoch: [44][100/391] Time	0.053 (0.055)	Data	0.001	(0.004)	Loss
0.5073 (0.5045) Prec 83.59	94% (82.774%)				
Epoch: [44][200/391] Time	0.053 (0.054)	Data	0.002	(0.003)	Loss
0.4118 (0.5032) Prec 86.7	19% (82.603%)				
Epoch: [44][300/391] Time	0.053 (0.054)	Data	0.002	(0.002)	Loss
0.5583 (0.5041) Prec 80.4	69% (82.581%)				
Validation starts					
Test: [0/79] Time 0.232 (0.232) Loss	0.4352 ((0.4352	Prec	84.375%
(84.375%)					
* Prec 80.910%					
best acc: 81.170000					
Epoch: [45][0/391] Time	0.335 (0.335)	Data	0.286	(0.286)	Loss
0.5577 (0.5577) Prec 82.8					
Epoch: [45][100/391] Time		Data	0.002	(0.005)	Loss
0.6345 (0.4986) Prec 78.13					
Epoch: [45][200/391] Time		Data	0.001	(0.003)	Loss
0.4692 (0.5029) Prec 83.59					
Epoch: [45][300/391] Time		Data	0.002	(0.003)	Loss
0.3867 (0.4971) Prec 85.93					
Validation starts					
Test: [0/79] Time 0.250 (0.250) Loss	0.4669 (0.4669) Prec	85.938%
(85.938%)				,	
* Prec 80.220%					
best acc: 81.170000					
Epoch: [46] [0/391] Time	0.299 (0.299)	Data	0.253	(0.253)	Loss
0.6433 (0.6433) Prec 76.50					
Epoch: [46][100/391] Time		Data	0.002	(0.004)	Loss
0.3565 (0.4776) Prec 88.28				(/	
Epoch: [46] [200/391] Time		Data	0.001	(0.003)	Loss
0.3959 (0.4853) Prec 87.50				(
Epoch: [46] [300/391] Time		Data	0.002	(0.002)	Loss
0.5149 (0.4946) Prec 82.8		Dava	0.002	(0.002)	2000
Validation starts	==/0 (001=10/0/				
Test: [0/79] Time 0.205 (0.205) Loss	0.5235 (0.5235) Prec	82.812%
(82.812%)	0.200) 1000	0.0200	0.0200	,, 1100	02:012/
* Prec 79.300%					
best acc: 81.170000	0.005 (0.005)	ъ.	0.045	(0.047)	т.
Epoch: [47] [0/391] Time		Data	0.217	(0.217)	Loss
0.6327 (0.6327) Prec 82.03		ъ.	0 001	(0.004)	.
Epoch: [47] [100/391] Time		Data	0.001	(0.004)	Loss
0.4767 (0.4894) Prec 85.1	oo, (83.130% <i>)</i>				

Epoch: [47] [200/391] Time 0.053 (0.05	
0.5415 (0.4956) Prec 85.156% (82.855%	
Epoch: [47] [300/391] Time 0.054 (0.05	
0.4855 (0.4941) Prec 82.812% (82.979%)
Validation starts	I 0 4240 (0 4240) Drag OF 0209
Test: [0/79] Time 0.214 (0.214)	Loss 0.4319 (0.4319) Prec 85.938%
(85.938%) * Prec 81.310%	
best acc: 81.31000	
Epoch: [48] [0/391] Time 0.286 (0.28	6) Data 0.241 (0.241) Loss
0.5485 (0.5485) Prec 80.469% (80.469%	
Epoch: [48] [100/391] Time 0.053 (0.05	
0.4268 (0.4867) Prec 84.375% (83.253%	
Epoch: [48] [200/391] Time 0.054 (0.05	
0.5166 (0.4964) Prec 81.250% (82.801%	
Epoch: [48] [300/391] Time 0.051 (0.05	
0.4800 (0.4974) Prec 79.688% (82.729%)	
Validation starts)
Test: [0/79] Time 0.245 (0.245)	Inga 0 3787 (0 3787) Proc 87 5009
(87.500%)	LOSS 0.3/0/ (0.3/0/) FIEC 0/.300%
* Prec 81.440%	
best acc: 81.44000	
Epoch: [49] [0/391] Time 0.252 (0.25	2) Data 0.210 (0.210) Loss
0.3448 (0.3448) Prec 89.062% (89.062%)	
Epoch: [49] [100/391] Time 0.053 (0.05	
0.5173 (0.4955) Prec 85.156% (82.673%	
Epoch: [49] [200/391] Time 0.053 (0.05 0.4763 (0.4910) Prec 82.031% (82.991%	
Epoch: [49] [300/391] Time 0.053 (0.05 0.5172 (0.4905) Prec 82.812% (83.010%)	
Validation starts	,
	Loss 0.5571 (0.5571) Prec 85.938%
(85.938%)	Loss 0.00/1 (0.00/1) 11ec 00.000%
* Prec 78.130%	
best acc: 81.440000	
Epoch: [50] [0/391] Time 0.303 (0.30	3) Data 0.264 (0.264) Loss
0.6130 (0.6130) Prec 79.688% (79.688%	
Epoch: [50] [100/391] Time 0.054 (0.05	
0.5655 (0.4932) Prec 79.688% (82.751%	
Epoch: [50] [200/391] Time 0.057 (0.05	
0.5125 (0.4946) Prec 78.125% (82.879%	
Epoch: [50] [300/391] Time 0.055 (0.05	
0.5543 (0.4975) Prec 81.250% (82.919%	
Validation starts	,
Test: [0/79] Time 0.231 (0.231)	Loss 0.4180 (0.4180) Prec 87.500%
(87.500%)	2000 0.1100 (0.1100) 1160 07.000%
* Prec 81.880%	
1100 01.000//	

