_vgg16_float_os_prune

December 3, 2024

```
[1]: import os
     import time
     import shutil
     import torch
     import torch.nn as nn
     import torchvision
     import torchvision.transforms as transforms
     from models import *
     from models.prune_util import *
     import os
     os.environ["CUDA_DEVICE_ORDER"]="PCI_BUS_ID"
     os.environ["CUDA_VISIBLE_DEVICES"]="0"
     import gc
     gc.collect()
     torch.cuda.empty_cache()
     global best_prec
     FULL_MODEL_PATH = f"result/VGG16_Full/model_best.pth.tar"
     batch_size = 64
     model_name = f"VGG16_new_os_iter_prune_0.78"
     fdir = 'result/' + model_name
     model = VGG16()
     checkpoint = torch.load(FULL_MODEL_PATH)
     model.load_state_dict(checkpoint['state_dict'])
     model.cuda()
     device = torch.device("cuda")
     lr = 3e-3
     epochs = 100
     prune_schedule = {0: 5/9,
                       10: 1/9,
```

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20: 1/9}
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)
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)
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
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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()
```

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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, new_lr):
   for param_group in optimizer.param_groups:
       param_group['lr'] = new_lr
def train_model(model, fdir, criterion, optimizer, epochs, prune_schedule:

dict=None):
   os.makedirs(fdir, exist_ok=True)
   best_prec = 0
    #model = nn.DataParallel(model).cuda()
   model.cuda()
   criterion = criterion.cuda()
   #cudnn.benchmark = True
   for epoch in range(0, epochs):
        if prune_schedule is not None and epoch in prune_schedule:
            os_prune_vgg16(model, prune_schedule[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
        if prune_schedule is None or (prune_schedule is not None and epoch >=__
 →list(prune_schedule.keys())[-1]):
            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)
def val_model(model):
    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_loss /= len(testloader.dataset)
    print('\nTest set: Accuracy: {}/{} ({:.0f}%)\n'.format(
            correct, len(testloader.dataset),
            100. * correct / len(testloader.dataset)))
```

/tmp/ipykernel_39922/1841557805.py:30: FutureWarning: You are using `torch.load` with `weights_only=False` (the current default value), which uses the default pickle module implicitly. It is possible to construct malicious pickle data which will execute arbitrary code during unpickling (See https://github.com/pytorch/pytorch/blob/main/SECURITY.md#untrusted-models for more details). In a future release, the default value for `weights_only` will be flipped to `True`. This limits the functions that could be executed during unpickling. Arbitrary objects will no longer be allowed to be loaded via this mode unless they are explicitly allowlisted by the user via `torch.serialization.add_safe_globals`. We recommend you start setting `weights_only=True` for any use case where you don't have full control of the

loaded file. Please open an issue on GitHub for any issues related to this experimental feature.

checkpoint = torch.load(FULL_MODEL_PATH)

Files already downloaded and verified Files already downloaded and verified

```
[2]: criterion = nn.CrossEntropyLoss()
  optimizer = torch.optim.AdamW(model.parameters(), lr=lr)
  train_model(model, fdir, criterion, optimizer, epochs, prune_schedule)
```

```
Pruning 36 ic-slices out of 64 ic-slices (56.2% pruned)
Pruning 36 ic-slices out of 64 ic-slices (56.2% pruned)
Pruning 71 ic-slices out of 128 ic-slices (55.5% pruned)
Pruning 71 ic-slices out of 128 ic-slices (55.5% pruned)
Pruning 142 ic-slices out of 256 ic-slices (55.5% pruned)
Pruning 142 ic-slices out of 256 ic-slices (55.5% pruned)
Pruning 142 ic-slices out of 256 ic-slices (55.5% pruned)
Pruning 284 ic-slices out of 512 ic-slices (55.5% pruned)
Pruning 284 ic-slices out of 512 ic-slices (55.5% pruned)
Pruning 284 ic-slices out of 512 ic-slices (55.5% pruned)
Pruning 284 ic-slices out of 512 ic-slices (55.5% pruned)
Pruning 284 ic-slices out of 512 ic-slices (55.5% pruned)
Epoch: [0] [0/782]
                        Time 0.321 (0.321)
                                                 Data 0.018 (0.018)
                                                                         Loss
5.8742 (5.8742)
                   Prec 28.125% (28.125%)
Epoch: [0] [100/782]
                        Time 0.034 (0.042)
                                                 Data 0.012 (0.013)
                                                                         Loss
1.3294 (1.6461)
                   Prec 56.250% (54.858%)
Epoch: [0] [200/782]
                        Time 0.039 (0.041)
                                                 Data 0.012 (0.013)
                                                                         Loss
0.7401 (1.2401)
                   Prec 73.438% (63.332%)
                                                 Data 0.019 (0.013)
Epoch: [0] [300/782]
                        Time 0.038 (0.040)
                                                                         Loss
0.5681 (1.0535)
                   Prec 81.250% (67.951%)
Epoch: [0] [400/782]
                        Time 0.044 (0.040)
                                                 Data 0.018 (0.013)
                                                                         Loss
0.4198 (0.9373)
                   Prec 87.500% (71.045%)
Epoch: [0] [500/782]
                        Time 0.039 (0.040)
                                                 Data 0.012 (0.013)
                                                                         Loss
0.4859 (0.8607)
                   Prec 82.812% (73.135%)
Epoch: [0] [600/782]
                        Time 0.039 (0.040)
                                                 Data 0.019 (0.013)
                                                                         Loss
0.4119 (0.7997)
                   Prec 89.062% (74.808%)
Epoch: [0] [700/782]
                                                 Data 0.012 (0.013)
                        Time 0.045 (0.039)
                                                                         Loss
0.4324 (0.7506)
                   Prec 82.812% (76.159%)
Validation starts
Test: [0/157]
                Time 0.021 (0.021)
                                        Loss 0.5681 (0.5681)
                                                                 Prec 82.812%
(82.812\%)
Test: [100/157] Time 0.019 (0.019)
                                        Loss 0.5805 (0.5180)
                                                                 Prec 84.375%
(82.859\%)
 * Prec 82.880%
Epoch: [1] [0/782]
                        Time 0.028 (0.028)
                                                 Data 0.013 (0.013)
                                                                         Loss
                   Prec 84.375% (84.375%)
0.4219 (0.4219)
```

Epoch: [1][100/782] Time 0.5947 (0.4092) Prec 82.8		Data 0.012	2 (0.013) Loss
Epoch: [1][200/782] Time	e 0.044 (0.039)	Data 0.018	3 (0.013) Loss
1	e 0.040 (0.039)	Data 0.012	2 (0.013) Loss
	250% (86.207%) e 0.039 (0.039)	Data 0.011	(0.013) Loss
Epoch: [1][500/782] Time	e 0.039 (0.039) 000% (86.546%)	Data 0.012	2 (0.013) Loss
	e 0.035 (0.039)	Data 0.012	2 (0.013) Loss
	e 0.033 (0.039)	Data 0.012	2 (0.013) Loss
Validation starts			
Test: [0/157] Time 0.024	(0.024) Loss	0.4973 (0.497	73) Prec 82.812%
(82.812%)			
Test: [100/157] Time 0.018	(0.019) Loss	0.3715 (0.469	93) Prec 89.062%
(84.947%)			
* Prec 85.120%			
Epoch: [2][0/782] Time	e 0.028 (0.028)	Data 0.014	(0.014) Loss
0.3718 (0.3718) Prec 84.3			
	e 0.043 (0.039)	Data 0.012	2 (0.013) Loss
0.1981 (0.3266) Prec 93.			
	e 0.034 (0.039)	Data 0.012	2 (0.013) Loss
-	188% (88.720%)		
	e 0.039 (0.039)	Data 0.012	2 (0.013) Loss
0.1985 (0.3292) Prec 93.			
	e 0.039 (0.039)	Data 0.012	2 (0.013) Loss
0.3486 (0.3326) Prec 87.5			
	e 0.038 (0.039)	Data 0.018	3 (0.013) Loss
-	625% (88.654%)		
	e 0.035 (0.039)	Data 0.012	2 (0.013) Loss
0.1888 (0.3303) Prec 93.			
Epoch: [2] [700/782] Time		Data 0.018	3 (0.013) Loss
0.3135 (0.3282) Prec 89.0		2404 01010	
Validation starts	(00,00,00)		
Test: [0/157] Time 0.024	(0.024) Loss	0.5629 (0.562	29) Prec 84.375%
(84.375%)		(1101-1	,
Test: [100/157] Time 0.018	(0.019) Loss	0.6851 (0.463	37) Prec 78.125%
(85.350%)		(11111	,
* Prec 85.350%			
Epoch: [3] [0/782] Time	e 0.028 (0.028)	Data 0.013	3 (0.013) Loss
-	938% (85.938%)	2404 01010	
	e 0.039 (0.039)	Data 0.012	2 (0.013) Loss
-	062% (89.233%)	2234 0.012	2000
	e 0.039 (0.039)	Data 0.019	2 (0.013) Loss
0.2755 (0.2924) Prec 93.			

Epoch: [3] [300/782] Time 0.		Data 0.012	(0.013) Loss
•	040 (0.039)	Data 0.012	(0.013) Loss
	042 (0.039)	Data 0.012	(0.013) Loss
•	045 (0.039)	Data 0.012	(0.013) Loss
0.2061 (0.3047) Prec 93.750% Epoch: [3] [700/782] Time 0.	(89.476%) 039 (0.039)	Data 0.012	(0.013) Loss
0.2842 (0.3032) Prec 85.938%	(89.531%)		
Validation starts			
Test: [0/157] Time 0.023 (0.0	23) Loss	0.5028 (0.5028	8) Prec 85.938%
(85.938%)			
Test: [100/157] Time 0.019 (0.0	19) Loss	0.5717 (0.437	5) Prec 82.812%
(85.953%)			
* Prec 86.200%			
Epoch: [4] [0/782] Time 0.		Data 0.013	(0.013) Loss
0.3566 (0.3566) Prec 85.938% Epoch: [4][100/782] Time 0.	044 (0.039)	Data 0.012	(0.013) Loss
0.4933 (0.2837) Prec 89.062%	(90.207%)		
-	034 (0.039)	Data 0.012	(0.013) Loss
0.3331 (0.2823) Prec 85.938%		D	(0.040)
Epoch: [4][300/782] Time 0. 0.3495 (0.2766) Prec 89.062%	034 (0.039) (90.542%)	Data 0.012	(0.013) Loss
	039 (0.039)	Data 0.013	(0.013) Loss
0.2819 (0.2776) Prec 90.625%	(90.606%)		
-	039 (0.039)	Data 0.012	(0.013) Loss
0.2639 (0.2785) Prec 87.500%		D-+- 0 010	(0.012)
Epoch: [4][600/782] Time 0. 0.3651 (0.2809) Prec 87.500%	034 (0.039) (90.485%)	Data 0.012	(0.013) Loss
	039 (0.039)	Data 0.012	(0.013) Loss
0.1505 (0.2795) Prec 96.875%			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Validation starts	(**************************************		
Test: [0/157] Time 0.024 (0.0	24) Loss	0.4890 (0.489)	0) Prec 87.500%
(87.500%)		0.1000 (0.100	2 2 2 2 1 1 2 2 2 7 7
Test: [100/157] Time 0.018 (0.0	18) I.oss	0.5609 (0.424)	6) Prec 79.688%
(86.448%)		(11111	,,
* Prec 86.620%			
	035 (0.035)	Data 0.013	(0.013) Loss
0.4274 (0.4274) Prec 82.812%			(1112)
	039 (0.039)	Data 0.012	(0.013) Loss
0.4138 (0.2600) Prec 87.500%	(90.981%)		
	039 (0.039)	Data 0.012	(0.013) Loss
0.1113 (0.2617) Prec 98.438%			
	039 (0.039)	Data 0.019	(0.013) Loss
0.3603 (0.2671) Prec 82.812%			
	041 (0.039)	Data 0.012	(0.013) Loss
0.3754 (0.2686) Prec 85.938%	(90.625%)		

Epoch: [5][500/782] Time 0.039 (0.039) 0.1243 (0.2668) Prec 96.875% (90.694%)	Data 0.012 (0.013) Loss
Epoch: [5][600/782] Time 0.045 (0.039)	Data 0.018 (0.013) Loss
0.4864 (0.2678) Prec 79.688% (90.700%) Epoch: [5][700/782] Time 0.034 (0.039) 0.3197 (0.2667) Prec 89.062% (90.721%) Validation starts	Data 0.012 (0.013) Loss
Test: [0/157] Time 0.024 (0.024) Loss (89.062%)	0.2796 (0.2796) Prec 89.062%
Test: [100/157] Time 0.018 (0.018) Loss	0.4630 (0.4057) Prec 84.375%
(86.897%)	
* Prec 86.960% Epoch: [6][0/782] Time 0.029 (0.029)	Data 0.013 (0.013) Loss
0.2477 (0.2477) Prec 95.312% (95.312%)	
Epoch: [6][100/782] Time 0.039 (0.039) 0.2418 (0.2418) Prec 90.625% (91.507%)	Data 0.012 (0.012) Loss
Epoch: [6][200/782] Time 0.039 (0.039) 0.2350 (0.2457) Prec 90.625% (91.433%)	Data 0.012 (0.012) Loss
Epoch: [6][300/782] Time 0.044 (0.039)	Data 0.012 (0.012) Loss
0.1159 (0.2516) Prec 95.312% (91.243%)	
Epoch: [6] [400/782] Time 0.039 (0.039) 0.1908 (0.2563) Prec 95.312% (91.143%)	Data 0.012 (0.013) Loss
Epoch: [6][500/782] Time 0.044 (0.039)	Data 0.013 (0.013) Loss
0.2301 (0.2566) Prec 95.312% (91.052%) Epoch: [6][600/782] Time 0.034 (0.039)	Data 0.012 (0.013) Loss
0.1933 (0.2566) Prec 96.875% (91.122%)	
Epoch: [6][700/782] Time 0.044 (0.039)	Data 0.013 (0.013) Loss
0.2281 (0.2557) Prec 93.750% (91.104%)	
Validation starts	
Test: [0/157] Time 0.021 (0.021) Loss (85.938%)	0.3694 (0.3694) Prec 85.938%
Test: [100/157] Time 0.018 (0.019) Loss	0.7111 (0.4201) Prec 81.250%
(86.989%)	0.7111 (0.4201) 11ec 01.230%
* Prec 86.960%	
Epoch: [7] [0/782] Time 0.039 (0.039)	Data 0.016 (0.016) Loss
0.1142 (0.1142) Prec 96.875% (96.875%)	2404 00020 (00020) 2002
Epoch: [7][100/782] Time 0.045 (0.039)	Data 0.013 (0.013) Loss
0.1975 (0.2278) Prec 93.750% (92.311%)	
Epoch: [7][200/782] Time 0.034 (0.039)	Data 0.012 (0.013) Loss
0.2470 (0.2358) Prec 89.062% (92.094%)	
Epoch: [7][300/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.3271 (0.2381) Prec 87.500% (92.001%)	
Epoch: [7] [400/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.3835 (0.2416) Prec 82.812% (91.665%)	D
Epoch: [7] [500/782] Time 0.045 (0.039)	Data 0.012 (0.013) Loss
- 1 73 1 11 7////1 Proc un 6767 (ut 6769)	Data 0.012 (0.010) Lobb
0.2311 (0.2444) Prec 90.625% (91.576%)	
Epoch: [7] [600/782] Time 0.039 (0.039) 0.1968 (0.2439) Prec 93.750% (91.584%)	Data 0.012 (0.013) Loss

Epoch: [7][700/782] Time 0.044 (0.039 0.4513 (0.2467) Prec 84.375% (91.512%)	
Validation starts Test: [0/157] Time 0.024 (0.024) I	oss 0.3270 (0.3270) Prec 90.625%
(90.625%)	
Test: [100/157] Time 0.018 (0.018)	oss 0.5753 (0.3788) Prec 79.688%
(87.454%)	
* Prec 87.830%	
Epoch: [8] [0/782] Time 0.031 (0.031	
0.2403 (0.2403) Prec 90.625% (90.625%)	
Epoch: [8] [100/782] Time 0.040 (0.039	
0.2270 (0.2257) Prec 93.750% (92.172%)	
Epoch: [8] [200/782] Time 0.044 (0.039	
0.1252 (0.2238) Prec 96.875% (92.164%)	
Epoch: [8] [300/782] Time 0.034 (0.039	
0.3501 (0.2264) Prec 89.062% (92.136%)	
Epoch: [8] [400/782] Time 0.040 (0.039	
0.3286 (0.2316) Prec 85.938% (91.973%)	
Epoch: [8] [500/782] Time 0.034 (0.039	
0.2874 (0.2338) Prec 90.625% (91.954%)	
Epoch: [8] [600/782] Time 0.039 (0.039	
0.2107 (0.2367) Prec 93.750% (91.891%)	
Epoch: [8] [700/782] Time 0.039 (0.039	
0.1763 (0.2359) Prec 89.062% (91.904%)	
Validation starts	
	0.4040 (0.4040)
Test: [0/157] Time 0.021 (0.021)	oss 0.4246 (0.4246) Prec 87.500%
Test: [0/157] Time 0.021 (0.021) I (87.500%)	
Test: [0/157] Time 0.021 (0.021) I (87.500%) Test: [100/157] Time 0.019 (0.018) I	
Test: [0/157] Time 0.021 (0.021) I (87.500%) Test: [100/157] Time 0.019 (0.018) I (87.995%)	
Test: [0/157] Time 0.021 (0.021) I (87.500%) Test: [100/157] Time 0.019 (0.018) I (87.995%) * Prec 87.830%	oss 0.5465 (0.3905) Prec 85.938%
Test: [0/157] Time 0.021 (0.021) I (87.500%) Test: [100/157] Time 0.019 (0.018) I (87.995%) * Prec 87.830% Epoch: [9][0/782] Time 0.029 (0.029	coss 0.5465 (0.3905) Prec 85.938% Data 0.014 (0.014) Loss
Test: [0/157] Time 0.021 (0.021) I (87.500%) Test: [100/157] Time 0.019 (0.018) I (87.995%) * Prec 87.830% Epoch: [9][0/782] Time 0.029 (0.029 0.2592 (0.2592) Prec 89.062% (89.062%)	noss 0.5465 (0.3905) Prec 85.938% Data 0.014 (0.014) Loss
Test: [0/157] Time 0.021 (0.021) I (87.500%) Test: [100/157] Time 0.019 (0.018) I (87.995%) * Prec 87.830% Epoch: [9][0/782] Time 0.029 (0.029) 0.2592 (0.2592) Prec 89.062% (89.062%) Epoch: [9][100/782] Time 0.038 (0.039)	Data 0.014 (0.014) Data 0.019 (0.013) Loss
Test: [0/157] Time 0.021 (0.021) I (87.500%) Test: [100/157] Time 0.019 (0.018) I (87.995%) * Prec 87.830% Epoch: [9][0/782] Time 0.029 (0.029) 0.2592 (0.2592) Prec 89.062% (89.062%) Epoch: [9][100/782] Time 0.038 (0.039) 0.1528 (0.2294) Prec 96.875% (91.909%)	Data 0.019 (0.013) Prec 85.938% Data 0.014 (0.014) Loss Loss
Test: [0/157] Time 0.021 (0.021) I (87.500%) Test: [100/157] Time 0.019 (0.018) I (87.995%) * Prec 87.830% Epoch: [9][0/782] Time 0.029 (0.029) 0.2592 (0.2592) Prec 89.062% (89.062%) Epoch: [9][100/782] Time 0.038 (0.039) 0.1528 (0.2294) Prec 96.875% (91.909%) Epoch: [9][200/782] Time 0.034 (0.039)	Data 0.019 (0.013) Data 0.012 (0.013) Data 0.012 (0.013) Loss
Test: [0/157] Time 0.021 (0.021) I (87.500%) Test: [100/157] Time 0.019 (0.018) I (87.995%) * Prec 87.830% Epoch: [9][0/782] Time 0.029 (0.029) 0.2592 (0.2592) Prec 89.062% (89.062%) Epoch: [9][100/782] Time 0.038 (0.039) 0.1528 (0.2294) Prec 96.875% (91.909%) Epoch: [9][200/782] Time 0.034 (0.039) 0.2275 (0.2275) Prec 93.750% (92.063%)	Data 0.014 (0.014) Data 0.019 (0.013) Data 0.012 (0.013) Loss
Test: [0/157] Time 0.021 (0.021) I (87.500%) Test: [100/157] Time 0.019 (0.018) I (87.995%) * Prec 87.830% Epoch: [9][0/782] Time 0.029 (0.029 0.2592 (0.2592) Prec 89.062% (89.062%) Epoch: [9][100/782] Time 0.038 (0.039 0.1528 (0.2294) Prec 96.875% (91.909%) Epoch: [9][200/782] Time 0.034 (0.039 0.2275 (0.2275) Prec 93.750% (92.063%) Epoch: [9][300/782] Time 0.039 (0.039 0.039 0.039 0.039 0.039 0.039	Data 0.012 (0.013) Data 0.018 (0.013) Data 0.018 (0.013) Loss Data 0.018 (0.013)
Test: [0/157] Time 0.021 (0.021) I (87.500%) Test: [100/157] Time 0.019 (0.018) I (87.995%) * Prec 87.830% Epoch: [9][0/782] Time 0.029 (0.029 0.2592 (0.2592) Prec 89.062% (89.062%) Epoch: [9][100/782] Time 0.038 (0.039 0.1528 (0.2294) Prec 96.875% (91.909%) Epoch: [9][200/782] Time 0.034 (0.039 0.2275 (0.2275) Prec 93.750% (92.063%) Epoch: [9][300/782] Time 0.039 (0.039 0.3229 (0.2316) Prec 89.062% (91.938%)	Data 0.012 (0.013) Data 0.018 (0.013) Data 0.018 (0.013) Loss Data 0.018 (0.013)
Test: [0/157] Time 0.021 (0.021) I (87.500%) Test: [100/157] Time 0.019 (0.018) I (87.995%) * Prec 87.830% Epoch: [9][0/782] Time 0.029 (0.029 0.2592 (0.2592) Prec 89.062% (89.062%) Epoch: [9][100/782] Time 0.038 (0.039 0.1528 (0.2294) Prec 96.875% (91.909%) Epoch: [9][200/782] Time 0.034 (0.039 0.2275 (0.2275) Prec 93.750% (92.063%) Epoch: [9][300/782] Time 0.039 (0.039 0.3229 (0.2316) Prec 89.062% (91.938%) Epoch: [9][400/782] Time 0.042 (0.039 0.03	Data 0.014 (0.014) Data 0.019 (0.013) Data 0.012 (0.013) Data 0.018 (0.013) Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss
Test: [0/157] Time 0.021 (0.021) I (87.500%) Test: [100/157] Time 0.019 (0.018) I (87.995%) * Prec 87.830% Epoch: [9][0/782] Time 0.029 (0.029 0.2592 (0.2592) Prec 89.062% (89.062%) Epoch: [9][100/782] Time 0.038 (0.039 0.1528 (0.2294) Prec 96.875% (91.909%) Epoch: [9][200/782] Time 0.034 (0.039 0.2275 (0.2275) Prec 93.750% (92.063%) Epoch: [9][300/782] Time 0.039 (0.039 0.3229 (0.2316) Prec 89.062% (91.938%) Epoch: [9][400/782] Time 0.042 (0.039 0.1332 (0.2284) Prec 95.312% (92.106%)	Data 0.012 (0.013) Data 0.018 (0.013) Data 0.019 (0.013) Data 0.012 (0.013) Data 0.018 (0.013) Data 0.018 (0.013) Data 0.013 (0.013)
Test: [0/157] Time 0.021 (0.021) I (87.500%) Test: [100/157] Time 0.019 (0.018) I (87.995%) * Prec 87.830% Epoch: [9][0/782] Time 0.029 (0.029 0.2592 (0.2592) Prec 89.062% (89.062%) Epoch: [9][100/782] Time 0.038 (0.039 0.1528 (0.2294) Prec 96.875% (91.909%) Epoch: [9][200/782] Time 0.034 (0.039 0.2275 (0.2275) Prec 93.750% (92.063%) Epoch: [9][300/782] Time 0.039 (0.039 0.3229 (0.2316) Prec 89.062% (91.938%) Epoch: [9][400/782] Time 0.042 (0.039 0.1332 (0.2284) Prec 95.312% (92.106%) Epoch: [9][500/782] Time 0.044 (0.039 0.039 0.1332 (0.2284) Prec 95.312% (92.106%)	Data 0.012 (0.013) Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss
Test: [0/157] Time 0.021 (0.021) I (87.500%) Test: [100/157] Time 0.019 (0.018) I (87.995%) * Prec 87.830% Epoch: [9][0/782] Time 0.029 (0.029 0.2592 (0.2592) Prec 89.062% (89.062%) Epoch: [9][100/782] Time 0.038 (0.039 0.1528 (0.2294) Prec 96.875% (91.909%) Epoch: [9][200/782] Time 0.034 (0.039 0.2275 (0.2275) Prec 93.750% (92.063%) Epoch: [9][300/782] Time 0.039 (0.039 0.3229 (0.2316) Prec 89.062% (91.938%) Epoch: [9][400/782] Time 0.042 (0.039 0.1332 (0.2284) Prec 95.312% (92.106%) Epoch: [9][500/782] Time 0.044 (0.039 0.1319 (0.2280) Prec 95.312% (92.110%)	Data 0.012 (0.013) Data 0.013 (0.013) Data 0.018 (0.013) Data 0.019 (0.013) Data 0.012 (0.013) Data 0.018 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss
Test: [0/157] Time 0.021 (0.021) I (87.500%) Test: [100/157] Time 0.019 (0.018) I (87.995%) * Prec 87.830% Epoch: [9][0/782] Time 0.029 (0.029 0.2592 (0.2592) Prec 89.062% (89.062%) Epoch: [9][100/782] Time 0.038 (0.039 0.1528 (0.2294) Prec 96.875% (91.909%) Epoch: [9][200/782] Time 0.034 (0.039 0.2275 (0.2275) Prec 93.750% (92.063%) Epoch: [9][300/782] Time 0.039 (0.039 0.3229 (0.2316) Prec 89.062% (91.938%) Epoch: [9][400/782] Time 0.042 (0.039 0.1332 (0.2284) Prec 95.312% (92.106%) Epoch: [9][500/782] Time 0.044 (0.039 0.1319 (0.2280) Prec 95.312% (92.110%) Epoch: [9][600/782] Time 0.034 (0.039 0.1319 (0.2280) Prec 95.312% (92.110%)	Data 0.012 (0.013) Data 0.012 (0.013) Data 0.013 (0.013) Data 0.012 (0.013) Data 0.012 (0.013) Loss Data 0.012 (0.013) Data 0.012 (0.013)
Test: [0/157] Time 0.021 (0.021) I (87.500%) Test: [100/157] Time 0.019 (0.018) I (87.995%) * Prec 87.830% Epoch: [9][0/782] Time 0.029 (0.029 0.2592 (0.2592) Prec 89.062% (89.062%) Epoch: [9][100/782] Time 0.038 (0.039 0.1528 (0.2294) Prec 96.875% (91.909%) Epoch: [9][200/782] Time 0.034 (0.039 0.2275 (0.2275) Prec 93.750% (92.063%) Epoch: [9][300/782] Time 0.039 (0.039 0.3229 (0.2316) Prec 89.062% (91.938%) Epoch: [9][400/782] Time 0.042 (0.039 0.1332 (0.2284) Prec 95.312% (92.106%) Epoch: [9][500/782] Time 0.044 (0.039 0.1319 (0.2280) Prec 95.312% (92.110%) Epoch: [9][600/782] Time 0.034 (0.039 0.2894 (0.2268) Prec 90.625% (92.130%)	Data 0.012 (0.013) Data 0.013 (0.013) Data 0.018 (0.013) Data 0.019 (0.013) Data 0.018 (0.013) Data 0.018 (0.013) Data 0.019 (0.013) Loss Data 0.010 (0.013) Loss
Test: [0/157] Time 0.021 (0.021) I (87.500%) Test: [100/157] Time 0.019 (0.018) I (87.995%) * Prec 87.830% Epoch: [9][0/782] Time 0.029 (0.029 0.2592 (0.2592) Prec 89.062% (89.062%) Epoch: [9][100/782] Time 0.038 (0.039 0.1528 (0.2294) Prec 96.875% (91.909%) Epoch: [9][200/782] Time 0.034 (0.039 0.2275 (0.2275) Prec 93.750% (92.063%) Epoch: [9][300/782] Time 0.039 (0.039 0.3229 (0.2316) Prec 89.062% (91.938%) Epoch: [9][400/782] Time 0.042 (0.039 0.1332 (0.2284) Prec 95.312% (92.106%) Epoch: [9][500/782] Time 0.044 (0.039 0.1319 (0.2280) Prec 95.312% (92.110%) Epoch: [9][600/782] Time 0.034 (0.039 0.2894 (0.2268) Prec 90.625% (92.130%) Epoch: [9][700/782] Time 0.034 (0.039 0.2894 (0.2268) Prec 90.625% (92.130%)	Data 0.014 (0.014) Data 0.019 (0.013) Data 0.012 (0.013) Data 0.018 (0.013) Data 0.018 (0.013) Data 0.013 (0.013) Data 0.012 (0.013) Data 0.013 (0.013) Data 0.012 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss
Test: [0/157] Time 0.021 (0.021) I (87.500%) Test: [100/157] Time 0.019 (0.018) I (87.995%) * Prec 87.830% Epoch: [9] [0/782] Time 0.029 (0.029 0.2592 (0.2592) Prec 89.062% (89.062%) Epoch: [9] [100/782] Time 0.038 (0.039 0.1528 (0.2294) Prec 96.875% (91.909%) Epoch: [9] [200/782] Time 0.034 (0.039 0.2275 (0.2275) Prec 93.750% (92.063%) Epoch: [9] [300/782] Time 0.039 (0.039 0.3229 (0.2316) Prec 89.062% (91.938%) Epoch: [9] [400/782] Time 0.042 (0.039 0.1332 (0.2284) Prec 95.312% (92.106%) Epoch: [9] [500/782] Time 0.044 (0.039 0.1319 (0.2280) Prec 95.312% (92.110%) Epoch: [9] [600/782] Time 0.034 (0.039 0.2894 (0.2268) Prec 90.625% (92.130%) Epoch: [9] [700/782] Time 0.034 (0.039 0.2894 (0.2268) Prec 90.625% (92.130%) Epoch: [9] [700/782] Time 0.034 (0.039 0.1407 (0.2277) Prec 93.750% (92.083%)	Data 0.014 (0.014) Data 0.019 (0.013) Data 0.012 (0.013) Data 0.018 (0.013) Data 0.018 (0.013) Data 0.013 (0.013) Data 0.012 (0.013) Data 0.013 (0.013) Data 0.012 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss
Test: [0/157] Time 0.021 (0.021) I (87.500%) Test: [100/157] Time 0.019 (0.018) I (87.995%) * Prec 87.830% Epoch: [9] [0/782] Time 0.029 (0.029 0.2592 (0.2592) Prec 89.062% (89.062%) Epoch: [9] [100/782] Time 0.038 (0.039 0.1528 (0.2294) Prec 96.875% (91.909%) Epoch: [9] [200/782] Time 0.034 (0.039 0.2275 (0.2275) Prec 93.750% (92.063%) Epoch: [9] [300/782] Time 0.039 (0.039 0.3229 (0.2316) Prec 89.062% (91.938%) Epoch: [9] [400/782] Time 0.042 (0.039 0.1332 (0.2284) Prec 95.312% (92.106%) Epoch: [9] [500/782] Time 0.044 (0.039 0.1319 (0.2280) Prec 95.312% (92.110%) Epoch: [9] [600/782] Time 0.034 (0.039 0.2894 (0.2268) Prec 90.625% (92.130%) Epoch: [9] [700/782] Time 0.034 (0.039 0.1407 (0.2277) Prec 93.750% (92.083%) Validation starts	Data 0.014 (0.014) Data 0.019 (0.013) Data 0.012 (0.013) Data 0.018 (0.013) Data 0.018 (0.013) Data 0.013 (0.013) Data 0.012 (0.013) Data 0.013 (0.013) Data 0.012 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss

(90.625%)Test: [100/157] Time 0.018 (0.018) Loss 0.5405 (0.3974) Prec 82.812% (87.500%)* Prec 87.620% Pruning 7 ic-slices out of 64 ic-slices (10.9% pruned) Pruning 7 ic-slices out of 64 ic-slices (10.9% pruned) Pruning 14 ic-slices out of 128 ic-slices (10.9% pruned) Pruning 14 ic-slices out of 128 ic-slices (10.9% pruned) Pruning 28 ic-slices out of 256 ic-slices (10.9% pruned) Pruning 28 ic-slices out of 256 ic-slices (10.9% pruned) Pruning 28 ic-slices out of 256 ic-slices (10.9% pruned) Pruning 57 ic-slices out of 512 ic-slices (11.1% pruned) Pruning 57 ic-slices out of 512 ic-slices (11.1% pruned) Pruning 57 ic-slices out of 512 ic-slices (11.1% pruned) Pruning 57 ic-slices out of 512 ic-slices (11.1% pruned) Pruning 57 ic-slices out of 512 ic-slices (11.1% pruned) Data 0.013 (0.013) Epoch: [10] [0/782] Time 0.033 (0.033) Loss 2.2155 (2.2155) Prec 51.562% (51.562%) Epoch: [10] [100/782] Time 0.039 (0.039)Data 0.012 (0.013) Loss 0.7020 (0.7353) Prec 76.562% (75.897%) Epoch: [10] [200/782] Time 0.044 (0.039)Data 0.018 (0.013) Loss 0.5500 (0.6243) Prec 79.688% (79.229%) Epoch: [10] [300/782] Time 0.044 (0.039)Data 0.012 (0.013) Loss 0.3651 (0.5777) Prec 87.500% (80.601%) Epoch: [10] [400/782] Time 0.039 (0.039)Data 0.013 (0.013) Loss 0.3484 (0.5481) Prec 87.500% (81.515%) Epoch: [10] [500/782] Time 0.034 (0.039)Data 0.012 (0.013) Loss Prec 71.875% (82.139%) 0.7292 (0.5285) Epoch: [10] [600/782] Time 0.039 (0.039) Data 0.019 (0.013) Loss 0.3362 (0.5095) Prec 85.938% (82.664%) Epoch: [10] [700/782] Time 0.034 (0.039)Data 0.012 (0.013) Loss 0.2819 (0.4964) Prec 93.750% (83.107%) Validation starts Test: [0/157] Time 0.024 (0.024)Loss 0.3608 (0.3608) Prec 87.500% (87.500%)Test: [100/157] Time 0.019 (0.019) Loss 0.7591 (0.4632) Prec 78.125% (84.808%) * Prec 84.720% Epoch: [11] [0/782] Time 0.030 (0.030)Data 0.014 (0.014) Loss 0.3084 (0.3084) Prec 89.062% (89.062%) Epoch: [11] [100/782] Time 0.039 (0.039)Data 0.019 (0.013) Loss 0.2106 (0.3877) Prec 92.188% (86.696%) Epoch: [11] [200/782] Time 0.038 (0.039)Data 0.019 (0.013) Loss 0.5255 (0.3739) Prec 87.500% (87.072%) Epoch: [11] [300/782] Time 0.035 (0.039)Data 0.013 (0.013) Loss 0.3114 (0.3766) Prec 89.062% (86.986%) Epoch: [11] [400/782] Time 0.040 (0.039)Data 0.013 (0.013) Loss 0.4098 (0.3736) Prec 85.938% (87.001%)

Epoch: [11][500/782] Time 0.040 (0.039) 0.3131 (0.3717) Prec 89.062% (87.042%)	Data 0.012 (0.013) Loss
Epoch: [11] [600/782] Time 0.039 (0.039) 0.2540 (0.3726) Prec 87.500% (87.050%)	Data 0.012 (0.013) Loss
Epoch: [11] [700/782] Time 0.039 (0.039) 0.3658 (0.3722) Prec 82.812% (87.119%) Validation starts	Data 0.013 (0.013) Loss
Test: [0/157] Time 0.023 (0.023) Loss (85.938%)	0.4905 (0.4905) Prec 85.938%
Test: [100/157] Time 0.018 (0.018) Loss (84.360%)	0.7090 (0.4675) Prec 79.688%
* Prec 84.660%	
Epoch: [12][0/782] Time 0.029 (0.029) 0.4600 (0.4600) Prec 84.375% (84.375%)	Data 0.014 (0.014) Loss
Epoch: [12] [100/782] Time 0.035 (0.039) 0.4168 (0.3412) Prec 89.062% (88.119%)	Data 0.012 (0.013) Loss
Epoch: [12] [200/782] Time 0.039 (0.039) 0.2158 (0.3408) Prec 92.188% (88.083%)	Data 0.013 (0.013) Loss
Epoch: [12] [300/782] Time 0.039 (0.039) 0.3414 (0.3377) Prec 90.625% (88.253%)	Data 0.012 (0.013) Loss
Epoch: [12] [400/782] Time 0.033 (0.039) 0.4380 (0.3402) Prec 85.938% (88.186%)	Data 0.012 (0.013) Loss
Epoch: [12] [500/782] Time 0.034 (0.039) 0.5652 (0.3393) Prec 78.125% (88.217%)	Data 0.012 (0.013) Loss
Epoch: [12] [600/782] Time 0.039 (0.039) 0.1849 (0.3419) Prec 95.312% (88.150%)	Data 0.012 (0.013) Loss
Epoch: [12] [700/782] Time 0.041 (0.039) 0.3158 (0.3411) Prec 82.812% (88.149%)	Data 0.013 (0.013) Loss
Validation starts	
Test: [0/157] Time 0.024 (0.024) Loss (87.500%)	0.4170 (0.4170) Prec 87.500%
Test: [100/157] Time 0.019 (0.018) Loss	0.6048 (0.4662) Prec 81.250%
(85.442%)	
* Prec 85.810%	D
Epoch: [13] [0/782] Time 0.035 (0.035) 0.2507 (0.2507) Prec 89.062% (89.062%)	Data 0.016 (0.016) Loss
Epoch: [13] [100/782] Time 0.035 (0.039) 0.2839 (0.3232) Prec 89.062% (88.954%)	Data 0.012 (0.013) Loss
Epoch: [13][200/782] Time 0.038 (0.039) 0.2986 (0.3231) Prec 89.062% (88.876%)	Data 0.013 (0.013) Loss
Epoch: [13] [300/782] Time 0.034 (0.039) 0.3349 (0.3251) Prec 90.625% (88.798%)	Data 0.013 (0.013) Loss
Epoch: [13][400/782] Time 0.038 (0.039) 0.2353 (0.3208) Prec 92.188% (88.938%)	Data 0.012 (0.013) Loss
Epoch: [13] [500/782] Time 0.039 (0.039) 0.2651 (0.3186) Prec 93.750% (89.097%)	Data 0.019 (0.013) Loss
Epoch: [13] [600/782] Time 0.039 (0.039) 0.1741 (0.3213) Prec 93.750% (88.990%)	Data 0.012 (0.013) Loss