best acc: 81.880000

Epoch: [51] [0/391] Time 0.272 (0.272) 0.3707 (0.3707) Prec 87.500% (87.500%)	Data 0.222	(0.222)	Loss
Epoch: [51] [100/391] Time 0.053 (0.055) 0.5101 (0.4829) Prec 81.250% (83.601%)	Data 0.001	(0.004)	Loss
Epoch: [51] [200/391] Time 0.053 (0.054) 0.4313 (0.4859) Prec 81.250% (83.259%)	Data 0.001	(0.003)	Loss
Epoch: [51][300/391] Time 0.053 (0.054) 0.6137 (0.4933) Prec 80.469% (83.010%)	Data 0.001	(0.002)	Loss
Validation starts			
Test: [0/79] Time 0.246 (0.246) Loss	0.5608 (0.5608	B) Prec	82.812%
(82.812%)			
* Prec 77.400%			
best acc: 81.880000			
Epoch: [52][0/391] Time 0.279 (0.279)	Data 0.230	(0.230)	Loss
0.4298 (0.4298) Prec 85.156% (85.156%)			
Epoch: [52][100/391] Time 0.052 (0.055)	Data 0.001	(0.004)	Loss
0.6255 (0.4904) Prec 82.812% (83.269%)			
Epoch: [52][200/391] Time 0.053 (0.054)	Data 0.002	(0.003)	Loss
0.5064 (0.4929) Prec 85.156% (83.306%)			
Epoch: [52][300/391] Time 0.054 (0.054)	Data 0.002	(0.002)	Loss
0.4026 (0.4970) Prec 83.594% (83.142%)			
Validation starts			
Test: [0/79] Time 0.293 (0.293) Loss	0.4590 (0.4590)) Prec	84.375%
(84.375%)			
* Prec 81.740%			
best acc: 81.880000			
Epoch: [53][0/391] Time 0.265 (0.265)	Data 0.220	(0.220)	Loss
Epoch: [53][0/391] Time 0.265 (0.265) 0.4650 (0.4650) Prec 84.375% (84.375%)			
Epoch: [53][0/391] Time 0.265 (0.265) 0.4650 (0.4650) Prec 84.375% (84.375%) Epoch: [53][100/391] Time 0.052 (0.055)	Data 0.220 Data 0.001		
Epoch: [53] [0/391] Time 0.265 (0.265) 0.4650 (0.4650) Prec 84.375% (84.375%) Epoch: [53] [100/391] Time 0.052 (0.055) 0.3882 (0.4937) Prec 86.719% (83.075%)	Data 0.001	(0.004)	Loss
Epoch: [53][0/391] Time 0.265 (0.265) 0.4650 (0.4650) Prec 84.375% (84.375%) Epoch: [53][100/391] Time 0.052 (0.055) 0.3882 (0.4937) Prec 86.719% (83.075%) Epoch: [53][200/391] Time 0.054 (0.054)		(0.004)	
Epoch: [53] [0/391] Time 0.265 (0.265) 0.4650 (0.4650) Prec 84.375% (84.375%) Epoch: [53] [100/391] Time 0.052 (0.055) 0.3882 (0.4937) Prec 86.719% (83.075%) Epoch: [53] [200/391] Time 0.054 (0.054) 0.6888 (0.4939) Prec 74.219% (82.952%)	Data 0.001	(0.004)	Loss
Epoch: [53] [0/391] Time 0.265 (0.265) 0.4650 (0.4650) Prec 84.375% (84.375%) Epoch: [53] [100/391] Time 0.052 (0.055) 0.3882 (0.4937) Prec 86.719% (83.075%) Epoch: [53] [200/391] Time 0.054 (0.054) 0.6888 (0.4939) Prec 74.219% (82.952%) Epoch: [53] [300/391] Time 0.052 (0.054)	Data 0.001	(0.004)	Loss
Epoch: [53][0/391] Time 0.265 (0.265) 0.4650 (0.4650) Prec 84.375% (84.375%) Epoch: [53][100/391] Time 0.052 (0.055) 0.3882 (0.4937) Prec 86.719% (83.075%) Epoch: [53][200/391] Time 0.054 (0.054) 0.6888 (0.4939) Prec 74.219% (82.952%) Epoch: [53][300/391] Time 0.052 (0.054) 0.3379 (0.4931) Prec 85.938% (82.888%)	Data 0.001	(0.004)	Loss Loss
Epoch: [53] [0/391] Time 0.265 (0.265) 0.4650 (0.4650) Prec 84.375% (84.375%) Epoch: [53] [100/391] Time 0.052 (0.055) 0.3882 (0.4937) Prec 86.719% (83.075%) Epoch: [53] [200/391] Time 0.054 (0.054) 0.6888 (0.4939) Prec 74.219% (82.952%) Epoch: [53] [300/391] Time 0.052 (0.054) 0.3379 (0.4931) Prec 85.938% (82.888%) Validation starts	Data 0.001 Data 0.001 Data 0.002	(0.004) (0.003) (0.002)	Loss Loss Loss
Epoch: [53] [0/391] Time 0.265 (0.265) 0.4650 (0.4650) Prec 84.375% (84.375%) Epoch: [53] [100/391] Time 0.052 (0.055) 0.3882 (0.4937) Prec 86.719% (83.075%) Epoch: [53] [200/391] Time 0.054 (0.054) 0.6888 (0.4939) Prec 74.219% (82.952%) Epoch: [53] [300/391] Time 0.052 (0.054) 0.3379 (0.4931) Prec 85.938% (82.888%) Validation starts Test: [0/79] Time 0.247 (0.247) Loss	Data 0.001 Data 0.001 Data 0.002	(0.004) (0.003) (0.002)	Loss Loss Loss
Epoch: [53] [0/391] Time 0.265 (0.265) 0.4650 (0.4650) Prec 84.375% (84.375%) Epoch: [53] [100/391] Time 0.052 (0.055) 0.3882 (0.4937) Prec 86.719% (83.075%) Epoch: [53] [200/391] Time 0.054 (0.054) 0.6888 (0.4939) Prec 74.219% (82.952%) Epoch: [53] [300/391] Time 0.052 (0.054) 0.3379 (0.4931) Prec 85.938% (82.888%) Validation starts Test: [0/79] Time 0.247 (0.247) Loss (87.500%)	Data 0.001 Data 0.001 Data 0.002	(0.004) (0.003) (0.002)	Loss Loss Loss
Epoch: [53] [0/391] Time 0.265 (0.265) 0.4650 (0.4650) Prec 84.375% (84.375%) Epoch: [53] [100/391] Time 0.052 (0.055) 0.3882 (0.4937) Prec 86.719% (83.075%) Epoch: [53] [200/391] Time 0.054 (0.054) 0.6888 (0.4939) Prec 74.219% (82.952%) Epoch: [53] [300/391] Time 0.052 (0.054) 0.3379 (0.4931) Prec 85.938% (82.888%) Validation starts Test: [0/79] Time 0.247 (0.247) Loss (87.500%) * Prec 81.470%	Data 0.001 Data 0.001 Data 0.002	(0.004) (0.003) (0.002)	Loss Loss Loss
Epoch: [53][0/391] Time 0.265 (0.265) 0.4650 (0.4650) Prec 84.375% (84.375%) Epoch: [53][100/391] Time 0.052 (0.055) 0.3882 (0.4937) Prec 86.719% (83.075%) Epoch: [53][200/391] Time 0.054 (0.054) 0.6888 (0.4939) Prec 74.219% (82.952%) Epoch: [53][300/391] Time 0.052 (0.054) 0.3379 (0.4931) Prec 85.938% (82.888%) Validation starts Test: [0/79] Time 0.247 (0.247) Loss (87.500%) * Prec 81.470% best acc: 81.880000	Data 0.001 Data 0.002 Data 0.002	(0.004) (0.003) (0.002) 3) Prec	Loss Loss Loss 87.500%
Epoch: [53] [0/391] Time 0.265 (0.265) 0.4650 (0.4650) Prec 84.375% (84.375%) Epoch: [53] [100/391] Time 0.052 (0.055) 0.3882 (0.4937) Prec 86.719% (83.075%) Epoch: [53] [200/391] Time 0.054 (0.054) 0.6888 (0.4939) Prec 74.219% (82.952%) Epoch: [53] [300/391] Time 0.052 (0.054) 0.3379 (0.4931) Prec 85.938% (82.888%) Validation starts Test: [0/79] Time 0.247 (0.247) Loss (87.500%) * Prec 81.470% best acc: 81.880000 Epoch: [54] [0/391] Time 0.291 (0.291)	Data 0.001 Data 0.002 Data 0.002	(0.004) (0.003) (0.002) 3) Prec	Loss Loss Loss 87.500%
Epoch: [53] [0/391] Time 0.265 (0.265) 0.4650 (0.4650) Prec 84.375% (84.375%) Epoch: [53] [100/391] Time 0.052 (0.055) 0.3882 (0.4937) Prec 86.719% (83.075%) Epoch: [53] [200/391] Time 0.054 (0.054) 0.6888 (0.4939) Prec 74.219% (82.952%) Epoch: [53] [300/391] Time 0.052 (0.054) 0.3379 (0.4931) Prec 85.938% (82.888%) Validation starts Test: [0/79] Time 0.247 (0.247) Loss (87.500%) * Prec 81.470% best acc: 81.880000 Epoch: [54] [0/391] Time 0.291 (0.291) 0.3935 (0.3935) Prec 85.156% (85.156%)	Data 0.001 Data 0.001 Data 0.002 0.4263 (0.4263) Data 0.240	(0.004) (0.003) (0.002) 3) Prec	Loss Loss 87.500%
Epoch: [53] [0/391] Time 0.265 (0.265) 0.4650 (0.4650) Prec 84.375% (84.375%) Epoch: [53] [100/391] Time 0.052 (0.055) 0.3882 (0.4937) Prec 86.719% (83.075%) Epoch: [53] [200/391] Time 0.054 (0.054) 0.6888 (0.4939) Prec 74.219% (82.952%) Epoch: [53] [300/391] Time 0.052 (0.054) 0.3379 (0.4931) Prec 85.938% (82.888%) Validation starts Test: [0/79] Time 0.247 (0.247) Loss (87.500%) * Prec 81.470% best acc: 81.880000 Epoch: [54] [0/391] Time 0.291 (0.291) 0.3935 (0.3935) Prec 85.156% (85.156%) Epoch: [54] [100/391] Time 0.054 (0.056)	Data 0.001 Data 0.002 Data 0.002	(0.004) (0.003) (0.002) 3) Prec	Loss Loss Loss 87.500%
Epoch: [53] [0/391] Time 0.265 (0.265) 0.4650 (0.4650) Prec 84.375% (84.375%) Epoch: [53] [100/391] Time 0.052 (0.055) 0.3882 (0.4937) Prec 86.719% (83.075%) Epoch: [53] [200/391] Time 0.054 (0.054) 0.6888 (0.4939) Prec 74.219% (82.952%) Epoch: [53] [300/391] Time 0.052 (0.054) 0.3379 (0.4931) Prec 85.938% (82.888%) Validation starts Test: [0/79] Time 0.247 (0.247) Loss (87.500%) * Prec 81.470% best acc: 81.880000 Epoch: [54] [0/391] Time 0.291 (0.291) 0.3935 (0.3935) Prec 85.156% (85.156%) Epoch: [54] [100/391] Time 0.054 (0.056) 0.4032 (0.4889) Prec 85.156% (82.805%)	Data 0.001 Data 0.001 Data 0.002 0.4263 (0.4263 Data 0.240 Data 0.002	(0.004) (0.003) (0.002) 3) Prec (0.240) (0.004)	Loss Loss 87.500% Loss Loss
Epoch: [53] [0/391] Time 0.265 (0.265) 0.4650 (0.4650) Prec 84.375% (84.375%) Epoch: [53] [100/391] Time 0.052 (0.055) 0.3882 (0.4937) Prec 86.719% (83.075%) Epoch: [53] [200/391] Time 0.054 (0.054) 0.6888 (0.4939) Prec 74.219% (82.952%) Epoch: [53] [300/391] Time 0.052 (0.054) 0.3379 (0.4931) Prec 85.938% (82.888%) Validation starts Test: [0/79] Time 0.247 (0.247) Loss (87.500%) * Prec 81.470% best acc: 81.880000 Epoch: [54] [0/391] Time 0.291 (0.291) 0.3935 (0.3935) Prec 85.156% (85.156%) Epoch: [54] [100/391] Time 0.054 (0.056) 0.4032 (0.4889) Prec 85.156% (82.805%) Epoch: [54] [200/391] Time 0.063 (0.054)	Data 0.001 Data 0.001 Data 0.002 0.4263 (0.4263 Data 0.240 Data 0.002	(0.004) (0.003) (0.002) 3) Prec (0.240) (0.004)	Loss Loss 87.500%
Epoch: [53] [0/391] Time 0.265 (0.265) 0.4650 (0.4650) Prec 84.375% (84.375%) Epoch: [53] [100/391] Time 0.052 (0.055) 0.3882 (0.4937) Prec 86.719% (83.075%) Epoch: [53] [200/391] Time 0.054 (0.054) 0.6888 (0.4939) Prec 74.219% (82.952%) Epoch: [53] [300/391] Time 0.052 (0.054) 0.3379 (0.4931) Prec 85.938% (82.888%) Validation starts Test: [0/79] Time 0.247 (0.247) Loss (87.500%) * Prec 81.470% best acc: 81.880000 Epoch: [54] [0/391] Time 0.291 (0.291) 0.3935 (0.3935) Prec 85.156% (85.156%) Epoch: [54] [100/391] Time 0.054 (0.056) 0.4032 (0.4889) Prec 85.156% (82.805%) Epoch: [54] [200/391] Time 0.063 (0.054) 0.5821 (0.4833) Prec 82.031% (82.902%)	Data 0.001 Data 0.001 Data 0.002 0.4263 (0.4263 Data 0.240 Data 0.002 Data 0.002	(0.004) (0.003) (0.002) 3) Prec (0.240) (0.004) (0.003)	Loss Loss 87.500% Loss Loss Loss
Epoch: [53] [0/391] Time 0.265 (0.265) 0.4650 (0.4650) Prec 84.375% (84.375%) Epoch: [53] [100/391] Time 0.052 (0.055) 0.3882 (0.4937) Prec 86.719% (83.075%) Epoch: [53] [200/391] Time 0.054 (0.054) 0.6888 (0.4939) Prec 74.219% (82.952%) Epoch: [53] [300/391] Time 0.052 (0.054) 0.3379 (0.4931) Prec 85.938% (82.888%) Validation starts Test: [0/79] Time 0.247 (0.247) Loss (87.500%) * Prec 81.470% best acc: 81.880000 Epoch: [54] [0/391] Time 0.291 (0.291) 0.3935 (0.3935) Prec 85.156% (85.156%) Epoch: [54] [100/391] Time 0.054 (0.056) 0.4032 (0.4889) Prec 85.156% (82.805%) Epoch: [54] [200/391] Time 0.063 (0.054) 0.5821 (0.4833) Prec 82.031% (82.902%) Epoch: [54] [300/391] Time 0.049 (0.054)	Data 0.001 Data 0.001 Data 0.002 0.4263 (0.4263 Data 0.240 Data 0.002 Data 0.002	(0.004) (0.003) (0.002) 3) Prec (0.240) (0.004) (0.003)	Loss Loss 87.500% Loss Loss
Epoch: [53] [0/391] Time 0.265 (0.265) 0.4650 (0.4650) Prec 84.375% (84.375%) Epoch: [53] [100/391] Time 0.052 (0.055) 0.3882 (0.4937) Prec 86.719% (83.075%) Epoch: [53] [200/391] Time 0.054 (0.054) 0.6888 (0.4939) Prec 74.219% (82.952%) Epoch: [53] [300/391] Time 0.052 (0.054) 0.3379 (0.4931) Prec 85.938% (82.888%) Validation starts Test: [0/79] Time 0.247 (0.247) Loss (87.500%) * Prec 81.470% best acc: 81.880000 Epoch: [54] [0/391] Time 0.291 (0.291) 0.3935 (0.3935) Prec 85.156% (85.156%) Epoch: [54] [100/391] Time 0.054 (0.056) 0.4032 (0.4889) Prec 85.156% (82.805%) Epoch: [54] [200/391] Time 0.063 (0.054) 0.5821 (0.4833) Prec 82.031% (82.902%)	Data 0.001 Data 0.001 Data 0.002 0.4263 (0.4263 Data 0.240 Data 0.002 Data 0.002	(0.004) (0.003) (0.002) 3) Prec (0.240) (0.004) (0.003)	Loss Loss 87.500% Loss Loss Loss

Test: [0/79] Time 0.23 (85.156%)	31 (0.231) Loss	0.4640 (0.4640)) Prec 85.156%
* Prec 79.710%			
best acc: 81.880000			
Epoch: [55] [0/391]	Time 0.278 (0.278)	Data 0.226	(0.226) Loss
0.4555 (0.4555) Prec 8			
Epoch: [55][100/391]		Data 0.002	(0.004) Loss
0.5105 (0.4784) Prec 8			
Epoch: [55][200/391]		Data 0.002	(0.003) Loss
0.5433 (0.4866) Prec 8			
Epoch: [55][300/391]	Time 0.053 (0.054)	Data 0.002	(0.002) Loss
0.6301 (0.4931) Prec	79.688% (83.155%)		
Validation starts			
Test: [0/79] Time 0.29	56 (0.256) Loss	0.5206 (0.5206	S) Prec 83.594%
(83.594%)			
* Prec 80.650%			
best acc: 81.880000			
Epoch: [56] [0/391]	Time 0.285 (0.285)	Data 0.234	(0.234) Loss
0.5315 (0.5315) Prec	79.688% (79.688%)		
Epoch: [56] [100/391]	Time 0.053 (0.055)	Data 0.002	(0.004) Loss
0.5459 (0.4823) Prec 8	83.594% (82.797%)		
Epoch: [56] [200/391]	Time 0.053 (0.054)	Data 0.002	(0.003) Loss
0.4561 (0.4813) Prec 8	83.594% (83.061%)		
Epoch: [56] [300/391]	Time 0.052 (0.054)	Data 0.001	(0.002) Loss
0.5877 (0.4833) Prec 8	82.812% (83.217%)		
Validation starts			
Test: [0/79] Time 0.23	18 (0.218) Loss	0.5379 (0.5379	Prec 82.031%
(82.031%)			
* Prec 80.340%			
best acc: 81.880000			
Epoch: [57] [0/391]		Data 0.226	(0.226) Loss
0.4010 (0.4010) Prec 8			
Epoch: [57][100/391]		Data 0.001	(0.004) Loss
0.7208 (0.4844) Prec			
Epoch: [57] [200/391]		Data 0.002	(0.003) Loss
0.6268 (0.4884) Prec			
Epoch: [57] [300/391]		Data 0.002	(0.002) Loss
0.5695 (0.4871) Prec	78.906% (83.049%)		
Validation starts	()		->
Test: [0/79] Time 0.22	27 (0.227) Loss	0.4367 (0.4367	() Prec 88.281%
(88.281%)			
* Prec 81.440%			
best acc: 81.880000	T. 0.070 (0.070)	D	(0.000)
Epoch: [58] [0/391]		Data 0.222	(0.222) Loss
0.4879 (0.4879) Prec 8		D-+- 0 000	(0.004) T-
Epoch: [58] [100/391]		Data 0.002	(0.004) Loss
0.4374 (0.4784) Prec 8		Do+o 0 000	(0.002)
Epoch: [58] [200/391]	11me 0.052 (0.054)	Data 0.002	(0.003) Loss