Epoch: [13] [700/782] Time 0.039 (0.039) 0.4018 (0.3226) Prec 89.062% (88.980%)	Data 0.015 (0.013) Loss
Validation starts Test: [0/157] Time 0.026 (0.026) Lo	ss 0.3543 (0.3543) Prec 89.062%
(89.062%) Test: [100/157] Time 0.020 (0.019) Lo (85.999%)	ss 0.5727 (0.4294) Prec 79.688%
* Prec 85.950% Epoch: [14][0/782] Time 0.030 (0.030)	Data 0.014 (0.014) Loss
0.2490 (0.2490) Prec 89.062% (89.062%) Epoch: [14] [100/782] Time 0.039 (0.040)	
0.3188 (0.2994) Prec 92.188% (89.697%) Epoch: [14] [200/782] Time 0.044 (0.039)	
0.2760 (0.3054) Prec 90.625% (89.381%) Epoch: [14] [300/782] Time 0.038 (0.039)	Data 0.019 (0.013) Loss
0.3246 (0.3043) Prec 92.188% (89.426%)	
Epoch: [14] [400/782] Time 0.039 (0.039) 0.4187 (0.2999) Prec 89.062% (89.577%)	Data 0.012 (0.013) Loss
Epoch: [14] [500/782] Time 0.039 (0.039) 0.6273 (0.3016) Prec 76.562% (89.496%)	
Epoch: [14] [600/782] Time 0.034 (0.039) 0.4268 (0.3052) Prec 84.375% (89.395%)	
Epoch: [14] [700/782] Time 0.039 (0.039) 0.2121 (0.3047) Prec 92.188% (89.421%)	Data 0.013 (0.013) Loss
Validation starts	aa 0 2064 (0 2064) - Droc 94 275%
Test: [0/157] Time 0.020 (0.020) Lo	ss 0.3864 (0.3864) Prec 84.375%
Test: [0/157] Time 0.020 (0.020) Lo (84.375%) Test: [100/157] Time 0.018 (0.019) Lo	
Test: [0/157] Time 0.020 (0.020) Lo (84.375%) Test: [100/157] Time 0.018 (0.019) Lo (86.061%)	
Test: [0/157] Time 0.020 (0.020) Lo (84.375%) Test: [100/157] Time 0.018 (0.019) Lo (86.061%) * Prec 86.170% Epoch: [15] [0/782] Time 0.034 (0.034)	ss 0.6685 (0.4306) Prec 76.562%
Test: [0/157] Time 0.020 (0.020) Lo (84.375%) Test: [100/157] Time 0.018 (0.019) Lo (86.061%) * Prec 86.170% Epoch: [15] [0/782] Time 0.034 (0.034) 0.2711 (0.2711) Prec 89.062% (89.062%) Epoch: [15] [100/782] Time 0.044 (0.039)	ss 0.6685 (0.4306) Prec 76.562% Data 0.013 (0.013) Loss
Test: [0/157] Time 0.020 (0.020) Lo (84.375%) Test: [100/157] Time 0.018 (0.019) Lo (86.061%) * Prec 86.170% Epoch: [15] [0/782] Time 0.034 (0.034) 0.2711 (0.2711) Prec 89.062% (89.062%) Epoch: [15] [100/782] Time 0.044 (0.039) 0.2102 (0.2813) Prec 95.312% (90.269%) Epoch: [15] [200/782] Time 0.038 (0.039)	Data 0.013 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Loss
Test: [0/157] Time 0.020 (0.020) Lo (84.375%) Test: [100/157] Time 0.018 (0.019) Lo (86.061%) * Prec 86.170% Epoch: [15] [0/782] Time 0.034 (0.034) 0.2711 (0.2711) Prec 89.062% (89.062%) Epoch: [15] [100/782] Time 0.044 (0.039) 0.2102 (0.2813) Prec 95.312% (90.269%) Epoch: [15] [200/782] Time 0.038 (0.039) 0.2161 (0.2842) Prec 95.312% (90.127%) Epoch: [15] [300/782] Time 0.040 (0.039)	Data 0.013 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Loss Data 0.018 (0.013) Loss
Test: [0/157] Time 0.020 (0.020) Lo (84.375%) Test: [100/157] Time 0.018 (0.019) Lo (86.061%) * Prec 86.170% Epoch: [15] [0/782] Time 0.034 (0.034) 0.2711 (0.2711) Prec 89.062% (89.062%) Epoch: [15] [100/782] Time 0.044 (0.039) 0.2102 (0.2813) Prec 95.312% (90.269%) Epoch: [15] [200/782] Time 0.038 (0.039) 0.2161 (0.2842) Prec 95.312% (90.127%) Epoch: [15] [300/782] Time 0.040 (0.039) 0.2875 (0.2820) Prec 89.062% (90.314%) Epoch: [15] [400/782] Time 0.040 (0.039)	Data 0.013 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Data 0.018 (0.013) Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss
Test: [0/157] Time 0.020 (0.020) Lo (84.375%) Test: [100/157] Time 0.018 (0.019) Lo (86.061%) * Prec 86.170% Epoch: [15] [0/782] Time 0.034 (0.034) 0.2711 (0.2711) Prec 89.062% (89.062%) Epoch: [15] [100/782] Time 0.044 (0.039) 0.2102 (0.2813) Prec 95.312% (90.269%) Epoch: [15] [200/782] Time 0.038 (0.039) 0.2161 (0.2842) Prec 95.312% (90.127%) Epoch: [15] [300/782] Time 0.040 (0.039) 0.2875 (0.2820) Prec 89.062% (90.314%) Epoch: [15] [400/782] Time 0.040 (0.039) 0.2188 (0.2876) Prec 90.625% (90.103%) Epoch: [15] [500/782] Time 0.044 (0.039)	Data 0.013 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Data 0.018 (0.013) Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss
Test: [0/157] Time 0.020 (0.020) Lo (84.375%) Test: [100/157] Time 0.018 (0.019) Lo (86.061%) * Prec 86.170% Epoch: [15] [0/782] Time 0.034 (0.034) 0.2711 (0.2711) Prec 89.062% (89.062%) Epoch: [15] [100/782] Time 0.044 (0.039) 0.2102 (0.2813) Prec 95.312% (90.269%) Epoch: [15] [200/782] Time 0.038 (0.039) 0.2161 (0.2842) Prec 95.312% (90.127%) Epoch: [15] [300/782] Time 0.040 (0.039) 0.2875 (0.2820) Prec 89.062% (90.314%) Epoch: [15] [400/782] Time 0.040 (0.039) 0.2188 (0.2876) Prec 90.625% (90.103%) Epoch: [15] [500/782] Time 0.044 (0.039) 0.2202 (0.2920) Prec 90.625% (90.001%) Epoch: [15] [600/782] Time 0.044 (0.039)	Data 0.013 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Data 0.018 (0.013) Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss Data 0.019 (0.013) Loss
Test: [0/157] Time 0.020 (0.020) Lo (84.375%) Test: [100/157] Time 0.018 (0.019) Lo (86.061%) * Prec 86.170% Epoch: [15] [0/782] Time 0.034 (0.034) 0.2711 (0.2711) Prec 89.062% (89.062%) Epoch: [15] [100/782] Time 0.044 (0.039) 0.2102 (0.2813) Prec 95.312% (90.269%) Epoch: [15] [200/782] Time 0.038 (0.039) 0.2161 (0.2842) Prec 95.312% (90.127%) Epoch: [15] [300/782] Time 0.040 (0.039) 0.2875 (0.2820) Prec 89.062% (90.314%) Epoch: [15] [400/782] Time 0.040 (0.039) 0.2188 (0.2876) Prec 90.625% (90.103%) Epoch: [15] [500/782] Time 0.044 (0.039) 0.2202 (0.2920) Prec 90.625% (90.001%) Epoch: [15] [600/782] Time 0.044 (0.039) 0.2585 (0.2915) Prec 90.625% (90.035%)	Data 0.013 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Data 0.018 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Data 0.019 (0.013) Data 0.019 (0.013) Loss Data 0.012 (0.013) Loss
Test: [0/157] Time 0.020 (0.020) Lo (84.375%) Test: [100/157] Time 0.018 (0.019) Lo (86.061%) * Prec 86.170% Epoch: [15] [0/782] Time 0.034 (0.034) 0.2711 (0.2711) Prec 89.062% (89.062%) Epoch: [15] [100/782] Time 0.044 (0.039) 0.2102 (0.2813) Prec 95.312% (90.269%) Epoch: [15] [200/782] Time 0.038 (0.039) 0.2161 (0.2842) Prec 95.312% (90.127%) Epoch: [15] [300/782] Time 0.040 (0.039) 0.2875 (0.2820) Prec 89.062% (90.314%) Epoch: [15] [400/782] Time 0.040 (0.039) 0.2188 (0.2876) Prec 90.625% (90.103%) Epoch: [15] [500/782] Time 0.044 (0.039) 0.2202 (0.2920) Prec 90.625% (90.001%) Epoch: [15] [600/782] Time 0.044 (0.039) 0.2585 (0.2915) Prec 90.625% (90.035%) Epoch: [15] [700/782] Time 0.039 (0.039) 0.5062 (0.2953) Prec 79.688% (89.831%)	Data 0.013 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Data 0.018 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Data 0.019 (0.013) Data 0.019 (0.013) Loss Data 0.012 (0.013) Loss
Test: [0/157] Time 0.020 (0.020) Lo (84.375%) Test: [100/157] Time 0.018 (0.019) Lo (86.061%) * Prec 86.170% Epoch: [15] [0/782] Time 0.034 (0.034) 0.2711 (0.2711) Prec 89.062% (89.062%) Epoch: [15] [100/782] Time 0.044 (0.039) 0.2102 (0.2813) Prec 95.312% (90.269%) Epoch: [15] [200/782] Time 0.038 (0.039) 0.2161 (0.2842) Prec 95.312% (90.127%) Epoch: [15] [300/782] Time 0.040 (0.039) 0.2875 (0.2820) Prec 89.062% (90.314%) Epoch: [15] [400/782] Time 0.040 (0.039) 0.2188 (0.2876) Prec 90.625% (90.103%) Epoch: [15] [500/782] Time 0.044 (0.039) 0.2202 (0.2920) Prec 90.625% (90.001%) Epoch: [15] [600/782] Time 0.044 (0.039) 0.2585 (0.2915) Prec 90.625% (90.035%) Epoch: [15] [700/782] Time 0.039 (0.039) 0.5062 (0.2953) Prec 79.688% (89.831%) Validation starts	Data 0.013 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Data 0.018 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Data 0.019 (0.013) Data 0.019 (0.013) Loss Data 0.012 (0.013) Loss

(89.062%) Test: [100/157] Time 0.018 (0.019) (85.876%) * Prec 85.750%	Loss	0.7967	(0.4417	') Prec	76.562%
Epoch: [16] [0/782] Time 0.031 (0.03 0.3744 (0.3744) Prec 90.625% (90.625%)		Data	0.016	(0.016)	Loss
Epoch: [16] [100/782] Time 0.034 (0.03 0.1119 (0.2979) Prec 96.875% (89.233%)	39)	Data	0.012	(0.013)	Loss
Epoch: [16][200/782] Time 0.039 (0.03 0.1867 (0.2912) Prec 92.188% (89.762)	39)	Data	0.012	(0.013)	Loss
Epoch: [16] [300/782] Time 0.039 (0.03 0.2318 (0.2908) Prec 90.625% (89.867)	39)	Data	0.013	(0.013)	Loss
Epoch: [16][400/782] Time 0.033 (0.03 0.4097 (0.2922) Prec 87.500% (89.853%)	39)	Data	0.012	(0.013)	Loss
Epoch: [16][500/782] Time 0.039 (0.03 0.3579 (0.2925) Prec 87.500% (89.920%)	39)	Data	0.012	(0.013)	Loss
Epoch: [16][600/782] Time 0.038 (0.03 0.3590 (0.2907) Prec 84.375% (89.991%)	39)	Data	0.012	(0.013)	Loss
Epoch: [16][700/782] Time 0.039 (0.03 0.2010 (0.2907) Prec 89.062% (89.967%)	39)	Data	0.013	(0.013)	Loss
Validation starts					
Test: [0/157] Time 0.022 (0.022)	Loss	0.3778	(0.3778	B) Prec	84.375%
(84.375%)	_		(0.400		05 000%
	Loss	0.5681	(0.4237) Prec	85.938%
(86.200%)					
* Prec 86.130%	26)	. .			
Epoch: [17] [0/782] Time 0.036 (0.03 0.3041 (0.3041) Prec 90.625% (90.625%)	30)		0.014	(0.014)	Logg
	/)	Data	0.014	(0.014)	Loss
Epoch: [17][100/782] Time 0.039 (0.03	39)			(0.014)	Loss
Epoch: [17][100/782] Time 0.039 (0.03 0.2481 (0.2706) Prec 89.062% (90.470%)	39) %)	Data	0.013		
Epoch: [17][100/782] Time 0.039 (0.03	39) %) 39)	Data	0.013	(0.013)	Loss
Epoch: [17][100/782] Time 0.039 (0.03 0.2481 (0.2706) Prec 89.062% (90.470% Epoch: [17][200/782] Time 0.034 (0.03	39) %) 39) %)	Data Data	0.013	(0.013)	Loss
Epoch: [17] [100/782] Time 0.039 (0.03 0.2481 (0.2706) Prec 89.062% (90.470% Epoch: [17] [200/782] Time 0.034 (0.03 0.2886 (0.2725) Prec 92.188% (90.516%)	39) %) 39) %) 39)	Data Data	0.013	(0.013)	Loss Loss
Epoch: [17] [100/782] Time 0.039 (0.03 0.2481 (0.2706) Prec 89.062% (90.470% Epoch: [17] [200/782] Time 0.034 (0.03 0.2886 (0.2725) Prec 92.188% (90.516% Epoch: [17] [300/782] Time 0.034 (0.03 0.1781 (0.2805) Prec 96.875% (90.371% Epoch: [17] [400/782] Time 0.039 (0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.0	39) %) 39) %) 39)	Data Data Data	0.013 0.012 0.012	(0.013)	Loss Loss
Epoch: [17][100/782] Time 0.039 (0.03 0.2481 (0.2706) Prec 89.062% (90.470% Epoch: [17][200/782] Time 0.034 (0.03 0.2886 (0.2725) Prec 92.188% (90.516% Epoch: [17][300/782] Time 0.034 (0.03 0.1781 (0.2805) Prec 96.875% (90.371% Epoch: [17][400/782] Time 0.039 (0.03 0.2288 (0.2801) Prec 90.625% (90.383%	39) %) 39) %) 39) %) 39)	Data Data Data Data	0.013 0.012 0.012 0.012	(0.013) (0.013) (0.013) (0.013)	Loss Loss Loss
Epoch: [17] [100/782] Time 0.039 (0.03 0.2481 (0.2706) Prec 89.062% (90.470% Epoch: [17] [200/782] Time 0.034 (0.03 0.2886 (0.2725) Prec 92.188% (90.516% Epoch: [17] [300/782] Time 0.034 (0.03 0.1781 (0.2805) Prec 96.875% (90.371% Epoch: [17] [400/782] Time 0.039 (0.03 0.2288 (0.2801) Prec 90.625% (90.383% Epoch: [17] [500/782] Time 0.039 (0.03 0.03 0.03 0.03 0.03 0.03	39) %) 39) %) 39) %) 39)	Data Data Data Data	0.013 0.012 0.012 0.012	(0.013) (0.013) (0.013)	Loss Loss Loss
Epoch: [17] [100/782] Time 0.039 (0.03 0.2481 (0.2706) Prec 89.062% (90.470% Epoch: [17] [200/782] Time 0.034 (0.03 0.2886 (0.2725) Prec 92.188% (90.516% Epoch: [17] [300/782] Time 0.034 (0.03 0.1781 (0.2805) Prec 96.875% (90.371% Epoch: [17] [400/782] Time 0.039 (0.03 0.2288 (0.2801) Prec 90.625% (90.383% Epoch: [17] [500/782] Time 0.039 (0.03 0.3076 (0.2838) Prec 87.500% (90.301% 90.301% 90.301% 90.301% 90.301%	39) (1) 39) (2) 39) (3) 39) (4) 39) (4) 39) (4)	Data Data Data Data	0.013 0.012 0.012 0.012 0.019	(0.013) (0.013) (0.013) (0.013) (0.013)	Loss Loss Loss Loss
Epoch: [17][100/782] Time 0.039 (0.03) 0.2481 (0.2706) Prec 89.062% (90.470%) Epoch: [17][200/782] Time 0.034 (0.03) 0.2886 (0.2725) Prec 92.188% (90.516%) Epoch: [17][300/782] Time 0.034 (0.03) 0.1781 (0.2805) Prec 96.875% (90.371%) Epoch: [17][400/782] Time 0.039 (0.03) 0.2288 (0.2801) Prec 90.625% (90.383%) Epoch: [17][500/782] Time 0.039 (0.03) 0.3076 (0.2838) Prec 87.500% (90.301%) Epoch: [17][600/782] Time 0.034 (0.03)	39) (1) 39) (2) 39) (3) 39) (4) 39) (4) 39)	Data Data Data Data	0.013 0.012 0.012 0.012 0.019	(0.013) (0.013) (0.013) (0.013)	Loss Loss Loss
Epoch: [17][100/782] Time 0.039 (0.03 0.2481 (0.2706) Prec 89.062% (90.470% Epoch: [17][200/782] Time 0.034 (0.03 0.2886 (0.2725) Prec 92.188% (90.516% Epoch: [17][300/782] Time 0.034 (0.03 0.1781 (0.2805) Prec 96.875% (90.371% Epoch: [17][400/782] Time 0.039 (0.03 0.2288 (0.2801) Prec 90.625% (90.383% Epoch: [17][500/782] Time 0.039 (0.03 0.3076 (0.2838) Prec 87.500% (90.301% Epoch: [17][600/782] Time 0.034 (0.03 0.3779 (0.2846) Prec 85.938% (90.282%	39) (1) 39) (2) 39) (3) 39) (3) (3) (4) 39) (4) 39) (4) (5)	Data Data Data Data Data	0.013 0.012 0.012 0.012 0.019 0.013	(0.013) (0.013) (0.013) (0.013) (0.013)	Loss Loss Loss Loss Loss
Epoch: [17][100/782] Time 0.039 (0.03) 0.2481 (0.2706) Prec 89.062% (90.470%) Epoch: [17][200/782] Time 0.034 (0.03) 0.2886 (0.2725) Prec 92.188% (90.516%) Epoch: [17][300/782] Time 0.034 (0.03) 0.1781 (0.2805) Prec 96.875% (90.371%) Epoch: [17][400/782] Time 0.039 (0.03) 0.2288 (0.2801) Prec 90.625% (90.383%) Epoch: [17][500/782] Time 0.039 (0.03) 0.3076 (0.2838) Prec 87.500% (90.301%) Epoch: [17][600/782] Time 0.034 (0.03) 0.3779 (0.2846) Prec 85.938% (90.282%) Epoch: [17][700/782] Time 0.045 (0.03)	39) (1) 39) (2) 39) (3) 39) (3) 39) (4) 39) (4) 39) (4) 39)	Data Data Data Data Data	0.013 0.012 0.012 0.012 0.019 0.013	(0.013) (0.013) (0.013) (0.013) (0.013)	Loss Loss Loss Loss
Epoch: [17] [100/782] Time 0.039 (0.03	39) (1) 39) (2) 39) (3) 39) (3) 39) (4) 39) (4) 39) (4) 39)	Data Data Data Data Data	0.013 0.012 0.012 0.012 0.019 0.013	(0.013) (0.013) (0.013) (0.013) (0.013)	Loss Loss Loss Loss Loss
Epoch: [17][100/782] Time 0.039 (0.03) 0.2481 (0.2706) Prec 89.062% (90.470%) Epoch: [17][200/782] Time 0.034 (0.03) 0.2886 (0.2725) Prec 92.188% (90.516%) Epoch: [17][300/782] Time 0.034 (0.03) 0.1781 (0.2805) Prec 96.875% (90.371%) Epoch: [17][400/782] Time 0.039 (0.03) 0.2288 (0.2801) Prec 90.625% (90.383%) Epoch: [17][500/782] Time 0.039 (0.03) 0.3076 (0.2838) Prec 87.500% (90.301%) Epoch: [17][600/782] Time 0.034 (0.03) 0.3779 (0.2846) Prec 85.938% (90.282%) Epoch: [17][700/782] Time 0.045 (0.03) 0.2481 (0.2838) Prec 92.188% (90.320%) Validation starts	39) (1) 39) (2) 39) (3) 39) (3) 39) (4) 39) (4) 39) (4) 39) (4) 39)	Data Data Data Data Data Data	0.013 0.012 0.012 0.012 0.019 0.013	(0.013) (0.013) (0.013) (0.013) (0.013) (0.013)	Loss Loss Loss Loss Loss
Epoch: [17] [100/782] Time 0.039 (0.03	39) (1) 39) (2) 39) (3) 39) (3) 39) (4) 39) (4) 39) (4) 39) (4) 39)	Data Data Data Data Data Data	0.013 0.012 0.012 0.012 0.019 0.013	(0.013) (0.013) (0.013) (0.013) (0.013) (0.013)	Loss Loss Loss Loss Loss
Epoch: [17][100/782] Time 0.039 (0.03 0.2481 (0.2706) Prec 89.062% (90.470% Epoch: [17][200/782] Time 0.034 (0.03 0.2886 (0.2725) Prec 92.188% (90.516% Epoch: [17][300/782] Time 0.034 (0.03 0.1781 (0.2805) Prec 96.875% (90.371% Epoch: [17][400/782] Time 0.039 (0.03 0.2288 (0.2801) Prec 90.625% (90.383% Epoch: [17][500/782] Time 0.039 (0.03 0.3076 (0.2838) Prec 87.500% (90.301% Epoch: [17][600/782] Time 0.034 (0.03 0.3779 (0.2846) Prec 85.938% (90.282% Epoch: [17][700/782] Time 0.045 (0.03 0.2481 (0.2838) Prec 92.188% (90.320% Validation starts Test: [0/157] Time 0.023 (0.023)	39) (1) 39) (2) 39) (3) 39) (3) 39) (4) 39) (4) 39) (5) 4) Loss	Data Data Data Data Data Data 0.3710	0.013 0.012 0.012 0.012 0.019 0.013 0.013	(0.013) (0.013) (0.013) (0.013) (0.013) (0.013) (0.013)	Loss Loss Loss Loss Loss Loss
Epoch: [17][100/782] Time 0.039 (0.03 0.2481 (0.2706) Prec 89.062% (90.470% Epoch: [17][200/782] Time 0.034 (0.03 0.2886 (0.2725) Prec 92.188% (90.516% Epoch: [17][300/782] Time 0.034 (0.03 0.1781 (0.2805) Prec 96.875% (90.371% Epoch: [17][400/782] Time 0.039 (0.03 0.2288 (0.2801) Prec 90.625% (90.383% Epoch: [17][500/782] Time 0.039 (0.03 0.3076 (0.2838) Prec 87.500% (90.301% Epoch: [17][600/782] Time 0.034 (0.03 0.3779 (0.2846) Prec 85.938% (90.282% Epoch: [17][700/782] Time 0.045 (0.03 0.2481 (0.2838) Prec 92.188% (90.320% Validation starts Test: [0/157] Time 0.023 (0.023) (85.938%)	39) (1) 39) (2) 39) (3) 39) (3) 39) (4) 39) (4) 39) (5) 4) Loss	Data Data Data Data Data Data 0.3710	0.013 0.012 0.012 0.012 0.019 0.013 0.013	(0.013) (0.013) (0.013) (0.013) (0.013) (0.013) (0.013)	Loss Loss Loss Loss Loss Loss

Epoch: [18][0/782] Time 0.035 (0.0	
0.2810 (0.2810) Prec 90.625% (90.625	
Epoch: [18] [100/782] Time 0.039 (0.0	
0.1881 (0.2636) Prec 92.188% (90.919	
Epoch: [18] [200/782] Time 0.039 (0.0	
0.2571 (0.2716) Prec 90.625% (90.446	
Epoch: [18] [300/782] Time 0.039 (0.0	
0.1741 (0.2706) Prec 93.750% (90.594) Epoch: [18] [400/782] Time 0.040 (0.0	
0.2151 (0.2702) Prec 93.750% (90.586	
Epoch: [18] [500/782] Time 0.040 (0.0	
0.2562 (0.2750) Prec 90.625% (90.438	
Epoch: [18] [600/782] Time 0.039 (0.0	
0.2990 (0.2755) Prec 87.500% (90.451	
Epoch: [18] [700/782] Time 0.045 (0.0	
0.5256 (0.2786) Prec 84.375% (90.382	
Validation starts	/o /
Test: [0/157] Time 0.021 (0.021)	Loss 0.4025 (0.4025) Prec 85.938%
(85.938%)	LOSS 0.4025 (0.4025) Fiec 05.950%
Test: [100/157] Time 0.018 (0.018)	Loss 0.5749 (0.4282) Prec 82.812%
(86.247%)	LOSS 0.3743 (0.4202) FIEC 02.012%
* Prec 86.300%	
Epoch: [19] [0/782] Time 0.028 (0.0	28) Data 0.013 (0.013) Loss
0.2865 (0.2865) Prec 89.062% (89.062	
Epoch: [19] [100/782] Time 0.038 (0.0	
0.3494 (0.2540) Prec 90.625% (91.306	
Epoch: [19] [200/782] Time 0.034 (0.0	
0.1386 (0.2625) Prec 95.312% (90.866	
Epoch: [19] [300/782] Time 0.034 (0.0	
0.2174 (0.2665) Prec 93.750% (90.718	
Epoch: [19] [400/782] Time 0.035 (0.0	
0.2323 (0.2692) Prec 93.750% (90.578	
Epoch: [19] [500/782] Time 0.039 (0.0	
0.3193 (0.2675) Prec 89.062% (90.666	
Epoch: [19][600/782] Time 0.038 (0.0	
0.2730 (0.2684) Prec 89.062% (90.687	
Epoch: [19][700/782] Time 0.036 (0.0	
0.2881 (0.2707) Prec 89.062% (90.629	
Validation starts	
Test: [0/157] Time 0.023 (0.023)	Loss 0.3782 (0.3782) Prec 84.375%
(84.375%)	
Test: [100/157] Time 0.018 (0.019)	Loss 0.4261 (0.3914) Prec 85.938%
(87.268%)	
* Prec 86.980%	
Pruning 7 ic-slices out of 64 ic-slices	(10.9% pruned)
Pruning 7 ic-slices out of 64 ic-slices	
	_
Pruning 14 ic-slices out of 128 ic-slice Pruning 14 ic-slices out of 128 ic-slices	es (10.9% pruned)

```
Pruning 28 ic-slices out of 256 ic-slices (10.9% pruned)
Pruning 28 ic-slices out of 256 ic-slices (10.9% pruned)
Pruning 28 ic-slices out of 256 ic-slices (10.9% pruned)
Pruning 57 ic-slices out of 512 ic-slices (11.1% pruned)
Pruning 57 ic-slices out of 512 ic-slices (11.1% pruned)
Pruning 57 ic-slices out of 512 ic-slices (11.1% pruned)
Pruning 57 ic-slices out of 512 ic-slices (11.1% pruned)
Pruning 57 ic-slices out of 512 ic-slices (11.1% pruned)
Epoch: [20] [0/782]
                        Time 0.037 (0.037)
                                                 Data 0.014 (0.014)
                                                                          Loss
2.5007 (2.5007)
                   Prec 40.625% (40.625%)
Epoch: [20] [100/782]
                                                 Data 0.012 (0.013)
                        Time 0.040 (0.039)
                                                                          Loss
0.6477 (1.0380)
                   Prec 78.125% (65.749%)
Epoch: [20] [200/782]
                        Time 0.040 (0.040)
                                                 Data 0.012 (0.013)
                                                                          Loss
0.5912 (0.8848)
                   Prec 81.250% (70.600%)
Epoch: [20] [300/782]
                         Time 0.038 (0.040)
                                                 Data 0.012 (0.013)
                                                                          Loss
0.6448 (0.8074)
                   Prec 79.688% (73.012%)
Epoch: [20] [400/782]
                        Time 0.044 (0.040)
                                                 Data 0.012 (0.013)
                                                                          Loss
0.6394 (0.7664)
                   Prec 75.000% (74.236%)
Epoch: [20] [500/782]
                        Time 0.039 (0.040)
                                                 Data 0.012 (0.013)
                                                                          Loss
                   Prec 73.438% (75.356%)
0.6834 (0.7315)
Epoch: [20] [600/782]
                        Time 0.039 (0.040)
                                                 Data 0.012 (0.013)
                                                                          Loss
0.4418 (0.7028)
                   Prec 85.938% (76.279%)
Epoch: [20] [700/782]
                        Time 0.044 (0.040)
                                                 Data 0.012 (0.013)
                                                                          Loss
0.4510 (0.6817)
                   Prec 84.375% (77.055%)
Validation starts
Test: [0/157]
                Time 0.024 (0.024)
                                         Loss 0.6488 (0.6488)
                                                                  Prec 84.375%
(84.375\%)
Test: [100/157] Time 0.018 (0.019)
                                         Loss 0.6246 (0.5710)
                                                                  Prec 81.250%
(81.002\%)
 * Prec 80.990%
best acc: 80.990000
                        Time 0.036 (0.036)
                                                 Data 0.014 (0.014)
Epoch: [21] [0/782]
                                                                          Loss
0.5637 (0.5637)
                   Prec 78.125% (78.125%)
Epoch: [21] [100/782]
                        Time 0.040 (0.039)
                                                 Data 0.013 (0.013)
                                                                          Loss
0.5234 (0.5433)
                   Prec 82.812% (81.420%)
Epoch: [21] [200/782]
                        Time 0.039 (0.039)
                                                 Data 0.013 (0.013)
                                                                          Loss
0.4766 (0.5324)
                   Prec 81.250% (82.082%)
Epoch: [21] [300/782]
                        Time 0.039 (0.039)
                                                 Data 0.018 (0.013)
                                                                          Loss
0.5814 (0.5213)
                   Prec 79.688% (82.460%)
Epoch: [21] [400/782]
                                                 Data 0.019 (0.013)
                         Time 0.039 (0.039)
                                                                          Loss
0.3873 (0.5152)
                   Prec 87.500% (82.637%)
Epoch: [21] [500/782]
                        Time 0.038 (0.039)
                                                 Data 0.012 (0.013)
                                                                          Loss
0.3601 (0.5120)
                   Prec 84.375% (82.706%)
Epoch: [21] [600/782]
                                                 Data 0.012 (0.013)
                        Time 0.039 (0.039)
                                                                          Loss
0.4040 (0.5093)
                   Prec 85.938% (82.748%)
Epoch: [21] [700/782]
                        Time 0.039 (0.039)
                                                 Data 0.012 (0.013)
                                                                          Loss
0.2950 (0.5040)
                   Prec 89.062% (82.886%)
Validation starts
```

Test: [0/157] Time 0.025 (0.025) Lo (81.250%)	ss 0.6350 (0.6350) Prec 81.250%
Test: [100/157] Time 0.019 (0.018) Lo	ss 0.6148 (0.5549) Prec 81.250%
(81.761%)	22 0.0110 (0.0010) 1100 01.200%
* Prec 81.620%	
best acc: 81.620000	
Epoch: [22][0/782] Time 0.029 (0.029)	Data 0.014 (0.014) Loss
0.8377 (0.8377) Prec 73.438% (73.438%)	
Epoch: [22][100/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.3813 (0.4793) Prec 87.500% (83.524%)	
Epoch: [22][200/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.8593 (0.4817) Prec 71.875% (83.543%)	
Epoch: [22] [300/782] Time 0.042 (0.039)	Data 0.012 (0.013) Loss
0.4472 (0.4663) Prec 85.938% (84.032%)	D
Epoch: [22] [400/782] Time 0.045 (0.039)	Data 0.012 (0.013) Loss
0.6290 (0.4656) Prec 81.250% (83.970%)	Data 0 010 (0 012)
Epoch: [22] [500/782] Time 0.039 (0.039) 0.4103 (0.4662) Prec 90.625% (83.973%)	Data 0.012 (0.013) Loss
Epoch: [22] [600/782] Time 0.044 (0.039)	Data 0.012 (0.013) Loss
0.5095 (0.4679) Prec 84.375% (83.956%)	Data 0.012 (0.013) LOSS
Epoch: [22] [700/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.5348 (0.4631) Prec 81.250% (84.045%)	2002 0.012 (0.010)
Validation starts	
Test: [0/157] Time 0.018 (0.018) Lo	ss 0 4947 (0 4947) Prec 85 938%
	DD 0.1017 (0.1017) 1100 00.0007
(85.938%)	25 0.1511 (0.1511) 1100 00.000%
(85.938%) Test: [100/157] Time 0.018 (0.018) Lo	
Test: [100/157] Time 0.018 (0.018) Lo	
Test: [100/157] Time 0.018 (0.018) Lo (83.029%) * Prec 83.310% best acc: 83.310000	ss 0.5224 (0.5146) Prec 82.812%
Test: [100/157] Time 0.018 (0.018) Lo (83.029%) * Prec 83.310% best acc: 83.310000 Epoch: [23] [0/782] Time 0.042 (0.042)	ss 0.5224 (0.5146) Prec 82.812%
Test: [100/157] Time 0.018 (0.018) Lo (83.029%) * Prec 83.310% best acc: 83.310000 Epoch: [23] [0/782] Time 0.042 (0.042) 0.5566 (0.5566) Prec 82.812% (82.812%)	ss 0.5224 (0.5146) Prec 82.812% Data 0.018 (0.018) Loss
Test: [100/157] Time 0.018 (0.018) Lo (83.029%) * Prec 83.310% best acc: 83.310000 Epoch: [23] [0/782] Time 0.042 (0.042) 0.5566 (0.5566) Prec 82.812% (82.812%) Epoch: [23] [100/782] Time 0.040 (0.039)	ss 0.5224 (0.5146) Prec 82.812%
Test: [100/157] Time 0.018 (0.018) Lo (83.029%) * Prec 83.310% best acc: 83.310000 Epoch: [23] [0/782] Time 0.042 (0.042) 0.5566 (0.5566) Prec 82.812% (82.812%) Epoch: [23] [100/782] Time 0.040 (0.039) 0.4421 (0.4303) Prec 87.500% (85.350%)	Data 0.018 (0.018) Loss Data 0.012 (0.013) Loss
Test: [100/157] Time 0.018 (0.018) Lo (83.029%) * Prec 83.310% best acc: 83.310000 Epoch: [23] [0/782] Time 0.042 (0.042) 0.5566 (0.5566) Prec 82.812% (82.812%) Epoch: [23] [100/782] Time 0.040 (0.039) 0.4421 (0.4303) Prec 87.500% (85.350%) Epoch: [23] [200/782] Time 0.033 (0.039)	Data 0.018 (0.018) Loss Data 0.012 (0.013) Loss
Test: [100/157] Time 0.018 (0.018) Lo (83.029%) * Prec 83.310% best acc: 83.310000 Epoch: [23] [0/782] Time 0.042 (0.042) 0.5566 (0.5566) Prec 82.812% (82.812%) Epoch: [23] [100/782] Time 0.040 (0.039) 0.4421 (0.4303) Prec 87.500% (85.350%) Epoch: [23] [200/782] Time 0.033 (0.039) 0.4373 (0.4237) Prec 85.938% (85.386%)	Data 0.018 (0.018) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss
Test: [100/157] Time 0.018 (0.018) Lo (83.029%) * Prec 83.310% best acc: 83.310000 Epoch: [23] [0/782] Time 0.042 (0.042) 0.5566 (0.5566) Prec 82.812% (82.812%) Epoch: [23] [100/782] Time 0.040 (0.039) 0.4421 (0.4303) Prec 87.500% (85.350%) Epoch: [23] [200/782] Time 0.033 (0.039) 0.4373 (0.4237) Prec 85.938% (85.386%) Epoch: [23] [300/782] Time 0.039 (0.039)	Data 0.018 (0.018) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss
Test: [100/157] Time 0.018 (0.018) Lo (83.029%) * Prec 83.310% best acc: 83.310000 Epoch: [23] [0/782] Time 0.042 (0.042) 0.5566 (0.5566) Prec 82.812% (82.812%) Epoch: [23] [100/782] Time 0.040 (0.039) 0.4421 (0.4303) Prec 87.500% (85.350%) Epoch: [23] [200/782] Time 0.033 (0.039) 0.4373 (0.4237) Prec 85.938% (85.386%) Epoch: [23] [300/782] Time 0.039 (0.039) 0.3685 (0.4347) Prec 87.500% (85.128%)	Data 0.018 (0.018) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss
Test: [100/157] Time 0.018 (0.018) Lo (83.029%) * Prec 83.310% best acc: 83.310000 Epoch: [23] [0/782] Time 0.042 (0.042) 0.5566 (0.5566) Prec 82.812% (82.812%) Epoch: [23] [100/782] Time 0.040 (0.039) 0.4421 (0.4303) Prec 87.500% (85.350%) Epoch: [23] [200/782] Time 0.033 (0.039) 0.4373 (0.4237) Prec 85.938% (85.386%) Epoch: [23] [300/782] Time 0.039 (0.039) 0.3685 (0.4347) Prec 87.500% (85.128%) Epoch: [23] [400/782] Time 0.039 (0.039)	Data 0.018 (0.018) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss
Test: [100/157] Time 0.018 (0.018) Lo (83.029%) * Prec 83.310% best acc: 83.310000 Epoch: [23] [0/782] Time 0.042 (0.042) 0.5566 (0.5566) Prec 82.812% (82.812%) Epoch: [23] [100/782] Time 0.040 (0.039) 0.4421 (0.4303) Prec 87.500% (85.350%) Epoch: [23] [200/782] Time 0.033 (0.039) 0.4373 (0.4237) Prec 85.938% (85.386%) Epoch: [23] [300/782] Time 0.039 (0.039) 0.3685 (0.4347) Prec 87.500% (85.128%) Epoch: [23] [400/782] Time 0.039 (0.039) 0.4543 (0.4375) Prec 82.812% (85.076%)	Data 0.018 (0.018) Data 0.018 (0.018) Data 0.012 (0.013) Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss
Test: [100/157] Time 0.018 (0.018) Lo (83.029%) * Prec 83.310% best acc: 83.310000 Epoch: [23] [0/782] Time 0.042 (0.042) 0.5566 (0.5566) Prec 82.812% (82.812%) Epoch: [23] [100/782] Time 0.040 (0.039) 0.4421 (0.4303) Prec 87.500% (85.350%) Epoch: [23] [200/782] Time 0.033 (0.039) 0.4373 (0.4237) Prec 85.938% (85.386%) Epoch: [23] [300/782] Time 0.039 (0.039) 0.3685 (0.4347) Prec 87.500% (85.128%) Epoch: [23] [400/782] Time 0.039 (0.039) 0.4543 (0.4375) Prec 82.812% (85.076%) Epoch: [23] [500/782] Time 0.045 (0.039)	Data 0.018 (0.018) Data 0.018 (0.018) Data 0.012 (0.013) Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss
Test: [100/157] Time 0.018 (0.018) Lo (83.029%) * Prec 83.310% best acc: 83.310000 Epoch: [23] [0/782] Time 0.042 (0.042) 0.5566 (0.5566) Prec 82.812% (82.812%) Epoch: [23] [100/782] Time 0.040 (0.039) 0.4421 (0.4303) Prec 87.500% (85.350%) Epoch: [23] [200/782] Time 0.033 (0.039) 0.4373 (0.4237) Prec 85.938% (85.386%) Epoch: [23] [300/782] Time 0.039 (0.039) 0.3685 (0.4347) Prec 87.500% (85.128%) Epoch: [23] [400/782] Time 0.039 (0.039) 0.4543 (0.4375) Prec 82.812% (85.076%)	Data 0.018 (0.018) Loss Data 0.012 (0.013) Loss
Test: [100/157] Time 0.018 (0.018) Lo (83.029%) * Prec 83.310% best acc: 83.310000 Epoch: [23] [0/782] Time 0.042 (0.042) 0.5566 (0.5566) Prec 82.812% (82.812%) Epoch: [23] [100/782] Time 0.040 (0.039) 0.4421 (0.4303) Prec 87.500% (85.350%) Epoch: [23] [200/782] Time 0.033 (0.039) 0.4373 (0.4237) Prec 85.938% (85.386%) Epoch: [23] [300/782] Time 0.039 (0.039) 0.3685 (0.4347) Prec 87.500% (85.128%) Epoch: [23] [400/782] Time 0.039 (0.039) 0.4543 (0.4375) Prec 82.812% (85.076%) Epoch: [23] [500/782] Time 0.045 (0.039) 0.7887 (0.4386) Prec 68.750% (84.952%)	Data 0.018 (0.018) Loss Data 0.012 (0.013) Loss
Test: [100/157] Time 0.018 (0.018) Lo (83.029%) * Prec 83.310% best acc: 83.310000 Epoch: [23] [0/782] Time 0.042 (0.042) 0.5566 (0.5566) Prec 82.812% (82.812%) Epoch: [23] [100/782] Time 0.040 (0.039) 0.4421 (0.4303) Prec 87.500% (85.350%) Epoch: [23] [200/782] Time 0.033 (0.039) 0.4373 (0.4237) Prec 85.938% (85.386%) Epoch: [23] [300/782] Time 0.039 (0.039) 0.3685 (0.4347) Prec 87.500% (85.128%) Epoch: [23] [400/782] Time 0.039 (0.039) 0.4543 (0.4375) Prec 82.812% (85.076%) Epoch: [23] [500/782] Time 0.045 (0.039) 0.7887 (0.4386) Prec 68.750% (84.952%) Epoch: [23] [600/782] Time 0.044 (0.039)	Data 0.018 (0.018) Data 0.018 (0.018) Data 0.012 (0.013) Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss
Test: [100/157] Time 0.018 (0.018) Lo (83.029%) * Prec 83.310% best acc: 83.310000 Epoch: [23] [0/782] Time 0.042 (0.042) 0.5566 (0.5566) Prec 82.812% (82.812%) Epoch: [23] [100/782] Time 0.040 (0.039) 0.4421 (0.4303) Prec 87.500% (85.350%) Epoch: [23] [200/782] Time 0.033 (0.039) 0.4373 (0.4237) Prec 85.938% (85.386%) Epoch: [23] [300/782] Time 0.039 (0.039) 0.3685 (0.4347) Prec 87.500% (85.128%) Epoch: [23] [400/782] Time 0.039 (0.039) 0.4543 (0.4375) Prec 82.812% (85.076%) Epoch: [23] [500/782] Time 0.045 (0.039) 0.7887 (0.4386) Prec 68.750% (84.952%) Epoch: [23] [600/782] Time 0.044 (0.039) 0.3746 (0.4396) Prec 85.938% (84.934%)	Data 0.018 (0.018) Data 0.018 (0.018) Data 0.012 (0.013) Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss
Test: [100/157] Time 0.018 (0.018) Lo (83.029%) * Prec 83.310% best acc: 83.310000 Epoch: [23] [0/782] Time 0.042 (0.042) 0.5566 (0.5566) Prec 82.812% (82.812%) Epoch: [23] [100/782] Time 0.040 (0.039) 0.4421 (0.4303) Prec 87.500% (85.350%) Epoch: [23] [200/782] Time 0.033 (0.039) 0.4373 (0.4237) Prec 85.938% (85.386%) Epoch: [23] [300/782] Time 0.039 (0.039) 0.3685 (0.4347) Prec 87.500% (85.128%) Epoch: [23] [400/782] Time 0.039 (0.039) 0.4543 (0.4375) Prec 82.812% (85.076%) Epoch: [23] [500/782] Time 0.045 (0.039) 0.7887 (0.4386) Prec 68.750% (84.952%) Epoch: [23] [600/782] Time 0.044 (0.039) 0.3746 (0.4396) Prec 85.938% (84.934%) Epoch: [23] [700/782] Time 0.039 (0.039) 0.5266 (0.4420) Prec 82.812% (84.870%) Validation starts	Data 0.018 (0.018) Data 0.018 (0.018) Data 0.012 (0.013) Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss
Test: [100/157] Time 0.018 (0.018) Lo (83.029%) * Prec 83.310% best acc: 83.310000 Epoch: [23] [0/782] Time 0.042 (0.042) 0.5566 (0.5566) Prec 82.812% (82.812%) Epoch: [23] [100/782] Time 0.040 (0.039) 0.4421 (0.4303) Prec 87.500% (85.350%) Epoch: [23] [200/782] Time 0.033 (0.039) 0.4373 (0.4237) Prec 85.938% (85.386%) Epoch: [23] [300/782] Time 0.039 (0.039) 0.3685 (0.4347) Prec 87.500% (85.128%) Epoch: [23] [400/782] Time 0.039 (0.039) 0.4543 (0.4375) Prec 82.812% (85.076%) Epoch: [23] [500/782] Time 0.045 (0.039) 0.7887 (0.4386) Prec 68.750% (84.952%) Epoch: [23] [600/782] Time 0.044 (0.039) 0.3746 (0.4396) Prec 85.938% (84.934%) Epoch: [23] [700/782] Time 0.039 (0.039) 0.5266 (0.4420) Prec 82.812% (84.870%) Validation starts	Data 0.018 (0.018) Data 0.018 (0.018) Data 0.012 (0.013) Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss

Test: [100/157] Time 0.018 (0.019) (84.050%)	Loss	0.5243	(0.4773)	Prec	81.250%
* Prec 84.150%					
best acc: 84.150000	>	_		>	_
Epoch: [24] [0/782] Time 0.033 (0		Data	0.018 (0.0)18)	Loss
0.2704 (0.2704) Prec 90.625% (90.6					
Epoch: [24] [100/782] Time 0.038 (0		Data	0.012 (0.0)13)	Loss
0.4748 (0.4262) Prec 84.375% (85.5					
Epoch: [24][200/782] Time 0.039 (0		Data	0.019 (0.0)13)	Loss
0.2261 (0.4202) Prec 93.750% (85.5					
Epoch: [24] [300/782] Time 0.039 (0		Data	0.012 (0.0	13)	Loss
0.3291 (0.4211) Prec 92.188% (85.6	21%)				
Epoch: [24] [400/782] Time 0.044 (0	.039)	Data	0.012 (0.0	13)	Loss
0.4737 (0.4237) Prec 78.125% (85.4					
Epoch: [24] [500/782] Time 0.039 (0	.039)	Data	0.019 (0.0	13)	Loss
0.6197 (0.4212) Prec 81.250% (85.5	73%)				
Epoch: [24][600/782] Time 0.038 (0	.039)	Data	0.012 (0.0)13)	Loss
0.3244 (0.4216) Prec 90.625% (85.4	98%)				
Epoch: [24][700/782] Time 0.044 (0	.039)	Data	0.012 (0.0)13)	Loss
0.3300 (0.4210) Prec 92.188% (85.5	63%)				
Validation starts					
Test: [0/157] Time 0.024 (0.024)	Loss	0.5489	(0.5489)	Prec	84.375%
(84.375%)					
Test: [100/157] Time 0.019 (0.018)	Loss	0.6074	(0.5048)	Prec	75.000%
(83.060%)					
* Prec 83.060%					
best acc: 84.150000					
Epoch: [25][0/782] Time 0.032 (0	.032)	Data	0.016 (0.0)16)	Loss
0.5343 (0.5343) Prec 79.688% (79.6					
Epoch: [25][100/782] Time 0.039 (0		Data	0.012 (0.0)13)	Loss
0.3847 (0.4213) Prec 84.375% (85.7					
Epoch: [25] [200/782] Time 0.033 (0		Data	0.012 (0.0)13)	Loss
0.5266 (0.4128) Prec 79.688% (85.8			·	·	
Epoch: [25][300/782] Time 0.034 (0		Data	0.012 (0.0)13)	Loss
0.4060 (0.4114) Prec 87.500% (85.7				,	
Epoch: [25] [400/782] Time 0.046 (0		Data	0.012 (0.0)13)	Loss
0.4463 (0.4148) Prec 84.375% (85.7				,	
Epoch: [25] [500/782] Time 0.038 (0		Data	0.019 (0.0)13)	Loss
0.4359 (0.4183) Prec 85.938% (85.6		2			
Epoch: [25] [600/782] Time 0.039 (0		Data	0.019 (0.0)13)	Loss
0.2676 (0.4176) Prec 92.188% (85.7		Dava	(0.010	10)	2000
Epoch: [25] [700/782] Time 0.034 (0		Data	0.012 (0.0	113)	Loss
0.4420 (0.4172) Prec 87.500% (85.7		Dava	0.012 (0.0	,10)	ДОВВ
Validation starts	12/0/				
Test: [0/157] Time 0.022 (0.022)	Ingg	0 4930	(0 4930)	Prec	81 250%
(81.250%)	TOBB	J. 1000	(0.1000)	1160	J1.200/
Test: [100/157] Time 0.018 (0.019)	I.ngg	0.7524	(0.5055)	Prec	81.250%
(84.220%)	TOBB	J.1024	(0.000)	1160	J1.200/
(01.220/0/					

* Prec 83.640%	
best acc: 84.150000 Epoch: [26] [0/782] Time 0.039 (0.03)	39) Data 0.016 (0.016) Loss
0.4780 (0.4780) Prec 76.562% (76.562%)	
Epoch: [26][100/782] Time 0.038 (0.03	
0.5191 (0.4040) Prec 81.250% (85.984)	
Epoch: [26] [200/782] Time 0.043 (0.03 0.5016 (0.4040) Prec 84.375% (85.969)	
Epoch: [26] [300/782] Time 0.034 (0.03	
0.5326 (0.4047) Prec 84.375% (85.963)	
Epoch: [26] [400/782] Time 0.045 (0.03	
0.5474 (0.4089) Prec 84.375% (85.786)	
Epoch: [26] [500/782] Time 0.039 (0.03 0.5277 (0.4055) Prec 82.812% (85.900)	
Epoch: [26] [600/782] Time 0.045 (0.03	
0.4809 (0.4051) Prec 84.375% (85.935)	
Epoch: [26][700/782] Time 0.034 (0.03	39) Data 0.012 (0.012) Loss
0.3338 (0.4016) Prec 90.625% (86.058)	%)
Validation starts	I 0.00 (0.00 (0.00) Drop 00.010%
Test: [0/157] Time 0.025 (0.025) (82.812%)	Loss 0.5805 (0.5805) Prec 82.812%
Test: [100/157] Time 0.018 (0.018)	Loss 0.5117 (0.4740) Prec 79.688%
(83.555%)	
* Prec 83.840%	
best acc: 84.150000	
Epoch: [27][0/782] Time 0.039 (0.03	
Epoch: [27] [0/782] Time 0.039 (0.03 0.3668 (0.3668) Prec 87.500% (87.500%)	%)
Epoch: [27] [0/782] Time 0.039 (0.03 0.3668 (0.3668) Prec 87.500% (87.500% Epoch: [27] [100/782] Time 0.035 (0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.0	%) 39)
Epoch: [27] [0/782] Time 0.039 (0.03 0.3668 (0.3668) Prec 87.500% (87.500%)	%) 39)
Epoch: [27] [0/782] Time 0.039 (0.03 0.3668 (0.3668) Prec 87.500% (87.500% Epoch: [27] [100/782] Time 0.035 (0.03 0.4018 (0.3868) Prec 85.938% (86.912% Epoch: [27] [200/782] Time 0.039 (0.03 0.3411 (0.3798) Prec 87.500% (87.026% 1.00	%) 39) Data 0.012 (0.013) Loss %) 39) Data 0.018 (0.013) Loss %)
Epoch: [27] [0/782] Time 0.039 (0.03 0.3668 (0.3668) Prec 87.500% (87.500% 0.4018 (0.3868) Prec 85.938% (86.912% 0.3411 (0.3798) Prec 87.500% (87.026% 0.3411 (0.3798) Prec 87.500% (87.026% 0.5006) Time 0.044 (0.036% 0.5006)	%) 39) Data 0.012 (0.013) Loss %) 39) Data 0.018 (0.013) Loss %) 39) Data 0.012 (0.013) Loss
Epoch: [27] [0/782] Time 0.039 (0.03 0.3668 (0.3668) Prec 87.500% (87.500% (87.500% 0.4018 (0.3868) Prec 85.938% (86.912% 0.4018 (0.3868) Prec 85.938% (86.912% 0.3411 (0.3798) Prec 87.500% (87.026% Epoch: [27] [300/782] Time 0.044 (0.03 0.5510 (0.3867) Prec 81.250% (86.778% 0.5510 (0.3867) Prec 81.250% (86.778% 0.5510 (0.3867) Prec 81.250% (86.778% 0.5510 (0.3867) Prec 87.500% (86.778% 0.5510 (0.3867) Prec 81.250% (86.788% 0.5510 (0.3867) Prec 81.250% (86.788% 0.5510 (0.388% 0.5510 (0.3880) Prec 81.250% (86.788% 0.5510 (0.388% 0.5510 (0.388% 0.5510 (0.388% 0	%) 39) Data 0.012 (0.013) Loss %) 39) Data 0.018 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %)
Epoch: [27] [0/782] Time 0.039 (0.03 0.3668 (0.3668) Prec 87.500% (87.500% (87.500% 0.4018 (0.3868) Prec 85.938% (86.912% 0.4018 (0.3868) Prec 85.938% (86.912% 0.3411 (0.3798) Prec 87.500% (87.026% 0.5510 (0.3867) Prec 81.250% (86.778% 0.5510 (0.3867) Prec 81.250% 0.5510 (0.3867) Prec 81.250% 0.5510 (0.3867) Prec 81.250% 0.5510 (0.386	%) 39) Data 0.012 (0.013) Loss %) 39) Data 0.018 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.012 (0.013) Loss
Epoch: [27] [0/782] Time 0.039 (0.03) 0.3668 (0.3668) Prec 87.500% (87.500) 0.4018 (0.3868) Prec 85.938% (86.912) 0.4018 (0.3868) Prec 85.938% (86.912) 0.3411 (0.3798) Prec 87.500% (87.026) 0.5510 (0.3867) Prec 81.250% (86.778) Epoch: [27] [400/782] Time 0.043 (0.03) 0.2957 (0.3887) Prec 90.625% (86.678)	%) 39) Data 0.012 (0.013) Loss %) 39) Data 0.018 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %)
Epoch: [27] [0/782] Time 0.039 (0.03 0.3668 (0.3668) Prec 87.500% (87.500% (87.500% 0.4018 (0.3868) Prec 85.938% (86.912% 0.4018 (0.3868) Prec 85.938% (86.912% 0.3411 (0.3798) Prec 87.500% (87.026% 0.5510 (0.3867) Prec 81.250% (86.778% 0.5510 (0.3867) Prec 81.250% 0.5510 (0.3867) Prec 81.250% 0.5510 (0.3867) Prec 81.250% 0.5510 (0.386	%) 39) Data 0.012 (0.013) Loss %) 39) Data 0.018 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %)
Epoch: [27] [0/782] Time 0.039 (0.03) 0.3668 (0.3668) Prec 87.500% (87.500) Epoch: [27] [100/782] Time 0.035 (0.03) 0.4018 (0.3868) Prec 85.938% (86.912) Epoch: [27] [200/782] Time 0.039 (0.03) 0.3411 (0.3798) Prec 87.500% (87.026) Epoch: [27] [300/782] Time 0.044 (0.03) 0.5510 (0.3867) Prec 81.250% (86.778) Epoch: [27] [400/782] Time 0.043 (0.03) 0.2957 (0.3887) Prec 90.625% (86.678) Epoch: [27] [500/782] Time 0.039 (0.03) 0.2491 (0.3872) Prec 92.188% (86.770) Epoch: [27] [600/782] Time 0.039 (0.03)	%) 39) Data 0.012 (0.013) Loss %) 39) Data 0.018 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.011 (0.013) Loss %) 39) Data 0.011 (0.013) Loss %)
Epoch: [27] [0/782] Time 0.039 (0.03) 0.3668 (0.3668) Prec 87.500% (87.500% Epoch: [27] [100/782] Time 0.035 (0.03) 0.4018 (0.3868) Prec 85.938% (86.912% Epoch: [27] [200/782] Time 0.039 (0.03) 0.3411 (0.3798) Prec 87.500% (87.026% Epoch: [27] [300/782] Time 0.044 (0.03) 0.5510 (0.3867) Prec 81.250% (86.778% Epoch: [27] [400/782] Time 0.043 (0.03) 0.2957 (0.3887) Prec 90.625% (86.678% Epoch: [27] [500/782] Time 0.039 (0.03) 0.2491 (0.3872) Prec 92.188% (86.770% Epoch: [27] [600/782] Time 0.039 (0.03) 0.5632 (0.3946) Prec 82.812% (86.567% Epoch: [27] [600/782] Time 0.039 (0.03) 0.5632 (0.3946) Prec 82.812% (86.567% Epoch: [27] [600/782] Time 0.039 (0.03) 0.5632 (0.3946) Prec 82.812% (86.567% Epoch: [27] [600/782] Time 0.039 (0.03) 0.5632 (0.3946) Prec 82.812% (86.567% Epoch: [27] [600/782] Time 0.039 (0.03) 0.5632 (0.3946) Prec 82.812% (86.567% Epoch: [27] [600/782] Time 0.039 (0.03) 0.5632 (0.3946) Prec 82.812% (86.567% Epoch: [27] [600/782] Time 0.039 (0.03) 0.5632 (0.3946) Prec 82.812% (86.567% Epoch: [27] [600/782] Time 0.039 (0.03) 0.5632 (0.3946) Prec 82.812% (86.567% Epoch: [27] [600/782] Time 0.039 (0.03) 0.5632 (0.3946) Prec 82.812% (86.567% Epoch: [27] [600/782] Time 0.039 (0.03) 0.5632 (0.3946) Prec 82.812% (86.567% Epoch: [27] [600/782] Time 0.039 (0.03) 0.5632 (0.3946) Prec 82.812% (86.567% Epoch: [27] [600/782] Time 0.039 (0.03) 0.5632 (0.3946) Prec 82.812% (86.567% Epoch: [27] [600/782] Time 0.039 (0.03) 0.5632 (0.3946) Prec 82.812% (86.567% Epoch: [27] [600/782] Time 0.039 (0.03) 0.5632 (0.3946) Prec 82.812% (86.567% Epoch: [27] [600/782] Epoc	%) 39) Data 0.012 (0.013) Loss %) 39) Data 0.018 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.011 (0.013) Loss %) 39) Data 0.011 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %)
Epoch: [27] [0/782] Time 0.039 (0.03) 0.3668 (0.3668) Prec 87.500% (87.500% Epoch: [27] [100/782] Time 0.035 (0.03) 0.4018 (0.3868) Prec 85.938% (86.912% Epoch: [27] [200/782] Time 0.039 (0.03) 0.3411 (0.3798) Prec 87.500% (87.026% Epoch: [27] [300/782] Time 0.044 (0.03) 0.5510 (0.3867) Prec 81.250% (86.778% Epoch: [27] [400/782] Time 0.043 (0.03) 0.2957 (0.3887) Prec 90.625% (86.678% Epoch: [27] [500/782] Time 0.039 (0.03) 0.2491 (0.3872) Prec 92.188% (86.770% Epoch: [27] [600/782] Time 0.039 (0.03) 0.5632 (0.3946) Prec 82.812% (86.567% Epoch: [27] [700/782] Time 0.039 (0.03) 0.5632 (0.3946) Prec 82.812% (86.567% Epoch: [27] [700/782] Time 0.039 (0.03)	%) 39) Data 0.012 (0.013) Loss %) 39) Data 0.018 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.011 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %)
Epoch: [27] [0/782] Time 0.039 (0.03) 0.3668 (0.3668) Prec 87.500% (87.500% Epoch: [27] [100/782] Time 0.035 (0.03) 0.4018 (0.3868) Prec 85.938% (86.912% Epoch: [27] [200/782] Time 0.039 (0.03) 0.3411 (0.3798) Prec 87.500% (87.026% Epoch: [27] [300/782] Time 0.044 (0.03) 0.5510 (0.3867) Prec 81.250% (86.778% Epoch: [27] [400/782] Time 0.043 (0.03) 0.2957 (0.3887) Prec 90.625% (86.678% Epoch: [27] [500/782] Time 0.039 (0.03) 0.2491 (0.3872) Prec 92.188% (86.770% Epoch: [27] [600/782] Time 0.039 (0.03) 0.5632 (0.3946) Prec 82.812% (86.567% Epoch: [27] [700/782] Time 0.039 (0.03) 0.3975 (0.3952) Prec 84.375% (86.493% 19.500)	%) 39) Data 0.012 (0.013) Loss %) 39) Data 0.018 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.011 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %)
Epoch: [27] [0/782] Time 0.039 (0.03) 0.3668 (0.3668) Prec 87.500% (87.500% Epoch: [27] [100/782] Time 0.035 (0.03) 0.4018 (0.3868) Prec 85.938% (86.912% Epoch: [27] [200/782] Time 0.039 (0.03) 0.3411 (0.3798) Prec 87.500% (87.026% Epoch: [27] [300/782] Time 0.044 (0.03) 0.5510 (0.3867) Prec 81.250% (86.778% Epoch: [27] [400/782] Time 0.043 (0.03) 0.2957 (0.3887) Prec 90.625% (86.678% Epoch: [27] [500/782] Time 0.039 (0.03) 0.2491 (0.3872) Prec 92.188% (86.770% Epoch: [27] [600/782] Time 0.039 (0.03) 0.5632 (0.3946) Prec 82.812% (86.567% Epoch: [27] [700/782] Time 0.039 (0.03) 0.3975 (0.3952) Prec 84.375% (86.493% Validation starts	%) 39) Data 0.012 (0.013) Loss %) 39) Data 0.018 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.011 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) %)
Epoch: [27] [0/782] Time 0.039 (0.03) 0.3668 (0.3668) Prec 87.500% (87.500) Epoch: [27] [100/782] Time 0.035 (0.03) 0.4018 (0.3868) Prec 85.938% (86.912) Epoch: [27] [200/782] Time 0.039 (0.03) 0.3411 (0.3798) Prec 87.500% (87.026) Epoch: [27] [300/782] Time 0.044 (0.03) 0.5510 (0.3867) Prec 81.250% (86.778) Epoch: [27] [400/782] Time 0.043 (0.03) 0.2957 (0.3887) Prec 90.625% (86.678) Epoch: [27] [500/782] Time 0.039 (0.03) 0.2491 (0.3872) Prec 92.188% (86.770) Epoch: [27] [600/782] Time 0.039 (0.03) 0.5632 (0.3946) Prec 82.812% (86.567) Epoch: [27] [700/782] Time 0.039 (0.03) 0.3975 (0.3952) Prec 84.375% (86.493)	%) 39) Data 0.012 (0.013) Loss %) 39) Data 0.018 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.011 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) %)
Epoch: [27] [0/782] Time 0.039 (0.03 0.3668 (0.3668) Prec 87.500% (87.500% Epoch: [27] [100/782] Time 0.035 (0.03 0.4018 (0.3868) Prec 85.938% (86.912% Epoch: [27] [200/782] Time 0.039 (0.03 0.3411 (0.3798) Prec 87.500% (87.026% Epoch: [27] [300/782] Time 0.044 (0.03 0.5510 (0.3867) Prec 81.250% (86.778% Epoch: [27] [400/782] Time 0.043 (0.03 0.2957 (0.3887) Prec 90.625% (86.678% Epoch: [27] [500/782] Time 0.039 (0.03 0.2491 (0.3872) Prec 92.188% (86.770% Epoch: [27] [600/782] Time 0.039 (0.03 0.5632 (0.3946) Prec 82.812% (86.567% Epoch: [27] [700/782] Time 0.039 (0.03 0.3975 (0.3952) Prec 84.375% (86.493% Validation starts Test: [0/157] Time 0.021 (0.021) (71.875%) Test: [100/157] Time 0.020 (0.019)	%) 39) Data 0.012 (0.013) Loss %) 39) Data 0.018 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.011 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) Loss 0.7174 (0.7174) Prec 71.875%
Epoch: [27] [0/782] Time 0.039 (0.03 0.3668 (0.3668) Prec 87.500% (87.500% Epoch: [27] [100/782] Time 0.035 (0.03 0.4018 (0.3868) Prec 85.938% (86.912% Epoch: [27] [200/782] Time 0.039 (0.03 0.3411 (0.3798) Prec 87.500% (87.026% Epoch: [27] [300/782] Time 0.044 (0.03 0.5510 (0.3867) Prec 81.250% (86.778% Epoch: [27] [400/782] Time 0.043 (0.03 0.2957 (0.3887) Prec 90.625% (86.678% Epoch: [27] [500/782] Time 0.039 (0.03 0.2491 (0.3872) Prec 92.188% (86.770% Epoch: [27] [600/782] Time 0.039 (0.03 0.5632 (0.3946) Prec 82.812% (86.567% Epoch: [27] [700/782] Time 0.039 (0.03 0.3975 (0.3952) Prec 84.375% (86.493% Validation starts Test: [0/157] Time 0.021 (0.021) (71.875%)	%) 39) Data 0.012 (0.013) Loss %) 39) Data 0.018 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.011 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) 39) Data 0.012 (0.013) Loss %) Loss 0.7174 (0.7174) Prec 71.875%

best acc: 84.150000

Epoch: [28][0/782] Time 0.039 (0.030) Time 0.039 (0.030) Prec 89.062% (89.062%)	
Epoch: [28] [100/782] Time 0.039 (0.03 0.4291 (0.3919) Prec 84.375% (86.417)	39) Data 0.012 (0.013) Loss
Epoch: [28] [200/782] Time 0.034 (0.03 0.4955 (0.3892) Prec 81.250% (86.536)	39) Data 0.012 (0.013) Loss
Epoch: [28] [300/782] Time 0.039 (0.03 0.2401 (0.3850) Prec 90.625% (86.701)	
Epoch: [28] [400/782] Time 0.039 (0.03 0.3741 (0.3825) Prec 89.062% (86.709)	
Epoch: [28] [500/782] Time 0.039 (0.03 0.3814 (0.3838) Prec 87.500% (86.7145)	%)
Epoch: [28] [600/782] Time 0.039 (0.03 0.3540 (0.3881) Prec 84.375% (86.580)	%)
Epoch: [28] [700/782] Time 0.034 (0.00 0.4341 (0.3898) Prec 84.375% (86.575)	
Validation starts	
Test: [0/157] Time 0.025 (0.025)	Loss 0.5685 (0.5685) Prec 79.688%
(79.688%)	
Test: [100/157] Time 0.018 (0.019)	Loss 0.6997 (0.5192) Prec 78.125%
(83.168%) * Prec 83.210%	
best acc: 84.150000	
	20) Doto 0 016 (0 016) Logo
Epoch: [29] [0/782] Time 0.032 (0.03	
0.3934 (0.3934) Prec 81.250% (81.250%)	
Epoch: [29] [100/782] Time 0.039 (0.03	
0.4076 (0.3746) Prec 87.500% (87.098)	
Epoch: [29] [200/782] Time 0.039 (0.03	
0.2296 (0.3752) Prec 92.188% (86.901)	
Epoch: [29] [300/782] Time 0.038 (0.03	
0.2226 (0.3826) Prec 96.875% (86.913%	
Epoch: [29] [400/782] Time 0.044 (0.03	
0.3262 (0.3755) Prec 90.625% (87.071%)	
Epoch: [29] [500/782] Time 0.038 (0.03	
0.4540 (0.3775) Prec 84.375% (87.013%)	
Epoch: [29] [600/782] Time 0.043 (0.03	
0.6009 (0.3803) Prec 78.125% (86.923%)	
Epoch: [29] [700/782] Time 0.045 (0.00	
0.3372 (0.3796) Prec 90.625% (86.949)	/6)
Validation starts	I 0 F7F0 (0 F7F0) P 01 0F0%
Test: [0/157] Time 0.022 (0.022)	Loss 0.5/52 (0.5/52) Prec 81.250%
(81.250%)	
T_{-} . [100/157] T_{-} . 0 010 (0 010)	T 0 E040 (0 4600) D 0E 020%
Test: [100/157] Time 0.018 (0.018)	Loss 0.5048 (0.4609) Prec 85.938%
(84.793%)	Loss 0.5048 (0.4609) Prec 85.938%
(84.793%) * Prec 84.400%	Loss 0.5048 (0.4609) Prec 85.938%
(84.793%) * Prec 84.400% best acc: 84.400000	
(84.793%) * Prec 84.400%	33) Data 0.014 (0.014) Loss

Epoch: [30] [100/782] Time 0.039 (0.0 0.3961 (0.3802) Prec 87.500% (86.881		Data	0.012	(0.013)	Loss
Epoch: [30] [200/782] Time 0.034 (0.0 0.3006 (0.3777) Prec 93.750% (87.135	039)	Data	0.012	(0.013)	Loss
Epoch: [30] [300/782] Time 0.039 (0.0 0.3824 (0.3718) Prec 90.625% (87.339	039)	Data	0.013	(0.013)	Loss
Epoch: [30] [400/782] Time 0.039 (0.000.3570 (0.3737) Prec 85.938% (87.375	039)	Data	0.012	(0.013)	Loss
Epoch: [30] [500/782] Time 0.034 (0.0 0.3711 (0.3736) Prec 84.375% (87.350	039)	Data	0.012	(0.013)	Loss
Epoch: [30] [600/782] Time 0.038 (0.0 0.4352 (0.3740) Prec 81.250% (87.321	039)	Data	0.018	(0.013)	Loss
Epoch: [30] [700/782] Time 0.040 (0.0 0.3250 (0.3735) Prec 90.625% (87.277	039)	Data	0.011	(0.013)	Loss
Validation starts	707				
Test: [0/157] Time 0.018 (0.018)	Loss	0.4961	(0.4961	l) Prec	85.938%
(85.938%)	Довь	0.1001	(0.1001	1100	00.00076
Test: [100/157] Time 0.019 (0.019)	Loss	0.6118	(0.4756	S) Prec	79.688%
(84.298%)	2000	0.0110	(0.1.00	, 1100	10.00070
* Prec 84.540%					
best acc: 84.540000					
Epoch: [31] [0/782] Time 0.035 (0.0	035)	Data	0.019	(0.019)	Loss
0.1506 (0.1506) Prec 93.750% (93.750				(01020)	
Epoch: [31] [100/782] Time 0.034 (0.0		Data	0.012	(0.014)	Loss
0.2844 (0.3690) Prec 93.750% (87.098		Dava	0.012	(0.011)	ДОББ
Epoch: [31] [200/782] Time 0.039 (0.0		Data	0 012	(0.014)	Loss
0.4210 (0.3630) Prec 87.500% (87.166		Dava	0.012	(0.014)	LOSS
Epoch: [31] [300/782] Time 0.040 (0.0		Da+a	0 012	(0.014)	Loss
0.3858 (0.3662) Prec 90.625% (87.256		Dava	0.012	(0.014)	LOSS
Epoch: [31] [400/782] Time 0.039 (0.0		Da+a	0 012	(0.014)	Loss
0.2611 (0.3651) Prec 92.188% (87.336		Dava	0.012	(0.014)	LOSS
Epoch: [31] [500/782] Time 0.039 (0.0		Do+o	0 013	(0.014)	Loss
0.4564 (0.3693) Prec 82.812% (87.222		Dava	0.010	(0.014)	LOSS
Epoch: [31] [600/782] Time 0.038 (0.0		Da+a	0 010	(0.014)	Loss
0.4345 (0.3694) Prec 82.812% (87.248		Data	0.013	(0.014)	LUSS
Epoch: [31] [700/782] Time 0.039 (0.0		Data	0 012	(0.014)	Loss
0.4611 (0.3701) Prec 82.812% (87.239		Dava	0.012	(0.014)	LOSS
Validation starts	7/0/				
Test: [0/157] Time 0.024 (0.024)	Ingg	0 4319	(0 4310) Prec	87 500%
(87.500%)	LOSS	0.4013	(0.4010)) 1160	01.000%
Test: [100/157] Time 0.018 (0.019)	Ingg	0 6108	(0.4537	7) Prec	78 125%
(84.715%)	Довь	0.0100	(0.100)	, 1100	10.120%
* Prec 84.490%					
best acc: 84.540000					
Epoch: [32] [0/782] Time 0.031 (0.0	031)	Data	0.015	(0.015)	Loss
0.3977 (0.3977) Prec 82.812% (82.812		2404	0.010	(0.010)	2000
Epoch: [32] [100/782] Time 0.043 (0.0		Data	0.012	(0.013)	Loss
0.3939 (0.3679) Prec 89.062% (87.345		2404		(0.010)	2000
11111 (010010)	- 10/				

Epoch: [32] [200/782] Time		Data	0.012	(0.013)	Loss
. – – – . –	0.034 (0.039)	Data	0.013	(0.013)	Loss
. – – – . –	0.044 (0.039)	Data	0.012	(0.013)	Loss
0.2613 (0.3623) Prec 92.18 Epoch: [32] [500/782] Time 0.3339 (0.3647) Prec 85.93	0.039 (0.039)	Data	0.013	(0.013)	Loss
	0.034 (0.039)	Data	0.012	(0.013)	Loss
	0.040 (0.039)	Data	0.012	(0.013)	Loss
Validation starts	076 (07.20076)				
Test: [0/157] Time 0.020 (0	.020) Loss	0.4421	(0.4421) Prec	87.500%
(87.500%)			(.,	
Test: [100/157] Time 0.018 (0	.018) Loss	0.4837	(0.4624	l) Prec	81.250%
(84.932%)					
* Prec 84.540%					
best acc: 84.540000					
Epoch: [33] [0/782] Time	0.033 (0.033)	Data	0.013	(0.013)	Loss
0.2744 (0.2744) Prec 89.06	2% (89.062%)				
Epoch: [33] [100/782] Time	0.040 (0.039)	Data	0.020	(0.013)	Loss
0.2834 (0.3395) Prec 87.50	0% (88.428%)				
Epoch: [33] [200/782] Time	0.042 (0.039)	Data	0.018	(0.013)	Loss
0.2709 (0.3493) Prec 95.31	2% (87.959%)				
Epoch: [33][300/782] Time	0.034 (0.039)	Data	0.012	(0.013)	Loss
0.2688 (0.3509) Prec 89.06	2% (87.796%)				
Epoch: [33] [400/782] Time	0.039 (0.039)	Data	0.012	(0.013)	Loss
0.2549 (0.3533) Prec 90.62	5% (87.668%)				
Epoch: [33] [500/782] Time	0.039 (0.039)	Data	0.019	(0.013)	Loss
0.3367 (0.3560) Prec 85.93	8% (87.581%)				
Epoch: [33][600/782] Time	0.043 (0.039)	Data	0.012	(0.013)	Loss
0.2770 (0.3597) Prec 93.75	0% (87.495%)				
Epoch: [33] [700/782] Time	0.043 (0.039)	Data	0.013	(0.013)	Loss
0.4329 (0.3604) Prec 84.37	5% (87.507%)				
Validation starts					
Test: [0/157] Time 0.025 (0 (89.062%)	.025) Loss	0.4747	(0.4747	') Prec	89.062%
Test: [100/157] Time 0.018 (0	.018) Loss	0.4572	(0.4492	Prec	81.250%
(84.901%)					
* Prec 85.070%					
best acc: 85.070000					
Epoch: [34][0/782] Time	0.044 (0.044)	Data	0.021	(0.021)	Loss
0.2211 (0.2211) Prec 92.18	8% (92.188%)				
Epoch: [34][100/782] Time	0.032 (0.039)	Data	0.012	(0.013)	Loss
0.3099 (0.3505) Prec 89.06	2% (88.041%)				
Epoch: [34][200/782] Time	0.043 (0.039)	Data	0.013	(0.013)	Loss
0.4350 (0.3555) Prec 85.93	8% (87.943%)				

0.2428 (0.3545) Prec 92.188% (87.993%) Epoch: [34] [400/782] Time 0.035 (0.039) Data 0.012 (0.013) Loss 0.2970 (0.3494) Prec 90.625% (88.213%) Epoch: [34] [500/782] Time 0.034 (0.039) Data 0.013 (0.013) Loss 0.4567 (0.3554) Prec 85.938% (87.990%) Epoch: [34] [600/782] Time 0.038 (0.039) Data 0.018 (0.013) Loss 0.2438 (0.3571) Prec 90.625% (87.893%) Epoch: [34] [700/782] Time 0.038 (0.039) Data 0.018 (0.013) Loss 0.3846 (0.3595) Prec 89.062% (87.767%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss 0.5507 (0.5507) Prec 81.250% (81.250%) Test: [100/157] Time 0.018 (0.019) Loss 0.3258 (0.4707) Prec 85.938% (84.638%) * Prec 84.790% best acc: 85.070000 Epoch: [35] [0/782] Time 0.038 (0.038) Data 0.020 (0.020) Loss 0.4709 (0.4709) Prec 82.812% (82.812%) Epoch: [35] [100/782] Time 0.037 (0.039) Data 0.012 (0.014) Loss 0.5242 (0.3390) Prec 85.938% (88.537%) Epoch: [35] [200/782] Time 0.040 (0.039) Data 0.018 (0.014) Loss 0.2683 (0.3521) Prec 87.500% (87.951%)
Epoch: [34] [500/782] Time 0.034 (0.039) Data 0.013 (0.013) Loss 0.4567 (0.3554) Prec 85.938% (87.990%) Epoch: [34] [600/782] Time 0.038 (0.039) Data 0.018 (0.013) Loss 0.2438 (0.3571) Prec 90.625% (87.893%) Epoch: [34] [700/782] Time 0.038 (0.039) Data 0.018 (0.013) Loss 0.3846 (0.3595) Prec 89.062% (87.767%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss 0.5507 (0.5507) Prec 81.250% (81.250%) Test: [100/157] Time 0.018 (0.019) Loss 0.3258 (0.4707) Prec 85.938% (84.638%) * Prec 84.790% best acc: 85.070000 Epoch: [35] [0/782] Time 0.038 (0.038) Data 0.020 (0.020) Loss 0.4709 (0.4709) Prec 82.812% (82.812%) Epoch: [35] [100/782] Time 0.037 (0.039) Data 0.012 (0.014) Loss 0.5242 (0.3390) Prec 85.938% (88.537%) Epoch: [35] [200/782] Time 0.040 (0.039) Data 0.018 (0.014) Loss
Epoch: [34] [600/782] Time 0.038 (0.039) Data 0.018 (0.013) Loss 0.2438 (0.3571) Prec 90.625% (87.893%) Epoch: [34] [700/782] Time 0.038 (0.039) Data 0.018 (0.013) Loss 0.3846 (0.3595) Prec 89.062% (87.767%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss 0.5507 (0.5507) Prec 81.250% (81.250%) Test: [100/157] Time 0.018 (0.019) Loss 0.3258 (0.4707) Prec 85.938% (84.638%) * Prec 84.790% best acc: 85.070000 Epoch: [35] [0/782] Time 0.038 (0.038) Data 0.020 (0.020) Loss 0.4709 (0.4709) Prec 82.812% (82.812%) Epoch: [35] [100/782] Time 0.037 (0.039) Data 0.012 (0.014) Loss 0.5242 (0.3390) Prec 85.938% (88.537%) Epoch: [35] [200/782] Time 0.040 (0.039) Data 0.018 (0.014) Loss
Epoch: [34] [700/782] Time 0.038 (0.039) Data 0.018 (0.013) Loss 0.3846 (0.3595) Prec 89.062% (87.767%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss 0.5507 (0.5507) Prec 81.250% (81.250%) Test: [100/157] Time 0.018 (0.019) Loss 0.3258 (0.4707) Prec 85.938% (84.638%) * Prec 84.790% best acc: 85.070000 Epoch: [35] [0/782] Time 0.038 (0.038) Data 0.020 (0.020) Loss 0.4709 (0.4709) Prec 82.812% (82.812%) Epoch: [35] [100/782] Time 0.037 (0.039) Data 0.012 (0.014) Loss 0.5242 (0.3390) Prec 85.938% (88.537%) Epoch: [35] [200/782] Time 0.040 (0.039) Data 0.018 (0.014) Loss
Validation starts Test: [0/157] Time 0.023 (0.023) Loss 0.5507 (0.5507) Prec 81.250% (81.250%) Test: [100/157] Time 0.018 (0.019) Loss 0.3258 (0.4707) Prec 85.938% (84.638%) * Prec 84.790% best acc: 85.070000 Epoch: [35] [0/782] Time 0.038 (0.038) Data 0.020 (0.020) Loss 0.4709 (0.4709) Prec 82.812% (82.812%) Epoch: [35] [100/782] Time 0.037 (0.039) Data 0.012 (0.014) Loss 0.5242 (0.3390) Prec 85.938% (88.537%) Epoch: [35] [200/782] Time 0.040 (0.039) Data 0.018 (0.014) Loss
(81.250%) Test: [100/157] Time 0.018 (0.019) Loss 0.3258 (0.4707) Prec 85.938% (84.638%) * Prec 84.790% best acc: 85.070000 Epoch: [35] [0/782] Time 0.038 (0.038) Data 0.020 (0.020) Loss 0.4709 (0.4709) Prec 82.812% (82.812%) Epoch: [35] [100/782] Time 0.037 (0.039) Data 0.012 (0.014) Loss 0.5242 (0.3390) Prec 85.938% (88.537%) Epoch: [35] [200/782] Time 0.040 (0.039) Data 0.018 (0.014) Loss
Test: [100/157] Time 0.018 (0.019) Loss 0.3258 (0.4707) Prec 85.938% (84.638%) * Prec 84.790% best acc: 85.070000 Epoch: [35] [0/782] Time 0.038 (0.038) Data 0.020 (0.020) Loss 0.4709 (0.4709) Prec 82.812% (82.812%) Epoch: [35] [100/782] Time 0.037 (0.039) Data 0.012 (0.014) Loss 0.5242 (0.3390) Prec 85.938% (88.537%) Epoch: [35] [200/782] Time 0.040 (0.039) Data 0.018 (0.014) Loss
(84.638%) * Prec 84.790% best acc: 85.070000 Epoch: [35] [0/782] Time 0.038 (0.038) Data 0.020 (0.020) Loss 0.4709 (0.4709) Prec 82.812% (82.812%) Epoch: [35] [100/782] Time 0.037 (0.039) Data 0.012 (0.014) Loss 0.5242 (0.3390) Prec 85.938% (88.537%) Epoch: [35] [200/782] Time 0.040 (0.039) Data 0.018 (0.014) Loss
* Prec 84.790% best acc: 85.070000 Epoch: [35][0/782] Time 0.038 (0.038) Data 0.020 (0.020) Loss 0.4709 (0.4709) Prec 82.812% (82.812%) Epoch: [35][100/782] Time 0.037 (0.039) Data 0.012 (0.014) Loss 0.5242 (0.3390) Prec 85.938% (88.537%) Epoch: [35][200/782] Time 0.040 (0.039) Data 0.018 (0.014) Loss
best acc: 85.070000 Epoch: [35] [0/782] Time 0.038 (0.038) Data 0.020 (0.020) Loss 0.4709 (0.4709) Prec 82.812% (82.812%) Epoch: [35] [100/782] Time 0.037 (0.039) Data 0.012 (0.014) Loss 0.5242 (0.3390) Prec 85.938% (88.537%) Epoch: [35] [200/782] Time 0.040 (0.039) Data 0.018 (0.014) Loss
Epoch: [35] [0/782] Time 0.038 (0.038) Data 0.020 (0.020) Loss 0.4709 (0.4709) Prec 82.812% (82.812%) Epoch: [35] [100/782] Time 0.037 (0.039) Data 0.012 (0.014) Loss 0.5242 (0.3390) Prec 85.938% (88.537%) Epoch: [35] [200/782] Time 0.040 (0.039) Data 0.018 (0.014) Loss
D.4709 (0.4709) Prec 82.812% (82.812%) Epoch: [35] [100/782] Time 0.037 (0.039) Data 0.012 (0.014) Loss 0.5242 (0.3390) Prec 85.938% (88.537%) Epoch: [35] [200/782] Time 0.040 (0.039) Data 0.018 (0.014) Loss
Epoch: [35][100/782] Time 0.037 (0.039) Data 0.012 (0.014) Loss 0.5242 (0.3390) Prec 85.938% (88.537%) Epoch: [35][200/782] Time 0.040 (0.039) Data 0.018 (0.014) Loss
Epoch: [35][200/782] Time 0.040 (0.039) Data 0.018 (0.014) Loss
0.2683 (0.3521) Prec 87.500% (87.951%)
Epoch: [35] [300/782] Time 0.035 (0.039) Data 0.013 (0.014) Loss
0.4274 (0.3548) Prec 85.938% (87.832%)
Epoch: [35] [400/782] Time 0.034 (0.039) Data 0.012 (0.014) Loss
0.3234 (0.3544) Prec 89.062% (87.851%)
Epoch: [35] [500/782] Time 0.040 (0.039) Data 0.013 (0.014) Loss
0.2581 (0.3522) Prec 92.188% (87.887%) Epoch: [35][600/782] Time 0.041 (0.039) Data 0.015 (0.014) Loss
0.7505 (0.3532) Prec 79.688% (87.908%)
Epoch: [35] [700/782] Time 0.038 (0.039) Data 0.018 (0.014) Loss
0.3537 (0.3540) Prec 90.625% (87.879%)
Validation starts
Test: [0/157] Time 0.023 (0.023) Loss 0.5146 (0.5146) Prec 81.250%
(81.250%)
Test: [100/157] Time 0.019 (0.019) Loss 0.6049 (0.4740) Prec 79.688%
(84.653%)
* Prec 84.590%
best acc: 85.070000
Epoch: [36] [0/782] Time 0.033 (0.033) Data 0.014 (0.014) Loss
9 9406 (0 9406)
0.2106 (0.2106) Prec 95.312% (95.312%) Frach: [36][100/782] Time 0.034 (0.039) Data 0.012 (0.013) Logs
Epoch: [36][100/782] Time 0.034 (0.039) Data 0.012 (0.013) Loss
Epoch: [36][100/782] Time 0.034 (0.039) Data 0.012 (0.013) Loss 0.3242 (0.3173) Prec 89.062% (89.248%)
Epoch: [36][100/782] Time 0.034 (0.039) Data 0.012 (0.013) Loss
Epoch: [36][100/782] Time 0.034 (0.039) Data 0.012 (0.013) Loss 0.3242 (0.3173) Prec 89.062% (89.248%) Epoch: [36][200/782] Time 0.034 (0.039) Data 0.012 (0.012) Loss

Epoch: [36][400/782] 0.4160 (0.3510) Prec			0.013	(0.012)	Loss
	Time 0.039 (0.039	9) Data	0.012	(0.012)	Loss
	Time 0.039 (0.039	9) Data	0.013	(0.012)	Loss
Epoch: [36][700/782] 0.4202 (0.3523) Prec	Time 0.034 (0.039 87.500% (87.897%)		0.012	(0.012)	Loss
Validation starts					
Test: [0/157] Time 0.0	21 (0.021)	Loss 0.5743	(0.5743) Prec	82.812%
(82.812%)					
Test: [100/157] Time 0.0	18 (0.019)	Loss 0.5063	(0.4344) Prec	82.812%
(85.396%)					
* Prec 85.460%					
best acc: 85.460000	m: 0 005 (0 00)	-> -> -	0 010	(0.040)	-
Epoch: [37] [0/782]			0.016	(0.016)	Loss
0.3520 (0.3520) Prec			0.010	(0.010)	-
-	Time 0.039 (0.039		0.012	(0.013)	Loss
0.3865 (0.3293) Prec			0.010	(0.010)	-
Epoch: [37] [200/782]			0.012	(0.013)	Loss
0.3571 (0.3374) Prec			0.010	(0.010)	-
•	Time 0.038 (0.039		0.012	(0.013)	Loss
0.3115 (0.3420) Prec			0.040	(0.040)	-
Epoch: [37] [400/782]			0.012	(0.013)	Loss
0.2641 (0.3430) Prec			0.040	(0.040)	-
•	Time 0.039 (0.039		0.013	(0.013)	Loss
0.3613 (0.3496) Prec			0.010	(0.042)	T
-	Time 0.044 (0.039		0.012	(0.013)	Loss
0.1543 (0.3507) Prec	Time 0.039 (0.03)		0.012	(0.013)	Loss
Epoch: [37] [700/782] 0.1798 (0.3511) Prec			0.013	(0.013)	LUSS
Validation starts	32.100% (01.310%)	,			
	21 (0.021)	Loss 0.6383	(0.6383) Prec	84.375%
(84.375%)	21 (0.021)	0.0000	(0.0000	, 1100	01.070%
Test: [100/157] Time 0.0	18 (0 018)	oss 0 4750	(0.4661) Prec	82 812%
(84.669%)	10 (0.010)	0.1700	(0.1001	, 1100	02.012/
* Prec 84.790%					
best acc: 85.460000					
	Time 0.033 (0.03)	3) Data	0.018	(0.018)	Loss
0.2412 (0.2412) Prec				(/	
	Time 0.034 (0.039		0.012	(0.013)	Loss
-	87.500% (88.598%)			(/	
	Time 0.039 (0.039		0.012	(0.012)	Loss
_	96.875% (88.176%)			,	
	Time 0.036 (0.039		0.013	(0.012)	Loss
-	89.062% (88.372%)			•	
	Time 0.045 (0.039		0.019	(0.012)	Loss
0.2238 (0.3372) Prec	95.312% (88.194%))			

Epoch: [38] [500/782] Time 0.044 (0.039)	Data 0.012 (0.012) Loss
0.2865 (0.3407) Prec 92.188% (88.108%) Epoch: [38] [600/782] Time 0.039 (0.039)	Data 0.013 (0.012) Loss
0.3406 (0.3445) Prec 87.500% (87.950%) Epoch: [38] [700/782] Time 0.039 (0.039) 0.4690 (0.3453) Prec 85.938% (87.930%)	Data 0.012 (0.012) Loss
Validation starts Test: [0/157] Time 0.021 (0.021) Loss (84.375%)	0.4675 (0.4675) Prec 84.375%
Test: [100/157] Time 0.018 (0.019) Loss	0.5911 (0.4303) Prec 82.812%
(85.876%)	
* Prec 86.010%	
best acc: 86.010000	
Epoch: [39] [0/782] Time 0.038 (0.038)	Data 0.018 (0.018) Loss
0.2605 (0.2605) Prec 90.625% (90.625%)	Data 0 010 (0 010) I aaa
Epoch: [39] [100/782] Time 0.035 (0.039) 0.3207 (0.3469) Prec 92.188% (87.717%)	Data 0.012 (0.012) Loss
Epoch: [39] [200/782] Time 0.045 (0.039)	Data 0.012 (0.012) Loss
0.2478 (0.3431) Prec 92.188% (88.122%)	Data 0.012 (0.012) Loss
Epoch: [39] [300/782] Time 0.039 (0.039)	Data 0.012 (0.012) Loss
0.4368 (0.3474) Prec 82.812% (88.019%)	Data 0.012 (0.012) LOSS
Epoch: [39] [400/782] Time 0.042 (0.039)	Data 0.012 (0.012) Loss
0.4434 (0.3486) Prec 82.812% (87.995%)	Data 0.012 (0.012) Hobb
Epoch: [39] [500/782] Time 0.040 (0.039)	Data 0.012 (0.012) Loss
0.2028 (0.3479) Prec 95.312% (87.980%)	2000 0.012 (0.012) 2000
Epoch: [39] [600/782] Time 0.034 (0.039)	Data 0.012 (0.013) Loss
0.2721 (0.3457) Prec 89.062% (88.043%)	2000 0.012 (0.010) 2000
Epoch: [39] [700/782] Time 0.040 (0.039)	Data 0.012 (0.012) Loss
0.2032 (0.3485) Prec 92.188% (87.981%)	
Validation starts	
Test: [0/157] Time 0.020 (0.020) Loss	0.6181 (0.6181) Prec 82.812%
(82.812%)	
Test: [100/157] Time 0.018 (0.018) Loss	0.5304 (0.4621) Prec 82.812%
(84.762%)	
* Prec 84.670%	
best acc: 86.010000	
Epoch: [40][0/782] Time 0.038 (0.038)	Data 0.016 (0.016) Loss
0.2773 (0.2773) Prec 92.188% (92.188%)	
Epoch: [40][100/782] Time 0.042 (0.039)	Data 0.012 (0.012) Loss
0.3070 (0.3291) Prec 85.938% (88.320%)	
Epoch: [40][200/782] Time 0.039 (0.039)	Data 0.019 (0.012) Loss
0.2345 (0.3306) Prec 89.062% (88.534%)	
Epoch: [40][300/782] Time 0.037 (0.039)	Data 0.012 (0.012) Loss
0.2641 (0.3356) Prec 89.062% (88.346%)	
Epoch: [40] [400/782] Time 0.039 (0.039)	Data 0.012 (0.012) Loss
0.4810 (0.3392) Prec 82.812% (88.197%)	
Epoch: [40] [500/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.4070 (0.3409) Prec 85.938% (88.264%)	