0 2026 (0 4912)	
0.3926 (0.4812) Prec 86.719% (83.392%) Epoch: [58][300/391] Time 0.053 (0.054)	Data 0 002 (0 002) Loss
0.4816 (0.4828) Prec 85.156% (83.381%)	Data 0.002 (0.002) Loss
Validation starts	
Test: [0/79] Time 0.235 (0.235) Loss	0 4569 (0 4569) Prec 83 594%
(83.594%)	0.1000 (0.1000) 1100 00.001%
* Prec 80.510%	
best acc: 81.880000	
Epoch: [59] [0/391] Time 0.314 (0.314)	Data 0.265 (0.265) Loss
0.4488 (0.4488) Prec 85.938% (85.938%)	2404 00200 (00200) 2022
Epoch: [59][100/391] Time 0.051 (0.056)	Data 0.001 (0.004) Loss
0.4335 (0.4806) Prec 84.375% (83.455%)	2404 00001 (00001, 2000
Epoch: [59][200/391] Time 0.053 (0.054)	Data 0.001 (0.003) Loss
0.4546 (0.4834) Prec 84.375% (83.477%)	
Epoch: [59][300/391] Time 0.053 (0.054)	Data 0.001 (0.002) Loss
0.4278 (0.4826) Prec 85.938% (83.493%)	
Validation starts	
Test: [0/79] Time 0.239 (0.239) Loss	0.4504 (0.4504) Prec 82.031%
(82.031%)	
* Prec 79.820%	
best acc: 81.880000	
Epoch: [60][0/391] Time 0.298 (0.298)	Data 0.250 (0.250) Loss
0.4921 (0.4921) Prec 81.250% (81.250%)	
Epoch: [60][100/391] Time 0.053 (0.055)	Data 0.002 (0.004) Loss
0.5264 (0.4964) Prec 79.688% (82.696%)	
Epoch: [60][200/391] Time 0.053 (0.054)	Data 0.002 (0.003) Loss
0.4657 (0.4897) Prec 85.938% (83.178%)	
Epoch: [60][300/391] Time 0.054 (0.054)	Data 0.002 (0.002) Loss
0.4310 (0.4902) Prec 85.156% (83.171%)	
Validation starts	
Test: [0/79] Time 0.190 (0.190) Loss	0.4369 (0.4369) Prec 85.938%
(85.938%)	
* Prec 79.980%	
best acc: 81.880000	
Epoch: [61][0/391] Time 0.270 (0.270)	Data 0.232 (0.232) Loss
0.4406 (0.4406) Prec 85.156% (85.156%)	
Epoch: [61][100/391] Time 0.054 (0.055)	Data 0.001 (0.004) Loss
0.4494 (0.4828) Prec 85.938% (83.385%)	
Epoch: [61][200/391] Time 0.052 (0.054)	Data 0.002 (0.003) Loss
0.3630 (0.4835) Prec 86.719% (83.427%)	
Epoch: [61][300/391] Time 0.053 (0.054)	Data 0.002 (0.002) Loss
0.5607 (0.4815) Prec 80.469% (83.376%)	
Validation starts	
Test: [0/79] Time 0.220 (0.220) Loss	0.4633 (0.4633) Prec 87.500%
(87.500%)	
* Prec 78.940%	
best acc: 81.880000	
Epoch: [62] [0/391] Time 0.276 (0.276)	Data 0.234 (0.234) Loss

0 4661 (0 4661) P 04 275% (04 25	7=0/\				
0.4661 (0.4661) Prec 84.375% (84.37		Data	0 000	(0.004)	Togg
Epoch: [62] [100/391] Time 0.050 (0.0.4603 (0.4931) Prec 81.250% (83.12		раца	0.002	(0.004)	Loss
		D-+-	0 000	(0, 002)	T
.		Data	0.002	(0.003)	Loss
0.4947 (0.4913) Prec 80.469% (83.12		ъ.	0 000	(0,000)	.
Epoch: [62] [300/391] Time 0.053 (0.		Data	0.002	(0.002)	Loss
0.6335 (0.4902) Prec 80.469% (83.21	10%)				
Validation starts	_				
Test: [0/79] Time 0.267 (0.267)	Loss	0.4382	(0.4382	2) Pred	85.938%
(85.938%)					
* Prec 82.040%					
best acc: 82.040000					
Epoch: [63] [0/391] Time 0.293 (0.		Data	0.241	(0.241)	Loss
0.5582 (0.5582) Prec 80.469% (80.46					
Epoch: [63][100/391] Time 0.051 (0.		Data	0.001	(0.004)	Loss
0.5326 (0.4843) Prec 80.469% (83.03					
Epoch: [63] [200/391] Time 0.054 (0.	.054)	Data	0.002	(0.003)	Loss
0.4869 (0.4840) Prec 82.812% (83.24	14%)				
Epoch: [63][300/391] Time 0.050 (0.	.054)	Data	0.002	(0.002)	Loss
0.4888 (0.4852) Prec 81.250% (83.18	31%)				
Validation starts					
Test: [0/79] Time 0.212 (0.212)	Loss	0.4672	(0.4672	2) Pred	82.812%
(82.812%)					
* Prec 79.510%					
best acc: 82.040000					
Epoch: [64] [0/391] Time 0.287 (0.	.287)	Data	0.246	(0.246)	Loss
0.4893 (0.4893) Prec 82.031% (82.03	31%)				
Epoch: [64][100/391] Time 0.054 (0.	.056)	Data	0.002	(0.004)	Loss
0.3305 (0.4813) Prec 85.938% (83.68	37%)				
Epoch: [64][200/391] Time 0.056 (0.		Data	0.002	(0.003)	Loss
0.4695 (0.4811) Prec 83.594% (83.78					
Epoch: [64][300/391] Time 0.053 (0.		Data	0.002	(0.003)	Loss
0.3707 (0.4819) Prec 86.719% (83.56				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Validation starts	- 707				
Test: [0/79] Time 0.224 (0.224)	Loss	0.4989	(0.4989)) Pred	84.375%
(84.375%)	2000	0.1000	(0.1000	, 1100	01.010/
* Prec 81.780%					
best acc: 82.040000					
Epoch: [65] [0/391] Time 0.285 (0.	285)	Data	0 238	(0.238)	Loss
0.3965 (0.3965) Prec 83.594% (83.59		Dava	0.200	(0.200)	порр
Epoch: [65] [100/391] Time 0.056 (0.		Data	0 002	(0.004)	Loss
0.5554 (0.4741) Prec 82.031% (83.55		Dava	0.002	(0.004)	порр
Epoch: [65] [200/391] Time 0.054 (0.		Data	0 003	(0.003)	Loss
-		Data	0.003	(0.003)	LUSS
0.3644 (0.4766) Prec 88.281% (83.56		Do+o	0 000	(0 003)	Logg
Epoch: [65] [300/391] Time 0.052 (0.		рака	0.002	(0.003)	Loss
0.5781 (0.4817) Prec 81.250% (83.46) Validation starts	J 2 10)				
	T	0.3060	(0.2000)) D	06 710%
Test: [0/79] Time 0.228 (0.228)	LOSS	0.3909	(0.3968) Prec	00.119%

(86.719%)* Prec 82.130% best acc: 82.130000 Epoch: [66] [0/391] Time 0.279 (0.279)Data 0.236 (0.236) Loss 0.3665 (0.3665) Prec 86.719% (86.719%) Epoch: [66] [100/391] Time 0.052 (0.055)Data 0.001 (0.004) Loss 0.3948 (0.4791) Prec 85.156% (83.632%) Epoch: [66] [200/391] Time 0.053 (0.054)Data 0.002 (0.003) Loss 0.3901 (0.4755) Prec 84.375% (83.660%) Data 0.001 (0.002) Epoch: [66] [300/391] Time 0.052 (0.054)Loss 0.4077 (0.4718) Prec 88.281% (83.711%) Validation starts Test: [0/79] Time 0.239 (0.239) Loss 0.5166 (0.5166) Prec 82.812% (82.812%) * Prec 80.690% best acc: 82.130000 Epoch: [67] [0/391] Time 0.351 (0.351)Data 0.301 (0.301) Loss 0.5266 (0.5266) Prec 82.812% (82.812%) Epoch: [67] [100/391] Time 0.053 (0.056)Data 0.002 (0.005) Loss 0.4713 (0.4665) Prec 82.812% (83.795%) Epoch: [67] [200/391] Time 0.049 (0.054)Data 0.002 (0.003) Loss 0.4107 (0.4668) Prec 85.156% (83.986%) Epoch: [67] [300/391] Time 0.053 (0.054)Data 0.001 (0.003) Loss 0.5889 (0.4766) Prec 79.688% (83.677%) Validation starts Test: [0/79] Time 0.192 (0.192) Loss 0.4326 (0.4326) Prec 89.062% (89.062%)* Prec 81.470% best acc: 82.130000 Epoch: [68] [0/391] Time 0.273 (0.273)Data 0.225 (0.225) Loss 0.5525 (0.5525) Prec 84.375% (84.375%) Epoch: [68] [100/391] Time 0.050 (0.055)Data 0.002 (0.004) Loss 0.7162 (0.4737) Prec 76.562% (83.818%) Epoch: [68] [200/391] Time 0.054 (0.054)Data 0.001 (0.003) Loss 0.5005 (0.4760) Prec 82.812% (83.516%) Epoch: [68] [300/391] Time 0.057 (0.054)Data 0.001 (0.002) Loss 0.4562 (0.4726) Prec 81.250% (83.612%) Validation starts Test: [0/79] Time 0.237 (0.237)Loss 0.5544 (0.5544) Prec 81.250% (81.250%)* Prec 80.630% best acc: 82.130000 Epoch: [69] [0/391] Time 0.285 (0.285)Data 0.233 (0.233) Loss 0.5696 (0.5696) Prec 82.812% (82.812%) Epoch: [69] [100/391] Time 0.053 (0.055)Data 0.001 (0.004) Loss 0.3549 (0.4724) Prec 85.156% (83.470%) Epoch: [69] [200/391] Time 0.053 (0.054)Data 0.001 (0.003) Loss 0.5036 (0.4784) Prec 81.250% (83.349%)