Epoch: [40] [600/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.3534 (0.3429) Prec 84.375% (88.205%) Epoch: [40] [700/782] Time 0.039 (0.039) 0.2984 (0.3430) Prec 89.062% (88.131%)	Data 0.012 (0.013) Loss
Validation starts	
Test: [0/157] Time 0.024 (0.024) Loss	0.4959 (0.4959) Prec 87.500%
(87.500%)	
Test: [100/157] Time 0.018 (0.018) Loss	0.4791 (0.4420) Prec 82.812%
(85.241%)	
* Prec 84.940%	
best acc: 86.010000	
Epoch: [41][0/782] Time 0.031 (0.031)	Data 0.016 (0.016) Loss
0.2221 (0.2221) Prec 92.188% (92.188%)	
Epoch: [41][100/782] Time 0.038 (0.039)	Data 0.012 (0.013) Loss
0.2733 (0.3405) Prec 90.625% (87.949%)	
Epoch: [41][200/782] Time 0.045 (0.039)	Data 0.012 (0.013) Loss
0.2850 (0.3412) Prec 89.062% (88.091%)	
Epoch: [41][300/782] Time 0.035 (0.039)	Data 0.012 (0.013) Loss
0.2605 (0.3403) Prec 90.625% (88.206%)	• • • • • • • • • • • • • • • • • • • •
Epoch: [41] [400/782] Time 0.035 (0.039)	Data 0.012 (0.013) Loss
0.5403 (0.3398) Prec 85.938% (88.248%)	2404 00022 (00020) 2022
Epoch: [41] [500/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.3939 (0.3348) Prec 85.938% (88.445%)	2404 0.012 (0.010) 2022
Epoch: [41] [600/782] Time 0.039 (0.039)	Data 0.014 (0.012) Loss
0.2186 (0.3372) Prec 92.188% (88.389%)	2404 0.011 (0.012) 2022
0.2100 (0.00,2) 1100 02.100% (00.000%)	
Fnoch: $[41][700/782]$ Time 0 034 (0 039)	Data 0 012 (0 012) Loss
Epoch: [41] [700/782] Time 0.034 (0.039)	Data 0.012 (0.012) Loss
0.2345 (0.3392) Prec 93.750% (88.282%)	Data 0.012 (0.012) Loss
0.2345 (0.3392) Prec 93.750% (88.282%) Validation starts	
0.2345 (0.3392) Prec 93.750% (88.282%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss	
0.2345 (0.3392) Prec 93.750% (88.282%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss (87.500%)	0.4735 (0.4735) Prec 87.500%
0.2345 (0.3392) Prec 93.750% (88.282%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss (87.500%) Test: [100/157] Time 0.018 (0.018) Loss	0.4735 (0.4735) Prec 87.500%
0.2345 (0.3392) Prec 93.750% (88.282%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss (87.500%) Test: [100/157] Time 0.018 (0.018) Loss (85.025%)	0.4735 (0.4735) Prec 87.500%
0.2345 (0.3392) Prec 93.750% (88.282%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss (87.500%) Test: [100/157] Time 0.018 (0.018) Loss (85.025%) * Prec 85.170%	0.4735 (0.4735) Prec 87.500%
0.2345 (0.3392) Prec 93.750% (88.282%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss (87.500%) Test: [100/157] Time 0.018 (0.018) Loss (85.025%) * Prec 85.170% best acc: 86.010000	0.4735 (0.4735) Prec 87.500% 0.6551 (0.4654) Prec 78.125%
0.2345 (0.3392) Prec 93.750% (88.282%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss (87.500%) Test: [100/157] Time 0.018 (0.018) Loss (85.025%) * Prec 85.170% best acc: 86.010000 Epoch: [42] [0/782] Time 0.031 (0.031)	0.4735 (0.4735) Prec 87.500%
0.2345 (0.3392) Prec 93.750% (88.282%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss (87.500%) Test: [100/157] Time 0.018 (0.018) Loss (85.025%) * Prec 85.170% best acc: 86.010000 Epoch: [42] [0/782] Time 0.031 (0.031) 0.3935 (0.3935) Prec 90.625% (90.625%)	0.4735 (0.4735) Prec 87.500% 0.6551 (0.4654) Prec 78.125% Data 0.015 (0.015) Loss
0.2345 (0.3392) Prec 93.750% (88.282%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss (87.500%) Test: [100/157] Time 0.018 (0.018) Loss (85.025%) * Prec 85.170% best acc: 86.010000 Epoch: [42] [0/782] Time 0.031 (0.031) 0.3935 (0.3935) Prec 90.625% (90.625%) Epoch: [42] [100/782] Time 0.039 (0.039)	0.4735 (0.4735) Prec 87.500% 0.6551 (0.4654) Prec 78.125%
0.2345 (0.3392) Prec 93.750% (88.282%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss (87.500%) Test: [100/157] Time 0.018 (0.018) Loss (85.025%) * Prec 85.170% best acc: 86.010000 Epoch: [42] [0/782] Time 0.031 (0.031) 0.3935 (0.3935) Prec 90.625% (90.625%) Epoch: [42] [100/782] Time 0.039 (0.039) 0.3093 (0.3378) Prec 93.750% (88.103%)	0.4735 (0.4735) Prec 87.500% 0.6551 (0.4654) Prec 78.125% Data 0.015 (0.015) Loss Data 0.013 (0.012) Loss
0.2345 (0.3392) Prec 93.750% (88.282%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss (87.500%) Test: [100/157] Time 0.018 (0.018) Loss (85.025%) * Prec 85.170% best acc: 86.010000 Epoch: [42] [0/782] Time 0.031 (0.031) 0.3935 (0.3935) Prec 90.625% (90.625%) Epoch: [42] [100/782] Time 0.039 (0.039) 0.3093 (0.3378) Prec 93.750% (88.103%) Epoch: [42] [200/782] Time 0.039 (0.039)	0.4735 (0.4735) Prec 87.500% 0.6551 (0.4654) Prec 78.125% Data 0.015 (0.015) Loss
0.2345 (0.3392) Prec 93.750% (88.282%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss (87.500%) Test: [100/157] Time 0.018 (0.018) Loss (85.025%) * Prec 85.170% best acc: 86.010000 Epoch: [42] [0/782] Time 0.031 (0.031) 0.3935 (0.3935) Prec 90.625% (90.625%) Epoch: [42] [100/782] Time 0.039 (0.039) 0.3093 (0.3378) Prec 93.750% (88.103%) Epoch: [42] [200/782] Time 0.039 (0.039) 0.2482 (0.3318) Prec 95.312% (88.417%)	0.4735 (0.4735) Prec 87.500% 0.6551 (0.4654) Prec 78.125% Data 0.015 (0.015) Loss Data 0.013 (0.012) Loss Data 0.012 (0.013) Loss
0.2345 (0.3392) Prec 93.750% (88.282%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss (87.500%) Test: [100/157] Time 0.018 (0.018) Loss (85.025%) * Prec 85.170% best acc: 86.010000 Epoch: [42] [0/782] Time 0.031 (0.031) 0.3935 (0.3935) Prec 90.625% (90.625%) Epoch: [42] [100/782] Time 0.039 (0.039) 0.3093 (0.3378) Prec 93.750% (88.103%) Epoch: [42] [200/782] Time 0.039 (0.039) 0.2482 (0.3318) Prec 95.312% (88.417%) Epoch: [42] [300/782] Time 0.042 (0.039)	0.4735 (0.4735) Prec 87.500% 0.6551 (0.4654) Prec 78.125% Data 0.015 (0.015) Loss Data 0.013 (0.012) Loss
0.2345 (0.3392) Prec 93.750% (88.282%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss (87.500%) Test: [100/157] Time 0.018 (0.018) Loss (85.025%) * Prec 85.170% best acc: 86.010000 Epoch: [42] [0/782] Time 0.031 (0.031) 0.3935 (0.3935) Prec 90.625% (90.625%) Epoch: [42] [100/782] Time 0.039 (0.039) 0.3093 (0.3378) Prec 93.750% (88.103%) Epoch: [42] [200/782] Time 0.039 (0.039) 0.2482 (0.3318) Prec 95.312% (88.417%) Epoch: [42] [300/782] Time 0.042 (0.039) 0.2986 (0.3326) Prec 87.500% (88.434%)	0.4735 (0.4735) Prec 87.500% 0.6551 (0.4654) Prec 78.125% Data 0.015 (0.015) Loss Data 0.013 (0.012) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss
0.2345 (0.3392) Prec 93.750% (88.282%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss (87.500%) Test: [100/157] Time 0.018 (0.018) Loss (85.025%) * Prec 85.170% best acc: 86.010000 Epoch: [42] [0/782] Time 0.031 (0.031) 0.3935 (0.3935) Prec 90.625% (90.625%) Epoch: [42] [100/782] Time 0.039 (0.039) 0.3093 (0.3378) Prec 93.750% (88.103%) Epoch: [42] [200/782] Time 0.039 (0.039) 0.2482 (0.3318) Prec 95.312% (88.417%) Epoch: [42] [300/782] Time 0.042 (0.039) 0.2986 (0.3326) Prec 87.500% (88.434%) Epoch: [42] [400/782] Time 0.040 (0.039)	0.4735 (0.4735) Prec 87.500% 0.6551 (0.4654) Prec 78.125% Data 0.015 (0.015) Loss Data 0.013 (0.012) Loss Data 0.012 (0.013) Loss
0.2345 (0.3392) Prec 93.750% (88.282%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss (87.500%) Test: [100/157] Time 0.018 (0.018) Loss (85.025%) * Prec 85.170% best acc: 86.010000 Epoch: [42] [0/782] Time 0.031 (0.031) 0.3935 (0.3935) Prec 90.625% (90.625%) Epoch: [42] [100/782] Time 0.039 (0.039) 0.3093 (0.3378) Prec 93.750% (88.103%) Epoch: [42] [200/782] Time 0.039 (0.039) 0.2482 (0.3318) Prec 95.312% (88.417%) Epoch: [42] [300/782] Time 0.042 (0.039) 0.2986 (0.3326) Prec 87.500% (88.434%) Epoch: [42] [400/782] Time 0.040 (0.039) 0.3138 (0.3396) Prec 90.625% (88.209%)	0.4735 (0.4735) Prec 87.500% 0.6551 (0.4654) Prec 78.125% Data 0.015 (0.015) Loss Data 0.013 (0.012) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.018 (0.013) Loss
0.2345 (0.3392) Prec 93.750% (88.282%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss (87.500%) Test: [100/157] Time 0.018 (0.018) Loss (85.025%) * Prec 85.170% best acc: 86.010000 Epoch: [42] [0/782] Time 0.031 (0.031) 0.3935 (0.3935) Prec 90.625% (90.625%) Epoch: [42] [100/782] Time 0.039 (0.039) 0.3093 (0.3378) Prec 93.750% (88.103%) Epoch: [42] [200/782] Time 0.039 (0.039) 0.2482 (0.3318) Prec 95.312% (88.417%) Epoch: [42] [300/782] Time 0.042 (0.039) 0.2986 (0.3326) Prec 87.500% (88.434%) Epoch: [42] [400/782] Time 0.040 (0.039) 0.3138 (0.3396) Prec 90.625% (88.209%) Epoch: [42] [500/782] Time 0.048 (0.039)	0.4735 (0.4735) Prec 87.500% 0.6551 (0.4654) Prec 78.125% Data 0.015 (0.015) Loss Data 0.013 (0.012) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss
0.2345 (0.3392) Prec 93.750% (88.282%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss (87.500%) Test: [100/157] Time 0.018 (0.018) Loss (85.025%) * Prec 85.170% best acc: 86.010000 Epoch: [42] [0/782] Time 0.031 (0.031) 0.3935 (0.3935) Prec 90.625% (90.625%) Epoch: [42] [100/782] Time 0.039 (0.039) 0.3093 (0.3378) Prec 93.750% (88.103%) Epoch: [42] [200/782] Time 0.039 (0.039) 0.2482 (0.3318) Prec 95.312% (88.417%) Epoch: [42] [300/782] Time 0.042 (0.039) 0.2986 (0.3326) Prec 87.500% (88.434%) Epoch: [42] [400/782] Time 0.040 (0.039) 0.3138 (0.3396) Prec 90.625% (88.209%) Epoch: [42] [500/782] Time 0.048 (0.039) 0.4140 (0.3419) Prec 87.500% (88.139%)	0.4735 (0.4735) Prec 87.500% 0.6551 (0.4654) Prec 78.125% Data 0.015 (0.015) Loss Data 0.013 (0.012) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.018 (0.013) Loss Data 0.012 (0.013) Loss
0.2345 (0.3392) Prec 93.750% (88.282%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss (87.500%) Test: [100/157] Time 0.018 (0.018) Loss (85.025%) * Prec 85.170% best acc: 86.010000 Epoch: [42] [0/782] Time 0.031 (0.031) 0.3935 (0.3935) Prec 90.625% (90.625%) Epoch: [42] [100/782] Time 0.039 (0.039) 0.3093 (0.3378) Prec 93.750% (88.103%) Epoch: [42] [200/782] Time 0.039 (0.039) 0.2482 (0.3318) Prec 95.312% (88.417%) Epoch: [42] [300/782] Time 0.042 (0.039) 0.2986 (0.3326) Prec 87.500% (88.434%) Epoch: [42] [400/782] Time 0.040 (0.039) 0.3138 (0.3396) Prec 90.625% (88.209%) Epoch: [42] [500/782] Time 0.048 (0.039)	0.4735 (0.4735) Prec 87.500% 0.6551 (0.4654) Prec 78.125% Data 0.015 (0.015) Loss Data 0.013 (0.012) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.018 (0.013) Loss

Epoch: [42][700/782] Time 0.034 (0.039) 0.2438 (0.3419) Prec 90.625% (88.158%) Validation starts	Data 0.012 (0.012) Loss
Test: [0/157] Time 0.026 (0.026) Loss	0.5500 (0.5500) Prec 81.250%
(81.250%)	
Test: [100/157] Time 0.020 (0.019) Loss	0.5709 (0.4957) Prec 81.250%
(83.973%)	
* Prec 83.900%	
best acc: 86.010000	D-+- 0.015 (0.015)
Epoch: [43] [0/782] Time 0.037 (0.037) 0.4626 (0.4626) Prec 84.375% (84.375%)	Data 0.015 (0.015) Loss
Epoch: [43] [100/782] Time 0.040 (0.039)	Data 0.012 (0.014) Loss
0.2883 (0.3250) Prec 92.188% (89.155%)	Data 0.012 (0.014) LOSS
Epoch: [43] [200/782] Time 0.041 (0.039)	Data 0.012 (0.013) Loss
0.2992 (0.3272) Prec 90.625% (88.946%)	2000 0.012 (0.010) 2000
Epoch: [43][300/782] Time 0.044 (0.039)	Data 0.012 (0.013) Loss
0.3202 (0.3323) Prec 90.625% (88.699%)	
Epoch: [43][400/782] Time 0.040 (0.039)	Data 0.012 (0.013) Loss
0.3032 (0.3360) Prec 89.062% (88.564%)	
Epoch: [43][500/782] Time 0.034 (0.039)	Data 0.013 (0.013) Loss
0.5047 (0.3383) Prec 85.938% (88.588%)	
Epoch: [43][600/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.4070 (0.3380) Prec 85.938% (88.480%)	
Epoch: [43] [700/782] Time 0.041 (0.039)	Data 0.012 (0.013) Loss
0.2722 (0.3391) Prec 92.188% (88.499%)	
Validation starts	0 F00F (0 F00F)
Validation starts Test: [0/157] Time 0.025 (0.025) Loss	0.5385 (0.5385) Prec 85.938%
Validation starts Test: [0/157] Time 0.025 (0.025) Loss (85.938%)	
Validation starts Test: [0/157] Time 0.025 (0.025) Loss (85.938%) Test: [100/157] Time 0.018 (0.019) Loss	
Validation starts Test: [0/157] Time 0.025 (0.025) Loss (85.938%) Test: [100/157] Time 0.018 (0.019) Loss (85.690%)	
Validation starts Test: [0/157] Time 0.025 (0.025) Loss (85.938%) Test: [100/157] Time 0.018 (0.019) Loss	
Validation starts Test: [0/157] Time 0.025 (0.025) Loss (85.938%) Test: [100/157] Time 0.018 (0.019) Loss (85.690%) * Prec 85.640% best acc: 86.010000	0.4947 (0.4363) Prec 81.250%
Validation starts Test: [0/157] Time 0.025 (0.025) Loss (85.938%) Test: [100/157] Time 0.018 (0.019) Loss (85.690%) * Prec 85.640% best acc: 86.010000	0.4947 (0.4363) Prec 81.250%
Validation starts Test: [0/157] Time 0.025 (0.025) Loss (85.938%) Test: [100/157] Time 0.018 (0.019) Loss (85.690%) * Prec 85.640% best acc: 86.010000 Epoch: [44] [0/782] Time 0.036 (0.036)	0.4947 (0.4363) Prec 81.250%
Validation starts Test: [0/157] Time 0.025 (0.025) Loss (85.938%) Test: [100/157] Time 0.018 (0.019) Loss (85.690%) * Prec 85.640% best acc: 86.010000 Epoch: [44] [0/782] Time 0.036 (0.036) 0.2624 (0.2624) Prec 90.625% (90.625%)	0.4947 (0.4363) Prec 81.250% Data 0.015 (0.015) Loss
Validation starts Test: [0/157] Time 0.025 (0.025) Loss (85.938%) Test: [100/157] Time 0.018 (0.019) Loss (85.690%) * Prec 85.640% best acc: 86.010000 Epoch: [44] [0/782] Time 0.036 (0.036) 0.2624 (0.2624) Prec 90.625% (90.625%) Epoch: [44] [100/782] Time 0.039 (0.039)	0.4947 (0.4363) Prec 81.250% Data 0.015 (0.015) Loss
Validation starts Test: [0/157] Time 0.025 (0.025) Loss (85.938%) Test: [100/157] Time 0.018 (0.019) Loss (85.690%) * Prec 85.640% best acc: 86.010000 Epoch: [44] [0/782] Time 0.036 (0.036) 0.2624 (0.2624) Prec 90.625% (90.625%) Epoch: [44] [100/782] Time 0.039 (0.039) 0.2654 (0.3139) Prec 93.750% (89.186%) Epoch: [44] [200/782] Time 0.038 (0.039) 0.3649 (0.3204) Prec 85.938% (88.853%)	0.4947 (0.4363) Prec 81.250% Data 0.015 (0.015) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss
Validation starts Test: [0/157] Time 0.025 (0.025) Loss (85.938%) Test: [100/157] Time 0.018 (0.019) Loss (85.690%) * Prec 85.640% best acc: 86.010000 Epoch: [44] [0/782] Time 0.036 (0.036) 0.2624 (0.2624) Prec 90.625% (90.625%) Epoch: [44] [100/782] Time 0.039 (0.039) 0.2654 (0.3139) Prec 93.750% (89.186%) Epoch: [44] [200/782] Time 0.038 (0.039) 0.3649 (0.3204) Prec 85.938% (88.853%) Epoch: [44] [300/782] Time 0.039 (0.039)	0.4947 (0.4363) Prec 81.250% Data 0.015 (0.015) Loss Data 0.012 (0.013) Loss
Validation starts Test: [0/157] Time 0.025 (0.025) Loss (85.938%) Test: [100/157] Time 0.018 (0.019) Loss (85.690%) * Prec 85.640% best acc: 86.010000 Epoch: [44] [0/782] Time 0.036 (0.036) 0.2624 (0.2624) Prec 90.625% (90.625%) Epoch: [44] [100/782] Time 0.039 (0.039) 0.2654 (0.3139) Prec 93.750% (89.186%) Epoch: [44] [200/782] Time 0.038 (0.039) 0.3649 (0.3204) Prec 85.938% (88.853%) Epoch: [44] [300/782] Time 0.039 (0.039) 0.4665 (0.3258) Prec 81.250% (88.600%)	0.4947 (0.4363) Prec 81.250% Data 0.015 (0.015) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.019 (0.013) Loss
Validation starts Test: [0/157] Time 0.025 (0.025) Loss (85.938%) Test: [100/157] Time 0.018 (0.019) Loss (85.690%) * Prec 85.640% best acc: 86.010000 Epoch: [44] [0/782] Time 0.036 (0.036) 0.2624 (0.2624) Prec 90.625% (90.625%) Epoch: [44] [100/782] Time 0.039 (0.039) 0.2654 (0.3139) Prec 93.750% (89.186%) Epoch: [44] [200/782] Time 0.038 (0.039) 0.3649 (0.3204) Prec 85.938% (88.853%) Epoch: [44] [300/782] Time 0.039 (0.039) 0.4665 (0.3258) Prec 81.250% (88.600%) Epoch: [44] [400/782] Time 0.044 (0.039)	0.4947 (0.4363) Prec 81.250% Data 0.015 (0.015) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss
Validation starts Test: [0/157] Time 0.025 (0.025) Loss (85.938%) Test: [100/157] Time 0.018 (0.019) Loss (85.690%) * Prec 85.640% best acc: 86.010000 Epoch: [44] [0/782] Time 0.036 (0.036) 0.2624 (0.2624) Prec 90.625% (90.625%) Epoch: [44] [100/782] Time 0.039 (0.039) 0.2654 (0.3139) Prec 93.750% (89.186%) Epoch: [44] [200/782] Time 0.038 (0.039) 0.3649 (0.3204) Prec 85.938% (88.853%) Epoch: [44] [300/782] Time 0.039 (0.039) 0.4665 (0.3258) Prec 81.250% (88.600%) Epoch: [44] [400/782] Time 0.044 (0.039) 0.2713 (0.3316) Prec 92.188% (88.470%)	0.4947 (0.4363) Prec 81.250% Data 0.015 (0.015) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.019 (0.013) Loss Data 0.012 (0.013) Loss
Validation starts Test: [0/157] Time 0.025 (0.025) Loss (85.938%) Test: [100/157] Time 0.018 (0.019) Loss (85.690%) * Prec 85.640% best acc: 86.010000 Epoch: [44] [0/782] Time 0.036 (0.036) 0.2624 (0.2624) Prec 90.625% (90.625%) Epoch: [44] [100/782] Time 0.039 (0.039) 0.2654 (0.3139) Prec 93.750% (89.186%) Epoch: [44] [200/782] Time 0.038 (0.039) 0.3649 (0.3204) Prec 85.938% (88.853%) Epoch: [44] [300/782] Time 0.039 (0.039) 0.4665 (0.3258) Prec 81.250% (88.600%) Epoch: [44] [400/782] Time 0.044 (0.039) 0.2713 (0.3316) Prec 92.188% (88.470%) Epoch: [44] [500/782] Time 0.045 (0.039)	0.4947 (0.4363) Prec 81.250% Data 0.015 (0.015) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.019 (0.013) Loss
Validation starts Test: [0/157] Time 0.025 (0.025) Loss (85.938%) Test: [100/157] Time 0.018 (0.019) Loss (85.690%) * Prec 85.640% best acc: 86.010000 Epoch: [44] [0/782] Time 0.036 (0.036) 0.2624 (0.2624) Prec 90.625% (90.625%) Epoch: [44] [100/782] Time 0.039 (0.039) 0.2654 (0.3139) Prec 93.750% (89.186%) Epoch: [44] [200/782] Time 0.038 (0.039) 0.3649 (0.3204) Prec 85.938% (88.853%) Epoch: [44] [300/782] Time 0.039 (0.039) 0.4665 (0.3258) Prec 81.250% (88.600%) Epoch: [44] [400/782] Time 0.044 (0.039) 0.2713 (0.3316) Prec 92.188% (88.470%) Epoch: [44] [500/782] Time 0.045 (0.039) 0.3196 (0.3312) Prec 85.938% (88.504%)	0.4947 (0.4363) Prec 81.250% Data 0.015 (0.015) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.019 (0.013) Loss Data 0.019 (0.013) Loss Data 0.019 (0.013) Loss
<pre>Validation starts Test: [0/157] Time 0.025 (0.025) Loss (85.938%) Test: [100/157] Time 0.018 (0.019) Loss (85.690%) * Prec 85.640% best acc: 86.010000 Epoch: [44] [0/782] Time 0.036 (0.036) 0.2624 (0.2624) Prec 90.625% (90.625%) Epoch: [44] [100/782] Time 0.039 (0.039) 0.2654 (0.3139) Prec 93.750% (89.186%) Epoch: [44] [200/782] Time 0.038 (0.039) 0.3649 (0.3204) Prec 85.938% (88.853%) Epoch: [44] [300/782] Time 0.039 (0.039) 0.4665 (0.3258) Prec 81.250% (88.600%) Epoch: [44] [400/782] Time 0.044 (0.039) 0.2713 (0.3316) Prec 92.188% (88.470%) Epoch: [44] [500/782] Time 0.045 (0.039) 0.3196 (0.3312) Prec 85.938% (88.504%) Epoch: [44] [600/782] Time 0.040 (0.039)</pre>	0.4947 (0.4363) Prec 81.250% Data 0.015 (0.015) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.019 (0.013) Loss Data 0.012 (0.013) Loss
Validation starts Test: [0/157] Time 0.025 (0.025) Loss (85.938%) Test: [100/157] Time 0.018 (0.019) Loss (85.690%) * Prec 85.640% best acc: 86.010000 Epoch: [44] [0/782] Time 0.036 (0.036) 0.2624 (0.2624) Prec 90.625% (90.625%) Epoch: [44] [100/782] Time 0.039 (0.039) 0.2654 (0.3139) Prec 93.750% (89.186%) Epoch: [44] [200/782] Time 0.038 (0.039) 0.3649 (0.3204) Prec 85.938% (88.853%) Epoch: [44] [300/782] Time 0.039 (0.039) 0.4665 (0.3258) Prec 81.250% (88.600%) Epoch: [44] [400/782] Time 0.044 (0.039) 0.2713 (0.3316) Prec 92.188% (88.470%) Epoch: [44] [500/782] Time 0.045 (0.039) 0.3196 (0.3312) Prec 85.938% (88.504%)	0.4947 (0.4363) Prec 81.250% Data 0.015 (0.015) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.019 (0.013) Loss Data 0.019 (0.013) Loss Data 0.019 (0.013) Loss
<pre>Validation starts Test: [0/157] Time 0.025 (0.025) Loss (85.938%) Test: [100/157] Time 0.018 (0.019) Loss (85.690%) * Prec 85.640% best acc: 86.010000 Epoch: [44] [0/782] Time 0.036 (0.036) 0.2624 (0.2624) Prec 90.625% (90.625%) Epoch: [44] [100/782] Time 0.039 (0.039) 0.2654 (0.3139) Prec 93.750% (89.186%) Epoch: [44] [200/782] Time 0.038 (0.039) 0.3649 (0.3204) Prec 85.938% (88.853%) Epoch: [44] [300/782] Time 0.039 (0.039) 0.4665 (0.3258) Prec 81.250% (88.600%) Epoch: [44] [400/782] Time 0.044 (0.039) 0.2713 (0.3316) Prec 92.188% (88.470%) Epoch: [44] [500/782] Time 0.045 (0.039) 0.3196 (0.3312) Prec 85.938% (88.504%) Epoch: [44] [600/782] Time 0.040 (0.039) 0.4471 (0.3324) Prec 85.938% (88.405%)</pre>	Data 0.015 (0.015) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.019 (0.013) Loss

Validation starts	
Validation starts	0 F300 (0 F300)
Test: [0/157] Time 0.020 (0.020) Los	SS 0.5328 (0.5328) Prec 79.688%
(79.688%)	0.5050 (0.4455)
Test: [100/157] Time 0.018 (0.019) Los	ss 0.56/2 (0.44//) Prec /6.562%
(85.056%)	
* Prec 85.240%	
best acc: 86.010000	
Epoch: [45] [0/782] Time 0.031 (0.031)	Data 0.016 (0.016) Loss
0.1937 (0.1937) Prec 92.188% (92.188%)	
Epoch: [45] [100/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.3903 (0.3247) Prec 89.062% (88.567%)	
Epoch: [45][200/782] Time 0.039 (0.039)	Data 0.011 (0.013) Loss
0.5049 (0.3364) Prec 84.375% (88.433%)	
Epoch: [45][300/782] Time 0.034 (0.039)	Data 0.012 (0.013) Loss
0.4404 (0.3320) Prec 85.938% (88.528%)	
Epoch: [45][400/782] Time 0.040 (0.039)	Data 0.012 (0.013) Loss
0.3453 (0.3309) Prec 89.062% (88.490%)	
Epoch: [45] [500/782] Time 0.045 (0.039)	Data 0.012 (0.013) Loss
0.3376 (0.3331) Prec 89.062% (88.486%)	
Epoch: [45] [600/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.4421 (0.3344) Prec 90.625% (88.514%)	Data 0.012 (0.010) Lobb
Epoch: [45] [700/782] Time 0.043 (0.039)	Data 0.012 (0.013) Loss
0.3131 (0.3328) Prec 90.625% (88.612%)	Data 0.012 (0.013) LOSS
Validation starts	
$T_{\alpha}q+$, $[0/4E7]$ $T_{\alpha}=0$ (0.00) (0.00)	a 0 E400 (0 E400) Drag 0E 020%
Test: [0/157] Time 0.022 (0.022) Los	ss 0.5490 (0.5490) Prec 85.938%
(85.938%)	
(85.938%) Test: [100/157] Time 0.018 (0.019) Los	
(85.938%) Test: [100/157] Time 0.018 (0.019) Los (85.195%)	
(85.938%) Test: [100/157] Time 0.018 (0.019)	
(85.938%) Test: [100/157] Time 0.018 (0.019) (85.195%) * Prec 85.140% best acc: 86.010000	ss 0.5613 (0.4622) Prec 81.250%
(85.938%) Test: [100/157] Time 0.018 (0.019) Los (85.195%) * Prec 85.140% best acc: 86.010000 Epoch: [46] [0/782] Time 0.031 (0.031)	ss 0.5613 (0.4622) Prec 81.250%
(85.938%) Test: [100/157] Time 0.018 (0.019) Los (85.195%) * Prec 85.140% best acc: 86.010000 Epoch: [46] [0/782] Time 0.031 (0.031) 0.3554 (0.3554) Prec 87.500% (87.500%)	Data 0.015 (0.015) Prec 81.250%
(85.938%) Test: [100/157] Time 0.018 (0.019) Los (85.195%) * Prec 85.140% best acc: 86.010000 Epoch: [46] [0/782] Time 0.031 (0.031) 0.3554 (0.3554) Prec 87.500% (87.500%) Epoch: [46] [100/782] Time 0.038 (0.039)	ss 0.5613 (0.4622) Prec 81.250%
(85.938%) Test: [100/157] Time 0.018 (0.019) Los (85.195%) * Prec 85.140% best acc: 86.010000 Epoch: [46] [0/782] Time 0.031 (0.031) 0.3554 (0.3554) Prec 87.500% (87.500%) Epoch: [46] [100/782] Time 0.038 (0.039) 0.4225 (0.3195) Prec 85.938% (89.325%)	Data 0.015 (0.015) Loss Data 0.012 (0.014) Loss
(85.938%) Test: [100/157] Time 0.018 (0.019) Los (85.195%) * Prec 85.140% best acc: 86.010000 Epoch: [46] [0/782] Time 0.031 (0.031) 0.3554 (0.3554) Prec 87.500% (87.500%) Epoch: [46] [100/782] Time 0.038 (0.039)	Data 0.015 (0.015) Loss Data 0.012 (0.014) Loss
(85.938%) Test: [100/157] Time 0.018 (0.019) Los (85.195%) * Prec 85.140% best acc: 86.010000 Epoch: [46] [0/782] Time 0.031 (0.031) 0.3554 (0.3554) Prec 87.500% (87.500%) Epoch: [46] [100/782] Time 0.038 (0.039) 0.4225 (0.3195) Prec 85.938% (89.325%)	Data 0.015 (0.015) Loss Data 0.012 (0.014) Loss
(85.938%) Test: [100/157] Time 0.018 (0.019) Los (85.195%) * Prec 85.140% best acc: 86.010000 Epoch: [46] [0/782] Time 0.031 (0.031) 0.3554 (0.3554) Prec 87.500% (87.500%) Epoch: [46] [100/782] Time 0.038 (0.039) 0.4225 (0.3195) Prec 85.938% (89.325%) Epoch: [46] [200/782] Time 0.045 (0.039)	Data 0.015 (0.015) Data 0.012 (0.014) Data 0.012 (0.013) Loss
(85.938%) Test: [100/157] Time 0.018 (0.019) Los (85.195%) * Prec 85.140% best acc: 86.010000 Epoch: [46] [0/782] Time 0.031 (0.031) 0.3554 (0.3554) Prec 87.500% (87.500%) Epoch: [46] [100/782] Time 0.038 (0.039) 0.4225 (0.3195) Prec 85.938% (89.325%) Epoch: [46] [200/782] Time 0.045 (0.039) 0.3453 (0.3279) Prec 85.938% (88.822%)	Data 0.015 (0.015) Data 0.012 (0.014) Data 0.012 (0.013) Loss
(85.938%) Test: [100/157] Time 0.018 (0.019) Los (85.195%) * Prec 85.140% best acc: 86.010000 Epoch: [46] [0/782] Time 0.031 (0.031) 0.3554 (0.3554) Prec 87.500% (87.500%) Epoch: [46] [100/782] Time 0.038 (0.039) 0.4225 (0.3195) Prec 85.938% (89.325%) Epoch: [46] [200/782] Time 0.045 (0.039) 0.3453 (0.3279) Prec 85.938% (88.822%) Epoch: [46] [300/782] Time 0.039 (0.039)	Data 0.015 (0.015) Loss Data 0.012 (0.014) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss
(85.938%) Test: [100/157] Time 0.018 (0.019) Los (85.195%) * Prec 85.140% best acc: 86.010000 Epoch: [46] [0/782] Time 0.031 (0.031) 0.3554 (0.3554) Prec 87.500% (87.500%) Epoch: [46] [100/782] Time 0.038 (0.039) 0.4225 (0.3195) Prec 85.938% (89.325%) Epoch: [46] [200/782] Time 0.045 (0.039) 0.3453 (0.3279) Prec 85.938% (88.822%) Epoch: [46] [300/782] Time 0.039 (0.039) 0.5577 (0.3300) Prec 81.250% (88.735%)	Data 0.015 (0.015) Loss Data 0.012 (0.014) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss
(85.938%) Test: [100/157] Time 0.018 (0.019) Los (85.195%) * Prec 85.140% best acc: 86.010000 Epoch: [46] [0/782] Time 0.031 (0.031) 0.3554 (0.3554) Prec 87.500% (87.500%) Epoch: [46] [100/782] Time 0.038 (0.039) 0.4225 (0.3195) Prec 85.938% (89.325%) Epoch: [46] [200/782] Time 0.045 (0.039) 0.3453 (0.3279) Prec 85.938% (88.822%) Epoch: [46] [300/782] Time 0.039 (0.039) 0.5577 (0.3300) Prec 81.250% (88.735%) Epoch: [46] [400/782] Time 0.039 (0.039) 0.2107 (0.3282) Prec 92.188% (88.696%)	Data 0.015 (0.015) Loss Data 0.012 (0.014) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss
(85.938%) Test: [100/157] Time 0.018 (0.019) Los (85.195%) * Prec 85.140% best acc: 86.010000 Epoch: [46] [0/782] Time 0.031 (0.031) 0.3554 (0.3554) Prec 87.500% (87.500%) Epoch: [46] [100/782] Time 0.038 (0.039) 0.4225 (0.3195) Prec 85.938% (89.325%) Epoch: [46] [200/782] Time 0.045 (0.039) 0.3453 (0.3279) Prec 85.938% (88.822%) Epoch: [46] [300/782] Time 0.039 (0.039) 0.5577 (0.3300) Prec 81.250% (88.735%) Epoch: [46] [400/782] Time 0.039 (0.039)	Data 0.015 (0.015) Loss Data 0.012 (0.014) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss
(85.938%) Test: [100/157] Time 0.018 (0.019) Los (85.195%) * Prec 85.140% best acc: 86.010000 Epoch: [46] [0/782] Time 0.031 (0.031) 0.3554 (0.3554) Prec 87.500% (87.500%) Epoch: [46] [100/782] Time 0.038 (0.039) 0.4225 (0.3195) Prec 85.938% (89.325%) Epoch: [46] [200/782] Time 0.045 (0.039) 0.3453 (0.3279) Prec 85.938% (88.822%) Epoch: [46] [300/782] Time 0.039 (0.039) 0.5577 (0.3300) Prec 81.250% (88.735%) Epoch: [46] [400/782] Time 0.039 (0.039) 0.2107 (0.3282) Prec 92.188% (88.696%) Epoch: [46] [500/782] Time 0.037 (0.039) 0.4558 (0.3313) Prec 89.062% (88.551%)	Data 0.015 (0.015) Loss Data 0.012 (0.014) Loss Data 0.012 (0.013) Loss
Test: [100/157] Time 0.018 (0.019) Los (85.195%) * Prec 85.140% best acc: 86.010000 Epoch: [46] [0/782] Time 0.031 (0.031) 0.3554 (0.3554) Prec 87.500% (87.500%) Epoch: [46] [100/782] Time 0.038 (0.039) 0.4225 (0.3195) Prec 85.938% (89.325%) Epoch: [46] [200/782] Time 0.045 (0.039) 0.3453 (0.3279) Prec 85.938% (88.822%) Epoch: [46] [300/782] Time 0.039 (0.039) 0.5577 (0.3300) Prec 81.250% (88.735%) Epoch: [46] [400/782] Time 0.039 (0.039) 0.2107 (0.3282) Prec 92.188% (88.696%) Epoch: [46] [500/782] Time 0.037 (0.039) 0.4558 (0.3313) Prec 89.062% (88.551%) Epoch: [46] [600/782] Time 0.039 (0.039)	Data 0.015 (0.015) Loss Data 0.012 (0.014) Loss Data 0.012 (0.013) Loss
Test: [100/157] Time 0.018 (0.019) Los (85.195%) * Prec 85.140% best acc: 86.010000 Epoch: [46] [0/782] Time 0.031 (0.031) 0.3554 (0.3554) Prec 87.500% (87.500%) Epoch: [46] [100/782] Time 0.038 (0.039) 0.4225 (0.3195) Prec 85.938% (89.325%) Epoch: [46] [200/782] Time 0.045 (0.039) 0.3453 (0.3279) Prec 85.938% (88.822%) Epoch: [46] [300/782] Time 0.039 (0.039) 0.5577 (0.3300) Prec 81.250% (88.735%) Epoch: [46] [400/782] Time 0.039 (0.039) 0.2107 (0.3282) Prec 92.188% (88.696%) Epoch: [46] [500/782] Time 0.037 (0.039) 0.4558 (0.3313) Prec 89.062% (88.551%) Epoch: [46] [600/782] Time 0.039 (0.039) 0.3496 (0.3326) Prec 90.625% (88.517%)	Data 0.015 (0.015) Data 0.012 (0.014) Data 0.012 (0.013) Data 0.012 (0.013) Data 0.012 (0.013) Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss
Test: [100/157] Time 0.018 (0.019) Los (85.195%) * Prec 85.140% best acc: 86.010000 Epoch: [46] [0/782] Time 0.031 (0.031) 0.3554 (0.3554) Prec 87.500% (87.500%) Epoch: [46] [100/782] Time 0.038 (0.039) 0.4225 (0.3195) Prec 85.938% (89.325%) Epoch: [46] [200/782] Time 0.045 (0.039) 0.3453 (0.3279) Prec 85.938% (88.822%) Epoch: [46] [300/782] Time 0.039 (0.039) 0.5577 (0.3300) Prec 81.250% (88.735%) Epoch: [46] [400/782] Time 0.039 (0.039) 0.2107 (0.3282) Prec 92.188% (88.696%) Epoch: [46] [500/782] Time 0.037 (0.039) 0.4558 (0.3313) Prec 89.062% (88.551%) Epoch: [46] [600/782] Time 0.039 (0.039) 0.3496 (0.3326) Prec 90.625% (88.517%) Epoch: [46] [700/782] Time 0.047 (0.039)	Data 0.015 (0.015) Data 0.012 (0.014) Data 0.012 (0.013) Data 0.012 (0.013) Data 0.012 (0.013) Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss
Test: [100/157] Time 0.018 (0.019) Los (85.195%) * Prec 85.140% best acc: 86.010000 Epoch: [46] [0/782] Time 0.031 (0.031) 0.3554 (0.3554) Prec 87.500% (87.500%) Epoch: [46] [100/782] Time 0.038 (0.039) 0.4225 (0.3195) Prec 85.938% (89.325%) Epoch: [46] [200/782] Time 0.045 (0.039) 0.3453 (0.3279) Prec 85.938% (88.822%) Epoch: [46] [300/782] Time 0.039 (0.039) 0.5577 (0.3300) Prec 81.250% (88.735%) Epoch: [46] [400/782] Time 0.039 (0.039) 0.2107 (0.3282) Prec 92.188% (88.696%) Epoch: [46] [500/782] Time 0.037 (0.039) 0.4558 (0.3313) Prec 89.062% (88.551%) Epoch: [46] [600/782] Time 0.039 (0.039) 0.3496 (0.3326) Prec 90.625% (88.517%) Epoch: [46] [700/782] Time 0.047 (0.039) 0.5408 (0.3334) Prec 78.125% (88.465%)	Data 0.015 (0.015) Data 0.012 (0.014) Data 0.012 (0.013) Data 0.012 (0.013) Data 0.012 (0.013) Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss
Test: [100/157] Time 0.018 (0.019) Los (85.195%) * Prec 85.140% best acc: 86.010000 Epoch: [46] [0/782] Time 0.031 (0.031) 0.3554 (0.3554) Prec 87.500% (87.500%) Epoch: [46] [100/782] Time 0.038 (0.039) 0.4225 (0.3195) Prec 85.938% (89.325%) Epoch: [46] [200/782] Time 0.045 (0.039) 0.3453 (0.3279) Prec 85.938% (88.822%) Epoch: [46] [300/782] Time 0.039 (0.039) 0.5577 (0.3300) Prec 81.250% (88.735%) Epoch: [46] [400/782] Time 0.039 (0.039) 0.2107 (0.3282) Prec 92.188% (88.696%) Epoch: [46] [500/782] Time 0.037 (0.039) 0.4558 (0.3313) Prec 89.062% (88.551%) Epoch: [46] [600/782] Time 0.039 (0.039) 0.3496 (0.3326) Prec 90.625% (88.517%) Epoch: [46] [700/782] Time 0.047 (0.039)	Data 0.015 (0.015) Loss Data 0.012 (0.014) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss

(85.938%)Test: [100/157] Time 0.018 (0.019) Loss 0.4168 (0.4577) Prec 85.938% (84.932%)* Prec 85.010% best acc: 86.010000 Epoch: [47] [0/782] Time 0.041 (0.041)Data 0.017 (0.017) Loss 0.3871 (0.3871) Prec 82.812% (82.812%) Epoch: [47] [100/782] Time 0.036 (0.039)Data 0.012 (0.014) Loss 0.4064 (0.3365) Prec 85.938% (88.583%) Data 0.012 (0.014) Epoch: [47] [200/782] Time 0.039 (0.039)Loss Prec 93.750% (88.697%) 0.1806 (0.3252) Epoch: [47] [300/782] Time 0.046 (0.039)Data 0.012 (0.014) Loss 0.2929 (0.3246) Prec 87.500% (88.756%) Epoch: [47] [400/782] Data 0.012 (0.013) Time 0.039 (0.039)Loss 0.2382 (0.3308) Prec 89.062% (88.560%) Epoch: [47] [500/782] Time 0.035 (0.039)Data 0.012 (0.013) Loss 0.2201 (0.3296) Prec 93.750% (88.607%) Epoch: [47] [600/782] Time 0.044 (0.039)Data 0.012 (0.013) Loss 0.3701 (0.3275) Prec 87.500% (88.691%) Data 0.013 (0.013) Epoch: [47] [700/782] Time 0.034 (0.039)Loss Prec 84.375% (88.594%) 0.4296 (0.3315) Validation starts Test: [0/157] Time 0.022 (0.022) Loss 0.4389 (0.4389) Prec 87.500% (87.500%)Test: [100/157] Time 0.019 (0.018) Loss 0.6059 (0.4625) Prec 76.562% (84.205%)* Prec 84.460% best acc: 86.010000 Epoch: [48] [0/782] Data 0.013 (0.013) Time 0.033 (0.033) Loss 0.2424 (0.2424) Prec 93.750% (93.750%) Epoch: [48] [100/782] Time 0.039 (0.039)Data 0.011 (0.013) Loss 0.2753 (0.3054) Prec 92.188% (89.573%) Epoch: [48] [200/782] Time 0.040 (0.039)Data 0.012 (0.013) Loss 0.2868 (0.3209) Prec 90.625% (89.078%) Epoch: [48] [300/782] Time 0.040 (0.039)Data 0.012 (0.013) Loss 0.2700 (0.3172) Prec 90.625% (89.104%) Epoch: [48] [400/782] Time 0.042 (0.039)Data 0.019 (0.013) Loss 0.3685 (0.3244) Prec 89.062% (88.891%) Epoch: [48] [500/782] Time 0.039 (0.039)Data 0.012 (0.013) Loss 0.3366 (0.3270) Prec 85.938% (88.791%) Epoch: [48] [600/782] Time 0.034 (0.039)Data 0.012 (0.013) Loss 0.3236 (0.3253) Prec 87.500% (88.878%) Epoch: [48] [700/782] Time 0.044 (0.039)Data 0.012 (0.013) Loss Prec 92.188% (88.784%) 0.2953 (0.3284) Validation starts Test: [0/157] Time 0.021 (0.021)Loss 0.5730 (0.5730) Prec 84.375% (84.375%)Test: [100/157] Time 0.018 (0.018) Loss 0.5337 (0.4611) Prec 84.375%

(84.978%)					
* Prec 84.960%					
best acc: 86.010000					
Epoch: [49] [0/782] Time 0.035 (0.03		Data	0.018	(0.018)	Loss
0.3687 (0.3687) Prec 84.375% (84.375%					
Epoch: [49] [100/782] Time 0.038 (0.03		Data	0.012	(0.013)	Loss
0.3687 (0.3331) Prec 90.625% (88.196%)		_			_
Epoch: [49] [200/782] Time 0.039 (0.03		Data	0.012	(0.013)	Loss
0.4644 (0.3228) Prec 87.500% (88.744%)		ъ.	0.010	(0, 040)	-
Epoch: [49] [300/782] Time 0.034 (0.03		Data	0.012	(0.013)	Loss
0.2934 (0.3241) Prec 87.500% (88.647%		ъ.	0 040	(0, 040)	-
Epoch: [49] [400/782] Time 0.042 (0.03		Data	0.019	(0.013)	Loss
0.2349 (0.3254) Prec 89.062% (88.595%		Data	0.015	(0.012)	T
Epoch: [49] [500/782] Time 0.039 (0.03		рата	0.015	(0.013)	Loss
0.3247 (0.3260) Prec 87.500% (88.501% Epoch: [49] [600/782] Time 0.039 (0.03		Do+o	0 012	(0.013)	Loss
0.4249 (0.3290) Prec 87.500% (88.397)		раца	0.012	(0.013)	LOSS
Epoch: [49] [700/782] Time 0.038 (0.03		Da+a	0 020	(0.013)	Loss
0.3982 (0.3293) Prec 87.500% (88.3875)		Data	0.020	(0.015)	LOBI
Validation starts	/0/				
Test: [0/157] Time 0.024 (0.024)	Ingg	0 5058	(0.5058	R) Prec	87 500
(87.500%)	порр	0.0000	(0.000	, 1100	01.000
Test: [100/157] Time 0.018 (0.018)	Loss	0.5437	(0.4510)) Prec	81.250
(85.179%)			(.,	
* Prec 85.340%					
best acc: 86.010000					
Epoch: [50][0/782] Time 0.040 (0.04	40)	Data	0.020	(0.020)	Loss
0.2565 (0.2565) Prec 93.750% (93.750%)					
Epoch: [50][100/782] Time 0.039 (0.03	39)	Data	0.012	(0.013)	Loss
0.3227 (0.3249) Prec 90.625% (88.954)	%)				
Epoch: [50][200/782] Time 0.038 (0.03	39)	Data	0.019	(0.013)	Loss
0.3169 (0.3254) Prec 85.938% (88.853%	%)				
Epoch: [50][300/782] Time 0.043 (0.03	39)	Data	0.012	(0.012)	Loss
0.4885 (0.3253) Prec 82.812% (88.886%)	%)				
Epoch: [50] [400/782] Time 0.039 (0.03	39)	Data	0.012	(0.012)	Loss
0.3508 (0.3273) Prec 87.500% (88.801%)	%)				
Epoch: [50][500/782] Time 0.033 (0.03	39)	Data	0.012	(0.012)	Los
	%)				
0.3777 (0.3299) Prec 85.938% (88.607)					
	39)	Data	0.012	(0.012)	Los
Epoch: [50][600/782] Time 0.034 (0.03		Data	0.012	(0.012)	Los
Epoch: [50][600/782] Time 0.034 (0.03 0.2945 (0.3292) Prec 90.625% (88.618 Epoch: [50][700/782] Time 0.037 (0.03	%) 39)			(0.012)	
Epoch: [50][600/782] Time 0.034 (0.03 0.2945 (0.3292) Prec 90.625% (88.618 Epoch: [50][700/782] Time 0.037 (0.03	%) 39)				
Epoch: [50][600/782] Time 0.034 (0.03 0.2945 (0.3292) Prec 90.625% (88.618 Epoch: [50][700/782] Time 0.037 (0.03 0.2683 (0.3315) Prec 90.625% (88.554%)	%) 39)				
Epoch: [50] [600/782] Time 0.034 (0.03 0.2945 (0.3292) Prec 90.625% (88.618 Epoch: [50] [700/782] Time 0.037 (0.03 0.2683 (0.3315) Prec 90.625% (88.554 Validation starts Test: [0/157] Time 0.020 (0.020)	%) 39) %)	Data	0.012		Los
Epoch: [50] [600/782] Time 0.034 (0.03 0.2945 (0.3292) Prec 90.625% (88.618 Epoch: [50] [700/782] Time 0.037 (0.03 0.2683 (0.3315) Prec 90.625% (88.554 Validation starts Test: [0/157] Time 0.020 (0.020) (79.688%)	%) 39) %) Loss	Data 0.6134	0.012 (0.6134	(0.012) 4) Prec	Loss 79.688%
Epoch: [50] [600/782] Time 0.034 (0.03 0.2945 (0.3292) Prec 90.625% (88.618% Epoch: [50] [700/782] Time 0.037 (0.03 0.2683 (0.3315) Prec 90.625% (88.554% Validation starts Test: [0/157] Time 0.020 (0.020) (79.688%) Test: [100/157] Time 0.018 (0.018)	%) 39) %) Loss	Data 0.6134	0.012 (0.6134	(0.012) 4) Prec	79.688%
Epoch: [50] [600/782] Time 0.034 (0.03 0.2945 (0.3292) Prec 90.625% (88.618 Epoch: [50] [700/782] Time 0.037 (0.03 0.2683 (0.3315) Prec 90.625% (88.554 Validation starts Test: [0/157] Time 0.020 (0.020) (79.688%)	%) 39) %) Loss	Data 0.6134	0.012 (0.6134	(0.012) 4) Prec	Los:

best acc: 86.010000	
Epoch: [51][0/782] Time 0.034 (0.034)	Data 0.013 (0.013) Loss
0.3722 (0.3722) Prec 87.500% (87.500%)	
Epoch: [51][100/782] Time 0.040 (0.039)	Data 0.012 (0.012) Loss
0.3292 (0.3294) Prec 87.500% (88.707%)	
Epoch: [51][200/782] Time 0.041 (0.039)	Data 0.012 (0.012) Loss
0.2865 (0.3253) Prec 84.375% (88.713%)	
Epoch: [51][300/782] Time 0.034 (0.039)	Data 0.012 (0.012) Loss
0.3082 (0.3197) Prec 93.750% (88.891%)	
Epoch: [51][400/782] Time 0.033 (0.039)	Data 0.012 (0.012) Loss
0.3233 (0.3191) Prec 85.938% (88.879%)	
Epoch: [51][500/782] Time 0.039 (0.039)	Data 0.018 (0.012) Loss
0.2624 (0.3214) Prec 92.188% (88.850%)	
Epoch: [51][600/782] Time 0.032 (0.039)	Data 0.012 (0.012) Loss
0.3977 (0.3228) Prec 85.938% (88.826%)	
Epoch: [51][700/782] Time 0.038 (0.039)	Data 0.019 (0.012) Loss
0.2803 (0.3240) Prec 87.500% (88.739%)	
Validation starts	
Test: [0/157] Time 0.024 (0.024) Loss	0.6054 (0.6054) Prec 82.812%
(82.812%)	
Test: [100/157] Time 0.019 (0.019) Loss	0.4802 (0.4348) Prec 84.375%
(85.535%)	
* Prec 85.840%	
best acc: 86.010000	
Epoch: [52][0/782] Time 0.033 (0.033)	Data 0.013 (0.013) Loss
0.2579 (0.2579) Prec 89.062% (89.062%)	
Epoch: [52][100/782] Time 0.039 (0.039)	Data 0.012 (0.012) Loss
0.2586 (0.3271) Prec 95.312% (88.738%)	
Epoch: [52][200/782] Time 0.039 (0.039)	Data 0.013 (0.012) Loss
0.2735 (0.3219) Prec 92.188% (88.985%)	
Epoch: [52] [300/782] Time 0.044 (0.039)	Data 0.012 (0.012) Loss
0.2223 (0.3208) Prec 95.312% (88.953%)	
Epoch: [52] [400/782] Time 0.040 (0.039)	Data 0.012 (0.012) Loss
0.1915 (0.3247) Prec 95.312% (88.852%)	
Epoch: [52][500/782] Time 0.040 (0.039)	Data 0.012 (0.012) Loss
0.2854 (0.3234) Prec 93.750% (88.925%)	
Epoch: [52][600/782] Time 0.045 (0.039)	Data 0.012 (0.012) Loss
0.2969 (0.3253) Prec 89.062% (88.784%)	
Epoch: [52][700/782] Time 0.039 (0.039)	Data 0.012 (0.012) Loss
0.4440 (0.3255) Prec 87.500% (88.742%)	2404 01012 (01012) 2020
Validation starts	
Test: [0/157] Time 0.022 (0.022) Loss	0.5279 (0.5279) Prec 84.375%
(84.375%)	0.0210 (0.0210) 1100 01.010%
Test: [100/157] Time 0.020 (0.019) Loss	0.5618 (0.4931) Prec 75.000%
(83.617%)	0.0010 (0.1001) 1100 /0.000/
* Prec 83.980%	
best acc: 86.010000	
Epoch: [53] [0/782] Time 0.033 (0.033)	Data 0.015 (0.015) Loss
LPOOL. [00][0/102] IIMG 0.000 (0.000)	Data 0.010 (0.010) LOSS

- 1 [F0][400/F00] 0 044 /0 0	%)				
Epoch: [53] [100/782] Time 0.044 (0.0		Data	0.012	(0.013)	Loss
0.3582 (0.3215) Prec 84.375% (88.521 Epoch: [53] [200/782] Time 0.038 (0.0		Da+a	0 015	(0.013)	Loss
0.3987 (0.3206) Prec 85.938% (88.954)		Data	0.015	(0.013)	LUSS
Epoch: [53][300/782] Time 0.043 (0.0		Data	0.012	(0.013)	Loss
0.3047 (0.3187) Prec 90.625% (89.135					
Epoch: [53] [400/782] Time 0.039 (0.0		Data	0.012	(0.013)	Loss
0.3455 (0.3184) Prec 89.062% (89.121°		ъ.	0.040	(0.040)	.
Epoch: [53] [500/782] Time 0.041 (0.0 0.1617 (0.3182) Prec 95.312% (89.038		Data	0.012	(0.013)	Loss
Epoch: [53] [600/782] Time 0.039 (0.0		Data	0 012	(0.013)	Loss
0.3693 (0.3213) Prec 85.938% (88.899		Dava	0.012	(0.013)	LUSS
Epoch: [53] [700/782] Time 0.035 (0.0		Data	0.012	(0.013)	Loss
0.1765 (0.3234) Prec 92.188% (88.869				(***==,	
Validation starts					
Test: [0/157] Time 0.022 (0.022)	Loss 0.	.4835 ((0.4835) Prec	85.938%
(85.938%)					
Test: [100/157] Time 0.018 (0.018)	Loss 0.	.4438 ((0.4387) Prec	84.375%
(85.458%)					
* Prec 85.250%					
best acc: 86.010000	21)	Data	0 016	(0.016)	T
Epoch: [54] [0/782] Time 0.031 (0.0 0.3887 (0.3887) Prec 90.625% (90.625		Data	0.016	(0.016)	Loss
Epoch: [54] [100/782] Time 0.039 (0.0		Data	0 012	(0.013)	Loss
0.2766 (0.3030) Prec 89.062% (89.465)		Dava	0.012	(0.010)	Довь
Epoch: [54] [200/782] Time 0.040 (0.0		Data	0.012	(0.013)	Loss
Epoch: [54] [200/782] Time 0.040 (0.0 0.2751 (0.3071) Prec 92.188% (89.350	39)	Data	0.012	(0.013)	Loss
-	39) %)			(0.013) (0.013)	Loss
0.2751 (0.3071) Prec 92.188% (89.350	39) %) 39)				
0.2751 (0.3071) Prec 92.188% (89.350) Epoch: [54] [300/782] Time 0.038 (0.0) 0.4527 (0.3138) Prec 89.062% (89.037) Epoch: [54] [400/782] Time 0.039 (0.0)	39) %) 39) %) 39)	Data	0.019		
0.2751 (0.3071) Prec 92.188% (89.350) Epoch: [54] [300/782] Time 0.038 (0.0) 0.4527 (0.3138) Prec 89.062% (89.037) Epoch: [54] [400/782] Time 0.039 (0.0) 0.2643 (0.3157) Prec 90.625% (89.047)	39) %) 39) %) 39) %)	Data Data	0.019	(0.013)	Loss Loss
0.2751 (0.3071) Prec 92.188% (89.350) Epoch: [54] [300/782] Time 0.038 (0.0) 0.4527 (0.3138) Prec 89.062% (89.037) Epoch: [54] [400/782] Time 0.039 (0.0) 0.2643 (0.3157) Prec 90.625% (89.047) Epoch: [54] [500/782] Time 0.045 (0.0)	39) %) 39) %) 39) %)	Data Data	0.019	(0.013)	Loss
0.2751 (0.3071) Prec 92.188% (89.350) Epoch: [54] [300/782] Time 0.038 (0.0) 0.4527 (0.3138) Prec 89.062% (89.037) Epoch: [54] [400/782] Time 0.039 (0.0) 0.2643 (0.3157) Prec 90.625% (89.047) Epoch: [54] [500/782] Time 0.045 (0.0) 0.3686 (0.3171) Prec 85.938% (88.941)	39) %) 39) %) 39) %) 39) %)	Data Data Data	0.019 0.012 0.012	(0.013) (0.013) (0.013)	Loss Loss Loss
0.2751 (0.3071) Prec 92.188% (89.350) Epoch: [54] [300/782] Time 0.038 (0.0) 0.4527 (0.3138) Prec 89.062% (89.037) Epoch: [54] [400/782] Time 0.039 (0.0) 0.2643 (0.3157) Prec 90.625% (89.047) Epoch: [54] [500/782] Time 0.045 (0.0) 0.3686 (0.3171) Prec 85.938% (88.941) Epoch: [54] [600/782] Time 0.035 (0.0)	39) %) 39) %) 39) %) 39) %)	Data Data Data	0.019 0.012 0.012	(0.013)	Loss Loss Loss
0.2751 (0.3071) Prec 92.188% (89.350) Epoch: [54] [300/782] Time 0.038 (0.0) 0.4527 (0.3138) Prec 89.062% (89.037) Epoch: [54] [400/782] Time 0.039 (0.0) 0.2643 (0.3157) Prec 90.625% (89.047) Epoch: [54] [500/782] Time 0.045 (0.0) 0.3686 (0.3171) Prec 85.938% (88.941) Epoch: [54] [600/782] Time 0.035 (0.0) 0.1774 (0.3212) Prec 93.750% (88.818)	39) %) 39) %) 39) %) 39) %) 39) %)	Data Data Data Data	0.019 0.012 0.012 0.012	(0.013) (0.013) (0.013) (0.013)	Loss Loss Loss
0.2751 (0.3071) Prec 92.188% (89.350) Epoch: [54] [300/782] Time 0.038 (0.0) 0.4527 (0.3138) Prec 89.062% (89.037) Epoch: [54] [400/782] Time 0.039 (0.0) 0.2643 (0.3157) Prec 90.625% (89.047) Epoch: [54] [500/782] Time 0.045 (0.0) 0.3686 (0.3171) Prec 85.938% (88.941) Epoch: [54] [600/782] Time 0.035 (0.0) 0.1774 (0.3212) Prec 93.750% (88.818) Epoch: [54] [700/782] Time 0.034 (0.0)	39) %) 39) %) 39) %) 39) %) 39) %) 39)	Data Data Data Data	0.019 0.012 0.012 0.012	(0.013) (0.013) (0.013)	Loss Loss Loss
0.2751 (0.3071) Prec 92.188% (89.350) Epoch: [54] [300/782] Time 0.038 (0.0) 0.4527 (0.3138) Prec 89.062% (89.037) Epoch: [54] [400/782] Time 0.039 (0.0) 0.2643 (0.3157) Prec 90.625% (89.047) Epoch: [54] [500/782] Time 0.045 (0.0) 0.3686 (0.3171) Prec 85.938% (88.941) Epoch: [54] [600/782] Time 0.035 (0.0) 0.1774 (0.3212) Prec 93.750% (88.818) Epoch: [54] [700/782] Time 0.034 (0.0) 0.1677 (0.3193) Prec 96.875% (88.906)	39) %) 39) %) 39) %) 39) %) 39) %) 39)	Data Data Data Data	0.019 0.012 0.012 0.012	(0.013) (0.013) (0.013) (0.013)	Loss Loss Loss
0.2751 (0.3071) Prec 92.188% (89.350) Epoch: [54] [300/782] Time 0.038 (0.0) 0.4527 (0.3138) Prec 89.062% (89.037) Epoch: [54] [400/782] Time 0.039 (0.0) 0.2643 (0.3157) Prec 90.625% (89.047) Epoch: [54] [500/782] Time 0.045 (0.0) 0.3686 (0.3171) Prec 85.938% (88.941) Epoch: [54] [600/782] Time 0.035 (0.0) 0.1774 (0.3212) Prec 93.750% (88.818) Epoch: [54] [700/782] Time 0.034 (0.0) 0.1677 (0.3193) Prec 96.875% (88.906) Validation starts	39) %) 39) %) 39) %) 39) %) 39) %) 39)	Data Data Data Data Data	0.019 0.012 0.012 0.012 0.013	(0.013) (0.013) (0.013) (0.013) (0.013)	Loss Loss Loss
0.2751 (0.3071) Prec 92.188% (89.350) Epoch: [54] [300/782] Time 0.038 (0.0) 0.4527 (0.3138) Prec 89.062% (89.037) Epoch: [54] [400/782] Time 0.039 (0.0) 0.2643 (0.3157) Prec 90.625% (89.047) Epoch: [54] [500/782] Time 0.045 (0.0) 0.3686 (0.3171) Prec 85.938% (88.941) Epoch: [54] [600/782] Time 0.035 (0.0) 0.1774 (0.3212) Prec 93.750% (88.818) Epoch: [54] [700/782] Time 0.034 (0.0) 0.1677 (0.3193) Prec 96.875% (88.906) Validation starts	39) %) 39) %) 39) %) 39) %) 39) %) 39) %)	Data Data Data Data Data	0.019 0.012 0.012 0.012 0.013	(0.013) (0.013) (0.013) (0.013) (0.013)	Loss Loss Loss Loss
0.2751 (0.3071) Prec 92.188% (89.350) Epoch: [54] [300/782] Time 0.038 (0.0) 0.4527 (0.3138) Prec 89.062% (89.037) Epoch: [54] [400/782] Time 0.039 (0.0) 0.2643 (0.3157) Prec 90.625% (89.047) Epoch: [54] [500/782] Time 0.045 (0.0) 0.3686 (0.3171) Prec 85.938% (88.941) Epoch: [54] [600/782] Time 0.035 (0.0) 0.1774 (0.3212) Prec 93.750% (88.818) Epoch: [54] [700/782] Time 0.034 (0.0) 0.1677 (0.3193) Prec 96.875% (88.906) Validation starts Test: [0/157] Time 0.023 (0.023)	39) %) 39) %) 39) %) 39) %) 39) %) 39) %) Loss 0.	Data Data Data Data Data	0.019 0.012 0.012 0.012 0.013	(0.013) (0.013) (0.013) (0.013) (0.013)	Loss Loss Loss Loss See Loss
0.2751 (0.3071) Prec 92.188% (89.350) Epoch: [54] [300/782] Time 0.038 (0.0) 0.4527 (0.3138) Prec 89.062% (89.037) Epoch: [54] [400/782] Time 0.039 (0.0) 0.2643 (0.3157) Prec 90.625% (89.047) Epoch: [54] [500/782] Time 0.045 (0.0) 0.3686 (0.3171) Prec 85.938% (88.941) Epoch: [54] [600/782] Time 0.035 (0.0) 0.1774 (0.3212) Prec 93.750% (88.818) Epoch: [54] [700/782] Time 0.034 (0.0) 0.1677 (0.3193) Prec 96.875% (88.906) Validation starts Test: [0/157] Time 0.023 (0.023) (82.812%)	39) %) 39) %) 39) %) 39) %) 39) %) 39) %) Loss 0.	Data Data Data Data Data	0.019 0.012 0.012 0.012 0.013	(0.013) (0.013) (0.013) (0.013) (0.013)	Loss Loss Loss Loss See Loss
0.2751 (0.3071) Prec 92.188% (89.350) Epoch: [54] [300/782] Time 0.038 (0.0) 0.4527 (0.3138) Prec 89.062% (89.037) Epoch: [54] [400/782] Time 0.039 (0.0) 0.2643 (0.3157) Prec 90.625% (89.047) Epoch: [54] [500/782] Time 0.045 (0.0) 0.3686 (0.3171) Prec 85.938% (88.941) Epoch: [54] [600/782] Time 0.035 (0.0) 0.1774 (0.3212) Prec 93.750% (88.818) Epoch: [54] [700/782] Time 0.034 (0.0) 0.1677 (0.3193) Prec 96.875% (88.906) Validation starts Test: [0/157] Time 0.023 (0.023) (82.812%) Test: [100/157] Time 0.019 (0.019) (84.793%) * Prec 84.950%	39) %) 39) %) 39) %) 39) %) 39) %) 39) %) Loss 0.	Data Data Data Data Data	0.019 0.012 0.012 0.012 0.013	(0.013) (0.013) (0.013) (0.013) (0.013)	Loss Loss Loss Loss See Loss
0.2751 (0.3071) Prec 92.188% (89.350) Epoch: [54] [300/782] Time 0.038 (0.0) 0.4527 (0.3138) Prec 89.062% (89.037) Epoch: [54] [400/782] Time 0.039 (0.0) 0.2643 (0.3157) Prec 90.625% (89.047) Epoch: [54] [500/782] Time 0.045 (0.0) 0.3686 (0.3171) Prec 85.938% (88.941) Epoch: [54] [600/782] Time 0.035 (0.0) 0.1774 (0.3212) Prec 93.750% (88.818) Epoch: [54] [700/782] Time 0.034 (0.0) 0.1677 (0.3193) Prec 96.875% (88.906) Validation starts Test: [0/157] Time 0.023 (0.023) (82.812%) Test: [100/157] Time 0.019 (0.019) (84.793%) * Prec 84.950% best acc: 86.010000	39) %) 39) %) 39) %) 39) %) 39) %) Loss 0.	Data Data Data Data Data .5167 (0.019 0.012 0.012 0.013 (0.5167 (0.4630	(0.013) (0.013) (0.013) (0.013) (0.013) Prec	Loss Loss Loss Loss 82.812%
0.2751 (0.3071) Prec 92.188% (89.350) Epoch: [54] [300/782] Time 0.038 (0.0) 0.4527 (0.3138) Prec 89.062% (89.037) Epoch: [54] [400/782] Time 0.039 (0.0) 0.2643 (0.3157) Prec 90.625% (89.047) Epoch: [54] [500/782] Time 0.045 (0.0) 0.3686 (0.3171) Prec 85.938% (88.941) Epoch: [54] [600/782] Time 0.035 (0.0) 0.1774 (0.3212) Prec 93.750% (88.818) Epoch: [54] [700/782] Time 0.034 (0.0) 0.1677 (0.3193) Prec 96.875% (88.906) Validation starts Test: [0/157] Time 0.023 (0.023) (82.812%) Test: [100/157] Time 0.019 (0.019) (84.793%) * Prec 84.950% best acc: 86.010000 Epoch: [55] [0/782] Time 0.030 (0.0	39) %) 39) %) 39) %) 39) %) 39) %) Loss 0. Loss 0.	Data Data Data Data Data .5167 (0.019 0.012 0.012 0.013 (0.5167 (0.4630	(0.013) (0.013) (0.013) (0.013) (0.013)	Loss Loss Loss Loss See Loss
0.2751 (0.3071) Prec 92.188% (89.350) Epoch: [54] [300/782] Time 0.038 (0.0) 0.4527 (0.3138) Prec 89.062% (89.037) Epoch: [54] [400/782] Time 0.039 (0.0) 0.2643 (0.3157) Prec 90.625% (89.047) Epoch: [54] [500/782] Time 0.045 (0.0) 0.3686 (0.3171) Prec 85.938% (88.941) Epoch: [54] [600/782] Time 0.035 (0.0) 0.1774 (0.3212) Prec 93.750% (88.818) Epoch: [54] [700/782] Time 0.034 (0.0) 0.1677 (0.3193) Prec 96.875% (88.906) Validation starts Test: [0/157] Time 0.023 (0.023) (82.812%) Test: [100/157] Time 0.019 (0.019) (84.793%) * Prec 84.950% best acc: 86.010000	39) %) 39) %) 39) %) 39) %) 39) %) Loss 0. Loss 0.	Data Data Data Data Data Data Data Data	0.019 0.012 0.012 0.013 (0.5167 (0.4630	(0.013) (0.013) (0.013) (0.013) (0.013) Prec	Loss Loss Loss Loss 82.812%

0.1803 (0.3077) Prec 93.750% (89.279%)	
Epoch: [55] [200/782] Time 0.034 (0.039) 0.1467 (0.3038) Prec 93.750% (89.568%)	Data 0.012 (0.012) Loss
Epoch: [55][300/782] Time 0.038 (0.039)	Data 0.019 (0.012) Loss
0.3001 (0.3120) Prec 89.062% (89.353%) Epoch: [55] [400/782] Time 0.036 (0.039)	Data 0.013 (0.012) Loss
0.4871 (0.3189) Prec 85.938% (89.039%) Epoch: [55] [500/782] Time 0.034 (0.039)	Data 0.012 (0.012) Loss
0.2632 (0.3195) Prec 89.062% (89.003%) Epoch: [55][600/782] Time 0.044 (0.039)	Data 0.011 (0.012) Loss
0.3445 (0.3193) Prec 89.062% (89.013%) Epoch: [55] [700/782] Time 0.039 (0.039)	Data 0.012 (0.012) Loss
0.3316 (0.3167) Prec 87.500% (89.060%)	
Validation starts	
Test: [0/157] Time 0.021 (0.021) Los (90.625%)	s 0.4020 (0.4020) Prec 90.625%
Test: [100/157] Time 0.019 (0.019) Los (85.427%)	s 0.4277 (0.4389) Prec 82.812%
* Prec 85.250%	
best acc: 86.010000	
Epoch: [56] [0/782] Time 0.028 (0.028) 0.4319 (0.4319) Prec 82.812% (82.812%)	Data 0.013 (0.013) Loss
Epoch: [56][100/782] Time 0.044 (0.039)	Data 0.012 (0.013) Loss
0.2291 (0.3281) Prec 92.188% (88.970%) Epoch: [56] [200/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.2724 (0.3144) Prec 84.375% (89.319%) Epoch: [56] [300/782] Time 0.039 (0.039)	Data 0.015 (0.013) Loss
0.2186 (0.3149) Prec 95.312% (89.353%)	Data 0.013 (0.013) LOSS
Epoch: [56][400/782] Time 0.036 (0.039)	Data 0.013 (0.012) Loss
0.4306 (0.3163) Prec 84.375% (89.211%)	
Epoch: [56] [500/782] Time 0.039 (0.039) 0.2809 (0.3176) Prec 92.188% (89.116%)	Data 0.015 (0.012) Loss
Epoch: [56] [600/782] Time 0.044 (0.039)	Data 0.012 (0.012) Loss
0.2988 (0.3145) Prec 92.188% (89.161%)	
Epoch: [56] [700/782] Time 0.042 (0.039) 0.3302 (0.3154) Prec 85.938% (89.129%)	Data 0.012 (0.012) Loss
Validation starts	
Test: [0/157] Time 0.022 (0.022) Los	s 0.5004 (0.5004) Prec 84.375%
(84.375%) Test: [100/157] Time 0.018 (0.018) Los	s 0.6022 (0.4465) Prec 82.812%
(85.551%) * Prec 85.720%	
best acc: 86.010000	
Epoch: [57] [0/782] Time 0.029 (0.029)	Data 0.013 (0.013) Loss
0.3890 (0.3890) Prec 87.500% (87.500%)	Data 0.015 (0.015) LOSS
Epoch: [57][100/782] Time 0.039 (0.039)	Data 0.015 (0.013) Loss
0.6193 (0.3242) Prec 78.125% (88.815%)	
Epoch: [57] [200/782] Time 0.040 (0.039)	Data 0.012 (0.012) Loss

0.3055 (0.3247) Prec 89.062% (88.845					
Epoch: [57] [300/782] Time 0.038 (0.0 0.4262 (0.3185) Prec 82.812% (88.917		Data	0.019	(0.012)	Loss
Epoch: [57] [400/782] Time 0.038 (0.0		Data	0.018	(0.012)	Loss
0.3519 (0.3161) Prec 90.625% (89.027					
Epoch: [57][500/782] Time 0.042 (0.0)39)	Data	0.012	(0.012)	Loss
0.5426 (0.3203) Prec 79.688% (88.903	3%)				
Epoch: [57][600/782] Time 0.038 (0.0)39)	Data	0.020	(0.012)	Loss
0.2602 (0.3227) Prec 89.062% (88.826					
Epoch: [57] [700/782] Time 0.034 (0.0		Data	0.013	(0.012)	Loss
0.1893 (0.3227) Prec 92.188% (88.817	7%)				
Validation starts	_				
Test: [0/157] Time 0.025 (0.025)	Loss	0.5382	(0.5382	2) Prec	82.812%
(82.812%)	.	0 4050	(0.4476) D	04 075%
Test: [100/157] Time 0.018 (0.018)	Loss	0.4250	(0.4473	3) Prec	84.375%
(85.860%) * Prec 85.720%					
best acc: 86.010000					
Epoch: [58] [0/782] Time 0.031 (0.0	131)	Data	0 016	(0.016)	Loss
0.3831 (0.3831) Prec 89.062% (89.062		Data	0.010	(0.010)	цовь
Epoch: [58] [100/782] Time 0.039 (0.0		Data	0.011	(0.013)	Loss
0.4241 (0.3116) Prec 84.375% (89.217		Dava	0.011	(0.010)	2000
Epoch: [58] [200/782] Time 0.040 (0.0		Data	0.012	(0.013)	Loss
0.2455 (0.3053) Prec 93.750% (89.630				••••	
Epoch: [58] [300/782] Time 0.042 (0.0		Data	0.012	(0.013)	Loss
0.2521 (0.3075) Prec 92.188% (89.395	5%)				
Epoch: [58] [400/782] Time 0.043 (0.0	039)	Data	0.012	(0.012)	Loss
0.4456 (0.3144) Prec 82.812% (89.129%)					
Epoch: [58][500/782] Time 0.042 (0.0)39)	Data	0.012	(0.012)	Loss
0.3730 (0.3139) Prec 87.500% (89.175	5%)				
Epoch: [58][600/782] Time 0.035 (0.0		Data	0.012	(0.012)	Loss
0.4739 (0.3151) Prec 84.375% (89.140					
Epoch: [58] [700/782] Time 0.041 (0.0		Data	0.012	(0.012)	Loss
0.4728 (0.3173) Prec 85.938% (89.045	5%)				
Validation starts	_				
Test: [0/157] Time 0.021 (0.021)	Loss	0.4882	(0.4882	2) Prec	84.375%
(84.375%)	T	0 4650	(0.4500) D	00 010%
Test: [100/157] Time 0.018 (0.018)	Loss	0.4658	(0.4598	3) Prec	82.812%
(85.442%) * Prec 85.140%					
best acc: 86.010000					
Epoch: [59] [0/782] Time 0.033 (0.0	J33)	Da+a	0 017	(0.017)	Loss
0.1999 (0.1999) Prec 90.625% (90.625		Data	0.017	(0.017)	цовь
Epoch: [59] [100/782] Time 0.039 (0.0		Data	0.012	(0.013)	Loss
0.4405 (0.3038) Prec 85.938% (89.542%)					
Epoch: [59] [200/782] Time 0.039 (0.0		Data	0.012	(0.012)	Loss
0.1803 (0.3091) Prec 93.750% (89.397					
Epoch: [59][300/782] Time 0.040 (0.0)39)	Data	0.012	(0.012)	Loss

Epoch: [59][400/782] Time 0.042 (0.039) Data 0.012 (0.012) Loss 0.1791 (0.3103) Prec 93.750% (89.460%) Epoch: [59][500/782] Time 0.042 (0.039) Data 0.012 (0.012) Loss 0.2997 (0.3135) Prec 87.500% (89.402%) Epoch: [59][600/782] Time 0.039 (0.039) Data 0.013 (0.012) Loss 0.2114 (0.3147) Prec 93.750% (89.361%) Epoch: [59][700/782] Time 0.039 (0.039) Data 0.012 (0.012) Loss 0.2914 (0.3149) Prec 93.750% (89.361%) Epoch: [69][700/782] Time 0.039 (0.039) Data 0.012 (0.012) Loss 0.2981 (0.3149) Prec 90.625% (89.301%) Validation starts Test: [0/157] Time 0.022 (0.022) Loss 0.5558 (0.5558) Prec 81.250% (81.250%) Perc 84.840% Loss 0.5697 (0.4749) Prec 81.250% (81.250%) Perc 86.010000 Epoch: [60][00/782] Time 0.032 (0.032) Data 0.017 (0.017) Loss 0.3001 (0.3001) Prec 90.625% (90.625%) Epoch: [60][100/782] Time 0.044 (0.039) Data 0.019 (0.013) Loss 0.3001 (0.3001) Prec 90.625% (89.217%) Epoch: [60][200/782] Time 0.044 (0.039) Data 0.012 (0.013) Loss 0.2044 (0.3141) Prec 90.625% (89.994%) Epoch: [60][300/782] Time 0.044 (0.039) Data 0.012 (0.013) Loss 0.2084 (0.3966) Prec 95.312% (89.204%) Epoch: [60][400/782] Time 0.039 (0.039) Data 0.012 (0.012) Loss 0.4096 (0.3096) Prec 95.312% (89.072%) Epoch: [60][500/782] Time 0.039 (0.039) Data 0.012 (0.012) Loss 0.4664 (0.3169) Prec 95.312% (89.072%) Epoch: [60][500/782] Time 0.039 (0.039) Data 0.012 (0.012) Loss 0.2664 (0.3164) Prec 95.312% (89.072%) Epoch: [60][500/782] Time 0.040 (0.039) Data 0.012 (0.012) Loss 0.2664 (0.3164) Prec 87.500% (89.127%) Epoch: [60][500/782] Time 0.045 (0.039) Data 0.012 (0.012) Loss 0.2664 (0.3164) Prec 87.500% (89.127%) Epoch: [60][100/782] Time 0.040 (0.039) Data 0.012 (0.012) Loss 0.2664 (0.3164) Prec 87.500% (89.127%) Epoch: [60][100/782] Time 0.040 (0.039) Data 0.012 (0.012) Loss 0.2664 (0.3164) Prec 87.500% (89.127%) Epoch: [60][100/782] Time 0.040 (0.039) Data 0.012 (0.012) Loss 0.2666 (0.3164) Prec 87.500% (89.127%) Epoch: [60][100/782] Time 0.040 (0.039) Data 0.012 (0.013) Loss 0.1573 (0.1573) Prec 95.312% (98.182%) Epoch: [61][100/782] Time	0.2788 (0.3115) Prec 90.625% (89.473%)					
O.1791 (0.3103) Prec 93.750% (89.460%) Epoch: [59] [500/782] Time 0.042 (0.039) Data 0.012 (0.012) Loss 0.2997 (0.3135) Prec 87.500% (89.402%) Epoch: [59] [600/782] Time 0.039 (0.039) Data 0.013 (0.012) Loss 0.2114 (0.3147) Prec 93.750% (89.351%) Epoch: [59] [700/782] Time 0.039 (0.039) Data 0.012 (0.012) Loss 0.2981 (0.3149) Prec 90.625% (89.301%) Validation starts Time 0.022 (0.022) Loss 0.5558 (0.5558) Prec 81.250% (81.250%) Prec 81.250% (81.250%) Prec 84.840% Pre		Data 0.012 (0.012) Loss				
Epoch: [59][500/782]	-	2000 0.012 (0.012)				
O.2997 (0.3135) Prec 87.500% (89.402%) Epoch: [59] [500/782] Time 0.039 (0.039) Data 0.013 (0.012) Loss 0.2114 (0.3147) Prec 93.750% (89.351%) Epoch: [59] [700/782] Time 0.039 (0.039) Data 0.012 (0.012) Loss 0.2981 (0.3149) Prec 90.625% (89.301%) Validation starts Validation validation Validation Validation Validation Validation Validation Validation Validation Validation Validation Validation		Data 0.012 (0.012) Loss				
Epoch: [59][600/782]	-					
0.2114 (0.3147)		Data 0.013 (0.012) Loss				
Epoch: [59][700/782]	-					
Natidation starts Prec 90.625% (89.301%) Validation starts Sest: [0/157] Time 0.022 (0.022) Loss 0.5558 (0.5558) Prec 81.250% (81.250%)		Data 0.012 (0.012) Loss				
Test: [0/157]	•	,				
Time 0.022 0.022 0.022 0.05558 0.5558 0.5558 0.550						
Rest: [100/157] Time 0.019 (0.019) Loss 0.5697 (0.4749) Prec 81.250% (84.793%)		0.5558 (0.5558) Prec 81.250%				
Time						
* Prec 84.840% best acc: 86.010000 Fpoch: [60] [0/782] Time 0.032 (0.032) Data 0.017 (0.017) Loss 0.3001 (0.3001) Prec 90.625% (90.625%) Epoch: [60] [100/782] Time 0.044 (0.039) Data 0.019 (0.013) Loss 0.3065 (0.3121) Prec 90.625% (88.217%) Epoch: [60] [200/782] Time 0.044 (0.039) Data 0.012 (0.013) Loss 0.2144 (0.3141) Prec 93.750% (88.094%) Epoch: [60] [300/782] Time 0.044 (0.039) Data 0.012 (0.013) Loss 0.2084 (0.3096) Prec 95.312% (89.244%) Epoch: [60] [400/782] Time 0.039 (0.039) Data 0.012 (0.012) Loss 0.4092 (0.3098) Prec 84.375% (89.218%) Epoch: [60] [500/782] Time 0.039 (0.039) Data 0.012 (0.012) Loss 0.1741 (0.3162) Prec 95.312% (89.072%) Epoch: [60] [600/782] Time 0.045 (0.039) Data 0.012 (0.012) Loss 0.2664 (0.3154) Prec 87.500% (89.127%) Epoch: [60] [600/782] Time 0.045 (0.039) Data 0.012 (0.012) Loss 0.2144 (0.3158) Prec 92.188% (89.096%) Validation starts Test: [0/157] Time 0.024 (0.024) Loss 0.5267 (0.5267) Prec 84.375% (84.375%) Frec 85.150% Epoch: [61] [0/782] Time 0.038 (0.038) Data 0.021 (0.021) Loss 0.1573 (0.1573) Prec 95.312% (95.312%) Epoch: [61] [100/782] Time 0.038 (0.038) Data 0.021 (0.021) Loss 0.1573 (0.1573) Prec 95.312% (95.312%) Epoch: [61] [100/782] Time 0.045 (0.039) Data 0.021 (0.021) Loss 0.1573 (0.1573) Prec 95.312% (95.312%) Epoch: [61] [100/782] Time 0.045 (0.039) Data 0.012 (0.013) Loss 0.1573 (0.1573) Prec 95.312% (95.312%) Epoch: [61] [100/782] Time 0.045 (0.039) Data 0.012 (0.013) Loss 0.3781 (0.3050) Prec 95.38% (89.465%) Epoch: [61] [100/782] Time 0.044 (0.039) Data 0.012 (0.013) Loss 0.2762 (0.3003) Prec 85.98% (89.490%) Epoch: [61] [300/782] Time 0.044 (0.039) Data 0.012 (0.013) Loss 0.2762 (0.3003) Prec 85.98% (89.490%) Epoch: [61] [300/782] Time 0.044 (0.039) Data 0.012 (0.012) Loss 0.2762 (0.3003) Prec 85.98% (89.490%) Epoch: [61] [200/782] Time 0.044 (0.039) Data 0.012 (0.012) Loss 0.		0.5697 (0.4749) Prec 81.250%				
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Dest acc: 86.010000 Epoch: [60] [0/782] Time 0.032 (0.032) Data 0.017 (0.017) Loss 0.3001 (0.3001) Prec 90.625% (90.625%) Data 0.019 (0.013) Loss 0.3005 (0.3121) Prec 90.625% (89.217%) Epoch: [60] [100/782] Time 0.044 (0.039) Data 0.012 (0.013) Loss 0.2144 (0.3141) Prec 93.750% (89.094%) Epoch: [60] [300/782] Time 0.044 (0.039) Data 0.012 (0.013) Loss 0.2084 (0.3096) Prec 95.312% (89.244%) Epoch: [60] [400/782] Time 0.044 (0.039) Data 0.012 (0.012) Loss 0.4092 (0.3098) Prec 84.375% (89.218%) Epoch: [60] [500/782] Time 0.039 (0.039) Data 0.012 (0.012) Loss 0.1741 (0.3162) Prec 95.312% (89.072%) Epoch: [60] [600/782] Time 0.045 (0.039) Data 0.012 (0.012) Loss 0.2664 (0.3154) Prec 87.500% (89.127%) Epoch: [60] [600/782] Time 0.040 (0.039) Data 0.012 (0.012) Loss 0.2144 (0.3158) Prec 92.188% (89.096%) Prec 87.500% (89.127%) Epoch: [60] [700/782] Time 0.040 (0.039) Data 0.012 (0.012) Loss 0.2144 (0.3158) Prec 92.188% (89.096%) Prec 84.375% (84.375%) Prec 85.150% Prec 85.150% Epoch: [61] [00/782] Time 0.040 (0.039) Data 0.012 (0.012) Loss 0.1573 (0.1573) Prec 95.312% (95.312%) Epoch: [61] [00/782] Time 0.038 (0.038) Data 0.021 (0.021) Loss 0.1573 (0.1573) Prec 95.312% (95.312%) Epoch: [61] [100/782] Time 0.045 (0.039) Data 0.012 (0.013) Loss 0.3781 (0.3050) Prec 95.938% (89.496%) Epoch: [61] [200/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2762 (0.3003) Prec 85.938% (89.496%) Epoch: [61] [300/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2762 (0.3003) Prec 85.938% (89.496%) Epoch: [61] [300/782] Time 0.044 (0.039) Data 0.012 (0.013) Loss 0.2762 (0.3003) Prec 85.938% (89.496%) Epoch: [61] [300/782] Time 0.044 (0.039) Data 0.012 (0.012) Loss 0.2925 (0.3090) Prec 89.062% (89.182%) Epoch: [61] [300/782] Time 0.044 (0.039) Data 0.012 (0.012) Loss 0.2925 (0.3090) Prec 89.062% (89.182%) Epoch: [61] [300/782] Time 0.044 (0.039) Data 0.0						
Discription Prec 90.625% (90.625%) Epoch: [60] [100/782] Time 0.044 (0.039) Data 0.019 (0.013) Loss 0.3065 (0.3121) Prec 90.625% (89.217%) Epoch: [60] [200/782] Time 0.044 (0.039) Data 0.012 (0.013) Loss 0.2144 (0.3141) Prec 93.750% (89.094%) Epoch: [60] [300/782] Time 0.044 (0.039) Data 0.012 (0.013) Loss 0.2084 (0.3096) Prec 95.312% (89.244%) Epoch: [60] [400/782] Time 0.039 (0.039) Data 0.012 (0.012) Loss 0.4092 (0.3098) Prec 84.375% (89.218%) Epoch: [60] [500/782] Time 0.039 (0.039) Data 0.012 (0.012) Loss 0.1741 (0.3162) Prec 95.312% (89.072%) Epoch: [60] [600/782] Time 0.045 (0.039) Data 0.012 (0.012) Loss 0.2664 (0.3154) Prec 87.500% (89.127%) Epoch: [60] [700/782] Time 0.045 (0.039) Data 0.012 (0.012) Loss 0.2144 (0.3158) Prec 92.188% (89.096%) Prec 92.188% (89.096%) Epoch: [60] [700/782] Time 0.040 (0.039) Data 0.012 (0.012) Loss 0.2144 (0.3158) Prec 92.188% (89.096%) Epoch: [60] [700/782] Time 0.040 (0.039) Data 0.012 (0.012) Loss 0.2144 (0.3158) Prec 92.188% (89.096%) Epoch: [60] [700/782] Time 0.040 (0.039) Data 0.012 (0.012) Loss 0.2166 (0.0378) Epoch: [60] [700/782] Time 0.038 (0.038) Data 0.012 (0.021) Loss 0.1673 (0.1573) Prec 95.312% (95.312%) Epoch: [61] [100/782] Time 0.045 (0.039) Data 0.012 (0.013) Loss 0.3781 (0.3050) Prec 90.625% (89.465%) Epoch: [61] [200/782] Time 0.038 (0.039) Data 0.012 (0.013) Loss 0.2762 (0.3003) Prec 95.625% (89.465%) Epoch: [61] [300/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2762 (0.3003) Prec 85.938% (89.490%) Epoch: [61] [300/782] Time 0.044 (0.039) Data 0.012 (0.013) Loss 0.2762 (0.3003) Prec 85.938% (89.490%) Epoch: [61] [300/782] Time 0.044 (0.039) Data 0.012 (0.013) Loss 0.2925 (0.3090) Prec 89.662% (89.182%) Epoch: [61] [300/782] Time 0.044 (0.039) Data 0.012 (0.012) Loss 0.2925 (0.3090) Prec 89.662% (89.182%) Epoch: [61] [300/782] Time						
Discription Prec 90.625% (90.625%) Epoch: [60] [100/782] Time 0.044 (0.039) Data 0.019 (0.013) Loss 0.3065 (0.3121) Prec 90.625% (89.217%) Epoch: [60] [200/782] Time 0.044 (0.039) Data 0.012 (0.013) Loss 0.2144 (0.3141) Prec 93.750% (89.094%) Epoch: [60] [300/782] Time 0.044 (0.039) Data 0.012 (0.013) Loss 0.2084 (0.3096) Prec 95.312% (89.244%) Epoch: [60] [400/782] Time 0.039 (0.039) Data 0.012 (0.012) Loss 0.4092 (0.3098) Prec 84.375% (89.218%) Epoch: [60] [500/782] Time 0.039 (0.039) Data 0.012 (0.012) Loss 0.1741 (0.3162) Prec 95.312% (89.072%) Epoch: [60] [600/782] Time 0.045 (0.039) Data 0.012 (0.012) Loss 0.2664 (0.3154) Prec 87.500% (89.127%) Epoch: [60] [700/782] Time 0.045 (0.039) Data 0.012 (0.012) Loss 0.2144 (0.3158) Prec 92.188% (89.096%) Prec 92.188% (89.096%) Epoch: [60] [700/782] Time 0.040 (0.039) Data 0.012 (0.012) Loss 0.2144 (0.3158) Prec 92.188% (89.096%) Epoch: [60] [700/782] Time 0.040 (0.039) Data 0.012 (0.012) Loss 0.2144 (0.3158) Prec 92.188% (89.096%) Epoch: [60] [700/782] Time 0.040 (0.039) Data 0.012 (0.012) Loss 0.2166 (0.0378) Epoch: [60] [700/782] Time 0.038 (0.038) Data 0.012 (0.021) Loss 0.1673 (0.1573) Prec 95.312% (95.312%) Epoch: [61] [100/782] Time 0.045 (0.039) Data 0.012 (0.013) Loss 0.3781 (0.3050) Prec 90.625% (89.465%) Epoch: [61] [200/782] Time 0.038 (0.039) Data 0.012 (0.013) Loss 0.2762 (0.3003) Prec 95.625% (89.465%) Epoch: [61] [300/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2762 (0.3003) Prec 85.938% (89.490%) Epoch: [61] [300/782] Time 0.044 (0.039) Data 0.012 (0.013) Loss 0.2762 (0.3003) Prec 85.938% (89.490%) Epoch: [61] [300/782] Time 0.044 (0.039) Data 0.012 (0.013) Loss 0.2925 (0.3090) Prec 89.662% (89.182%) Epoch: [61] [300/782] Time 0.044 (0.039) Data 0.012 (0.012) Loss 0.2925 (0.3090) Prec 89.662% (89.182%) Epoch: [61] [300/782] Time	Epoch: [60][0/782] Time 0.032 (0.032)	Data 0.017 (0.017) Loss				
0.3065 (0.3121)	-					
0.3065 (0.3121)	Epoch: [60][100/782] Time 0.044 (0.039)	Data 0.019 (0.013) Loss				
0.2144 (0.3141) Prec 93.750% (89.094%) Epoch: [60][300/782] Time 0.044 (0.039) Data 0.012 (0.013) Loss 0.2084 (0.3096) Prec 95.312% (89.244%) Epoch: [60][400/782] Time 0.039 (0.039) Data 0.012 (0.012) Loss 0.4092 (0.3098) Prec 84.375% (89.218%) Epoch: [60][500/782] Time 0.039 (0.039) Data 0.012 (0.012) Loss 0.1741 (0.3162) Prec 95.312% (89.072%) Epoch: [60][600/782] Time 0.045 (0.039) Data 0.012 (0.012) Loss 0.2664 (0.3154) Prec 87.500% (89.127%) Epoch: [60][700/782] Time 0.040 (0.039) Data 0.012 (0.012) Loss 0.2144 (0.3158) Prec 92.188% (89.096%) Validation starts Test: [0/157] Time 0.024 (0.024) Loss 0.5267 (0.5267) Prec 84.375% (84.375%) Test: [100/157] Time 0.019 (0.019) Loss 0.4327 (0.4629) Prec 82.812% (85.087%) * Prec 85.150% best acc: 86.010000 Epoch: [61][0/782] Time 0.038 (0.038) Data 0.021 (0.021) Loss 0.1573 (0.1573) Prec 95.312% (95.312%) Epoch: [61][100/782] Time 0.038 (0.038) Data 0.012 (0.013) Loss 0.3781 (0.3050) Prec 90.625% (89.465%) Epoch: [61][200/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2762 (0.3003) Prec 85.938% (89.490%) Epoch: [61][300/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2762 (0.3003) Prec 85.938% (89.490%) Epoch: [61][300/782] Time 0.044 (0.039) Data 0.012 (0.012) Loss 0.2925 (0.3090) Prec 89.062% (89.182%)	-					
Epoch: [60][300/782] Time 0.044 (0.039) Data 0.012 (0.013) Loss 0.2084 (0.3096) Prec 95.312% (89.244%)	Epoch: [60][200/782] Time 0.044 (0.039)	Data 0.012 (0.013) Loss				
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Epoch: [60] [500/782]	Epoch: [60][400/782] Time 0.039 (0.039)	Data 0.012 (0.012) Loss				
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Validation starts Test: [0/157]	Epoch: [60][700/782] Time 0.040 (0.039)	Data 0.012 (0.012) Loss				
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Test: [100/157] Time 0.019 (0.019) Loss 0.4327 (0.4629) Prec 82.812% (85.087%) * Prec 85.150% best acc: 86.010000 Epoch: [61] [0/782] Time 0.038 (0.038) Data 0.021 (0.021) Loss 0.1573 (0.1573) Prec 95.312% (95.312%) Epoch: [61] [100/782] Time 0.045 (0.039) Data 0.012 (0.013) Loss 0.3781 (0.3050) Prec 90.625% (89.465%) Epoch: [61] [200/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2762 (0.3003) Prec 85.938% (89.490%) Epoch: [61] [300/782] Time 0.044 (0.039) Data 0.012 (0.012) Loss 0.2925 (0.3090) Prec 89.062% (89.182%)	Validation starts					
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(85.087%) * Prec 85.150% best acc: 86.010000 Epoch: [61] [0/782] Time 0.038 (0.038) Data 0.021 (0.021) Loss 0.1573 (0.1573) Prec 95.312% (95.312%) Epoch: [61] [100/782] Time 0.045 (0.039) Data 0.012 (0.013) Loss 0.3781 (0.3050) Prec 90.625% (89.465%) Epoch: [61] [200/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2762 (0.3003) Prec 85.938% (89.490%) Epoch: [61] [300/782] Time 0.044 (0.039) Data 0.012 (0.012) Loss 0.2925 (0.3090) Prec 89.062% (89.182%)	(84.375%)					
* Prec 85.150% best acc: 86.010000 Epoch: [61] [0/782] Time 0.038 (0.038) Data 0.021 (0.021) Loss 0.1573 (0.1573) Prec 95.312% (95.312%) Epoch: [61] [100/782] Time 0.045 (0.039) Data 0.012 (0.013) Loss 0.3781 (0.3050) Prec 90.625% (89.465%) Epoch: [61] [200/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2762 (0.3003) Prec 85.938% (89.490%) Epoch: [61] [300/782] Time 0.044 (0.039) Data 0.012 (0.012) Loss 0.2925 (0.3090) Prec 89.062% (89.182%)	Test: [100/157] Time 0.019 (0.019) Loss	0.4327 (0.4629) Prec 82.812%				
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0.1573 (0.1573) Prec 95.312% (95.312%) Epoch: [61] [100/782] Time 0.045 (0.039) Data 0.012 (0.013) Loss 0.3781 (0.3050) Prec 90.625% (89.465%) Epoch: [61] [200/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2762 (0.3003) Prec 85.938% (89.490%) Epoch: [61] [300/782] Time 0.044 (0.039) Data 0.012 (0.012) Loss 0.2925 (0.3090) Prec 89.062% (89.182%)						
Epoch: [61][100/782] Time 0.045 (0.039) Data 0.012 (0.013) Loss 0.3781 (0.3050) Prec 90.625% (89.465%) Epoch: [61][200/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2762 (0.3003) Prec 85.938% (89.490%) Epoch: [61][300/782] Time 0.044 (0.039) Data 0.012 (0.012) Loss 0.2925 (0.3090) Prec 89.062% (89.182%)	-	Data 0.021 (0.021) Loss				
0.3781 (0.3050) Prec 90.625% (89.465%) Epoch: [61] [200/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2762 (0.3003) Prec 85.938% (89.490%) Epoch: [61] [300/782] Time 0.044 (0.039) Data 0.012 (0.012) Loss 0.2925 (0.3090) Prec 89.062% (89.182%)						
Epoch: [61][200/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2762 (0.3003) Prec 85.938% (89.490%) Epoch: [61][300/782] Time 0.044 (0.039) Data 0.012 (0.012) Loss 0.2925 (0.3090) Prec 89.062% (89.182%)	1	Data 0.012 (0.013) Loss				
0.2762 (0.3003) Prec 85.938% (89.490%) Epoch: [61][300/782] Time 0.044 (0.039) Data 0.012 (0.012) Loss 0.2925 (0.3090) Prec 89.062% (89.182%)	0.3781 (0.3050) Prec 90.625% (89.465%)					
Epoch: [61][300/782] Time 0.044 (0.039) Data 0.012 (0.012) Loss 0.2925 (0.3090) Prec 89.062% (89.182%)	-					
0.2925 (0.3090) Prec 89.062% (89.182%)						
	•					
Epoch: [61][400/782] Time 0.034 (0.039) Data 0.012 (0.012) Loss						
	Epoch: [61][400/782] Time 0.034 (0.039)	Data 0.012 (0.012) Loss				

0.2222 (0.3098) Prec 90.625% (89.265%)	
Epoch: [61] [500/782] Time 0.044 (0.039)	Data 0.012 (0.012) Loss
0.2731 (0.3131) Prec 92.188% (89.125%)	2000 0.012 (0.012) 2000
Epoch: [61][600/782] Time 0.035 (0.039)	Data 0.012 (0.012) Loss
0.3145 (0.3128) Prec 87.500% (89.122%)	
Epoch: [61] [700/782] Time 0.041 (0.039)	Data 0.012 (0.012) Loss
0.1937 (0.3155) Prec 92.188% (89.036%)	
Validation starts	
Test: [0/157] Time 0.024 (0.024) Lo	ss 0.3999 (0.3999) Prec 84.375%
(84.375%)	,
Test: [100/157] Time 0.019 (0.019) Lo	ss 0.5262 (0.4303) Prec 78.125%
(86.293%)	
* Prec 85.750%	
best acc: 86.010000	
Epoch: [62][0/782] Time 0.029 (0.029)	Data 0.014 (0.014) Loss
0.1949 (0.1949) Prec 92.188% (92.188%)	(1)
Epoch: [62][100/782] Time 0.034 (0.039)	Data 0.012 (0.012) Loss
0.3738 (0.2949) Prec 81.250% (89.851%)	,
Epoch: [62][200/782] Time 0.035 (0.039)	Data 0.012 (0.012) Loss
0.3021 (0.3024) Prec 92.188% (89.335%)	,
Epoch: [62][300/782] Time 0.039 (0.039)	Data 0.012 (0.012) Loss
0.4438 (0.3098) Prec 85.938% (89.291%)	•
Epoch: [62] [400/782] Time 0.034 (0.039)	Data 0.012 (0.012) Loss
0.4584 (0.3071) Prec 81.250% (89.394%)	
Epoch: [62][500/782] Time 0.044 (0.039)	Data 0.012 (0.012) Loss
0.3425 (0.3120) Prec 89.062% (89.234%)	
Epoch: [62][600/782] Time 0.043 (0.039)	Data 0.012 (0.012) Loss
0.3295 (0.3166) Prec 85.938% (89.086%)	
Epoch: [62][700/782] Time 0.043 (0.039)	Data 0.013 (0.012) Loss
0.2173 (0.3150) Prec 92.188% (89.125%)	
Validation starts	
Test: [0/157] Time 0.023 (0.023) Lo	ss 0.5290 (0.5290) Prec 82.812%
(82.812%)	
Test: [100/157] Time 0.018 (0.018) Lo	ss 0.4323 (0.4790) Prec 84.375%
(84.653%)	
* Prec 84.530%	
best acc: 86.010000	
Epoch: [63][0/782] Time 0.032 (0.032)	Data 0.017 (0.017) Loss
0.4764 (0.4764) Prec 84.375% (84.375%)	
Epoch: [63][100/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.2441 (0.3164) Prec 89.062% (89.001%)	
Epoch: [63][200/782] Time 0.044 (0.039)	Data 0.012 (0.012) Loss
0.3412 (0.3149) Prec 87.500% (89.070%)	
Epoch: [63][300/782] Time 0.044 (0.039)	Data 0.013 (0.013) Loss
0.2454 (0.3154) Prec 89.062% (89.130%)	
Epoch: [63][400/782] Time 0.040 (0.039)	Data 0.012 (0.013) Loss
0.1472 (0.3182) Prec 95.312% (88.981%)	
Epoch: [63][500/782] Time 0.041 (0.039)	Data 0.012 (0.013) Loss

0.3263 (0.3196) Prec 87.500% (88.895%) Validation starts Test: [0/157] Time 0.024 (0.024) Loss 0.4621 (0.4621) Prec 82.812% (82.812%) Test: [100/157] Time 0.018 (0.018) Loss 0.576 (0.4398) Prec 82.812% (85.92%) **Prec 85.750%** best acc: 86.010000 Epoch: [64] [00/782] Time 0.035 (0.035) Data 0.019 (0.019) Loss 0.2589 (0.2589) Prec 90.625% (90.625%) Epoch: [64] [100/782] Time 0.034 (0.039) Data 0.012 (0.013) Loss 0.7769 (0.3060) Prec 76.562% (89.619%) Epoch: [64] [200/782] Time 0.034 (0.039) Data 0.012 (0.013) Loss 0.4165 (0.2931) Prec 90.625% (90.050%) Epoch: [64] [200/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3240 (0.300) Prec 93.750% (89.628%) Epoch: [64] [400/782] Time 0.034 (0.039) Data 0.012 (0.013) Loss 0.3240 (0.3064) Prec 85.938% (89.433%) Epoch: [64] [500/782] Time 0.044 (0.039) Data 0.012 (0.013) Loss 0.1713 (0.3064) Prec 85.938% (89.433%) Epoch: [64] [600/782] Time 0.044 (0.039) Data 0.012 (0.013) Loss 0.2713 (0.3064) Prec 96.875% (89.315%) Epoch: [64] [600/782] Time 0.043 (0.039) Data 0.012 (0.013) Loss 0.2713 (0.3068) Prec 92.188% (89.3830%) Epoch: [64] [700/782] Time 0.043 (0.039) Data 0.012 (0.013) Loss 0.2713 (0.3068) Prec 92.188% (89.385%) Epoch: [64] [700/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2713 (0.3068) Prec 92.188% (89.352%) Epoch: [65] [100/782] Time 0.020 (0.020) Loss 0.4900 (0.4900) Prec 79.688% (79.688%) Epoch: [65] [100/782] Time 0.029 (0.029) Data 0.012 (0.013) Loss 0.2626 (0.2082) Prec 92.188% (92.188%) Epoch: [65] [100/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2552 (0.2989) Prec 87.500% (89.604%) Epoch: [65] [100/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2553 (0.2941) Prec 92.188% (89.863%) Epoch: [65] [100/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2553 (0.2941) Prec 92.188% (89.863%) Epoch: [65] [100/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2553 (0.2941) Prec 92.188% (89.863%) Epoch: [65] [400/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2556 (0.2941) Prec 92.188% (89.863%)	0.0050 (0.0440)		/>				
O.4409				ъ.	0 010	(0.040)	-
Epoch: [63] [700/782]	_			Data	0.012	(0.013)	Loss
0.3263 (0.3196)				D-+-	0 010	(0 012)	T
Validation start Test: [0/157]	-			Data	0.012	(0.013)	LOSS
Test: [0/157] Time 0.024 (0.024) Loss 0.4621 (0.4621) Prec 82.812% (82.812%) Test: [100/157] Time 0.018 (0.018) Loss 0.5376 (0.4398) Prec 82.812% (85.922%) * Prec 85.750% best acc: 86.010000 Epoch: [64] [0/782] Time 0.035 (0.035) Data 0.019 (0.019) Loss 0.2589 (0.2589) Prec 90.625% (90.625%) Epoch: [64] [100/782] Time 0.034 (0.039) Data 0.012 (0.013) Loss 0.769 (0.3060) Prec 76.562% (89.619%) Epoch: [64] [200/782] Time 0.034 (0.039) Data 0.012 (0.013) Loss 0.4165 (0.2931) Prec 90.625% (90.050%) Epoch: [64] [300/782] Time 0.034 (0.039) Data 0.012 (0.013) Loss 0.1361 (0.3030) Prec 93.750% (89.628%) Epoch: [64] [400/782] Time 0.044 (0.039) Data 0.012 (0.013) Loss 0.1361 (0.3030) Prec 93.750% (89.628%) Epoch: [64] [400/782] Time 0.044 (0.039) Data 0.012 (0.013) Loss 0.1722 (0.3091) Prec 96.875% (89.315%) Epoch: [64] [600/782] Time 0.044 (0.039) Data 0.012 (0.013) Loss 0.1722 (0.3091) Prec 96.875% (89.315%) Epoch: [64] [600/782] Time 0.043 (0.039) Data 0.012 (0.013) Loss 0.2713 (0.3068) Prec 92.188% (89.380%) Epoch: [64] [700/782] Time 0.043 (0.039) Data 0.012 (0.013) Loss 0.2542 (0.3118) Prec 90.625% (89.252%) Epoch: [64] [700/782] Time 0.043 (0.039) Data 0.012 (0.013) Loss 0.2542 (0.3118) Prec 90.625% (89.252%) Epoch: [65] [100/782] Time 0.020 (0.020) Loss 0.4900 (0.4900) Prec 79.688% (79.688%) Epoch: [65] [100/782] Time 0.039 (0.039) Data 0.014 (0.014) Loss 0.2682 (0.2082) Prec 92.188% (92.188%) Epoch: [65] [100/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3552 (0.2989) Prec 87.500% (89.60%) Epoch: [65] [100/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3552 (0.2989) Prec 87.500% (89.60%) Epoch: [65] [100/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3564 (0.2989) Prec 87.500% (89.60%) Epoch: [65] [100/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3564 (0.2989) Prec 87.500% (89.60%) Epoch: [65] [100/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3564 (0.2989) Prec 87.500% (89.80%) Epoch: [65] [100/782] Time 0.039 (0.399) Data 0.012 (0.013) Loss 0.3566 (0.3031) Prec 92.188%		01.500% (00.095)	6)				
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Test: [100/157] Time 0.018 (0.018)		0.024)	LOSS	0.4021	(0.4621	.) Prec	02.012%
Respect Resp		110 (0 010)	Togg	0 5276	(0 4200) Proc	00 010%
# Prec 85.750% best acc: 86.010000 Epoch: [64][0/782]		010 (0.010)	LUSS	0.5576	(0.4390) Fiec	02.012/
Best acc: 86.010000 Epoch: [64] [0/782]							
Epoch: [64] [0/782]							
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Validation starts Test: [0/157] Time 0.020 (0.020) Loss 0.4900 (0.4900) Prec 79.688% (79.688%) Test: [100/157] Time 0.019 (0.019) Loss 0.7403 (0.4717) Prec 78.125% (84.978%) * Prec 84.910% best acc: 86.010000 Epoch: [65] [0/782] Time 0.029 (0.029) Data 0.014 (0.014) Loss 0.2082 (0.2082) Prec 92.188% (92.188%) Epoch: [65] [100/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3552 (0.2989) Prec 87.500% (89.604%) Epoch: [65] [200/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2553 (0.2941) Prec 92.188% (89.863%) Epoch: [65] [300/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3546 (0.3031) Prec 89.062% (89.488%) Epoch: [65] [400/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3546 (0.3031) Prec 89.062% (89.488%) Epoch: [65] [400/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2203 (0.3029) Prec 93.750% (89.429%)	_			Dava	0.012	(0.010)	довь
Test: [0/157] Time 0.020 (0.020) Loss 0.4900 (0.4900) Prec 79.688% (79.688%) Test: [100/157] Time 0.019 (0.019) Loss 0.7403 (0.4717) Prec 78.125% (84.978%) * Prec 84.910% best acc: 86.010000 Epoch: [65] [0/782] Time 0.029 (0.029) Data 0.014 (0.014) Loss 0.2082 (0.2082) Prec 92.188% (92.188%) Epoch: [65] [100/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3552 (0.2989) Prec 87.500% (89.604%) Epoch: [65] [200/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2553 (0.2941) Prec 92.188% (89.863%) Epoch: [65] [300/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3546 (0.3031) Prec 89.062% (89.488%) Epoch: [65] [400/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3546 (0.3031) Prec 89.062% (89.488%) Epoch: [65] [400/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2203 (0.3029) Prec 93.750% (89.429%)		00.020% (00.202)	07				
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Test: [100/157] Time 0.019 (0.019) Loss 0.7403 (0.4717) Prec 78.125% (84.978%) * Prec 84.910% best acc: 86.010000 Epoch: [65] [0/782] Time 0.029 (0.029) Data 0.014 (0.014) Loss 0.2082 (0.2082) Prec 92.188% (92.188%) Epoch: [65] [100/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3552 (0.2989) Prec 87.500% (89.604%) Epoch: [65] [200/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2553 (0.2941) Prec 92.188% (89.863%) Epoch: [65] [300/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3546 (0.3031) Prec 89.062% (89.488%) Epoch: [65] [400/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3546 (0.3031) Prec 89.062% (89.488%) Epoch: [65] [400/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2203 (0.3029) Prec 93.750% (89.429%)		020 (0.020)	2000	0.1000	(0.1000	,, 1100	10.00070
(84.978%) * Prec 84.910% best acc: 86.010000 Epoch: [65][0/782] Time 0.029 (0.029) Data 0.014 (0.014) Loss 0.2082 (0.2082) Prec 92.188% (92.188%) Epoch: [65][100/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3552 (0.2989) Prec 87.500% (89.604%) Epoch: [65][200/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2553 (0.2941) Prec 92.188% (89.863%) Epoch: [65][300/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3546 (0.3031) Prec 89.062% (89.488%) Epoch: [65][400/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2203 (0.3029) Prec 93.750% (89.429%)		019 (0.019)	Loss	0.7403	(0.4717	') Prec	78.125%
* Prec 84.910% best acc: 86.010000 Epoch: [65] [0/782] Time 0.029 (0.029) Data 0.014 (0.014) Loss 0.2082 (0.2082) Prec 92.188% (92.188%) Epoch: [65] [100/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3552 (0.2989) Prec 87.500% (89.604%) Epoch: [65] [200/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2553 (0.2941) Prec 92.188% (89.863%) Epoch: [65] [300/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3546 (0.3031) Prec 89.062% (89.488%) Epoch: [65] [400/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2203 (0.3029) Prec 93.750% (89.429%)		(0.020)			(0 1 2 1 2 1	, 1100	
<pre>best acc: 86.010000 Epoch: [65] [0/782]</pre>							
Epoch: [65] [0/782] Time 0.029 (0.029) Data 0.014 (0.014) Loss 0.2082 (0.2082) Prec 92.188% (92.188%) Epoch: [65] [100/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3552 (0.2989) Prec 87.500% (89.604%) Epoch: [65] [200/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2553 (0.2941) Prec 92.188% (89.863%) Epoch: [65] [300/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3546 (0.3031) Prec 89.062% (89.488%) Epoch: [65] [400/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2203 (0.3029) Prec 93.750% (89.429%)							
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Epoch: [65] [100/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3552 (0.2989) Prec 87.500% (89.604%) Epoch: [65] [200/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2553 (0.2941) Prec 92.188% (89.863%) Epoch: [65] [300/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3546 (0.3031) Prec 89.062% (89.488%) Epoch: [65] [400/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2203 (0.3029) Prec 93.750% (89.429%)	_					(/	
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Epoch: [65] [200/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2553 (0.2941) Prec 92.188% (89.863%) Epoch: [65] [300/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3546 (0.3031) Prec 89.062% (89.488%) Epoch: [65] [400/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2203 (0.3029) Prec 93.750% (89.429%)	•					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
0.2553 (0.2941) Prec 92.188% (89.863%) Epoch: [65] [300/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3546 (0.3031) Prec 89.062% (89.488%) Epoch: [65] [400/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2203 (0.3029) Prec 93.750% (89.429%)				Data	0.012	(0.013)	Loss
Epoch: [65][300/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.3546 (0.3031) Prec 89.062% (89.488%) Epoch: [65][400/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2203 (0.3029) Prec 93.750% (89.429%)	-						
0.3546 (0.3031) Prec 89.062% (89.488%) Epoch: [65] [400/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2203 (0.3029) Prec 93.750% (89.429%)				Data	0.012	(0.013)	Loss
Epoch: [65] [400/782] Time 0.039 (0.039) Data 0.012 (0.013) Loss 0.2203 (0.3029) Prec 93.750% (89.429%)	-					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
0.2203 (0.3029) Prec 93.750% (89.429%)				Data	0.012	(0.013)	Loss
	-				- -	· · · ·	
Epoch: [65] [500/782] Time 0.039 (0.039) Data 0.013 (0.013) Loss	Epoch: [65] [500/782]	Time 0.039 (0.03		Data	0.013	(0.013)	Loss
0.3632 (0.3028) Prec 90.625% (89.468%)	-						
Epoch: [65][600/782] Time 0.039 (0.039) Data 0.013 (0.013) Loss	Epoch: [65][600/782]	Time 0.039 (0.03	39)	Data	0.013	(0.013)	Loss

0.2654 (0.3056) Prec 90.625% (89.317%) Epoch: [65] [700/782] Time 0.044 (0.039) 0.4121 (0.3060) Prec 84.375% (89.254%) Validation starts	Data 0.012 (0.013) Loss
Test: [0/157] Time 0.024 (0.024) Loss	0.6459 (0.6459) Prec 82.812%
(82.812%) Test: [100/157] Time 0.018 (0.018) Loss	0.6405 (0.5396) Prec 78.125%
(82.782%)	
* Prec 82.790%	
best acc: 86.010000	
Epoch: [66] [0/782] Time 0.034 (0.034)	Data 0.014 (0.014) Loss
0.2501 (0.2501) Prec 87.500% (87.500%)	
Epoch: [66] [100/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.2309 (0.2961) Prec 93.750% (89.465%)	
Epoch: [66] [200/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.3736 (0.2953) Prec 87.500% (89.708%)	D + 0.040 (0.040) I
Epoch: [66] [300/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.2185 (0.3015) Prec 92.188% (89.540%)	D-+- 0 010 (0 012)
Epoch: [66] [400/782] Time 0.039 (0.039) 0.2853 (0.3057) Prec 92.188% (89.507%)	Data 0.012 (0.013) Loss
Epoch: [66] [500/782] Time 0.035 (0.039)	Data 0.012 (0.013) Loss
0.4379 (0.3083) Prec 76.562% (89.390%)	Data 0.012 (0.013) LOSS
Epoch: [66] [600/782] Time 0.044 (0.039)	Data 0.012 (0.013) Loss
0.4261 (0.3061) Prec 87.500% (89.471%)	Data 0.012 (0.010) Loss
	Data 0.019 (0.013) Loss
0.3229 (0.3093) Prec 89.062% (89.401%)	Data 0:010 (0:010) HODD
Validation starts	0.4868 (0.4868) Prec 89.062%
Validation starts Test: [0/157] Time 0.024 (0.024) Loss	0.4868 (0.4868) Prec 89.062%
Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%)	
Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.018) Loss	
Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%)	
Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.018) Loss (85.783%)	
Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.018) Loss (85.783%) * Prec 85.610%	
Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.018) Loss (85.783%) * Prec 85.610% best acc: 86.010000	0.5857 (0.4474) Prec 76.562%
Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.018) Loss (85.783%) * Prec 85.610% best acc: 86.010000 Epoch: [67] [0/782] Time 0.034 (0.034)	0.5857 (0.4474) Prec 76.562%
Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.018) Loss (85.783%) * Prec 85.610% best acc: 86.010000 Epoch: [67] [0/782] Time 0.034 (0.034) 0.1313 (0.1313) Prec 95.312% (95.312%)	0.5857 (0.4474) Prec 76.562% Data 0.013 (0.013) Loss
Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.018) Loss (85.783%) * Prec 85.610% best acc: 86.010000 Epoch: [67] [0/782] Time 0.034 (0.034) 0.1313 (0.1313) Prec 95.312% (95.312%) Epoch: [67] [100/782] Time 0.039 (0.039)	0.5857 (0.4474) Prec 76.562% Data 0.013 (0.013) Loss
Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.018) Loss (85.783%) * Prec 85.610% best acc: 86.010000 Epoch: [67] [0/782] Time 0.034 (0.034) 0.1313 (0.1313) Prec 95.312% (95.312%) Epoch: [67] [100/782] Time 0.039 (0.039) 0.1289 (0.3007) Prec 93.750% (89.372%)	0.5857 (0.4474) Prec 76.562% Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss
Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.018) Loss (85.783%) * Prec 85.610% best acc: 86.010000 Epoch: [67] [0/782] Time 0.034 (0.034) 0.1313 (0.1313) Prec 95.312% (95.312%) Epoch: [67] [100/782] Time 0.039 (0.039) 0.1289 (0.3007) Prec 93.750% (89.372%) Epoch: [67] [200/782] Time 0.035 (0.039)	0.5857 (0.4474) Prec 76.562% Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss
Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.018) Loss (85.783%) * Prec 85.610% best acc: 86.010000 Epoch: [67] [0/782] Time 0.034 (0.034) 0.1313 (0.1313) Prec 95.312% (95.312%) Epoch: [67] [100/782] Time 0.039 (0.039) 0.1289 (0.3007) Prec 93.750% (89.372%) Epoch: [67] [200/782] Time 0.035 (0.039) 0.3046 (0.3141) Prec 92.188% (89.234%) Epoch: [67] [300/782] Time 0.038 (0.039) 0.3713 (0.3140) Prec 85.938% (89.120%)	0.5857 (0.4474) Prec 76.562% Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss
Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.018) Loss (85.783%) * Prec 85.610% best acc: 86.010000 Epoch: [67] [0/782] Time 0.034 (0.034) 0.1313 (0.1313) Prec 95.312% (95.312%) Epoch: [67] [100/782] Time 0.039 (0.039) 0.1289 (0.3007) Prec 93.750% (89.372%) Epoch: [67] [200/782] Time 0.035 (0.039) 0.3046 (0.3141) Prec 92.188% (89.234%) Epoch: [67] [300/782] Time 0.038 (0.039) 0.3713 (0.3140) Prec 85.938% (89.120%) Epoch: [67] [400/782] Time 0.034 (0.039)	0.5857 (0.4474) Prec 76.562% Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss
Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.018) Loss (85.783%) * Prec 85.610% best acc: 86.010000 Epoch: [67] [0/782] Time 0.034 (0.034) 0.1313 (0.1313) Prec 95.312% (95.312%) Epoch: [67] [100/782] Time 0.039 (0.039) 0.1289 (0.3007) Prec 93.750% (89.372%) Epoch: [67] [200/782] Time 0.035 (0.039) 0.3046 (0.3141) Prec 92.188% (89.234%) Epoch: [67] [300/782] Time 0.038 (0.039) 0.3713 (0.3140) Prec 85.938% (89.120%) Epoch: [67] [400/782] Time 0.034 (0.039) 0.2170 (0.3151) Prec 92.188% (89.074%)	Data 0.013 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss
<pre>Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.018) Loss (85.783%) * Prec 85.610% best acc: 86.010000 Epoch: [67] [0/782] Time 0.034 (0.034) 0.1313 (0.1313) Prec 95.312% (95.312%) Epoch: [67] [100/782] Time 0.039 (0.039) 0.1289 (0.3007)</pre>	0.5857 (0.4474) Prec 76.562% Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss Data 0.012 (0.013) Loss
Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.018) Loss (85.783%) * Prec 85.610% best acc: 86.010000 Epoch: [67] [0/782] Time 0.034 (0.034) 0.1313 (0.1313) Prec 95.312% (95.312%) Epoch: [67] [100/782] Time 0.039 (0.039) 0.1289 (0.3007) Prec 93.750% (89.372%) Epoch: [67] [200/782] Time 0.035 (0.039) 0.3046 (0.3141) Prec 92.188% (89.234%) Epoch: [67] [300/782] Time 0.038 (0.039) 0.3713 (0.3140) Prec 85.938% (89.120%) Epoch: [67] [400/782] Time 0.034 (0.039) 0.2170 (0.3151) Prec 92.188% (89.074%) Epoch: [67] [500/782] Time 0.038 (0.039) 0.2801 (0.3123) Prec 87.500% (89.218%)	Data 0.013 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.013 (0.013) Loss
<pre>Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.018) Loss (85.783%) * Prec 85.610% best acc: 86.010000 Epoch: [67] [0/782] Time 0.034 (0.034) 0.1313 (0.1313) Prec 95.312% (95.312%) Epoch: [67] [100/782] Time 0.039 (0.039) 0.1289 (0.3007)</pre>	Data 0.013 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss
Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.018) Loss (85.783%) * Prec 85.610% best acc: 86.010000 Epoch: [67] [0/782] Time 0.034 (0.034) 0.1313 (0.1313) Prec 95.312% (95.312%) Epoch: [67] [100/782] Time 0.039 (0.039) 0.1289 (0.3007) Prec 93.750% (89.372%) Epoch: [67] [200/782] Time 0.035 (0.039) 0.3046 (0.3141) Prec 92.188% (89.234%) Epoch: [67] [300/782] Time 0.038 (0.039) 0.3713 (0.3140) Prec 85.938% (89.120%) Epoch: [67] [400/782] Time 0.034 (0.039) 0.2170 (0.3151) Prec 92.188% (89.074%) Epoch: [67] [500/782] Time 0.038 (0.039) 0.2801 (0.3123) Prec 87.500% (89.218%)	Data 0.013 (0.013) Data 0.013 (0.013) Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.013 (0.013) Loss