Epoch: [69][300/391] Time 0.053 (0.054) 0.5559 (0.4742) Prec 81.250% (83.550%)	Data 0.001 (0.002) Loss
Validation starts Test: [0/79] Time 0.248 (0.248) Loss (82.812%) * Prec 81.590%	s 0.4724 (0.4724) Prec 82.812%
best acc: 82.130000 Epoch: [70][0/391] Time 0.270 (0.270)	Data 0.225 (0.225) Loss
0.5439 (0.5439) Prec 82.031% (82.031%)	
Epoch: [70][100/391] Time 0.054 (0.055)	Data 0.002 (0.004) Loss
0.4465 (0.4779) Prec 84.375% (83.222%)	
Epoch: [70][200/391] Time 0.053 (0.054)	Data 0.002 (0.003) Loss
0.4275 (0.4753) Prec 87.500% (83.287%)	
Epoch: [70][300/391] Time 0.055 (0.054)	Data 0.002 (0.002) Loss
0.5264 (0.4761) Prec 81.250% (83.295%)	
Validation starts	
Test: [0/79] Time 0.215 (0.215) Loss	0.4672 (0.4672) Prec 82.812%
(82.812%)	
* Prec 81.380%	
best acc: 82.130000	
Epoch: [71][0/391] Time 0.257 (0.257)	Data 0.212 (0.212) Loss
0.4293 (0.4293) Prec 85.156% (85.156%)	
Epoch: [71][100/391] Time 0.053 (0.055)	Data 0.002 (0.004) Loss
0.4123 (0.4746) Prec 89.844% (83.911%)	
Epoch: [71][200/391] Time 0.053 (0.054)	Data 0.001 (0.003) Loss
0.5203 (0.4783) Prec 78.125% (83.664%)	
Epoch: [71][300/391] Time 0.052 (0.054)	Data 0.002 (0.002) Loss
0.3985 (0.4772) Prec 85.156% (83.679%)	
Validation starts	
Test: [0/79] Time 0.265 (0.265) Loss	0.4760 (0.4760) Prec 86.719%
(86.719%)	
* Prec 81.490%	
best acc: 82.130000	
Epoch: [72][0/391] Time 0.308 (0.308)	Data 0.264 (0.264) Loss
0.4864 (0.4864) Prec 81.250% (81.250%)	
Epoch: [72][100/391] Time 0.053 (0.055)	Data 0.001 (0.004) Loss
0.5835 (0.4545) Prec 79.688% (84.097%)	
Epoch: [72][200/391] Time 0.056 (0.054)	Data 0.002 (0.003) Loss
0.5200 (0.4645) Prec 82.812% (83.967%)	
Epoch: [72][300/391] Time 0.049 (0.054)	Data 0.001 (0.002) Loss
0.5772 (0.4685) Prec 80.469% (83.853%)	
Validation starts	
Test: [0/79] Time 0.245 (0.245) Loss	0.4580 (0.4580) Prec 85.156%
(85.156%)	
* Prec 81.750%	
best acc: 82.130000	
Epoch: [73][0/391] Time 0.265 (0.265)	Data 0.222 (0.222) Loss
0.4321 (0.4321) Prec 84.375% (84.375%)	

0.470 (0.4682) Prec 80.469% (88.710%) Epoch: [73] [200/931] Time 0.050 (0.054) Data 0.002 (0.003) Loss 0.4282 (0.4719) Prec 87.500% (83.621%) Epoch: [73] [300/931] Time 0.053 (0.054) Data 0.001 (0.002) Loss 0.4409 (0.4694) Prec 86.719% (83.731%) Validation starts Test: [0/79] Time 0.218 (0.218) Loss 0.5312 (0.5312) Prec 82.031% (82.031%) * Prec 79.770% best acc: 82.130000 Epoch: [74] [0/391] Time 0.320 (0.320) Data 0.269 (0.269) Loss 0.3194 (0.3194) Prec 89.062% (89.062%) Epoch: [74] [100/391] Time 0.052 (0.055) Data 0.002 (0.004) Loss 0.3359 (0.4700) Prec 87.500% (83.803%) Epoch: [74] [200/391] Time 0.052 (0.055) Data 0.002 (0.003) Loss 0.5362 (0.4802) Prec 83.594% (83.570%) Epoch: [74] [300/391] Time 0.053 (0.054) Data 0.001 (0.003) Loss 0.4095 (0.4837) Prec 85.938% (83.495%) Validation starts Test: [0/79] Time 0.247 (0.247) Loss 0.3801 (0.3801) Prec 90.625% (90.625%) * Prec 81.260% best acc: 82.130000 Epoch: [75] [100/391] Time 0.054 (0.055) Data 0.002 (0.004) Loss 0.4804 (0.4849) Prec 82.031% (82.031%) Epoch: [75] [100/391] Time 0.054 (0.055) Data 0.002 (0.004) Loss 0.4804 (0.4849) Prec 82.031% (82.031%) Epoch: [75] [100/391] Time 0.054 (0.055) Data 0.002 (0.004) Loss 0.4816 (0.4765) Prec 83.594% (83.640%) Epoch: [75] [300/391] Time 0.054 (0.056) Data 0.002 (0.004) Loss 0.4516 (0.4765) Prec 83.594% (83.640%) Epoch: [75] [300/391] Time 0.053 (0.054) Data 0.002 (0.002) Loss 0.3846 (0.4769) Prec 84.375% (83.749%) Validation starts Test: [0/79] Time 0.232 (0.232) Loss 0.4615 (0.4615) Prec 83.594% (83.594%) Epoch: [76] [100/391] Time 0.053 (0.054) Data 0.002 (0.003) Loss 0.4516 (0.4160) Prec 83.594% (83.594%) Epoch: [76] [100/391] Time 0.053 (0.054) Data 0.002 (0.003) Loss 0.4516 (0.4160) Prec 83.594% (83.594%) Epoch: [76] [100/391] Time 0.053 (0.054) Data 0.002 (0.003) Loss 0.4506 (0.4160) Prec 83.594% (83.594%) Epoch: [76] [100/391] Time 0.053 (0.054) Data 0.002 (0.003) Loss 0.4570 (0.4647) Prec 75.781% (84.021%) Epoch: [76] [100/391] Time 0.053 (0.054) Data 0.002 (0.003) Loss 0.4374 (0.4566) Prec 84.375% (84.	Epoch: [73] [100/391] Time 0.054 (0.055)	Data 0.001 (0.004) Loss
Epoch: [73] [300/391]	-	Data 0.002 (0.003) Loss
Test: [0/79]	Epoch: [73][300/391] Time 0.053 (0.054) 0.4409 (0.4694) Prec 86.719% (83.731%)	Data 0.001 (0.002) Loss
# Prec 79.770% best acc: 82.130000 Epoch: [74] [0/391]	Test: [0/79] Time 0.218 (0.218) Loss	0.5312 (0.5312) Prec 82.031%
Epoch: [74] [0/391]		
Epoch: [74] [0/391]	best acc: 82.130000	
Epoch: [74] [100/391]	Epoch: [74][0/391] Time 0.320 (0.320)	Data 0.269 (0.269) Loss
Epoch: [74] [200/391]	Epoch: [74][100/391] Time 0.054 (0.056)	Data 0.002 (0.004) Loss
No. Prec \$3.594% (83.570%) Epoch: [74][300/391] Time 0.053 (0.054) Data 0.001 (0.003) Loss 0.4095 (0.4837) Prec \$5.938% (83.495%) Validation starts Test: [0/79] Time 0.247 (0.247) Loss 0.3801 (0.3801) Prec 90.625% (90.625%) * Prec 81.260% * Pr		
Epoch: [74][300/391] Time 0.053 (0.054) Data 0.001 (0.003) Loss 0.4095 (0.4837) Prec 85.938% (83.495%) Validation starts Test: [0/79] Time 0.247 (0.247) Loss 0.3801 (0.3801) Prec 90.625% (90.625%) * Prec 81.260% best acc: 82.130000 Epoch: [75][6/391] Time 0.273 (0.273) Data 0.226 (0.226) Loss 0.4849 (0.4849) Prec 82.031% (82.031%) Epoch: [75][100/391] Time 0.054 (0.055) Data 0.002 (0.004) Loss 0.4727 (0.4771) Prec 82.812% (83.803%) Epoch: [75][200/391] Time 0.051 (0.054) Data 0.004 (0.003) Loss 0.3866 (0.4769) Prec 83.594% (83.640%) Epoch: [75][300/391] Time 0.053 (0.054) Data 0.002 (0.002) Loss 0.3866 (0.4769) Prec 84.375% (83.749%) Validation starts Test: [0/79] Time 0.232 (0.232) Loss 0.4615 (0.4615) Prec 83.594% (83.594%) * Prec 80.850% best acc: 82.130000 Epoch: [76][0/391] Time 0.053 (0.054) Data 0.0186 (0.186) Loss 0.4374 (0.4566) Prec 83.594% (83.594%) Epoch: [76][100/391] Time 0.053 (0.055) Data 0.001 (0.004) Loss 0.4374 (0.4566) Prec 84.375% (84.213%) Epoch: [76][100/391] Time 0.055 (0.054) Data 0.002 (0.003) Loss 0.4374 (0.4566) Prec 84.375% (84.213%) Epoch: [76][300/391] Time 0.055 (0.054) Data 0.002 (0.003) Loss 0.4374 (0.4566) Prec 84.375% (84.213%) Epoch: [76][300/391] Time 0.055 (0.054) Data 0.002 (0.003) Loss 0.5707 (0.4647) Prec 75.781% (84.021%) Epoch: [76][300/391] Time 0.053 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 75.781% (84.021%) Epoch: [76][300/391] Time 0.053 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 75.781% (84.021%) Epoch: [76][300/391] Time 0.053 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 75.781% (84.021%)	-	Data 0.002 (0.003) Loss
Validation starts Test: [0/79] Time 0.247 (0.247) Loss 0.3801 (0.3801) Prec 90.625% (90.625%) * Prec 81.260% best acc: 82.130000 Epoch: [75][0/391] Time 0.273 (0.273) Data 0.226 (0.226) Loss 0.4849 (0.4849) Prec 82.031% (82.031%) Epoch: [75][100/391] Time 0.054 (0.055) Data 0.002 (0.004) Loss 0.4727 (0.4771) Prec 82.812% (83.803%) Epoch: [75][200/391] Time 0.051 (0.054) Data 0.004 (0.003) Loss 0.4516 (0.4785) Prec 83.594% (83.640%) Epoch: [75][300/391] Time 0.051 (0.054) Data 0.002 (0.002) Loss 0.3846 (0.4769) Prec 84.375% (83.749%) Validation starts Test: [0/79] Time 0.232 (0.232) Loss 0.4615 (0.4615) Prec 83.594% (83.594%) * Prec 80.850% best acc: 82.130000 Epoch: [76][0/391] Time 0.233 (0.233) Data 0.186 (0.186) Loss 0.4150 (0.4150) Prec 83.594% (83.594%) Epoch: [76][100/391] Time 0.053 (0.055) Data 0.001 (0.004) Loss 0.4374 (0.4566) Prec 84.375% (84.213%) Epoch: [76][100/391] Time 0.053 (0.055) Data 0.001 (0.004) Loss 0.5707 (0.4647) Prec 75.781% (84.021%) Epoch: [76][300/391] Time 0.055 (0.054) Data 0.002 (0.003) Loss 0.5707 (0.4647) Prec 75.781% (84.021%) Epoch: [76][300/391] Time 0.055 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 75.781% (84.021%) Epoch: [76][300/391] Time 0.055 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 75.781% (84.021%) Epoch: [76][300/391] Time 0.055 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 75.781% (84.021%) Epoch: [76][300/391] Time 0.055 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 75.781% (84.021%) Epoch: [76][300/391] Time 0.055 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 75.781% (84.021%) Epoch: [76][300/391] Time 0.055 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 75.781% (84.021%) Epoch: [76][300/391] Time 0.055 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 75.781% (84.021%) Epoch: [76][300/391] Time 0.055 (0.054) Data 0.002 (0.002) Epoch: [7		
Test: [0/79] Time 0.247 (0.247) Loss 0.3801 (0.3801) Prec 90.625% (90.625%) * Prec 81.260% best acc: 82.130000 Epoch: [75] [0/391] Time 0.273 (0.273) Data 0.226 (0.226) Loss 0.4849 (0.4849) Prec 82.031% (82.031%) Epoch: [75] [100/391] Time 0.054 (0.055) Data 0.002 (0.004) Loss 0.4727 (0.4771) Prec 82.812% (83.803%) Epoch: [75] [200/391] Time 0.051 (0.054) Data 0.004 (0.003) Loss 0.4516 (0.4785) Prec 83.594% (83.640%) Epoch: [75] [300/391] Time 0.051 (0.054) Data 0.002 (0.002) Loss 0.3846 (0.4769) Prec 84.375% (83.749%) Validation starts Test: [0/79] Time 0.232 (0.232) Loss 0.4615 (0.4615) Prec 83.594% (83.594%) * Prec 80.850% best acc: 82.130000 Epoch: [76] [0/391] Time 0.233 (0.233) Data 0.186 (0.186) Loss 0.4150 (0.4150) Prec 83.594% (83.594%) * Prec 80.850% best acc: 82.130000 Epoch: [76] [0/391] Time 0.053 (0.055) Data 0.001 (0.004) Loss 0.4374 (0.4566) Prec 84.375% (84.213%) Epoch: [76] [100/391] Time 0.053 (0.055) Data 0.001 (0.004) Loss 0.4374 (0.4566) Prec 84.375% (84.213%) Epoch: [76] [300/391] Time 0.055 (0.054) Data 0.002 (0.003) Loss 0.5707 (0.4647) Prec 75.781% (84.021%) Epoch: [76] [300/391] Time 0.055 (0.054) Data 0.002 (0.003) Loss 0.6233 (0.4677) Prec 75.781% (84.021%) Epoch: [76] [300/391] Time 0.055 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 75.781% (84.021%) Epoch: [76] [300/391] Time 0.055 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 75.781% (84.021%) Epoch: [76] [300/391] Time 0.055 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 75.781% (84.021%) Epoch: [76] [300/391] Time 0.055 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 75.781% (84.021%) Epoch: [76] [300/391] Time 0.055 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 75.781% (84.021%) Epoch: [76] [300/391] Time 0.055 (0.054) Data 0.002 (0.002) Epoch: [76] [300/391] Time 0.055 (0.054) Data 0.002 (0.002) Epoch: [76] [300/391] Time 0.055 (0.054) Data 0.002 (0.002) Epoch: [76] [300/391] Time 0.055 (0.054) Data 0.002 (0.002) Epoch: [76] [300/391] Time 0.055 (0.054) Data 0.002 (0.002) Epoch: [76] [300/39	•	Data 0.001 (0.003) Loss
Time 0.247 (0.247) Loss 0.3801 (0.3801) Prec 90.625% (90.625%) * Prec 81.260% best acc: 82.130000 Epoch: [75] [0/391] Time 0.273 (0.273) Data 0.226 (0.226) Loss 0.4849 (0.4849) Prec 82.031% (82.031%) Epoch: [75] [100/391] Time 0.054 (0.055) Data 0.002 (0.004) Loss 0.4727 (0.4771) Prec 82.812% (83.803%) Epoch: [75] [200/391] Time 0.051 (0.054) Data 0.004 (0.003) Loss 0.4516 (0.4785) Prec 83.594% (83.640%) Epoch: [75] [300/391] Time 0.053 (0.054) Data 0.002 (0.002) Loss 0.3846 (0.4769) Prec 84.375% (83.749%) Validation starts Test: [0/79] Time 0.232 (0.232) Loss 0.4615 (0.4615) Prec 83.594% (83.594%) * Prec 80.850% best acc: 82.130000 Epoch: [76] [0/391] Time 0.233 (0.233) Data 0.186 (0.186) Loss 0.4150 (0.4150) Prec 83.594% (83.594%) Epoch: [76] [100/391] Time 0.053 (0.055) Data 0.001 (0.004) Loss 0.4374 (0.4566) Prec 84.375% (84.213%) Epoch: [76] [200/391] Time 0.053 (0.054) Data 0.002 (0.003) Loss 0.5707 (0.4667) Prec 75.781% (84.021%) Epoch: [76] [300/391] Time 0.053 (0.054) Data 0.002 (0.003) Loss 0.5707 (0.4667) Prec 75.781% (84.021%) Epoch: [76] [300/391] Time 0.053 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 75.781% (84.021%) Epoch: [76] [300/391] Time 0.053 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 75.781% (84.021%) Epoch: [76] [300/391] Time 0.053 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 75.896% (84.030%)		
* Prec 81.260% best acc: 82.130000 Epoch: [75] [0/391]		
best acc: 82.130000 Epoch: [75] [0/391]		0.3801 (0.3801) Prec 90.625%
best acc: 82.130000 Epoch: [75] [0/391] Time 0.273 (0.273) Data 0.226 (0.226) Loss 0.4849 (0.4849) Prec 82.031% (82.031%) Epoch: [75] [100/391] Time 0.054 (0.055) Data 0.002 (0.004) Loss 0.4727 (0.4771) Prec 82.812% (83.803%) Epoch: [75] [200/391] Time 0.051 (0.054) Data 0.004 (0.003) Loss 0.4516 (0.4785) Prec 83.594% (83.640%) Epoch: [75] [300/391] Time 0.053 (0.054) Data 0.002 (0.002) Loss 0.3846 (0.4769) Prec 84.375% (83.749%) Validation starts Test: [0/79] Time 0.232 (0.232) Loss 0.4615 (0.4615) Prec 83.594% (83.594%) * Prec 80.850% best acc: 82.130000 Epoch: [76] [0/391] Time 0.233 (0.233) Data 0.186 (0.186) Loss Epoch: [76] [100/391] Time 0.053 (0.055) Data 0.001 (0.004) Loss 0.4150 (0.4150) Prec 84.375% (84.213%) Epoch: [76] [200/391] Time 0.055 (0.054) Data 0.002 (0.003) Loss 0.5707 (0.4647) Prec 75.781% (84.021%) Epoch: [76] [300/391] Time 0.053 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 78.906% (84.030%) Validation starts Time 0.240 (0		
Epoch: [75] [0/391] Time 0.273 (0.273) Data 0.226 (0.226) Loss 0.4849 (0.4849) Prec 82.031% (82.031%)		
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Epoch: [75] [100/391]	-	Data 0.226 (0.226) Loss
0.4727 (0.4771) Prec 82.812% (83.803%) Epoch: [75] [200/391] Time 0.051 (0.054) Data 0.004 (0.003) Loss 0.4516 (0.4785) Prec 83.594% (83.640%) Epoch: [75] [300/391] Time 0.053 (0.054) Data 0.002 (0.002) Loss 0.3846 (0.4769) Prec 84.375% (83.749%) Validation starts Test: [0/79] Time 0.232 (0.232) Loss 0.4615 (0.4615) Prec 83.594% (83.594%) * Prec 80.850% best acc: 82.130000 Epoch: [76] [0/391] Time 0.233 (0.233) Data 0.186 (0.186) Loss 0.4150 (0.4150) Prec 83.594% (83.594%) Epoch: [76] [100/391] Time 0.053 (0.055) Data 0.001 (0.004) Loss 0.4374 (0.4566) Prec 84.375% (84.213%) Epoch: [76] [200/391] Time 0.055 (0.054) Data 0.002 (0.003) Loss 0.5707 (0.4647) Prec 75.781% (84.021%) Epoch: [76] [300/391] Time 0.053 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 78.906% (84.030%) Validation starts Test: [0/79] Time 0.240 (0.240) Loss 0.4371 (0.4371) Prec 89.062%		
Epoch: [75] [200/391] Time 0.051 (0.054) Data 0.004 (0.003) Loss 0.4516 (0.4785) Prec 83.594% (83.640%) Epoch: [75] [300/391] Time 0.053 (0.054) Data 0.002 (0.002) Loss 0.3846 (0.4769) Prec 84.375% (83.749%) Validation starts Test: [0/79] Time 0.232 (0.232) Loss 0.4615 (0.4615) Prec 83.594% (83.594%) * Prec 80.850% best acc: 82.130000 Epoch: [76] [0/391] Time 0.233 (0.233) Data 0.186 (0.186) Loss 0.4150 (0.4150) Prec 83.594% (83.594%) Epoch: [76] [100/391] Time 0.053 (0.055) Data 0.001 (0.004) Loss 0.4374 (0.4566) Prec 84.375% (84.213%) Epoch: [76] [200/391] Time 0.055 (0.054) Data 0.002 (0.003) Loss 0.5707 (0.4647) Prec 75.781% (84.021%) Epoch: [76] [300/391] Time 0.053 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 78.906% (84.030%) Validation starts Test: [0/79] Time 0.240 (0.240) Loss 0.4371 (0.4371) Prec 89.062%	•	Data 0.002 (0.004) Loss
0.4516 (0.4785)		
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Validation starts Test: [0/79] Time 0.232 (0.232) Loss 0.4615 (0.4615) Prec 83.594% (83.594%) * Prec 80.850% best acc: 82.130000 Epoch: [76] [0/391] Time 0.233 (0.233) Data 0.186 (0.186) Loss 0.4150 (0.4150) Prec 83.594% (83.594%) Epoch: [76] [100/391] Time 0.053 (0.055) Data 0.001 (0.004) Loss 0.4374 (0.4566) Prec 84.375% (84.213%) Epoch: [76] [200/391] Time 0.055 (0.054) Data 0.002 (0.003) Loss 0.5707 (0.4647) Prec 75.781% (84.021%) Epoch: [76] [300/391] Time 0.053 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 78.906% (84.030%) Validation starts Test: [0/79] Time 0.240 (0.240) Loss 0.4371 (0.4371) Prec 89.062%		
Validation starts Test: [0/79]	Epoch: [75][300/391] Time 0.053 (0.054)	Data 0.002 (0.002) Loss
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* Prec 80.850% best acc: 82.130000 Epoch: [76] [0/391]	Validation starts	
* Prec 80.850% best acc: 82.130000 Epoch: [76][0/391] Time 0.233 (0.233) Data 0.186 (0.186) Loss 0.4150 (0.4150) Prec 83.594% (83.594%) Epoch: [76][100/391] Time 0.053 (0.055) Data 0.001 (0.004) Loss 0.4374 (0.4566) Prec 84.375% (84.213%) Epoch: [76][200/391] Time 0.055 (0.054) Data 0.002 (0.003) Loss 0.5707 (0.4647) Prec 75.781% (84.021%) Epoch: [76][300/391] Time 0.053 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 78.906% (84.030%) Validation starts Test: [0/79] Time 0.240 (0.240) Loss 0.4371 (0.4371) Prec 89.062%	Test: [0/79] Time 0.232 (0.232) Loss	0.4615 (0.4615) Prec 83.594%
best acc: 82.130000 Epoch: [76][0/391] Time 0.233 (0.233) Data 0.186 (0.186) Loss 0.4150 (0.4150) Prec 83.594% (83.594%) Epoch: [76][100/391] Time 0.053 (0.055) Data 0.001 (0.004) Loss 0.4374 (0.4566) Prec 84.375% (84.213%) Epoch: [76][200/391] Time 0.055 (0.054) Data 0.002 (0.003) Loss 0.5707 (0.4647) Prec 75.781% (84.021%) Epoch: [76][300/391] Time 0.053 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 78.906% (84.030%) Validation starts Test: [0/79] Time 0.240 (0.240) Loss 0.4371 (0.4371) Prec 89.062%	(83.594%)	
Epoch: [76][0/391] Time 0.233 (0.233) Data 0.186 (0.186) Loss 0.4150 (0.4150) Prec 83.594% (83.594%) Epoch: [76][100/391] Time 0.053 (0.055) Data 0.001 (0.004) Loss 0.4374 (0.4566) Prec 84.375% (84.213%) Epoch: [76][200/391] Time 0.055 (0.054) Data 0.002 (0.003) Loss 0.5707 (0.4647) Prec 75.781% (84.021%) Epoch: [76][300/391] Time 0.053 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 78.906% (84.030%) Validation starts Test: [0/79] Time 0.240 (0.240) Loss 0.4371 (0.4371) Prec 89.062%	* Prec 80.850%	
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Epoch: [76][100/391] Time 0.053 (0.055) Data 0.001 (0.004) Loss 0.4374 (0.4566) Prec 84.375% (84.213%) Epoch: [76][200/391] Time 0.055 (0.054) Data 0.002 (0.003) Loss 0.5707 (0.4647) Prec 75.781% (84.021%) Epoch: [76][300/391] Time 0.053 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 78.906% (84.030%) Validation starts Test: [0/79] Time 0.240 (0.240) Loss 0.4371 (0.4371) Prec 89.062%	Epoch: [76] [0/391] Time 0.233 (0.233)	Data 0.186 (0.186) Loss
0.4374 (0.4566) Prec 84.375% (84.213%) Epoch: [76] [200/391] Time 0.055 (0.054) Data 0.002 (0.003) Loss 0.5707 (0.4647) Prec 75.781% (84.021%) Epoch: [76] [300/391] Time 0.053 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 78.906% (84.030%) Validation starts Test: [0/79] Time 0.240 (0.240) Loss 0.4371 (0.4371) Prec 89.062%	0.4150 (0.4150) Prec 83.594% (83.594%)	
Epoch: [76] [200/391] Time 0.055 (0.054) Data 0.002 (0.003) Loss 0.5707 (0.4647) Prec 75.781% (84.021%) Epoch: [76] [300/391] Time 0.053 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 78.906% (84.030%) Validation starts Test: [0/79] Time 0.240 (0.240) Loss 0.4371 (0.4371) Prec 89.062%	Epoch: [76][100/391] Time 0.053 (0.055)	Data 0.001 (0.004) Loss
0.5707 (0.4647) Prec 75.781% (84.021%) Epoch: [76][300/391] Time 0.053 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 78.906% (84.030%) Validation starts Test: [0/79] Time 0.240 (0.240) Loss 0.4371 (0.4371) Prec 89.062%	0.4374 (0.4566) Prec 84.375% (84.213%)	
Epoch: [76][300/391] Time 0.053 (0.054) Data 0.002 (0.002) Loss 0.6233 (0.4677) Prec 78.906% (84.030%) Validation starts Test: [0/79] Time 0.240 (0.240) Loss 0.4371 (0.4371) Prec 89.062%	Epoch: [76][200/391] Time 0.055 (0.054)	Data 0.002 (0.003) Loss
0.6233 (0.4677) Prec 78.906% (84.030%) Validation starts Test: [0/79] Time 0.240 (0.240) Loss 0.4371 (0.4371) Prec 89.062%	0.5707 (0.4647) Prec 75.781% (84.021%)	
Validation starts Test: [0/79] Time 0.240 (0.240) Loss 0.4371 (0.4371) Prec 89.062%	Epoch: [76][300/391] Time 0.053 (0.054)	Data 0.002 (0.002) Loss
Test: [0/79] Time 0.240 (0.240) Loss 0.4371 (0.4371) Prec 89.062%	0.6233 (0.4677) Prec 78.906% (84.030%)	
	Validation starts	
(89.062%)	Test: [0/79] Time 0.240 (0.240) Loss	0.4371 (0.4371) Prec 89.062%
	(89.062%)	