0.3662 (0.3138) Prec 87.500% (89.256%)	
Validation starts	
Test: [0/157] Time 0.021 (0.021) Los	ss 0.4107 (0.4107) Prec 87.500%
(87.500%)	
	ss 0.6186 (0.4308) Prec 76.562%
(85.907%)	
* Prec 85.930%	
best acc: 86.010000	
Epoch: [68] [0/782] Time 0.041 (0.041)	Data 0.024 (0.024) Loss
0.2568 (0.2568) Prec 92.188% (92.188%)	
Epoch: [68] [100/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.2605 (0.2998) Prec 85.938% (89.202%)	D
Epoch: [68] [200/782] Time 0.035 (0.039)	Data 0.012 (0.013) Loss
0.1237 (0.3000) Prec 96.875% (89.420%)	7
Epoch: [68] [300/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.2747 (0.3076) Prec 89.062% (89.281%)	D-+- 0 010 (0 012)
Epoch: [68] [400/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.3176 (0.3114) Prec 87.500% (89.012%)	D-+- 0 011 (0 012) I
Epoch: [68] [500/782] Time 0.039 (0.039)	Data 0.011 (0.013) Loss
0.4037 (0.3086) Prec 87.500% (89.140%) Epoch: [68] [600/782] Time 0.039 (0.039)	Data 0.012 (0.012) Loss
Epoch: [68] [600/782] Time 0.039 (0.039) 0.4623 (0.3100) Prec 84.375% (89.159%)	Data 0.012 (0.012) Loss
Epoch: [68] [700/782] Time 0.039 (0.039)	Data 0.013 (0.012) Loss
0.1036 (0.3104) Prec 96.875% (89.116%)	Data 0.013 (0.012) LOSS
Validation starts	s 0 4426 (0 4426) Prec 82 8129
Validation starts Test: [0/157] Time 0.024 (0.024) Los	ss 0.4426 (0.4426) Prec 82.812%
Validation starts Test: [0/157] Time 0.024 (0.024) Los (82.812%)	
Validation starts Test: [0/157] Time 0.024 (0.024) Los (82.812%) Test: [100/157] Time 0.019 (0.019) Los	
Validation starts Test: [0/157] Time 0.024 (0.024) Los (82.812%) Test: [100/157] Time 0.019 (0.019) Los (85.334%)	
Validation starts Test: [0/157] Time 0.024 (0.024) Los (82.812%) Test: [100/157] Time 0.019 (0.019) Los	
Validation starts Test: [0/157] Time 0.024 (0.024) Los (82.812%) Test: [100/157] Time 0.019 (0.019) Los (85.334%) * Prec 85.380% best acc: 86.010000	ss 0.4820 (0.4536) Prec 79.688%
Validation starts Test: [0/157] Time 0.024 (0.024) Los (82.812%) Test: [100/157] Time 0.019 (0.019) Los (85.334%) * Prec 85.380% best acc: 86.010000 Epoch: [69] [0/782] Time 0.038 (0.038)	ss 0.4820 (0.4536) Prec 79.688%
Validation starts Test: [0/157] Time 0.024 (0.024) Los (82.812%) Test: [100/157] Time 0.019 (0.019) Los (85.334%) * Prec 85.380% best acc: 86.010000 Epoch: [69] [0/782] Time 0.038 (0.038) 0.1551 (0.1551) Prec 92.188% (92.188%)	ss 0.4820 (0.4536) Prec 79.688%
Validation starts Test: [0/157] Time 0.024 (0.024) Los (82.812%) Test: [100/157] Time 0.019 (0.019) Los (85.334%) * Prec 85.380% best acc: 86.010000 Epoch: [69] [0/782] Time 0.038 (0.038)	Data 0.018 (0.018) Prec 79.688%
Validation starts Test: [0/157] Time 0.024 (0.024) Los (82.812%) Test: [100/157] Time 0.019 (0.019) Los (85.334%) * Prec 85.380% best acc: 86.010000 Epoch: [69] [0/782] Time 0.038 (0.038) 0.1551 (0.1551) Prec 92.188% (92.188%) Epoch: [69] [100/782] Time 0.039 (0.039) 0.4411 (0.3148) Prec 82.812% (88.722%)	Data 0.018 (0.018) Prec 79.688%
Validation starts Test: [0/157] Time 0.024 (0.024) Los (82.812%) Test: [100/157] Time 0.019 (0.019) Los (85.334%) * Prec 85.380% best acc: 86.010000 Epoch: [69] [0/782] Time 0.038 (0.038) 0.1551 (0.1551) Prec 92.188% (92.188%) Epoch: [69] [100/782] Time 0.039 (0.039) 0.4411 (0.3148) Prec 82.812% (88.722%)	Data 0.012 (0.012) Loss
Validation starts Test: [0/157] Time 0.024 (0.024) Los (82.812%) Test: [100/157] Time 0.019 (0.019) Los (85.334%) * Prec 85.380% best acc: 86.010000 Epoch: [69] [0/782] Time 0.038 (0.038) 0.1551 (0.1551) Prec 92.188% (92.188%) Epoch: [69] [100/782] Time 0.039 (0.039) 0.4411 (0.3148) Prec 82.812% (88.722%) Epoch: [69] [200/782] Time 0.039 (0.039)	Data 0.012 (0.012) Loss
Validation starts Test: [0/157] Time 0.024 (0.024) Los (82.812%) Test: [100/157] Time 0.019 (0.019) Los (85.334%) * Prec 85.380% best acc: 86.010000 Epoch: [69] [0/782] Time 0.038 (0.038) 0.1551 (0.1551) Prec 92.188% (92.188%) Epoch: [69] [100/782] Time 0.039 (0.039) 0.4411 (0.3148) Prec 82.812% (88.722%) Epoch: [69] [200/782] Time 0.039 (0.039) 0.2168 (0.3096) Prec 93.750% (89.024%)	Data 0.012 (0.012) Data 0.012 (0.012) Data 0.012 (0.012) Data 0.012 (0.012)
Validation starts Test: [0/157] Time 0.024 (0.024) Los (82.812%) Test: [100/157] Time 0.019 (0.019) Los (85.334%) * Prec 85.380% best acc: 86.010000 Epoch: [69] [0/782] Time 0.038 (0.038) 0.1551 (0.1551) Prec 92.188% (92.188%) Epoch: [69] [100/782] Time 0.039 (0.039) 0.4411 (0.3148) Prec 82.812% (88.722%) Epoch: [69] [200/782] Time 0.039 (0.039) 0.2168 (0.3096) Prec 93.750% (89.024%) Epoch: [69] [300/782] Time 0.039 (0.039)	Data 0.012 (0.012) Data 0.012 (0.012) Data 0.012 (0.012) Data 0.012 (0.012)
Validation starts Test: [0/157] Time 0.024 (0.024) Los (82.812%) Test: [100/157] Time 0.019 (0.019) Los (85.334%) * Prec 85.380% best acc: 86.010000 Epoch: [69] [0/782] Time 0.038 (0.038) 0.1551 (0.1551) Prec 92.188% (92.188%) Epoch: [69] [100/782] Time 0.039 (0.039) 0.4411 (0.3148) Prec 82.812% (88.722%) Epoch: [69] [200/782] Time 0.039 (0.039) 0.2168 (0.3096) Prec 93.750% (89.024%) Epoch: [69] [300/782] Time 0.039 (0.039) 0.3260 (0.3139) Prec 85.938% (88.943%)	Data 0.018 (0.018) Loss Data 0.012 (0.012) Loss Data 0.012 (0.012) Loss Data 0.014 (0.012) Loss
Validation starts Test: [0/157] Time 0.024 (0.024) Los (82.812%) Test: [100/157] Time 0.019 (0.019) Los (85.334%) * Prec 85.380% best acc: 86.010000 Epoch: [69] [0/782] Time 0.038 (0.038) 0.1551 (0.1551) Prec 92.188% (92.188%) Epoch: [69] [100/782] Time 0.039 (0.039) 0.4411 (0.3148) Prec 82.812% (88.722%) Epoch: [69] [200/782] Time 0.039 (0.039) 0.2168 (0.3096) Prec 93.750% (89.024%) Epoch: [69] [300/782] Time 0.039 (0.039) 0.3260 (0.3139) Prec 85.938% (88.943%) Epoch: [69] [400/782] Time 0.040 (0.039)	Data 0.018 (0.018) Loss Data 0.012 (0.012) Loss Data 0.012 (0.012) Loss Data 0.014 (0.012) Loss
Validation starts Test: [0/157] Time 0.024 (0.024) Los (82.812%) Test: [100/157] Time 0.019 (0.019) Los (85.334%) * Prec 85.380% best acc: 86.010000 Epoch: [69] [0/782] Time 0.038 (0.038) 0.1551 (0.1551) Prec 92.188% (92.188%) Epoch: [69] [100/782] Time 0.039 (0.039) 0.4411 (0.3148) Prec 82.812% (88.722%) Epoch: [69] [200/782] Time 0.039 (0.039) 0.2168 (0.3096) Prec 93.750% (89.024%) Epoch: [69] [300/782] Time 0.039 (0.039) 0.3260 (0.3139) Prec 85.938% (88.943%) Epoch: [69] [400/782] Time 0.040 (0.039) 0.2384 (0.3112) Prec 92.188% (89.156%)	Data 0.018 (0.018) Data 0.012 (0.012) Data 0.012 (0.012) Data 0.014 (0.012) Data 0.012 (0.012) Loss Data 0.014 (0.012) Loss Data 0.012 (0.012) Loss
Validation starts Test: [0/157] Time 0.024 (0.024) Los (82.812%) Test: [100/157] Time 0.019 (0.019) Los (85.334%) * Prec 85.380% best acc: 86.010000 Epoch: [69] [0/782] Time 0.038 (0.038) 0.1551 (0.1551) Prec 92.188% (92.188%) Epoch: [69] [100/782] Time 0.039 (0.039) 0.4411 (0.3148) Prec 82.812% (88.722%) Epoch: [69] [200/782] Time 0.039 (0.039) 0.2168 (0.3096) Prec 93.750% (89.024%) Epoch: [69] [300/782] Time 0.039 (0.039) 0.3260 (0.3139) Prec 85.938% (88.943%) Epoch: [69] [400/782] Time 0.040 (0.039) 0.2384 (0.3112) Prec 92.188% (89.156%) Epoch: [69] [500/782] Time 0.034 (0.039) 0.2591 (0.3098) Prec 93.750% (89.147%) Epoch: [69] [600/782] Time 0.038 (0.039)	Data 0.018 (0.018) Data 0.012 (0.012) Data 0.012 (0.012) Data 0.014 (0.012) Data 0.012 (0.012) Loss Data 0.014 (0.012) Loss Data 0.012 (0.012) Loss
<pre>Validation starts Test: [0/157] Time 0.024 (0.024) Los (82.812%) Test: [100/157] Time 0.019 (0.019) Los (85.334%) * Prec 85.380% best acc: 86.010000 Epoch: [69] [0/782] Time 0.038 (0.038) 0.1551 (0.1551) Prec 92.188% (92.188%) Epoch: [69] [100/782] Time 0.039 (0.039) 0.4411 (0.3148) Prec 82.812% (88.722%) Epoch: [69] [200/782] Time 0.039 (0.039) 0.2168 (0.3096) Prec 93.750% (89.024%) Epoch: [69] [300/782] Time 0.039 (0.039) 0.3260 (0.3139) Prec 85.938% (88.943%) Epoch: [69] [400/782] Time 0.040 (0.039) 0.2384 (0.3112) Prec 92.188% (89.156%) Epoch: [69] [500/782] Time 0.034 (0.039) 0.2591 (0.3098) Prec 93.750% (89.147%) Epoch: [69] [600/782] Time 0.038 (0.039) 0.3118 (0.3092) Prec 89.062% (89.151%)</pre>	Data 0.018 (0.018) Data 0.018 (0.018) Data 0.012 (0.012) Data 0.012 (0.012) Loss Data 0.014 (0.012) Data 0.012 (0.012) Loss Data 0.012 (0.012) Loss Data 0.012 (0.012) Loss
<pre>Validation starts Test: [0/157] Time 0.024 (0.024) Los (82.812%) Test: [100/157] Time 0.019 (0.019) Los (85.334%) * Prec 85.380% best acc: 86.010000 Epoch: [69] [0/782] Time 0.038 (0.038) 0.1551 (0.1551) Prec 92.188% (92.188%) Epoch: [69] [100/782] Time 0.039 (0.039) 0.4411 (0.3148) Prec 82.812% (88.722%) Epoch: [69] [200/782] Time 0.039 (0.039) 0.2168 (0.3096) Prec 93.750% (89.024%) Epoch: [69] [300/782] Time 0.039 (0.039) 0.3260 (0.3139) Prec 85.938% (88.943%) Epoch: [69] [400/782] Time 0.040 (0.039) 0.2384 (0.3112) Prec 92.188% (89.156%) Epoch: [69] [500/782] Time 0.034 (0.039) 0.2591 (0.3098) Prec 93.750% (89.147%) Epoch: [69] [600/782] Time 0.038 (0.039) 0.3118 (0.3092) Prec 89.062% (89.151%) Epoch: [69] [700/782] Time 0.034 (0.039)</pre>	Data 0.018 (0.018) Data 0.018 (0.018) Data 0.012 (0.012) Data 0.012 (0.012) Loss Data 0.014 (0.012) Data 0.012 (0.012) Loss Data 0.012 (0.012) Loss Data 0.012 (0.012) Loss
<pre>Validation starts Test: [0/157] Time 0.024 (0.024) Los (82.812%) Test: [100/157] Time 0.019 (0.019) Los (85.334%) * Prec 85.380% best acc: 86.010000 Epoch: [69] [0/782] Time 0.038 (0.038) 0.1551 (0.1551) Prec 92.188% (92.188%) Epoch: [69] [100/782] Time 0.039 (0.039) 0.4411 (0.3148) Prec 82.812% (88.722%) Epoch: [69] [200/782] Time 0.039 (0.039) 0.2168 (0.3096) Prec 93.750% (89.024%) Epoch: [69] [300/782] Time 0.039 (0.039) 0.3260 (0.3139) Prec 85.938% (88.943%) Epoch: [69] [400/782] Time 0.040 (0.039) 0.2384 (0.3112) Prec 92.188% (89.156%) Epoch: [69] [500/782] Time 0.034 (0.039) 0.2591 (0.3098) Prec 93.750% (89.147%) Epoch: [69] [600/782] Time 0.038 (0.039) 0.3118 (0.3092) Prec 89.062% (89.151%)</pre>	Data 0.018 (0.018) Data 0.018 (0.018) Data 0.012 (0.012) Data 0.012 (0.012) Data 0.014 (0.012) Data 0.012 (0.012) Data 0.012 (0.012) Data 0.012 (0.012) Loss Data 0.012 (0.012) Loss Data 0.012 (0.012) Loss Data 0.012 (0.012) Loss

Test: [0/157] Time 0.023 (87.500%)	(0.023) Loss	0.4193	(0.4193) Prec	87.500%
Test: [100/157] Time 0.018 (85.984%)	(0.018) Loss	0.5620	(0.4368	Prec	79.688%
* Prec 85.760%					
best acc: 86.010000					
Epoch: [70] [0/782] Tim	ne 0.039 (0.039)	Data	0.019	(0.019)	Loss
0.2855 (0.2855) Prec 89.					
Epoch: [70] [100/782] Tim		Data	0.012	(0.012)	Loss
0.3857 (0.3149) Prec 84.					
Epoch: [70] [200/782] Tim		Data	0.012	(0.012)	Loss
0.3431 (0.3080) Prec 87.					
Epoch: [70][300/782] Tim		Data	0.012	(0.012)	Loss
0.2378 (0.3056) Prec 90.					
Epoch: [70] [400/782] Tim		Data	0.012	(0.012)	Loss
0.2410 (0.3040) Prec 90.					
Epoch: [70] [500/782] Tim		Data	0.012	(0.012)	Loss
0.5587 (0.3037) Prec 84.					
	ne 0.039 (0.039)	Data	0.012	(0.012)	Loss
0.1555 (0.3073) Prec 95.					
Epoch: [70] [700/782] Tim		Data	0.012	(0.012)	Loss
0.3122 (0.3092) Prec 92.					
Validation starts					
Test: [0/157] Time 0.022	(0.022) Loss	0.4693	(0.4693) Prec	85.938%
(85.938%)					
(85.938%) Test: [100/157] Time 0.018	(0.018) Loss			i) Prec	79.688%
	(0.018) Loss) Prec	79.688%
Test: [100/157] Time 0.018	(0.018) Loss) Prec	79.688%
Test: [100/157] Time 0.018 (84.592%)	(0.018) Loss) Prec	79.688%
Test: [100/157] Time 0.018 (84.592%) * Prec 84.860%		0.5762	(0.4815	(0.018)	
Test: [100/157] Time 0.018 (84.592%) * Prec 84.860% best acc: 86.010000	ne 0.033 (0.033)	0.5762	(0.4815		
Test: [100/157] Time 0.018 (84.592%) * Prec 84.860% best acc: 86.010000 Epoch: [71] [0/782] Time	ne 0.033 (0.033) 938% (85.938%)	0.5762 Data	(0.4815 0.018		Loss
Test: [100/157] Time 0.018 (84.592%) * Prec 84.860% best acc: 86.010000 Epoch: [71][0/782] Tim 0.4330 (0.4330) Prec 85.	ne 0.033 (0.033) .938% (85.938%) ne 0.036 (0.039)	0.5762 Data	(0.4815 0.018	(0.018)	Loss
Test: [100/157] Time 0.018 (84.592%) * Prec 84.860% best acc: 86.010000 Epoch: [71] [0/782] Tim 0.4330 (0.4330) Prec 85. Epoch: [71] [100/782] Tim	ne 0.033 (0.033) .938% (85.938%) ne 0.036 (0.039) .500% (89.944%)	0.5762 Data Data	0.4815 0.018 0.012	(0.018)	Loss
Test: [100/157] Time 0.018 (84.592%) * Prec 84.860% best acc: 86.010000 Epoch: [71] [0/782] Tim 0.4330 (0.4330) Prec 85. Epoch: [71] [100/782] Tim 0.3071 (0.2926) Prec 87.	ne 0.033 (0.033) .938% (85.938%) ne 0.036 (0.039) .500% (89.944%) ne 0.039 (0.039)	0.5762 Data Data	0.4815 0.018 0.012	(0.018) (0.012)	Loss Loss
Test: [100/157] Time 0.018 (84.592%) * Prec 84.860% best acc: 86.010000 Epoch: [71] [0/782] Tim 0.4330 (0.4330) Prec 85. Epoch: [71] [100/782] Tim 0.3071 (0.2926) Prec 87. Epoch: [71] [200/782] Tim	ne 0.033 (0.033) .938% (85.938%) ne 0.036 (0.039) .500% (89.944%) ne 0.039 (0.039) .938% (89.715%)	Data Data Data	0.018 0.012 0.012	(0.018) (0.012)	Loss Loss
Test: [100/157] Time 0.018 (84.592%) * Prec 84.860% best acc: 86.010000 Epoch: [71] [0/782] Tim 0.4330 (0.4330) Prec 85. Epoch: [71] [100/782] Tim 0.3071 (0.2926) Prec 87. Epoch: [71] [200/782] Tim 0.5067 (0.2948) Prec 85.	ne 0.033 (0.033) .938% (85.938%) ne 0.036 (0.039) .500% (89.944%) ne 0.039 (0.039) .938% (89.715%) ne 0.038 (0.039)	Data Data Data	0.018 0.012 0.012	(0.018) (0.012) (0.012)	Loss Loss Loss
Test: [100/157] Time 0.018 (84.592%) * Prec 84.860% best acc: 86.010000 Epoch: [71] [0/782] Tim 0.4330 (0.4330) Prec 85. Epoch: [71] [100/782] Tim 0.3071 (0.2926) Prec 87. Epoch: [71] [200/782] Tim 0.5067 (0.2948) Prec 85. Epoch: [71] [300/782] Tim 0.2675 (0.2971) Prec 87.	ne 0.033 (0.033) .938% (85.938%) ne 0.036 (0.039) .500% (89.944%) ne 0.039 (0.039) .938% (89.715%) ne 0.038 (0.039)	Data Data Data Data Data	0.018 0.012 0.012 0.012	(0.018) (0.012) (0.012)	Loss Loss Loss
Test: [100/157] Time 0.018 (84.592%) * Prec 84.860% best acc: 86.010000 Epoch: [71] [0/782] Tim 0.4330 (0.4330) Prec 85. Epoch: [71] [100/782] Tim 0.3071 (0.2926) Prec 87. Epoch: [71] [200/782] Tim 0.5067 (0.2948) Prec 85. Epoch: [71] [300/782] Tim 0.2675 (0.2971) Prec 87. Epoch: [71] [400/782] Tim	ne 0.033 (0.033) 1938% (85.938%) ne 0.036 (0.039) 1500% (89.944%) ne 0.039 (0.039) 1938% (89.715%) ne 0.038 (0.039) 1500% (89.525%)	Data Data Data Data Data	0.018 0.012 0.012 0.012	(0.018) (0.012) (0.012) (0.012)	Loss Loss Loss
Test: [100/157] Time 0.018 (84.592%) * Prec 84.860% best acc: 86.010000 Epoch: [71] [0/782] Tim 0.4330 (0.4330) Prec 85. Epoch: [71] [100/782] Tim 0.3071 (0.2926) Prec 87. Epoch: [71] [200/782] Tim 0.5067 (0.2948) Prec 85. Epoch: [71] [300/782] Tim 0.2675 (0.2971) Prec 87. Epoch: [71] [400/782] Tim	ne 0.033 (0.033) 938% (85.938%) ne 0.036 (0.039) 500% (89.944%) ne 0.039 (0.039) 938% (89.715%) ne 0.038 (0.039) .500% (89.525%) ne 0.039 (0.039) .625% (89.495%)	Data Data Data Data Data Data	0.018 0.012 0.012 0.012 0.012	(0.018) (0.012) (0.012) (0.012)	Loss Loss Loss
Test: [100/157] Time 0.018 (84.592%) * Prec 84.860% best acc: 86.010000 Epoch: [71] [0/782] Tim 0.4330 (0.4330) Prec 85. Epoch: [71] [100/782] Tim 0.3071 (0.2926) Prec 87. Epoch: [71] [200/782] Tim 0.5067 (0.2948) Prec 85. Epoch: [71] [300/782] Tim 0.2675 (0.2971) Prec 87. Epoch: [71] [400/782] Tim 0.2224 (0.3019) Prec 90.	ne 0.033 (0.033) 1938% (85.938%) ne 0.036 (0.039) 1500% (89.944%) ne 0.039 (0.039) 1938% (89.715%) ne 0.038 (0.039) 1500% (89.525%) ne 0.039 (0.039) 1625% (89.495%) ne 0.038 (0.039)	Data Data Data Data Data Data	0.018 0.012 0.012 0.012 0.012	(0.018) (0.012) (0.012) (0.012) (0.012)	Loss Loss Loss Loss
Test: [100/157] Time 0.018 (84.592%) * Prec 84.860% best acc: 86.010000 Epoch: [71] [0/782] Tim 0.4330 (0.4330) Prec 85. Epoch: [71] [100/782] Tim 0.3071 (0.2926) Prec 87. Epoch: [71] [200/782] Tim 0.5067 (0.2948) Prec 85. Epoch: [71] [300/782] Tim 0.2675 (0.2971) Prec 87. Epoch: [71] [400/782] Tim 0.2224 (0.3019) Prec 90. Epoch: [71] [500/782] Tim 0.3071 (0.3018) Prec 93.	ne 0.033 (0.033) 1938% (85.938%) ne 0.036 (0.039) 1500% (89.944%) ne 0.039 (0.039) 1938% (89.715%) ne 0.038 (0.039) 1500% (89.525%) ne 0.039 (0.039) 1625% (89.495%) ne 0.038 (0.039)	Data Data Data Data Data Data Data	0.018 0.012 0.012 0.012 0.012 0.012	(0.018) (0.012) (0.012) (0.012) (0.012)	Loss Loss Loss Loss
Test: [100/157] Time 0.018 (84.592%) * Prec 84.860% best acc: 86.010000 Epoch: [71] [0/782] Tim 0.4330 (0.4330) Prec 85. Epoch: [71] [100/782] Tim 0.3071 (0.2926) Prec 87. Epoch: [71] [200/782] Tim 0.5067 (0.2948) Prec 85. Epoch: [71] [300/782] Tim 0.2675 (0.2971) Prec 87. Epoch: [71] [400/782] Tim 0.2224 (0.3019) Prec 90. Epoch: [71] [500/782] Tim 0.3071 (0.3018) Prec 93.	ne 0.033 (0.033) 938% (85.938%) ne 0.036 (0.039) 500% (89.944%) ne 0.039 (0.039) 938% (89.715%) ne 0.038 (0.039) 500% (89.525%) ne 0.039 (0.039) 625% (89.495%) ne 0.038 (0.039) 750% (89.540%) ne 0.038 (0.039)	Data Data Data Data Data Data Data	0.018 0.012 0.012 0.012 0.012 0.012	(0.018) (0.012) (0.012) (0.012) (0.012) (0.012)	Loss Loss Loss Loss Loss
Test: [100/157] Time 0.018 (84.592%) * Prec 84.860% best acc: 86.010000 Epoch: [71] [0/782] Tim 0.4330 (0.4330) Prec 85. Epoch: [71] [100/782] Tim 0.3071 (0.2926) Prec 87. Epoch: [71] [200/782] Tim 0.5067 (0.2948) Prec 85. Epoch: [71] [300/782] Tim 0.2675 (0.2971) Prec 87. Epoch: [71] [400/782] Tim 0.2224 (0.3019) Prec 90. Epoch: [71] [500/782] Tim 0.3071 (0.3018) Prec 93. Epoch: [71] [600/782] Tim	ne 0.033 (0.033) 1938% (85.938%) ne 0.036 (0.039) 1500% (89.944%) ne 0.039 (0.039) 1938% (89.715%) ne 0.038 (0.039) 1500% (89.525%) ne 0.039 (0.039) 1625% (89.495%) ne 0.038 (0.039) 1750% (89.540%) ne 0.038 (0.039) 1500% (89.447%)	Data Data Data Data Data Data Data Data	0.018 0.012 0.012 0.012 0.012 0.012 0.013	(0.018) (0.012) (0.012) (0.012) (0.012) (0.012)	Loss Loss Loss Loss Loss
Test: [100/157] Time 0.018 (84.592%) * Prec 84.860% best acc: 86.010000 Epoch: [71] [0/782] Tim 0.4330 (0.4330) Prec 85. Epoch: [71] [100/782] Tim 0.3071 (0.2926) Prec 87. Epoch: [71] [200/782] Tim 0.5067 (0.2948) Prec 85. Epoch: [71] [300/782] Tim 0.2675 (0.2971) Prec 87. Epoch: [71] [400/782] Tim 0.2224 (0.3019) Prec 90. Epoch: [71] [500/782] Tim 0.3071 (0.3018) Prec 93. Epoch: [71] [600/782] Tim 0.2688 (0.3049) Prec 87. Epoch: [71] [700/782] Tim	ne 0.033 (0.033) 1938% (85.938%) ne 0.036 (0.039) 1500% (89.944%) ne 0.039 (0.039) 1938% (89.715%) ne 0.038 (0.039) 1500% (89.525%) ne 0.039 (0.039) 1625% (89.495%) ne 0.038 (0.039) 1750% (89.540%) ne 0.038 (0.039) 1500% (89.447%)	Data Data Data Data Data Data Data Data	0.018 0.012 0.012 0.012 0.012 0.012 0.013	(0.018) (0.012) (0.012) (0.012) (0.012) (0.012) (0.012)	Loss Loss Loss Loss Loss
Test: [100/157] Time 0.018 (84.592%) * Prec 84.860% best acc: 86.010000 Epoch: [71] [0/782] Tim 0.4330 (0.4330) Prec 85. Epoch: [71] [100/782] Tim 0.3071 (0.2926) Prec 87. Epoch: [71] [200/782] Tim 0.5067 (0.2948) Prec 85. Epoch: [71] [300/782] Tim 0.2675 (0.2971) Prec 87. Epoch: [71] [400/782] Tim 0.2224 (0.3019) Prec 90. Epoch: [71] [500/782] Tim 0.3071 (0.3018) Prec 93. Epoch: [71] [600/782] Tim 0.2688 (0.3049) Prec 87. Epoch: [71] [700/782] Tim	ne 0.033 (0.033) 1938% (85.938%) ne 0.036 (0.039) 1500% (89.944%) ne 0.039 (0.039) 1938% (89.715%) ne 0.038 (0.039) 1500% (89.525%) ne 0.039 (0.039) 1625% (89.495%) ne 0.038 (0.039) 1750% (89.540%) ne 0.038 (0.039) 1500% (89.447%) ne 0.039 (0.039)	Data Data Data Data Data Data Data Data	0.018 0.012 0.012 0.012 0.012 0.012 0.013	(0.018) (0.012) (0.012) (0.012) (0.012) (0.012) (0.012)	Loss Loss Loss Loss Loss
Test: [100/157] Time 0.018 (84.592%) * Prec 84.860% best acc: 86.010000 Epoch: [71] [0/782] Tim 0.4330 (0.4330) Prec 85. Epoch: [71] [100/782] Tim 0.3071 (0.2926) Prec 87. Epoch: [71] [200/782] Tim 0.5067 (0.2948) Prec 85. Epoch: [71] [300/782] Tim 0.2675 (0.2971) Prec 87. Epoch: [71] [400/782] Tim 0.2224 (0.3019) Prec 90. Epoch: [71] [500/782] Tim 0.3071 (0.3018) Prec 93. Epoch: [71] [600/782] Tim 0.2688 (0.3049) Prec 87. Epoch: [71] [700/782] Tim 0.3269 (0.3059) Prec 87. Validation starts Test: [0/157] Time 0.024	ne 0.033 (0.033) 1938% (85.938%) ne 0.036 (0.039) 1500% (89.944%) ne 0.039 (0.039) 1938% (89.715%) ne 0.038 (0.039) 1500% (89.525%) ne 0.039 (0.039) 1625% (89.495%) ne 0.038 (0.039) 1750% (89.540%) ne 0.038 (0.039) 1500% (89.447%) ne 0.039 (0.039) 1500% (89.350%)	Data Data Data Data Data Data Data Data	0.018 0.012 0.012 0.012 0.012 0.012 0.013 0.013	(0.018) (0.012) (0.012) (0.012) (0.012) (0.012) (0.012) (0.012)	Loss Loss Loss Loss Loss
Test: [100/157] Time 0.018 (84.592%) * Prec 84.860% best acc: 86.010000 Epoch: [71] [0/782] Tim 0.4330 (0.4330) Prec 85. Epoch: [71] [100/782] Tim 0.3071 (0.2926) Prec 87. Epoch: [71] [200/782] Tim 0.5067 (0.2948) Prec 85. Epoch: [71] [300/782] Tim 0.2675 (0.2971) Prec 87. Epoch: [71] [400/782] Tim 0.2224 (0.3019) Prec 90. Epoch: [71] [500/782] Tim 0.3071 (0.3018) Prec 93. Epoch: [71] [600/782] Tim 0.2688 (0.3049) Prec 87. Epoch: [71] [700/782] Tim 0.3269 (0.3059) Prec 87. Validation starts	ne 0.033 (0.033) 1938% (85.938%) ne 0.036 (0.039) 1500% (89.944%) ne 0.039 (0.039) 1938% (89.715%) ne 0.038 (0.039) 1500% (89.525%) ne 0.039 (0.039) 1625% (89.495%) ne 0.038 (0.039) 1750% (89.540%) ne 0.038 (0.039) 1500% (89.447%) ne 0.039 (0.039) 1500% (89.350%)	Data Data Data Data Data Data Data Data	0.018 0.012 0.012 0.012 0.012 0.012 0.013 0.013	(0.018) (0.012) (0.012) (0.012) (0.012) (0.012) (0.012) (0.012)	Loss Loss Loss Loss Loss Loss

Test: [100/157] Time 0.018 (0.019) Lo (85.040%)	oss 0.5962 (0.4606) Prec 82.812%
* Prec 85.080%	
best acc: 86.010000	
Epoch: [72] [0/782] Time 0.029 (0.029)	
0.3153 (0.3153) Prec 87.500% (87.500%)	
Epoch: [72][100/782] Time 0.038 (0.039)) Data 0.012 (0.012) Loss
0.2155 (0.3042) Prec 92.188% (89.325%)	
Epoch: [72][200/782] Time 0.039 (0.039)) Data 0.019 (0.012) Loss
0.4207 (0.3048) Prec 84.375% (89.420%)	
Epoch: [72][300/782] Time 0.039 (0.039)) Data 0.012 (0.012) Loss
0.2369 (0.3066) Prec 93.750% (89.436%)	
Epoch: [72] [400/782] Time 0.039 (0.039)) Data 0.012 (0.012) Loss
0.2713 (0.3070) Prec 92.188% (89.425%)	
Epoch: [72][500/782] Time 0.044 (0.039)) Data 0.012 (0.012) Loss
0.2353 (0.3073) Prec 90.625% (89.387%)	
Epoch: [72][600/782] Time 0.039 (0.039)) Data 0.012 (0.012) Loss
0.2916 (0.3089) Prec 90.625% (89.304%)	
Epoch: [72] [700/782] Time 0.039 (0.039)) Data 0.012 (0.012) Loss
0.3550 (0.3075) Prec 87.500% (89.346%)	
Validation starts	
Test: [0/157] Time 0.021 (0.021) Lo	oss 0.4197 (0.4197) Prec 87.500%
(87.500%)	
Test: [100/157] Time 0.022 (0.019) Lo	oss 0.5288 (0.4317) Prec 81.250%
(86.402%)	
* Prec 86.180%	
best acc: 86.180000	
Epoch: [73] [0/782] Time 0.030 (0.030)) Data 0.013 (0.013) Loss
0.3443 (0.3443) Prec 85.938% (85.938%)	
Epoch: [73] [100/782] Time 0.034 (0.039)) Data 0.012 (0.012) Loss
0.3559 (0.2993) Prec 89.062% (89.650%)	
Epoch: [73] [200/782] Time 0.039 (0.039)) Data 0.011 (0.013) Loss
0.1460 (0.2967) Prec 98.438% (89.840%)	
Epoch: [73][300/782] Time 0.039 (0.039)) Data 0.012 (0.013) Loss
0.2939 (0.2965) Prec 90.625% (89.929%)	
Epoch: [73][400/782] Time 0.034 (0.039)) Data 0.012 (0.012) Loss
0.2761 (0.3005) Prec 90.625% (89.776%)	
Epoch: [73] [500/782] Time 0.039 (0.039)) Data 0.012 (0.013) Loss
0.1370 (0.2981) Prec 96.875% (89.842%)	
Epoch: [73][600/782] Time 0.039 (0.039)) Data 0.015 (0.013) Loss
0.2892 (0.3000) Prec 92.188% (89.733%)	
Epoch: [73] [700/782] Time 0.039 (0.039)) Data 0.012 (0.013) Loss
0.2451 (0.3024) Prec 90.625% (89.687%)	
Validation starts	
Test: [0/157] Time 0.022 (0.022) Lo	oss 0.4394 (0.4394) Prec 84.375%
(84.375%)	·
Test: [100/157] Time 0.019 (0.020)	oss 0.4896 (0.4177) Prec 85.938%
(86.108%)	

* Prec 85.820%	
best acc: 86.180000 Epoch: [74] [0/782] Time 0.030 (0.030) Data 0.014 (0.014)	Loss
0.2273 (0.2273) Prec 89.062% (89.062%)	
Epoch: [74] [100/782] Time 0.043 (0.039) Data 0.012 (0.013)	Loss
0.3945 (0.2981) Prec 87.500% (89.821%)	T
Epoch: [74] [200/782] Time 0.039 (0.039) Data 0.012 (0.013) 0.1816 (0.3014) Prec 93.750% (89.576%)	Loss
Epoch: [74] [300/782] Time 0.039 (0.039) Data 0.012 (0.013)	Loss
0.3126 (0.3004) Prec 89.062% (89.613%)	
Epoch: [74] [400/782] Time 0.045 (0.039) Data 0.012 (0.013)	Loss
0.2475 (0.3012) Prec 90.625% (89.666%) Epoch: [74] [500/782] Time 0.035 (0.039) Data 0.012 (0.012)	Logg
Epoch: [74] [500/782] Time 0.035 (0.039) Data 0.012 (0.012) 0.3253 (0.3067) Prec 89.062% (89.449%)	Loss
Epoch: [74] [600/782] Time 0.038 (0.039) Data 0.013 (0.012)	Loss
0.1346 (0.3058) Prec 96.875% (89.520%)	
Epoch: [74] [700/782] Time 0.038 (0.039) Data 0.012 (0.012)	Loss
0.3790 (0.3071) Prec 85.938% (89.508%)	
Validation starts Test: [0/157] Time 0.023 (0.023) Loss 0.3429 (0.3429) Pre	c 89.062%
(89.062%)	00.002/
	c 87.500%
(86.247%)	
* Prec 85.950% best acc: 86.180000	
Dest acc: 86.180000	
	Ingg
Epoch: [75][0/782] Time 0.035 (0.035) Data 0.014 (0.014)	Loss
	Loss Loss
Epoch: [75] [0/782] Time 0.035 (0.035) Data 0.014 (0.014) 0.3867 (0.3867) Prec 85.938% (85.938%) Epoch: [75] [100/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.2620 (0.3092) Prec 90.625% (89.233%)	
Epoch: [75] [0/782] Time 0.035 (0.035) Data 0.014 (0.014) 0.3867 (0.3867) Prec 85.938% (85.938%) Epoch: [75] [100/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.2620 (0.3092) Prec 90.625% (89.233%) Epoch: [75] [200/782] Time 0.038 (0.038) Data 0.018 (0.013)	
Epoch: [75] [0/782] Time 0.035 (0.035) Data 0.014 (0.014) 0.3867 (0.3867) Prec 85.938% (85.938%) Epoch: [75] [100/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.2620 (0.3092) Prec 90.625% (89.233%) Epoch: [75] [200/782] Time 0.038 (0.038) Data 0.018 (0.013) 0.3067 (0.3048) Prec 89.062% (89.202%)	Loss
Epoch: [75] [0/782] Time 0.035 (0.035) Data 0.014 (0.014) 0.3867 (0.3867) Prec 85.938% (85.938%) Epoch: [75] [100/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.2620 (0.3092) Prec 90.625% (89.233%) Epoch: [75] [200/782] Time 0.038 (0.038) Data 0.018 (0.013) 0.3067 (0.3048) Prec 89.062% (89.202%) Epoch: [75] [300/782] Time 0.038 (0.038) Data 0.012 (0.013)	Loss
Epoch: [75] [0/782] Time 0.035 (0.035) Data 0.014 (0.014) 0.3867 (0.3867) Prec 85.938% (85.938%) Epoch: [75] [100/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.2620 (0.3092) Prec 90.625% (89.233%) Epoch: [75] [200/782] Time 0.038 (0.038) Data 0.018 (0.013) 0.3067 (0.3048) Prec 89.062% (89.202%) Epoch: [75] [300/782] Time 0.038 (0.038) Data 0.012 (0.013)	Loss Loss Loss
Epoch: [75] [0/782] Time 0.035 (0.035) Data 0.014 (0.014) 0.3867 (0.3867) Prec 85.938% (85.938%) Epoch: [75] [100/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.2620 (0.3092) Prec 90.625% (89.233%) Epoch: [75] [200/782] Time 0.038 (0.038) Data 0.018 (0.013) 0.3067 (0.3048) Prec 89.062% (89.202%) Epoch: [75] [300/782] Time 0.038 (0.038) Data 0.012 (0.013) 0.7904 (0.3064) Prec 76.562% (89.213%) Epoch: [75] [400/782] Time 0.038 (0.038) Data 0.012 (0.013) 0.3354 (0.3038) Prec 89.062% (89.366%)	Loss Loss Loss
Epoch: [75] [0/782] Time 0.035 (0.035) Data 0.014 (0.014) 0.3867 (0.3867) Prec 85.938% (85.938%) Epoch: [75] [100/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.2620 (0.3092) Prec 90.625% (89.233%) Epoch: [75] [200/782] Time 0.038 (0.038) Data 0.018 (0.013) 0.3067 (0.3048) Prec 89.062% (89.202%) Epoch: [75] [300/782] Time 0.038 (0.038) Data 0.012 (0.013) 0.7904 (0.3064) Prec 76.562% (89.213%) Epoch: [75] [400/782] Time 0.038 (0.038) Data 0.012 (0.013) 0.3354 (0.3038) Prec 89.062% (89.366%) Epoch: [75] [500/782] Time 0.039 (0.038) Data 0.012 (0.013)	Loss Loss Loss
Epoch: [75] [0/782] Time 0.035 (0.035) Data 0.014 (0.014) 0.3867 (0.3867) Prec 85.938% (85.938%) Epoch: [75] [100/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.2620 (0.3092) Prec 90.625% (89.233%) Epoch: [75] [200/782] Time 0.038 (0.038) Data 0.018 (0.013) 0.3067 (0.3048) Prec 89.062% (89.202%) Epoch: [75] [300/782] Time 0.038 (0.038) Data 0.012 (0.013) 0.7904 (0.3064) Prec 76.562% (89.213%) Epoch: [75] [400/782] Time 0.038 (0.038) Data 0.012 (0.013) 0.3354 (0.3038) Prec 89.062% (89.366%) Epoch: [75] [500/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.1939 (0.3042) Prec 95.312% (89.377%)	Loss Loss Loss Loss
Epoch: [75] [0/782] Time 0.035 (0.035) Data 0.014 (0.014) 0.3867 (0.3867) Prec 85.938% (85.938%) Epoch: [75] [100/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.2620 (0.3092) Prec 90.625% (89.233%) Epoch: [75] [200/782] Time 0.038 (0.038) Data 0.018 (0.013) 0.3067 (0.3048) Prec 89.062% (89.202%) Epoch: [75] [300/782] Time 0.038 (0.038) Data 0.012 (0.013) 0.7904 (0.3064) Prec 76.562% (89.213%) Epoch: [75] [400/782] Time 0.038 (0.038) Data 0.012 (0.013) 0.3354 (0.3038) Prec 89.062% (89.366%) Epoch: [75] [500/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.1939 (0.3042) Prec 95.312% (89.377%) Epoch: [75] [600/782] Time 0.039 (0.038) Data 0.012 (0.013)	Loss Loss Loss Loss
Epoch: [75] [0/782] Time 0.035 (0.035) Data 0.014 (0.014) 0.3867 (0.3867) Prec 85.938% (85.938%) Epoch: [75] [100/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.2620 (0.3092) Prec 90.625% (89.233%) Epoch: [75] [200/782] Time 0.038 (0.038) Data 0.018 (0.013) 0.3067 (0.3048) Prec 89.062% (89.202%) Epoch: [75] [300/782] Time 0.038 (0.038) Data 0.012 (0.013) 0.7904 (0.3064) Prec 76.562% (89.213%) Epoch: [75] [400/782] Time 0.038 (0.038) Data 0.012 (0.013) 0.3354 (0.3038) Prec 89.062% (89.366%) Epoch: [75] [500/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.1939 (0.3042) Prec 95.312% (89.377%)	Loss Loss Loss Loss Loss
Epoch: [75] [0/782] Time 0.035 (0.035) Data 0.014 (0.014) 0.3867 (0.3867) Prec 85.938% (85.938%) Epoch: [75] [100/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.2620 (0.3092) Prec 90.625% (89.233%) Epoch: [75] [200/782] Time 0.038 (0.038) Data 0.018 (0.013) 0.3067 (0.3048) Prec 89.062% (89.202%) Epoch: [75] [300/782] Time 0.038 (0.038) Data 0.012 (0.013) 0.7904 (0.3064) Prec 76.562% (89.213%) Epoch: [75] [400/782] Time 0.038 (0.038) Data 0.012 (0.013) 0.3354 (0.3038) Prec 89.062% (89.366%) Epoch: [75] [500/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.1939 (0.3042) Prec 95.312% (89.377%) Epoch: [75] [600/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.2950 (0.3035) Prec 92.188% (89.416%)	Loss Loss Loss Loss Loss
Epoch: [75] [0/782] Time 0.035 (0.035) Data 0.014 (0.014) 0.3867 (0.3867) Prec 85.938% (85.938%) Epoch: [75] [100/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.2620 (0.3092) Prec 90.625% (89.233%) Epoch: [75] [200/782] Time 0.038 (0.038) Data 0.018 (0.013) 0.3067 (0.3048) Prec 89.062% (89.202%) Epoch: [75] [300/782] Time 0.038 (0.038) Data 0.012 (0.013) 0.7904 (0.3064) Prec 76.562% (89.213%) Epoch: [75] [400/782] Time 0.038 (0.038) Data 0.012 (0.013) 0.3354 (0.3038) Prec 89.062% (89.366%) Epoch: [75] [500/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.1939 (0.3042) Prec 95.312% (89.377%) Epoch: [75] [600/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.2950 (0.3035) Prec 92.188% (89.416%) Epoch: [75] [700/782] Time 0.038 (0.038) Data 0.012 (0.013) 0.5294 (0.3041) Prec 85.938% (89.415%) Validation starts	Loss Loss Loss Loss Loss
Epoch: [75][0/782] Time 0.035 (0.035) Data 0.014 (0.014) 0.3867 (0.3867) Prec 85.938% (85.938%) Epoch: [75][100/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.2620 (0.3092) Prec 90.625% (89.233%) Epoch: [75][200/782] Time 0.038 (0.038) Data 0.018 (0.013) 0.3067 (0.3048) Prec 89.062% (89.202%) Epoch: [75][300/782] Time 0.038 (0.038) Data 0.012 (0.013) 0.7904 (0.3064) Prec 76.562% (89.213%) Epoch: [75][400/782] Time 0.038 (0.038) Data 0.012 (0.013) 0.3354 (0.3038) Prec 89.062% (89.366%) Epoch: [75][500/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.1939 (0.3042) Prec 95.312% (89.377%) Epoch: [75][600/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.2950 (0.3035) Prec 92.188% (89.416%) Epoch: [75][700/782] Time 0.038 (0.038) Data 0.012 (0.013) 0.5294 (0.3041) Prec 85.938% (89.415%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss 0.3095 (0.3095) Prec	Loss Loss Loss Loss Loss
Epoch: [75] [0/782] Time 0.035 (0.035) Data 0.014 (0.014) 0.3867 (0.3867) Prec 85.938% (85.938%) Epoch: [75] [100/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.2620 (0.3092) Prec 90.625% (89.233%) Epoch: [75] [200/782] Time 0.038 (0.038) Data 0.018 (0.013) 0.3067 (0.3048) Prec 89.062% (89.202%) Epoch: [75] [300/782] Time 0.038 (0.038) Data 0.012 (0.013) 0.7904 (0.3064) Prec 76.562% (89.213%) Epoch: [75] [400/782] Time 0.038 (0.038) Data 0.012 (0.013) 0.3354 (0.3038) Prec 89.062% (89.366%) Epoch: [75] [500/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.1939 (0.3042) Prec 95.312% (89.377%) Epoch: [75] [600/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.2950 (0.3035) Prec 92.188% (89.416%) Epoch: [75] [700/782] Time 0.038 (0.038) Data 0.012 (0.013) 0.5294 (0.3041) Prec 85.938% (89.415%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss 0.3095 (0.3095) Prec (87.500%)	Loss Loss Loss Loss Loss Loss
Epoch: [75][0/782] Time 0.035 (0.035) Data 0.014 (0.014) 0.3867 (0.3867) Prec 85.938% (85.938%) Epoch: [75][100/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.2620 (0.3092) Prec 90.625% (89.233%) Epoch: [75][200/782] Time 0.038 (0.038) Data 0.018 (0.013) 0.3067 (0.3048) Prec 89.062% (89.202%) Epoch: [75][300/782] Time 0.038 (0.038) Data 0.012 (0.013) 0.7904 (0.3064) Prec 76.562% (89.213%) Epoch: [75][400/782] Time 0.038 (0.038) Data 0.012 (0.013) 0.3354 (0.3038) Prec 89.062% (89.366%) Epoch: [75][500/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.1939 (0.3042) Prec 95.312% (89.377%) Epoch: [75][600/782] Time 0.039 (0.038) Data 0.012 (0.013) 0.2950 (0.3035) Prec 92.188% (89.416%) Epoch: [75][700/782] Time 0.038 (0.038) Data 0.012 (0.013) 0.5294 (0.3041) Prec 85.938% (89.415%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss 0.3095 (0.3095) Prec	Loss Loss Loss Loss Loss Loss

best acc: 86.180000

Epoch: [76][0/782] Time 0.029 (0.0 0.2818 (0.2818) Prec 87.500% (87.500		Data 0.013	(0.013)	Loss
Epoch: [76] [100/782] Time 0.039 (0.0 0.4289 (0.2992) Prec 81.250% (89.434	38)	Data 0.012	(0.013)	Loss
Epoch: [76] [200/782] Time 0.034 (0.0 0.2780 (0.3001) Prec 89.062% (89.544	38)	Data 0.012	(0.013)	Loss
Epoch: [76] [300/782] Time 0.038 (0.0 0.2876 (0.3034) Prec 89.062% (89.400		Data 0.013	(0.013)	Loss
Epoch: [76] [400/782] Time 0.038 (0.0 0.3198 (0.3010) Prec 84.375% (89.498	9%)	Data 0.012	(0.013)	Loss
Epoch: [76] [500/782] Time 0.038 (0.0 0.3928 (0.3058) Prec 84.375% (89.399	9%)	Data 0.011		Loss
Epoch: [76] [600/782] Time 0.033 (0.0 0.2208 (0.3035) Prec 93.750% (89.536	5%)	Data 0.012		Loss
Epoch: [76] [700/782] Time 0.038 (0.0 0.2147 (0.3047) Prec 93.750% (89.477		Data 0.012	(0.013)	Loss
Validation starts Test: [0/157] Time 0.023 (0.023)	Loss 0 4	782 (0.478)) Prec	85.938%
(85.938%)	1000 0.1	102 (0.110)	1100	30.300%
Test: [100/157] Time 0.018 (0.018)	Loss 0.5	012 (0.423	1) Prec	78.125%
(85.999%)				
* Prec 85.860%				
best acc: 86.180000				
Epoch: [77] [0/782] Time 0.042 (0.0)42)	Data 0.019	(0.019)	Loss
0.2200 (0.2200) Prec 93.750% (93.750)%)			
Epoch: [77] [100/782] Time 0.038 (0.0	38)	Data 0.012	(0.013)	Loss
0.2959 (0.2899) Prec 87.500% (89.619	9%)			
Epoch: [77][200/782] Time 0.038 (0.0		Data 0.012	(0.014)	Loss
0.2578 (0.2904) Prec 92.188% (89.630				
Epoch: [77] [300/782] Time 0.039 (0.0		Data 0.013	(0.014)	Loss
0.2225 (0.2911) Prec 89.062% (89.618		D	(0, 04.4)	-
Epoch: [77] [400/782] Time 0.038 (0.0		Data 0.018	(0.014)	Loss
0.1569 (0.2951) Prec 92.188% (89.577		D-+- 0 010	(0.014)	T
Epoch: [77] [500/782] Time 0.038 (0.0 0.3071 (0.2958) Prec 89.062% (89.621		Data 0.016	(0.014)	Loss
Epoch: [77] [600/782] Time 0.038 (0.0		Data 0.018	(0 014)	Loss
0.3568 (0.2991) Prec 84.375% (89.520		Dava 0.010	(0.011)	ДОВВ
Epoch: [77] [700/782] Time 0.038 (0.0		Data 0.012	(0.014)	Loss
0.4081 (0.3013) Prec 84.375% (89.450			,	
Validation starts				
Test: [0/157] Time 0.024 (0.024)	Loss 0.5	930 (0.593)) Prec	81.250%
(81.250%)				
Test: [100/157] Time 0.018 (0.018)	Loss 0.5	947 (0.429	6) Prec	79.688%
(85.535%)				
* Prec 85.630%				
best acc: 86.180000				
Epoch: [78] [0/782] Time 0.031 (0.0		Data 0.016	(0.016)	Loss
0.3687 (0.3687) Prec 89.062% (89.062	2%)			