* Prec 81.620%	
best acc: 82.130000	
Epoch: [77] [0/391] Time 0.280 (0.280)	Data 0.233 (0.233) Loss
0.4138 (0.4138) Prec 87.500% (87.500%)	
Epoch: [77] [100/391] Time 0.053 (0.056)	Data 0.001 (0.004) Loss
0.4838 (0.4714) Prec 84.375% (83.571%)	
Epoch: [77] [200/391] Time 0.051 (0.054)	Data 0.002 (0.003) Loss
0.4526 (0.4686) Prec 83.594% (83.811%)	
Epoch: [77] [300/391] Time 0.053 (0.054)	Data 0.001 (0.002) Loss
0.4684 (0.4708) Prec 85.156% (83.765%)	
Validation starts	
Test: [0/79] Time 0.245 (0.245) Loss	s 0.4533 (0.4533) Prec 83.594%
(83.594%)	
* Prec 80.120%	
best acc: 82.130000	D
Epoch: [78] [0/391] Time 0.287 (0.287)	Data 0.238 (0.238) Loss
0.3842 (0.3842) Prec 87.500% (87.500%)	D
Epoch: [78] [100/391] Time 0.054 (0.057)	Data 0.002 (0.005) Loss
0.5427 (0.4581) Prec 84.375% (84.174%)	D
Epoch: [78] [200/391] Time 0.053 (0.055)	Data 0.002 (0.003) Loss
0.4049 (0.4609) Prec 85.156% (84.060%)	D
Epoch: [78] [300/391] Time 0.052 (0.054)	Data 0.002 (0.003) Loss
0.4603 (0.4652) Prec 84.375% (83.993%)	
Validation starts	
	0 E4E0 (0 E4E0) D 0E 4E0W
Test: [0/79] Time 0.224 (0.224) Loss	s 0.5452 (0.5452) Prec 85.156%
(85.156%)	s 0.5452 (0.5452) Prec 85.156%
(85.156%) * Prec 81.600%	s 0.5452 (0.5452) Prec 85.156%
(85.156%) * Prec 81.600% best acc: 82.130000	
(85.156%) * Prec 81.600% best acc: 82.130000 Epoch: [79] [0/391] Time 0.271 (0.271)	
(85.156%) * Prec 81.600% best acc: 82.130000 Epoch: [79] [0/391] Time 0.271 (0.271) 0.4880 (0.4880) Prec 82.031% (82.031%)	Data 0.221 (0.221) Loss
(85.156%) * Prec 81.600% best acc: 82.130000 Epoch: [79] [0/391] Time 0.271 (0.271) 0.4880 (0.4880) Prec 82.031% (82.031%) Epoch: [79] [100/391] Time 0.053 (0.055)	
(85.156%) * Prec 81.600% best acc: 82.130000 Epoch: [79] [0/391] Time 0.271 (0.271) 0.4880 (0.4880) Prec 82.031% (82.031%) Epoch: [79] [100/391] Time 0.053 (0.055) 0.5008 (0.4696) Prec 82.031% (83.864%)	Data 0.221 (0.221) Loss Data 0.001 (0.004) Loss
(85.156%) * Prec 81.600% best acc: 82.130000 Epoch: [79] [0/391] Time 0.271 (0.271) 0.4880 (0.4880) Prec 82.031% (82.031%) Epoch: [79] [100/391] Time 0.053 (0.055) 0.5008 (0.4696) Prec 82.031% (83.864%) Epoch: [79] [200/391] Time 0.053 (0.054)	Data 0.221 (0.221) Loss Data 0.001 (0.004) Loss
(85.156%) * Prec 81.600% best acc: 82.130000 Epoch: [79] [0/391] Time 0.271 (0.271) 0.4880 (0.4880) Prec 82.031% (82.031%) Epoch: [79] [100/391] Time 0.053 (0.055) 0.5008 (0.4696) Prec 82.031% (83.864%) Epoch: [79] [200/391] Time 0.053 (0.054) 0.4209 (0.4683) Prec 83.594% (83.920%)	Data 0.221 (0.221) Loss Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss
(85.156%) * Prec 81.600% best acc: 82.130000 Epoch: [79] [0/391] Time 0.271 (0.271) 0.4880 (0.4880) Prec 82.031% (82.031%) Epoch: [79] [100/391] Time 0.053 (0.055) 0.5008 (0.4696) Prec 82.031% (83.864%) Epoch: [79] [200/391] Time 0.053 (0.054) 0.4209 (0.4683) Prec 83.594% (83.920%) Epoch: [79] [300/391] Time 0.053 (0.054)	Data 0.221 (0.221) Loss Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss
(85.156%) * Prec 81.600% best acc: 82.130000 Epoch: [79] [0/391] Time 0.271 (0.271) 0.4880 (0.4880) Prec 82.031% (82.031%) Epoch: [79] [100/391] Time 0.053 (0.055) 0.5008 (0.4696) Prec 82.031% (83.864%) Epoch: [79] [200/391] Time 0.053 (0.054) 0.4209 (0.4683) Prec 83.594% (83.920%) Epoch: [79] [300/391] Time 0.053 (0.054) 0.4629 (0.4729) Prec 85.156% (83.799%)	Data 0.221 (0.221) Loss Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss
(85.156%) * Prec 81.600% best acc: 82.130000 Epoch: [79] [0/391] Time 0.271 (0.271) 0.4880 (0.4880) Prec 82.031% (82.031%) Epoch: [79] [100/391] Time 0.053 (0.055) 0.5008 (0.4696) Prec 82.031% (83.864%) Epoch: [79] [200/391] Time 0.053 (0.054) 0.4209 (0.4683) Prec 83.594% (83.920%) Epoch: [79] [300/391] Time 0.053 (0.054) 0.4629 (0.4729) Prec 85.156% (83.799%) Validation starts	Data 0.221 (0.221) Loss Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss Data 0.002 (0.002) Loss
(85.156%) * Prec 81.600% best acc: 82.130000 Epoch: [79] [0/391] Time 0.271 (0.271) 0.4880 (0.4880) Prec 82.031% (82.031%) Epoch: [79] [100/391] Time 0.053 (0.055) 0.5008 (0.4696) Prec 82.031% (83.864%) Epoch: [79] [200/391] Time 0.053 (0.054) 0.4209 (0.4683) Prec 83.594% (83.920%) Epoch: [79] [300/391] Time 0.053 (0.054) 0.4629 (0.4729) Prec 85.156% (83.799%) Validation starts Test: [0/79] Time 0.239 (0.239) Loss	Data 0.221 (0.221) Loss Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss Data 0.002 (0.002) Loss
(85.156%) * Prec 81.600% best acc: 82.130000 Epoch: [79] [0/391] Time 0.271 (0.271) 0.4880 (0.4880) Prec 82.031% (82.031%) Epoch: [79] [100/391] Time 0.053 (0.055) 0.5008 (0.4696) Prec 82.031% (83.864%) Epoch: [79] [200/391] Time 0.053 (0.054) 0.4209 (0.4683) Prec 83.594% (83.920%) Epoch: [79] [300/391] Time 0.053 (0.054) 0.4629 (0.4729) Prec 85.156% (83.799%) Validation starts Test: [0/79] Time 0.239 (0.239) Loss (87.500%)	Data 0.221 (0.221) Loss Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss Data 0.002 (0.002) Loss
(85.156%) * Prec 81.600% best acc: 82.130000 Epoch: [79] [0/391] Time 0.271 (0.271) 0.4880 (0.4880) Prec 82.031% (82.031%) Epoch: [79] [100/391] Time 0.053 (0.055) 0.5008 (0.4696) Prec 82.031% (83.864%) Epoch: [79] [200/391] Time 0.053 (0.054) 0.4209 (0.4683) Prec 83.594% (83.920%) Epoch: [79] [300/391] Time 0.053 (0.054) 0.4629 (0.4729) Prec 85.156% (83.799%) Validation starts Test: [0/79] Time 0.239 (0.239) Loss (87.500%) * Prec 80.920%	Data 0.221 (0.221) Loss Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss Data 0.002 (0.002) Loss
(85.156%) * Prec 81.600% best acc: 82.130000 Epoch: [79] [0/391] Time 0.271 (0.271) 0.4880 (0.4880) Prec 82.031% (82.031%) Epoch: [79] [100/391] Time 0.053 (0.055) 0.5008 (0.4696) Prec 82.031% (83.864%) Epoch: [79] [200/391] Time 0.053 (0.054) 0.4209 (0.4683) Prec 83.594% (83.920%) Epoch: [79] [300/391] Time 0.053 (0.054) 0.4629 (0.4729) Prec 85.156% (83.799%) Validation starts Test: [0/79] Time 0.239 (0.239) Loss (87.500%) * Prec 80.920% best acc: 82.130000	Data 0.221 (0.221) Loss Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss Data 0.002 (0.002) Loss s 0.4370 (0.4370) Prec 87.500%
(85.156%) * Prec 81.600% best acc: 82.130000 Epoch: [79] [0/391] Time 0.271 (0.271) 0.4880 (0.4880) Prec 82.031% (82.031%) Epoch: [79] [100/391] Time 0.053 (0.055) 0.5008 (0.4696) Prec 82.031% (83.864%) Epoch: [79] [200/391] Time 0.053 (0.054) 0.4209 (0.4683) Prec 83.594% (83.920%) Epoch: [79] [300/391] Time 0.053 (0.054) 0.4629 (0.4729) Prec 85.156% (83.799%) Validation starts Test: [0/79] Time 0.239 (0.239) Loss (87.500%) * Prec 80.920% best acc: 82.130000 Epoch: [80] [0/391] Time 0.304 (0.304)	Data 0.221 (0.221) Loss Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss Data 0.002 (0.002) Loss s 0.4370 (0.4370) Prec 87.500%
(85.156%) * Prec 81.600% best acc: 82.130000 Epoch: [79] [0/391] Time 0.271 (0.271) 0.4880 (0.4880) Prec 82.031% (82.031%) Epoch: [79] [100/391] Time 0.053 (0.055) 0.5008 (0.4696) Prec 82.031% (83.864%) Epoch: [79] [200/391] Time 0.053 (0.054) 0.4209 (0.4683) Prec 83.594% (83.920%) Epoch: [79] [300/391] Time 0.053 (0.054) 0.4629 (0.4729) Prec 85.156% (83.799%) Validation starts Test: [0/79] Time 0.239 (0.239) Loss (87.500%) * Prec 80.920% best acc: 82.130000 Epoch: [80] [0/391] Time 0.304 (0.304) 0.3838 (0.3838) Prec 84.375% (84.375%)	Data 0.221 (0.221) Loss Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss Data 0.002 (0.002) Loss s 0.4370 (0.4370) Prec 87.500% Data 0.256 (0.256) Loss
(85.156%) * Prec 81.600% best acc: 82.130000 Epoch: [79] [0/391] Time 0.271 (0.271) 0.4880 (0.4880) Prec 82.031% (82.031%) Epoch: [79] [100/391] Time 0.053 (0.055) 0.5008 (0.4696) Prec 82.031% (83.864%) Epoch: [79] [200/391] Time 0.053 (0.054) 0.4209 (0.4683) Prec 83.594% (83.920%) Epoch: [79] [300/391] Time 0.053 (0.054) 0.4629 (0.4729) Prec 85.156% (83.799%) Validation starts Test: [0/79] Time 0.239 (0.239) Loss (87.500%) * Prec 80.920% best acc: 82.130000 Epoch: [80] [0/391] Time 0.304 (0.304) 0.3838 (0.3838) Prec 84.375% (84.375%) Epoch: [80] [100/391] Time 0.053 (0.055)	Data 0.221 (0.221) Loss Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss Data 0.002 (0.002) Loss s 0.4370 (0.4370) Prec 87.500% Data 0.256 (0.256) Loss
(85.156%) * Prec 81.600% best acc: 82.130000 Epoch: [79] [0/391] Time 0.271 (0.271) 0.4880 (0.4880) Prec 82.031% (82.031%) Epoch: [79] [100/391] Time 0.053 (0.055) 0.5008 (0.4696) Prec 82.031% (83.864%) Epoch: [79] [200/391] Time 0.053 (0.054) 0.4209 (0.4683) Prec 83.594% (83.920%) Epoch: [79] [300/391] Time 0.053 (0.054) 0.4629 (0.4729) Prec 85.156% (83.799%) Validation starts Test: [0/79] Time 0.239 (0.239) Loss (87.500%) * Prec 80.920% best acc: 82.130000 Epoch: [80] [0/391] Time 0.304 (0.304) 0.3838 (0.3838) Prec 84.375% (84.375%) Epoch: [80] [100/391] Time 0.053 (0.055) 0.5549 (0.4721) Prec 79.688% (83.764%)	Data 0.221 (0.221) Loss Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss Data 0.002 (0.002) Loss s 0.4370 (0.4370) Prec 87.500% Data 0.256 (0.256) Loss Data 0.001 (0.004) Loss
(85.156%) * Prec 81.600% best acc: 82.130000 Epoch: [79] [0/391] Time 0.271 (0.271) 0.4880 (0.4880) Prec 82.031% (82.031%) Epoch: [79] [100/391] Time 0.053 (0.055) 0.5008 (0.4696) Prec 82.031% (83.864%) Epoch: [79] [200/391] Time 0.053 (0.054) 0.4209 (0.4683) Prec 83.594% (83.920%) Epoch: [79] [300/391] Time 0.053 (0.054) 0.4629 (0.4729) Prec 85.156% (83.799%) Validation starts Test: [0/79] Time 0.239 (0.239) Loss (87.500%) * Prec 80.920% best acc: 82.130000 Epoch: [80] [0/391] Time 0.304 (0.304) 0.3838 (0.3838) Prec 84.375% (84.375%) Epoch: [80] [100/391] Time 0.053 (0.055) 0.5549 (0.4721) Prec 79.688% (83.764%) Epoch: [80] [200/391] Time 0.053 (0.054)	Data 0.221 (0.221) Loss Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss Data 0.002 (0.002) Loss s 0.4370 (0.4370) Prec 87.500% Data 0.256 (0.256) Loss Data 0.001 (0.004) Loss
(85.156%) * Prec 81.600% best acc: 82.130000 Epoch: [79] [0/391] Time 0.271 (0.271) 0.4880 (0.4880) Prec 82.031% (82.031%) Epoch: [79] [100/391] Time 0.053 (0.055) 0.5008 (0.4696) Prec 82.031% (83.864%) Epoch: [79] [200/391] Time 0.053 (0.054) 0.4209 (0.4683) Prec 83.594% (83.920%) Epoch: [79] [300/391] Time 0.053 (0.054) 0.4629 (0.4729) Prec 85.156% (83.799%) Validation starts Test: [0/79] Time 0.239 (0.239) Loss (87.500%) * Prec 80.920% best acc: 82.130000 Epoch: [80] [0/391] Time 0.304 (0.304) 0.3838 (0.3838) Prec 84.375% (84.375%) Epoch: [80] [100/391] Time 0.053 (0.055) 0.5549 (0.4721) Prec 79.688% (83.764%)	Data 0.221 (0.221) Loss Data 0.001 (0.004) Loss Data 0.001 (0.003) Loss Data 0.002 (0.002) Loss s 0.4370 (0.4370) Prec 87.500% Data 0.256 (0.256) Loss Data 0.001 (0.004) Loss Data 0.002 (0.003) Loss

0.5317 (0.4725) Prec 81.250% (83.749%) Validation starts Test: [0/79] Time 0.233 (0.233) Loss 0.5749 (0.5749) Prec 79.688% (79.688%)* Prec 79.350% best acc: 82.130000 Epoch: [81] [0/391] Time 0.269 (0.269) Data 0.220 (0.220) Loss 0.5479 (0.5479) Prec 78.125% (78.125%) Epoch: [81] [100/391] Time 0.053 (0.055)Data 0.001 (0.004) Loss 0.4007 (0.4628) Prec 88.281% (84.213%) Epoch: [81] [200/391] Time 0.053 (0.054)Data 0.002 (0.003) Loss 0.3902 (0.4655) Prec 87.500% (84.111%) Epoch: [81] [300/391] Time 0.053 (0.054)Data 0.001 (0.002) Loss 0.4490 (0.4698) Prec 85.156% (83.905%) Validation starts Test: [0/79] Time 0.229 (0.229) Loss 0.5489 (0.5489) Prec 77.344% (77.344%)* Prec 81.010% best acc: 82.130000 Epoch: [82] [0/391] Time 0.304 (0.304)Data 0.256 (0.256) Loss 0.4461 (0.4461) Prec 82.812% (82.812%) Epoch: [82] [100/391] Time 0.053 (0.055)Data 0.002 (0.004) Loss 0.5275 (0.4723) Prec 79.688% (83.687%) Epoch: [82] [200/391] Time 0.052 (0.054)Data 0.002 (0.003) Loss 0.5413 (0.4679) Prec 78.125% (83.776%) Epoch: [82] [300/391] Data 0.003 (0.003) Time 0.055 (0.054)Loss 0.5394 (0.4672) Prec 84.375% (83.980%) Validation starts Test: [0/79] Time 0.257 (0.257)Loss 0.5064 (0.5064) Prec 81.250% (81.250%) * Prec 80.440% best acc: 82.130000 Epoch: [83] [0/391] Time 0.283 (0.283) Data 0.230 (0.230) Loss 0.4833 (0.4833) Prec 82.812% (82.812%) Epoch: [83] [100/391] Time 0.054 (0.055)Data 0.001 (0.004) Loss 0.3211 (0.4493) Prec 89.844% (84.553%) Epoch: [83] [200/391] Time 0.053 (0.054)Data 0.001 (0.003) Loss 0.5516 (0.4557) Prec 82.812% (84.091%) Epoch: [83] [300/391] Time 0.053 (0.054)Data 0.002 (0.002) Loss 0.3832 (0.4634) Prec 86.719% (83.908%) Validation starts Test: [0/79] Time 0.230 (0.230) Loss 0.4762 (0.4762) Prec 81.250% (81.250%) * Prec 80.510% best acc: 82.130000 Epoch: [84] [0/391] Time 0.276 (0.276)Data 0.228 (0.228) Loss 0.5727 (0.5727) Prec 79.688% (79.688%) Epoch: [84] [100/391] Time 0.055 (0.055) Data 0.002 (0.004) Loss

0.0550 (0.4505) B	04 4069 (04 4549)		
0.2558 (0.4595) Prec 9		D-+- 0 000	(0.003) Loss
Epoch: [84] [200/391] T 0.3377 (0.4558) Prec 8		Data 0.002	(0.003) Loss
Epoch: [84] [300/391] T		Data 0 001	(0.002) Loss
0.4555 (0.4637) Prec 8		Data 0.001	(0.002) LOSS
Validation starts	00.403% (00.040%)		
Test: [0/79] Time 0.22	27 (0 227) I ogg	0 5255 (0 525)	5) Proc 82 031%
(82.031%)	21 (0.221) LOSS	0.0200 (0.020)
* Prec 81.670%			
best acc: 82.130000			
Epoch: [85] [0/391] T	Time () 201 (() 201)	Data 0 239	(0.239) Loss
0.3498 (0.3498) Prec 8		Data 0.200	(0.200) LOSS
Epoch: [85] [100/391] T		Data 0.002	(0.004) Loss
0.4297 (0.4490) Prec 8		Dava 0.002	(0.001)
Epoch: [85] [200/391] T		Data 0.002	(0.003) Loss
0.4115 (0.4587) Prec 8		Dava 0.002	(0.000)
Epoch: [85] [300/391] T		Data 0.002	(0.002) Loss
0.5103 (0.4609) Prec 8		Data 0.002	(0.002) LOSS
Validation starts	J1.200% (04.100%)		
Test: [0/79] Time 0.20	01 (0 201) Inss	0 5831 (0 583	1) Prec 80 469%
(80.469%)	01 (0.201) 1055	0.0001 (0.000)	1) 1160 00.403%
* Prec 79.370%			
best acc: 82.130000			
Epoch: [86] [0/391] I	Time 0.275 (0.275)	Data 0.229	(0.229) Loss
0.4738 (0.4738) Prec 8		Dava 0.220	(0.220)
Epoch: [86] [100/391] T		Data 0.001	(0.004) Loss
0.4858 (0.4482) Prec 8		Dava 0.001	(0.001)
	Time 0.053 (0.054)	Data 0 002	(0.003) Loss
0.4629 (0.4633) Prec 8		Dava 0.002	(0.000)
Epoch: [86] [300/391] T		Data 0.002	(0.002) Loss
0.5998 (0.4605) Prec 8		2404 0.002	(0.002)
Validation starts	(011100)		
Test: [0/79] Time 0.23	39 (0.239) Loss	0.4733 (0.473)	3) Prec 85.938%
(85.938%)	2007 2007	0.1.00 (0.1.0.	2, 1200 00.000,
* Prec 81.110%			
best acc: 82.130000			
Epoch: [87] [0/391] T	Time 0.308 (0.308)	Data 0.260	(0.260) Loss
0.4326 (0.4326) Prec 8			
	Time 0.053 (0.055)	Data 0.001	(0.004) Loss
0.4932 (0.4589) Prec 8	85.156% (84.499%)		
Epoch: [87][200/391] T		Data 0.002	(0.003) Loss
0.6043 (0.4708) Prec 8			
Epoch: [87] [300/391] T	Time 0.053 (0.054)	Data 0.001	(0.002) Loss
-	90.625% (84.147%)		
Validation starts			
Test: [0/79] Time 0.21	15 (0.215) Loss	0.4661 (0.466)	1) Prec 84.375%
(84.375%)			
* Prec 80.340%			