Epoch: [78][100/782] Time 0.039 (0.038) 0.3402 (0.2912) Prec 89.062% (90.053%)	Data 0.012 (0.013) Loss
Epoch: [78] [200/782] Time 0.038 (0.038) 0.3215 (0.2890) Prec 90.625% (90.050%)	Data 0.012 (0.013) Loss
Epoch: [78] [300/782] Time 0.038 (0.038) 0.2267 (0.2932) Prec 90.625% (89.852%)	Data 0.012 (0.013) Loss
Epoch: [78][400/782] Time 0.038 (0.038)	Data 0.012 (0.013) Loss
0.2197 (0.2959) Prec 95.312% (89.803%) Epoch: [78] [500/782] Time 0.038 (0.038) 0.1955 (0.2979) Prec 93.750% (89.733%)	Data 0.012 (0.013) Loss
Epoch: [78] [600/782] Time 0.039 (0.038) 0.1779 (0.2996) Prec 92.188% (89.681%)	Data 0.012 (0.013) Loss
Epoch: [78] [700/782] Time 0.038 (0.038) 0.2267 (0.3004) Prec 92.188% (89.664%)	Data 0.012 (0.013) Loss
Validation starts	
	ss 0.3961 (0.3961) Prec 81.250%
(81.250%)	1100 01.2007
Test: [100/157] Time 0.018 (0.018)	ss 0.4982 (0.4279) Prec 82.812%
(85.319%)	1100 02.012
* Prec 85.260%	
best acc: 86.180000	
Epoch: [79] [0/782] Time 0.039 (0.039)	Data 0.019 (0.019) Loss
0.3076 (0.3076) Prec 84.375% (84.375%)	Data 0.013 (0.013) Loss
Epoch: [79] [100/782] Time 0.038 (0.038)	Data 0.012 (0.013) Loss
-	Data 0.012 (0.013) LOSS
0.3521 (0.2799) Prec 87.500% (89.975%)	D + 0.040 (0.040) I
Epoch: [79] [200/782] Time 0.038 (0.038)	Data 0.012 (0.012) Loss
0.2357 (0.2825) Prec 89.062% (90.166%)	D
Epoch: [79] [300/782] Time 0.039 (0.038)	Data 0.012 (0.012) Loss
0.3484 (0.2868) Prec 85.938% (89.987%)	D
Epoch: [79] [400/782] Time 0.043 (0.038)	Data 0.012 (0.012) Loss
0.1957 (0.2950) Prec 92.188% (89.690%)	D
Epoch: [79] [500/782] Time 0.038 (0.038)	Data 0.012 (0.012) Loss
0.3716 (0.2967) Prec 85.938% (89.655%)	
Epoch: [79] [600/782] Time 0.033 (0.038)	
0.5144 (0.2972) Prec 82.812% (89.624%)	
Epoch: [79] [700/782] Time 0.038 (0.038)	Data 0.012 (0.012) Loss
0.3459 (0.2988) Prec 89.062% (89.600%)	
Validation starts	
Test: [0/157] Time 0.020 (0.020) Log	ss 0.4126 (0.4126) Prec 87.500%
(87.500%)	
Test: [100/157] Time 0.019 (0.019)	ss 0.5148 (0.4631) Prec 82.812%
(84.901%)	
* Prec 85.000%	
best acc: 86.180000	
Epoch: [80] [0/782] Time 0.032 (0.032)	Data 0.017 (0.017) Loss
0.2757 (0.2757) Prec 92.188% (92.188%)	
Epoch: [80][100/782] Time 0.038 (0.038)	Data 0.012 (0.013) Loss
0.1951 (0.3006) Prec 89.062% (89.403%)	

Epoch: [80] [200/782] Time 0.043 (0.038)	Data 0.012 (0.013) Loss
0.2655 (0.3005) Prec 87.500% (89.241%) Epoch: [80] [300/782] Time 0.038 (0.038) 0.6165 (0.2937) Prec 81.250% (89.685%)	Data 0.012 (0.013) Loss
Epoch: [80] [400/782] Time 0.038 (0.038) 0.2946 (0.2960) Prec 89.062% (89.686%)	Data 0.013 (0.013) Loss
Epoch: [80] [500/782] Time 0.038 (0.038) 0.1850 (0.2995) Prec 95.312% (89.596%)	Data 0.012 (0.013) Loss
Epoch: [80] [600/782] Time 0.038 (0.038) 0.4026 (0.2993) Prec 85.938% (89.637%)	Data 0.012 (0.013) Loss
Epoch: [80] [700/782] Time 0.043 (0.038) 0.3034 (0.2985) Prec 93.750% (89.707%)	Data 0.012 (0.013) Loss
Validation starts	
Test: [0/157] Time 0.024 (0.024) Loss	0.4991 (0.4991) Prec 85.938
(85.938%)	
Test: [100/157] Time 0.018 (0.019) Loss	0.5832 (0.4505) Prec 81.250%
(85.365%)	
* Prec 85.470%	
best acc: 86.180000	
Epoch: [81] [0/782] Time 0.029 (0.029)	Data 0.015 (0.015) Loss
0.2911 (0.2911) Prec 89.062% (89.062%)	
Epoch: [81] [100/782] Time 0.038 (0.038)	Data 0.013 (0.013) Loss
0.2754 (0.2862) Prec 90.625% (89.774%)	
Epoch: [81] [200/782] Time 0.033 (0.038)	Data 0.013 (0.013) Loss
0.3858 (0.2882) Prec 89.062% (89.925%)	
Epoch: [81] [300/782] Time 0.043 (0.038)	Data 0.012 (0.013) Loss
0.3143 (0.2886) Prec 90.625% (89.898%)	
Epoch: [81] [400/782] Time 0.039 (0.038)	Data 0.013 (0.013) Loss
0.2737 (0.2919) Prec 90.625% (89.865%)	
Epoch: [81] [500/782] Time 0.044 (0.038)	Data 0.012 (0.013) Loss
0.3295 (0.2967) Prec 87.500% (89.752%)	D . 0.042 (0.042)
Epoch: [81] [600/782] Time 0.038 (0.039)	Data 0.013 (0.013) Loss
0.1530 (0.2980) Prec 93.750% (89.731%)	D . 0.040 (0.040)
Epoch: [81] [700/782] Time 0.038 (0.039)	Data 0.018 (0.013) Loss
0.3208 (0.2984) Prec 85.938% (89.738%)	
Validation starts Test: [0/157] Time 0.024 (0.024) Loss	0 5150 (0 5150) Drag 97 500°
(87.500%)	0.5152 (0.5152) Prec 67.500
Test: [100/157] Time 0.019 (0.020) Loss	0 5211 (0 4501) Proc 78 125°
(85.164%)	0.0211 (0.4001) 1160 (0.120)
* Prec 85.250%	
best acc: 86.180000	
Epoch: [82] [0/782] Time 0.040 (0.040)	Data 0.018 (0.018) Loss
0.3172 (0.3172) Prec 84.375% (84.375%)	
Epoch: [82] [100/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.4767 (0.2925) Prec 82.812% (89.867%)	
Epoch: [82][200/782] Time 0.044 (0.039)	Data 0.012 (0.013) Loss
0.2878 (0.2971) Prec 90.625% (89.949%)	

Epoch: [82][300/782] 0.2215 (0.2965) Prec		Data 0.012	(0.013) Loss
Epoch: [82][400/782]	Time 0.039 (0.039) 90.625% (89.620%)	Data 0.020	(0.013) Loss
Epoch: [82] [500/782] 0.3027 (0.2985) Prec	Time 0.036 (0.039)	Data 0.012	(0.013) Loss
Epoch: [82][600/782] 0.3321 (0.2981) Prec	Time 0.039 (0.039)	Data 0.012	(0.013) Loss
Epoch: [82][700/782]	Time 0.045 (0.039) 85.938% (89.537%)	Data 0.012	(0.013) Loss
Validation starts			
Test: [0/157] Time 0.0	021 (0.021) Loss	0.4547 (0.454	7) Prec 89.062%
(89.062%)			
Test: [100/157] Time 0.0	019 (0.019) Loss	0.4791 (0.422	8) Prec 85.938%
(86.556%)			
* Prec 86.380%			
best acc: 86.380000			
Epoch: [83][0/782]		Data 0.016	(0.016) Loss
0.3704 (0.3704) Prec			
Epoch: [83][100/782]	Time 0.039 (0.039)	Data 0.012	(0.013) Loss
0.2100 (0.2970) Prec			
Epoch: [83][200/782]	Time 0.039 (0.039)	Data 0.012	(0.013) Loss
0.2222 (0.2968) Prec			
Epoch: [83] [300/782]		Data 0.012	(0.013) Loss
0.2507 (0.3008) Prec			
Epoch: [83] [400/782]	Time 0.039 (0.039)	Data 0.012	(0.013) Loss
	89.062% (89.550%)		(0.040)
Epoch: [83] [500/782]	Time 0.039 (0.039)	Data 0.012	(0.013) Loss
	90.625% (89.558%)	D 0 . 04.0	(0.040)
Epoch: [83] [600/782]	Time 0.044 (0.039)	Data 0.012	(0.013) Loss
	92.188% (89.640%)	D-+- 0 010	(0.012)
Epoch: [83] [700/782] 0.2708 (0.2982) Prec	Time 0.039 (0.039) 90.625% (89.618%)	Data 0.012	(0.013) Loss
Validation starts	90.025% (09.010%)		
Test: [0/157] Time 0.0))) (0 0))) I ogg	0.3785 (0.378	5) Prec 89.062%
(89.062%)	020 (0.020) LOSS	0.3763 (0.376	5) FIEC 09.002%
Test: [100/157] Time 0.0	019 (0 019) Ingg	0.5630 (0.474	9) Prec 82.812%
(85.149%)	010 (0.010)	0.0000 (0.1/1	J) 1100 02.012%
* Prec 84.900%			
best acc: 86.380000			
Epoch: [84] [0/782]	Time 0.029 (0.029)	Data 0.013	(0.013) Loss
_	92.188% (92.188%)		(*******
Epoch: [84] [100/782]	Time 0.034 (0.039)	Data 0.012	(0.013) Loss
_	84.375% (90.563%)		•
Epoch: [84] [200/782]	Time 0.038 (0.039)	Data 0.018	(0.013) Loss
_	82.812% (90.003%)		
Epoch: [84][300/782]	Time 0.034 (0.039)	Data 0.012	(0.013) Loss
0.4565 (0.2980) Prec	87.500% (89.794%)		

Epoch: [84] [400/782] Time 0.03		Data	0.012	(0.013)	Loss
0.3388 (0.2947) Prec 87.500% (Epoch: [84] [500/782] Time 0.04 0.2725 (0.2945) Prec 90.625% (0 (0.039)	Data	0.012	(0.013)	Loss
Epoch: [84] [600/782] Time 0.04 0.2321 (0.2953) Prec 92.188% (4 (0.039)	Data	0.012	(0.013)	Loss
Epoch: [84] [700/782] Time 0.04 0.3233 (0.2979) Prec 89.062% (0 (0.039)	Data	0.012	(0.013)	Loss
Validation starts					
Test: [0/157] Time 0.023 (0.023) Loss	0.3506	(0.3506	6) Prec	90.625%
(90.625%)					
Test: [100/157] Time 0.019 (0.019) Loss	0.5002	(0.4128	B) Prec	85.938%
(86.757%)					
* Prec 86.520%					
best acc: 86.520000					
Epoch: [85] [0/782] Time 0.03	3 (0.033)	Data	0.018	(0.018)	Loss
0.1676 (0.1676) Prec 96.875% (96.875%)				
Epoch: [85] [100/782] Time 0.03	9 (0.039)	Data	0.013	(0.013)	Loss
0.3506 (0.3005) Prec 90.625% (89.975%)				
Epoch: [85] [200/782] Time 0.03	9 (0.039)	Data	0.012	(0.013)	Loss
0.5958 (0.2908) Prec 82.812% (89.925%)				
Epoch: [85] [300/782] Time 0.03	9 (0.039)	Data	0.013	(0.013)	Loss
0.2208 (0.2911) Prec 90.625% (89.981%)				
Epoch: [85] [400/782] Time 0.03	9 (0.039)	Data	0.012	(0.013)	Loss
0.2517 (0.2955) Prec 90.625% (89.779%)				
Epoch: [85] [500/782] Time 0.03	9 (0.039)	Data	0.012	(0.013)	Loss
0.4730 (0.2959) Prec 84.375% (89.839%)				
Epoch: [85][600/782] Time 0.03	9 (0.039)	Data	0.013	(0.013)	Loss
0.1731 (0.2974) Prec 93.750% (89.770%)				
Epoch: [85] [700/782] Time 0.03	9 (0.039)	Data	0.012	(0.013)	Loss
0.3019 (0.2967) Prec 87.500% (89.776%)				
Validation starts					
Test: [0/157] Time 0.022 (0.022) Loss	0.4959	(0.4959	9) Prec	85.938%
(85.938%)					
Test: [100/157] Time 0.019 (0.019) Loss	0.4437	(0.4336	S) Prec	84.375%
(86.278%)					
* Prec 86.040%					
best acc: 86.520000					
Epoch: [86] [0/782] Time 0.04	0 (0.040)	Data	0.019	(0.019)	Loss
0.2649 (0.2649) Prec 90.625% (90.625%)				
Epoch: [86] [100/782] Time 0.03	9 (0.039)	Data	0.018	(0.013)	Loss
0.3442 (0.2837) Prec 87.500% (89.666%)				
Epoch: [86] [200/782] Time 0.03	9 (0.039)	Data	0.013	(0.013)	Loss
0.2402 (0.2867) Prec 92.188% (89.700%)				
Epoch: [86][300/782] Time 0.03	9 (0.039)	Data	0.012	(0.013)	Loss
0.2595 (0.2894) Prec 89.062% (
Epoch: [86] [400/782] Time 0.03		Data	0.012	(0.013)	Loss
0.1946 (0.2942) Prec 92.188% (89.620%)				

Epoch: [86] [500/782] Time 0.039 (0.039)	Data 0.013 (0.013) Loss
0.4161 (0.2946) Prec 85.938% (89.590%) Epoch: [86] [600/782] Time 0.045 (0.039)	Data 0.012 (0.013) Loss
0.4001 (0.2977) Prec 87.500% (89.549%) Epoch: [86] [700/782] Time 0.039 (0.039) 0.5224 (0.2982) Prec 82.812% (89.571%)	Data 0.013 (0.013) Loss
Validation starts	a 0 2001 (0 2001) Dwgg 00 6059
Test: [0/157] Time 0.024 (0.024) Loss (90.625%)	s 0.3891 (0.3891) Prec 90.625%
Test: [100/157] Time 0.018 (0.019) Loss	a 0 5/10 (0 /201) Proc 70 6889
(86.309%)	5 0.5410 (0.4291) 1160 79.000%
* Prec 86.200%	
best acc: 86.520000	
Epoch: [87] [0/782] Time 0.028 (0.028)	Data 0.013 (0.013) Loss
0.3510 (0.3510) Prec 87.500% (87.500%)	Data 0.010 (0.010) Loss
Epoch: [87] [100/782] Time 0.038 (0.039)	Data 0.019 (0.013) Loss
0.1565 (0.2766) Prec 90.625% (90.347%)	Data 0.013 (0.010) LOBB
Epoch: [87] [200/782] Time 0.039 (0.039)	Data 0.013 (0.013) Loss
0.2790 (0.2914) Prec 92.188% (89.972%)	2404 0.010 (0.010) 1000
Epoch: [87] [300/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.1526 (0.2897) Prec 96.875% (90.012%)	2404 0.012 (0.010) 1000
Epoch: [87] [400/782] Time 0.040 (0.039)	Data 0.012 (0.013) Loss
0.2068 (0.2927) Prec 92.188% (89.869%)	2000 0.012 (0.010) 2000
Epoch: [87] [500/782] Time 0.038 (0.039)	Data 0.013 (0.013) Loss
0.3448 (0.2949) Prec 85.938% (89.761%)	2404 0.020 (0.020) 2020
Epoch: [87][600/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.1786 (0.2955) Prec 95.312% (89.723%)	(
Epoch: [87] [700/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.2402 (0.2969) Prec 93.750% (89.662%)	
Validation starts	
Test: [0/157] Time 0.019 (0.019) Loss (87.500%)	s 0.4488 (0.4488) Prec 87.500%
Test: [100/157] Time 0.018 (0.019) Loss	s 0.7296 (0.4550) Prec 78.125%
(85.442%)	1 2 3 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
* Prec 85.350%	
best acc: 86.520000	
Epoch: [88] [0/782] Time 0.038 (0.038)	Data 0.022 (0.022) Loss
0.3904 (0.3904) Prec 87.500% (87.500%)	
Epoch: [88] [100/782] Time 0.044 (0.039)	Data 0.012 (0.013) Loss
0.2173 (0.2809) Prec 92.188% (90.084%)	
Epoch: [88] [200/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.1766 (0.2890) Prec 95.312% (90.003%)	
Epoch: [88] [300/782] Time 0.039 (0.039)	Data 0.013 (0.013) Loss
0.3881 (0.2929) Prec 85.938% (89.888%)	
Epoch: [88][400/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.4705 (0.2932) Prec 84.375% (89.830%)	
Epoch: [88][500/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.4715 (0.2941) Prec 82.812% (89.780%)	

0 4000 (0 0000) B 05 040W (00 000W)	Data 0.013 (0.013) Loss
0.1682 (0.2962) Prec 95.312% (89.668%) Epoch: [88] [700/782] Time 0.039 (0.039) 0.2961 (0.2983) Prec 87.500% (89.597%)	Data 0.012 (0.013) Loss
Validation starts	
Test: [0/157] Time 0.021 (0.021) Loss	0 4978 (0 4978) Prec 81 250%
(81.250%)	0.4370 (0.4370) 1160 01.200%
Test: [100/157] Time 0.019 (0.019) Loss	0.5274 (0.4495) Prec 79.688%
(85.736%)	1100 10100
* Prec 85.490%	
best acc: 86.520000	
Epoch: [89] [0/782] Time 0.033 (0.033)	Data 0.017 (0.017) Loss
0.2215 (0.2215) Prec 93.750% (93.750%)	
Epoch: [89] [100/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.1336 (0.2805) Prec 98.438% (90.176%)	
Epoch: [89] [200/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.3551 (0.2911) Prec 90.625% (89.793%)	
Epoch: [89] [300/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.5159 (0.2904) Prec 84.375% (89.872%)	
Epoch: [89] [400/782] Time 0.033 (0.039)	Data 0.012 (0.013) Loss
0.2444 (0.2959) Prec 90.625% (89.647%)	2404 01012 (01010) 2022
Epoch: [89] [500/782] Time 0.038 (0.039)	Data 0.013 (0.013) Loss
0.2580 (0.2982) Prec 90.625% (89.562%)	2404 01020 (01020, 2022
Epoch: [89] [600/782] Time 0.035 (0.039)	Data 0.012 (0.013) Loss
0.3065 (0.2978) Prec 87.500% (89.601%)	2404 0.012 (0.010) 2055
Epoch: [89] [700/782] Time 0.040 (0.039)	
	Data 0.014 (0.013) Loss
-	Data 0.014 (0.013) Loss
0.1874 (0.2983) Prec 92.188% (89.551%)	Data 0.014 (0.013) Loss
0.1874 (0.2983) Prec 92.188% (89.551%) Validation starts	
0.1874 (0.2983) Prec 92.188% (89.551%) Validation starts Test: [0/157] Time 0.024 (0.024) Loss	
0.1874 (0.2983) Prec 92.188% (89.551%) Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%)	0.3857 (0.3857) Prec 89.062%
0.1874 (0.2983) Prec 92.188% (89.551%) Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss	0.3857 (0.3857) Prec 89.062%
0.1874 (0.2983) Prec 92.188% (89.551%) Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (85.736%)	0.3857 (0.3857) Prec 89.062%
0.1874 (0.2983) Prec 92.188% (89.551%) Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (85.736%) * Prec 85.760%	0.3857 (0.3857) Prec 89.062%
0.1874 (0.2983) Prec 92.188% (89.551%) Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (85.736%) * Prec 85.760% best acc: 86.520000	0.3857 (0.3857) Prec 89.062% 0.5381 (0.4415) Prec 78.125%
0.1874 (0.2983) Prec 92.188% (89.551%) Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (85.736%) * Prec 85.760% best acc: 86.520000 Epoch: [90] [0/782] Time 0.035 (0.035)	0.3857 (0.3857) Prec 89.062%
0.1874 (0.2983) Prec 92.188% (89.551%) Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (85.736%) * Prec 85.760% best acc: 86.520000 Epoch: [90] [0/782] Time 0.035 (0.035) 0.4410 (0.4410) Prec 85.938% (85.938%)	0.3857 (0.3857) Prec 89.062% 0.5381 (0.4415) Prec 78.125% Data 0.015 (0.015) Loss
0.1874 (0.2983) Prec 92.188% (89.551%) Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (85.736%) * Prec 85.760% best acc: 86.520000 Epoch: [90] [0/782] Time 0.035 (0.035) 0.4410 (0.4410) Prec 85.938% (85.938%) Epoch: [90] [100/782] Time 0.039 (0.039)	0.3857 (0.3857) Prec 89.062% 0.5381 (0.4415) Prec 78.125%
0.1874 (0.2983) Prec 92.188% (89.551%) Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (85.736%) * Prec 85.760% best acc: 86.520000 Epoch: [90] [0/782] Time 0.035 (0.035) 0.4410 (0.4410) Prec 85.938% (85.938%) Epoch: [90] [100/782] Time 0.039 (0.039) 0.1385 (0.3034) Prec 95.312% (89.418%)	0.3857 (0.3857) Prec 89.062% 0.5381 (0.4415) Prec 78.125% Data 0.015 (0.015) Loss Data 0.019 (0.013) Loss
0.1874 (0.2983) Prec 92.188% (89.551%) Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (85.736%) * Prec 85.760% best acc: 86.520000 Epoch: [90] [0/782] Time 0.035 (0.035) 0.4410 (0.4410) Prec 85.938% (85.938%) Epoch: [90] [100/782] Time 0.039 (0.039) 0.1385 (0.3034) Prec 95.312% (89.418%) Epoch: [90] [200/782] Time 0.039 (0.039)	0.3857 (0.3857) Prec 89.062% 0.5381 (0.4415) Prec 78.125% Data 0.015 (0.015) Loss
0.1874 (0.2983) Prec 92.188% (89.551%) Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (85.736%) * Prec 85.760% best acc: 86.520000 Epoch: [90] [0/782] Time 0.035 (0.035) 0.4410 (0.4410) Prec 85.938% (85.938%) Epoch: [90] [100/782] Time 0.039 (0.039) 0.1385 (0.3034) Prec 95.312% (89.418%) Epoch: [90] [200/782] Time 0.039 (0.039) 0.2709 (0.2953) Prec 87.500% (89.770%)	0.3857 (0.3857) Prec 89.062% 0.5381 (0.4415) Prec 78.125% Data 0.015 (0.015) Loss Data 0.019 (0.013) Loss Data 0.012 (0.013) Loss
0.1874 (0.2983) Prec 92.188% (89.551%) Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (85.736%) * Prec 85.760% best acc: 86.520000 Epoch: [90] [0/782] Time 0.035 (0.035) 0.4410 (0.4410) Prec 85.938% (85.938%) Epoch: [90] [100/782] Time 0.039 (0.039) 0.1385 (0.3034) Prec 95.312% (89.418%) Epoch: [90] [200/782] Time 0.039 (0.039) 0.2709 (0.2953) Prec 87.500% (89.770%) Epoch: [90] [300/782] Time 0.039 (0.039)	0.3857 (0.3857) Prec 89.062% 0.5381 (0.4415) Prec 78.125% Data 0.015 (0.015) Loss Data 0.019 (0.013) Loss
0.1874 (0.2983) Prec 92.188% (89.551%) Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (85.736%) * Prec 85.760% best acc: 86.520000 Epoch: [90] [0/782] Time 0.035 (0.035) 0.4410 (0.4410) Prec 85.938% (85.938%) Epoch: [90] [100/782] Time 0.039 (0.039) 0.1385 (0.3034) Prec 95.312% (89.418%) Epoch: [90] [200/782] Time 0.039 (0.039) 0.2709 (0.2953) Prec 87.500% (89.770%)	0.3857 (0.3857) Prec 89.062% 0.5381 (0.4415) Prec 78.125% Data 0.015 (0.015) Loss Data 0.019 (0.013) Loss Data 0.012 (0.013) Loss
0.1874 (0.2983) Prec 92.188% (89.551%) Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (85.736%) * Prec 85.760% best acc: 86.520000 Epoch: [90] [0/782] Time 0.035 (0.035) 0.4410 (0.4410) Prec 85.938% (85.938%) Epoch: [90] [100/782] Time 0.039 (0.039) 0.1385 (0.3034) Prec 95.312% (89.418%) Epoch: [90] [200/782] Time 0.039 (0.039) 0.2709 (0.2953) Prec 87.500% (89.770%) Epoch: [90] [300/782] Time 0.039 (0.039) 0.3703 (0.2953) Prec 85.938% (89.711%)	0.3857 (0.3857) Prec 89.062% 0.5381 (0.4415) Prec 78.125% Data 0.015 (0.015) Loss Data 0.019 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss
0.1874 (0.2983) Prec 92.188% (89.551%) Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (85.736%) * Prec 85.760% best acc: 86.520000 Epoch: [90] [0/782] Time 0.035 (0.035) 0.4410 (0.4410) Prec 85.938% (85.938%) Epoch: [90] [100/782] Time 0.039 (0.039) 0.1385 (0.3034) Prec 95.312% (89.418%) Epoch: [90] [200/782] Time 0.039 (0.039) 0.2709 (0.2953) Prec 87.500% (89.770%) Epoch: [90] [300/782] Time 0.039 (0.039) 0.3703 (0.2953) Prec 85.938% (89.711%) Epoch: [90] [400/782] Time 0.039 (0.039)	0.3857 (0.3857) Prec 89.062% 0.5381 (0.4415) Prec 78.125% Data 0.015 (0.015) Loss Data 0.019 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss
O.1874 (0.2983) Prec 92.188% (89.551%) Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (85.736%) * Prec 85.760% best acc: 86.520000 Epoch: [90] [0/782] Time 0.035 (0.035) 0.4410 (0.4410) Prec 85.938% (85.938%) Epoch: [90] [100/782] Time 0.039 (0.039) 0.1385 (0.3034) Prec 95.312% (89.418%) Epoch: [90] [200/782] Time 0.039 (0.039) 0.2709 (0.2953) Prec 87.500% (89.770%) Epoch: [90] [300/782] Time 0.039 (0.039) 0.3703 (0.2953) Prec 85.938% (89.711%) Epoch: [90] [400/782] Time 0.039 (0.039) 0.4090 (0.2918) Prec 85.938% (89.815%)	0.3857 (0.3857) Prec 89.062% 0.5381 (0.4415) Prec 78.125% Data 0.015 (0.015) Loss Data 0.019 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.013 (0.013) Loss
0.1874 (0.2983) Prec 92.188% (89.551%) Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (85.736%) * Prec 85.760% best acc: 86.520000 Epoch: [90] [0/782] Time 0.035 (0.035) 0.4410 (0.4410) Prec 85.938% (85.938%) Epoch: [90] [100/782] Time 0.039 (0.039) 0.1385 (0.3034) Prec 95.312% (89.418%) Epoch: [90] [200/782] Time 0.039 (0.039) 0.2709 (0.2953) Prec 87.500% (89.770%) Epoch: [90] [300/782] Time 0.039 (0.039) 0.3703 (0.2953) Prec 85.938% (89.711%) Epoch: [90] [400/782] Time 0.039 (0.039) 0.4090 (0.2918) Prec 85.938% (89.815%) Epoch: [90] [500/782] Time 0.039 (0.039)	0.3857 (0.3857) Prec 89.062% 0.5381 (0.4415) Prec 78.125% Data 0.015 (0.015) Loss Data 0.019 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.013 (0.013) Loss
O.1874 (0.2983) Prec 92.188% (89.551%) Validation starts Test: [0/157] Time 0.024 (0.024) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (85.736%) * Prec 85.760% best acc: 86.520000 Epoch: [90] [0/782] Time 0.035 (0.035) 0.4410 (0.4410) Prec 85.938% (85.938%) Epoch: [90] [100/782] Time 0.039 (0.039) 0.1385 (0.3034) Prec 95.312% (89.418%) Epoch: [90] [200/782] Time 0.039 (0.039) 0.2709 (0.2953) Prec 87.500% (89.770%) Epoch: [90] [300/782] Time 0.039 (0.039) 0.3703 (0.2953) Prec 85.938% (89.711%) Epoch: [90] [400/782] Time 0.039 (0.039) 0.4090 (0.2918) Prec 85.938% (89.815%) Epoch: [90] [500/782] Time 0.039 (0.039) 0.4174 (0.2929) Prec 96.875% (89.752%)	0.3857 (0.3857) Prec 89.062% 0.5381 (0.4415) Prec 78.125% Data 0.015 (0.015) Loss Data 0.019 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss

Epoch: [90] [700/782] Time 0.039 (0.039) 0.1597 (0.2940) Prec 92.188% (89.814%)	Data 0.012 (0.013) Loss
Validation starts Test: [0/157] Time 0.023 (0.023) Loss (84.375%)	0.4385 (0.4385) Prec 84.375%
Test: [100/157] Time 0.018 (0.019) Loss	0.4309 (0.4422) Prec 84.375%
(86.077%)	
* Prec 86.250%	
best acc: 86.520000	D
Epoch: [91] [0/782] Time 0.031 (0.031)	Data 0.016 (0.016) Loss
0.2942 (0.2942) Prec 89.062% (89.062%)	Doto 0.012 (0.012) Logg
Epoch: [91][100/782] Time 0.039 (0.039) 0.3308 (0.2823) Prec 85.938% (89.898%)	Data 0.012 (0.013) Loss
Epoch: [91] [200/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.3031 (0.2828) Prec 87.500% (89.918%)	Data 0.012 (0.013) Loss
Epoch: [91] [300/782] Time 0.039 (0.039)	Data 0.019 (0.013) Loss
0.4086 (0.2825) Prec 85.938% (89.919%)	
Epoch: [91][400/782] Time 0.039 (0.039)	Data 0.019 (0.013) Loss
0.2248 (0.2827) Prec 87.500% (89.877%)	
Epoch: [91][500/782] Time 0.038 (0.039)	Data 0.019 (0.013) Loss
0.5290 (0.2870) Prec 85.938% (89.805%)	
Epoch: [91][600/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.2125 (0.2902) Prec 92.188% (89.676%)	
Epoch: [91][700/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.3231 (0.2910) Prec 89.062% (89.704%)	
Validation starts	
Validation starts Test: [0/157] Time 0.021 (0.021) Loss	0.4679 (0.4679) Prec 89.062%
Validation starts Test: [0/157] Time 0.021 (0.021) Loss (89.062%)	
Validation starts Test: [0/157] Time 0.021 (0.021) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss	
Validation starts Test: [0/157] Time 0.021 (0.021) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (84.406%)	
Validation starts Test: [0/157] Time 0.021 (0.021) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (84.406%) * Prec 84.530%	
Validation starts Test: [0/157] Time 0.021 (0.021) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (84.406%) * Prec 84.530% best acc: 86.520000	0.5150 (0.5006) Prec 81.250%
Validation starts Test: [0/157] Time 0.021 (0.021) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (84.406%) * Prec 84.530% best acc: 86.520000 Epoch: [92] [0/782] Time 0.035 (0.035)	
Validation starts Test: [0/157] Time 0.021 (0.021) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (84.406%) * Prec 84.530% best acc: 86.520000	0.5150 (0.5006) Prec 81.250%
Validation starts Test: [0/157] Time 0.021 (0.021) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (84.406%) * Prec 84.530% best acc: 86.520000 Epoch: [92] [0/782] Time 0.035 (0.035) 0.2908 (0.2908) Prec 90.625% (90.625%)	0.5150 (0.5006) Prec 81.250% Data 0.019 (0.019) Loss
Validation starts Test: [0/157] Time 0.021 (0.021) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (84.406%) * Prec 84.530% best acc: 86.520000 Epoch: [92] [0/782] Time 0.035 (0.035) 0.2908 (0.2908) Prec 90.625% (90.625%) Epoch: [92] [100/782] Time 0.044 (0.039)	0.5150 (0.5006) Prec 81.250% Data 0.019 (0.019) Loss
Validation starts Test: [0/157] Time 0.021 (0.021) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (84.406%) * Prec 84.530% best acc: 86.520000 Epoch: [92] [0/782] Time 0.035 (0.035) 0.2908 (0.2908) Prec 90.625% (90.625%) Epoch: [92] [100/782] Time 0.044 (0.039) 0.2068 (0.2816) Prec 92.188% (90.223%)	0.5150 (0.5006) Prec 81.250% Data 0.019 (0.019) Loss Data 0.019 (0.013) Loss
Validation starts Test: [0/157] Time 0.021 (0.021) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (84.406%) * Prec 84.530% best acc: 86.520000 Epoch: [92] [0/782] Time 0.035 (0.035) 0.2908 (0.2908) Prec 90.625% (90.625%) Epoch: [92] [100/782] Time 0.044 (0.039) 0.2068 (0.2816) Prec 92.188% (90.223%) Epoch: [92] [200/782] Time 0.040 (0.039) 0.2931 (0.2799) Prec 89.062% (90.135%) Epoch: [92] [300/782] Time 0.039 (0.039)	0.5150 (0.5006) Prec 81.250% Data 0.019 (0.019) Loss Data 0.019 (0.013) Loss
Validation starts Test: [0/157] Time 0.021 (0.021) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (84.406%) * Prec 84.530% best acc: 86.520000 Epoch: [92] [0/782] Time 0.035 (0.035) 0.2908 (0.2908) Prec 90.625% (90.625%) Epoch: [92] [100/782] Time 0.044 (0.039) 0.2068 (0.2816) Prec 92.188% (90.223%) Epoch: [92] [200/782] Time 0.040 (0.039) 0.2931 (0.2799) Prec 89.062% (90.135%) Epoch: [92] [300/782] Time 0.039 (0.039) 0.3134 (0.2853) Prec 89.062% (90.064%)	0.5150 (0.5006) Prec 81.250% Data 0.019 (0.019) Loss Data 0.019 (0.013) Loss Data 0.012 (0.013) Loss Data 0.019 (0.013) Loss
Validation starts Test: [0/157] Time 0.021 (0.021) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (84.406%) * Prec 84.530% best acc: 86.520000 Epoch: [92] [0/782] Time 0.035 (0.035) 0.2908 (0.2908) Prec 90.625% (90.625%) Epoch: [92] [100/782] Time 0.044 (0.039) 0.2068 (0.2816) Prec 92.188% (90.223%) Epoch: [92] [200/782] Time 0.040 (0.039) 0.2931 (0.2799) Prec 89.062% (90.135%) Epoch: [92] [300/782] Time 0.039 (0.039) 0.3134 (0.2853) Prec 89.062% (90.064%) Epoch: [92] [400/782] Time 0.039 (0.039)	0.5150 (0.5006) Prec 81.250% Data 0.019 (0.019) Loss Data 0.019 (0.013) Loss Data 0.012 (0.013) Loss
Validation starts Test: [0/157] Time 0.021 (0.021) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (84.406%) * Prec 84.530% best acc: 86.520000 Epoch: [92] [0/782] Time 0.035 (0.035) 0.2908 (0.2908) Prec 90.625% (90.625%) Epoch: [92] [100/782] Time 0.044 (0.039) 0.2068 (0.2816) Prec 92.188% (90.223%) Epoch: [92] [200/782] Time 0.040 (0.039) 0.2931 (0.2799) Prec 89.062% (90.135%) Epoch: [92] [300/782] Time 0.039 (0.039) 0.3134 (0.2853) Prec 89.062% (90.064%) Epoch: [92] [400/782] Time 0.039 (0.039) 0.5044 (0.2869) Prec 85.938% (90.005%)	0.5150 (0.5006) Prec 81.250% Data 0.019 (0.019) Loss Data 0.019 (0.013) Loss Data 0.012 (0.013) Loss Data 0.019 (0.013) Loss Data 0.019 (0.013) Loss
Validation starts Test: [0/157] Time 0.021 (0.021) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (84.406%) * Prec 84.530% best acc: 86.520000 Epoch: [92] [0/782] Time 0.035 (0.035) 0.2908 (0.2908) Prec 90.625% (90.625%) Epoch: [92] [100/782] Time 0.044 (0.039) 0.2068 (0.2816) Prec 92.188% (90.223%) Epoch: [92] [200/782] Time 0.040 (0.039) 0.2931 (0.2799) Prec 89.062% (90.135%) Epoch: [92] [300/782] Time 0.039 (0.039) 0.3134 (0.2853) Prec 89.062% (90.064%) Epoch: [92] [400/782] Time 0.039 (0.039) 0.5044 (0.2869) Prec 85.938% (90.005%) Epoch: [92] [500/782] Time 0.045 (0.039)	0.5150 (0.5006) Prec 81.250% Data 0.019 (0.019) Loss Data 0.019 (0.013) Loss Data 0.012 (0.013) Loss Data 0.019 (0.013) Loss
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Validation starts Test: [0/157] Time 0.021 (0.021) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (84.406%) * Prec 84.530% best acc: 86.520000 Epoch: [92] [0/782] Time 0.035 (0.035) 0.2908 (0.2908) Prec 90.625% (90.625%) Epoch: [92] [100/782] Time 0.044 (0.039) 0.2068 (0.2816) Prec 92.188% (90.223%) Epoch: [92] [200/782] Time 0.040 (0.039) 0.2931 (0.2799) Prec 89.062% (90.135%) Epoch: [92] [300/782] Time 0.039 (0.039) 0.3134 (0.2853) Prec 89.062% (90.064%) Epoch: [92] [400/782] Time 0.039 (0.039) 0.5044 (0.2869) Prec 85.938% (90.005%) Epoch: [92] [500/782] Time 0.045 (0.039) 0.5172 (0.2934) Prec 85.938% (89.736%) Epoch: [92] [600/782] Time 0.040 (0.039)	0.5150 (0.5006) Prec 81.250% Data 0.019 (0.019) Loss Data 0.019 (0.013) Loss Data 0.012 (0.013) Loss Data 0.019 (0.013) Loss Data 0.019 (0.013) Loss
<pre>Validation starts Test: [0/157] Time 0.021 (0.021) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (84.406%) * Prec 84.530% best acc: 86.520000 Epoch: [92] [0/782] Time 0.035 (0.035) 0.2908 (0.2908) Prec 90.625% (90.625%) Epoch: [92] [100/782] Time 0.044 (0.039) 0.2068 (0.2816) Prec 92.188% (90.223%) Epoch: [92] [200/782] Time 0.040 (0.039) 0.2931 (0.2799) Prec 89.062% (90.135%) Epoch: [92] [300/782] Time 0.039 (0.039) 0.3134 (0.2853) Prec 89.062% (90.064%) Epoch: [92] [400/782] Time 0.039 (0.039) 0.5044 (0.2869) Prec 85.938% (90.005%) Epoch: [92] [500/782] Time 0.045 (0.039) 0.5172 (0.2934) Prec 85.938% (89.736%) Epoch: [92] [600/782] Time 0.040 (0.039) 0.1634 (0.2932) Prec 92.188% (89.806%)</pre>	Data 0.019 (0.019) Loss Data 0.019 (0.013) Loss Data 0.012 (0.013) Loss Data 0.019 (0.013) Loss Data 0.019 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss
Validation starts Test: [0/157] Time 0.021 (0.021) Loss (89.062%) Test: [100/157] Time 0.018 (0.019) Loss (84.406%) * Prec 84.530% best acc: 86.520000 Epoch: [92] [0/782] Time 0.035 (0.035) 0.2908 (0.2908) Prec 90.625% (90.625%) Epoch: [92] [100/782] Time 0.044 (0.039) 0.2068 (0.2816) Prec 92.188% (90.223%) Epoch: [92] [200/782] Time 0.040 (0.039) 0.2931 (0.2799) Prec 89.062% (90.135%) Epoch: [92] [300/782] Time 0.039 (0.039) 0.3134 (0.2853) Prec 89.062% (90.064%) Epoch: [92] [400/782] Time 0.039 (0.039) 0.5044 (0.2869) Prec 85.938% (90.005%) Epoch: [92] [500/782] Time 0.045 (0.039) 0.5172 (0.2934) Prec 85.938% (89.736%) Epoch: [92] [600/782] Time 0.040 (0.039)	0.5150 (0.5006) Prec 81.250% Data 0.019 (0.019) Loss Data 0.019 (0.013) Loss Data 0.012 (0.013) Loss Data 0.019 (0.013) Loss Data 0.012 (0.013) Loss Data 0.012 (0.013) Loss

Validation starts Test: [0/157] Time 0.024 (0.024) Loss	0.4067 (0.4067) Prec 85.938%
(85.938%)	
Test: [100/157] Time 0.018 (0.019) Loss	0.4663 (0.4844) Prec 82.812%
(84.127%)	
* Prec 84.170%	
best acc: 86.520000	
Epoch: [93][0/782] Time 0.032 (0.032)	Data 0.016 (0.016) Loss
0.4220 (0.4220) Prec 81.250% (81.250%)	
Epoch: [93] [100/782] Time 0.038 (0.039)	Data 0.012 (0.013) Loss
0.3328 (0.2820) Prec 87.500% (90.084%)	7
Epoch: [93] [200/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.3779 (0.2763) Prec 85.938% (90.337%)	D-+- 0 040 (0 042)
Epoch: [93] [300/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.3597 (0.2943) Prec 87.500% (89.768%) Epoch: [93] [400/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.3810 (0.2921) Prec 89.062% (89.842%)	Data 0.012 (0.013) Loss
Epoch: [93] [500/782] Time 0.039 (0.039)	Data 0.012 