best acc: 82.130000	
Epoch: [88] [0/391] Time 0.325 (0.325)	Data 0.275 (0.275) Loss
0.5502 (0.5502) Prec 79.688% (79.688%)	Basa 0.210 (0.210) Hobb
Epoch: [88] [100/391] Time 0.052 (0.056)	Data 0.001 (0.004) Loss
0.3603 (0.4571) Prec 85.938% (84.166%)	2000 0.001 (0.001)
Epoch: [88] [200/391] Time 0.053 (0.055)	Data 0.001 (0.003) Loss
0.3742 (0.4562) Prec 84.375% (84.356%)	2000 0.001 (0.000) 2000
Epoch: [88] [300/391] Time 0.054 (0.054)	Data 0.002 (0.002) Loss
0.4840 (0.4614) Prec 80.469% (84.248%)	2404 01002 (01002) 2022
Validation starts	
Test: [0/79] Time 0.275 (0.275) Loss	s 0.4344 (0.4344) Prec 85.938%
(85.938%)	
* Prec 81.410%	
best acc: 82.130000	
Epoch: [89] [0/391] Time 0.308 (0.308)	Data 0.259 (0.259) Loss
0.4352 (0.4352) Prec 85.938% (85.938%)	
Epoch: [89] [100/391] Time 0.054 (0.056)	Data 0.002 (0.004) Loss
0.4131 (0.4650) Prec 86.719% (84.228%)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Epoch: [89] [200/391] Time 0.052 (0.054)	Data 0.003 (0.003) Loss
0.4546 (0.4594) Prec 84.375% (84.258%)	, , , , , , , , , , , , , , , , , , ,
Epoch: [89] [300/391] Time 0.054 (0.054)	Data 0.002 (0.003) Loss
0.4222 (0.4602) Prec 86.719% (84.209%)	(1)
Validation starts	
Test: [0/79] Time 0.235 (0.235) Loss	3 0.6164 (0.6164) Prec 78.125%
(78.125%)	
* Prec 78.490%	
best acc: 82.130000	
Epoch: [90][0/391] Time 0.313 (0.313)	Data 0.259 (0.259) Loss
0.3554 (0.3554) Prec 87.500% (87.500%)	
Epoch: [90][100/391] Time 0.055 (0.057)	Data 0.002 (0.005) Loss
0.5378 (0.4573) Prec 82.812% (84.251%)	
Epoch: [90][200/391] Time 0.053 (0.055)	Data 0.003 (0.004) Loss
0.3190 (0.4661) Prec 87.500% (83.866%)	
Epoch: [90][300/391] Time 0.053 (0.055)	Data 0.002 (0.003) Loss
0.5108 (0.4654) Prec 82.812% (83.957%)	
Validation starts	
Test: [0/79] Time 0.247 (0.247) Loss	0.5151 (0.5151) Prec 81.250%
(81.250%)	
* Prec 82.360%	
best acc: 82.360000	
Epoch: [91][0/391] Time 0.355 (0.355)	Data 0.306 (0.306) Loss
0.4970 (0.4970) Prec 82.031% (82.031%)	
Epoch: [91][100/391] Time 0.053 (0.056)	Data 0.001 (0.005) Loss
0.4809 (0.4471) Prec 81.250% (84.886%)	
Epoch: [91][200/391] Time 0.054 (0.055)	Data 0.002 (0.003) Loss
0.5636 (0.4596) Prec 82.812% (84.336%)	
Epoch: [91][300/391] Time 0.054 (0.055)	Data 0.002 (0.003) Loss
0.4210 (0.4570) Prec 84.375% (84.476%)	

Validation starts Test: [0/79] Time 0.279 (0.279) (82.812%) * Prec 81.360%	Loss 0.5366	(0.5366	3) Prec	82.812%
best acc: 82.360000				
Epoch: [92][0/391] Time 0.310 (0.31	.0) Data	a 0.261	(0.261)	Loss
0.5009 (0.5009) Prec 79.688% (79.688%	5)			
Epoch: [92][100/391] Time 0.053 (0.05	6) Data	a 0.002	(0.004)	Loss
0.6565 (0.4551) Prec 78.906% (84.182%				
Epoch: [92][200/391] Time 0.059 (0.05		a 0.002	(0.003)	Loss
0.5513 (0.4561) Prec 82.031% (84.212%				
Epoch: [92] [300/391] Time 0.053 (0.05		a 0.002	(0.002)	Loss
0.4119 (0.4560) Prec 84.375% (84.224%	,)			
Validation starts		(0.000) D	07 500%
Test: [0/79] Time 0.251 (0.251)	Loss 0.3963	(0.3963	3) Prec	87.500%
(87.500%) * Prec 82.790%				
best acc: 82.790000				
Epoch: [93] [0/391] Time 0.318 (0.31	8) Dat:	0 267	(0.267)	Loss
0.3864 (0.3864) Prec 87.500% (87.500%)		0.201	(0.201)	довь
Epoch: [93] [100/391] Time 0.053 (0.05		a 0.001	(0.004)	Loss
0.4055 (0.4571) Prec 86.719% (84.290%)			(0.001)	
Epoch: [93][200/391] Time 0.053 (0.05		a 0.001	(0.003)	Loss
0.3985 (0.4627) Prec 85.156% (84.157%				
Epoch: [93][300/391] Time 0.053 (0.05		a 0.001	(0.003)	Loss
0.3416 (0.4646) Prec 88.281% (83.980%				
Validation starts				
Test: [0/79] Time 0.230 (0.230)	Loss 0.4451	(0.4451	l) Prec	85.938%
(85.938%)				
* Prec 82.130%				
best acc: 82.790000				
Epoch: [94] [0/391] Time 0.270 (0.27		a 0.220	(0.220)	Loss
0.4058 (0.4058) Prec 85.156% (85.156%)				
Epoch: [94] [100/391] Time 0.054 (0.05		a 0.002	(0.004)	Loss
0.5120 (0.4614) Prec 82.031% (84.197%			(0.000)	_
Epoch: [94] [200/391] Time 0.053 (0.05		a 0.002	(0.003)	Loss
0.3163 (0.4528) Prec 87.500% (84.309%		. 0 000	(0,000)	T
Epoch: [94] [300/391] Time 0.052 (0.05		a 0.002	(0.002)	Loss
0.4296 (0.4515) Prec 87.500% (84.471% Validation starts	ı.)			
Test: [0/79] Time 0.262 (0.262)	Ioss 0 5852	(0.5852)) Prec	78 125%
(78.125%)	1055 0.0002	(0.0002	2) 1160	10.120%
* Prec 79.500%				
best acc: 82.790000				
Epoch: [95] [0/391] Time 0.318 (0.31	.8) Data	a 0.263	(0.263)	Loss
0.4895 (0.4895) Prec 81.250% (81.250%			•	
Epoch: [95][100/391] Time 0.053 (0.05		a 0.001	(0.004)	Loss
0.5336 (0.4487) Prec 82.031% (84.723%	,)			

Epoch: [95][200/391] Time 0.053 (0.0		Data	0.001	(0.003)	Loss
0.3743 (0.4536) Prec 87.500% (84.604 Epoch: [95][300/391] Time 0.053 (0.0		Data	0.001	(0.002)	Loss
0.5602 (0.4556) Prec 78.906% (84.357	%)				
Validation starts					
Test: [0/79] Time 0.223 (0.223)	Loss	0.4988	(0.4988	B) Prec	83.594%
(83.594%)					
* Prec 80.680%					
best acc: 82.790000					
Epoch: [96] [0/391] Time 0.282 (0.2		Data	0.234	(0.234)	Loss
0.4181 (0.4181) Prec 85.938% (85.938		_		()	_
Epoch: [96] [100/391] Time 0.052 (0.0		Data	0.002	(0.004)	Loss
0.4488 (0.4479) Prec 85.156% (84.592		. .		(0.000)	_
Epoch: [96] [200/391] Time 0.053 (0.0		Data	0.001	(0.003)	Loss
0.4680 (0.4590) Prec 83.594% (84.126				(_
Epoch: [96] [300/391] Time 0.054 (0.0		Data	0.001	(0.002)	Loss
0.5337 (0.4566) Prec 79.688% (84.157	%)				
Validation starts		0 4054	(0.405)	2) 5	04 075%
Test: [0/79] Time 0.225 (0.225)	Loss	0.4856	(0.4856	o) Prec	84.375%
(84.375%)					
* Prec 78.970%					
best acc: 82.790000	02)	D-+-	0 075	(0.075)	T
Epoch: [97] [0/391] Time 0.323 (0.3		рата	0.275	(0.275)	Loss
0.5845 (0.5845) Prec 77.344% (77.344		Data	0 001	(0, 004)	T
Epoch: [97] [100/391] Time 0.053 (0.0		Data	0.001	(0.004)	Loss
0.6507 (0.4544) Prec 78.906% (84.228		D-+-	0 001	(0,000)	T
Epoch: [97] [200/391] Time 0.053 (0.0		Data	0.001	(0.003)	Loss
0.4969 (0.4540) Prec 83.594% (84.223		Data	0 001	(0,000)	T
Epoch: [97] [300/391] Time 0.053 (0.0		Data	0.001	(0.002)	Loss
0.3228 (0.4556) Prec 89.844% (84.243 Validation starts	10)				
Test: [0/79] Time 0.285 (0.285)	Logg	0 5005	(0 500	5) Proc	83 504%
(83.594%)	LUSS	0.5095	(0.505) FIEC	03.334%
* Prec 82.650%					
best acc: 82.790000					
Epoch: [98] [0/391] Time 0.322 (0.3	22)	Da+a	0 277	(0.277)	Loss
0.4959 (0.4959) Prec 79.688% (79.688		Dava	0.211	(0.211)	ПОВВ
Epoch: [98] [100/391] Time 0.053 (0.0		Data	0 002	(0.004)	Loss
0.3675 (0.4373) Prec 87.500% (84.909		Dava	0.002	(0.001)	ДОВВ
Epoch: [98] [200/391] Time 0.053 (0.0		Data	0.002	(0.003)	Loss
0.4427 (0.4499) Prec 82.812% (84.422		Dava	. 0.002	(0.000)	2000
Epoch: [98] [300/391] Time 0.055 (0.0		Data	0.002	(0.003)	Loss
0.4909 (0.4511) Prec 82.812% (84.313		2		(0.000)	
Validation starts					
Test: [0/79] Time 0.245 (0.245)	Loss	0.5035	(0.503	5) Prec	80.469%
(80.469%)				-	· - • •
* Prec 81.620%					

best acc: 82.790000

```
Epoch: [99] [0/391]
                             Time 0.328 (0.328)
                                                      Data 0.277 (0.277)
                                                                              Loss
     0.3654 (0.3654)
                        Prec 88.281% (88.281%)
     Epoch: [99] [100/391]
                             Time 0.053 (0.056)
                                                      Data 0.002 (0.004)
                                                                              Loss
     0.4769 (0.4506)
                        Prec 85.156% (84.197%)
                                                     Data 0.002 (0.003)
     Epoch: [99] [200/391]
                             Time 0.057 (0.054)
                                                                              Loss
     0.6086 (0.4494)
                        Prec 78.906% (84.332%)
     Epoch: [99] [300/391]
                             Time 0.053 (0.054)
                                                     Data 0.001 (0.003)
                                                                              Loss
     0.5036 (0.4555)
                        Prec 86.719% (84.204%)
     Validation starts
     Test: [0/79]
                     Time 0.237 (0.237)
                                             Loss 0.4666 (0.4666)
                                                                      Prec 84.375%
     (84.375%)
      * Prec 82.150%
     best acc: 82.790000
[15]: copied_model.cuda()
      copied_model.eval()
      test_loss = 0
      correct = 0
      with torch.no_grad():
          for data, target in testloader:
              data, target = data.to(device), target.to(device) # loading to GPU
              output = copied_model(data) # use copied_model instead of model
              pred = output.argmax(dim=1, keepdim=True)
              correct += pred.eq(target.view_as(pred)).sum().item()
      test_loss /= len(testloader.dataset)
      print('\nTest set: Accuracy: {}/{} ({:.0f}%)\n'.format(
              correct, len(testloader.dataset),
              100. * correct / len(testloader.dataset)))
```

Test set: Accuracy: 8215/10000 (82%)

[]: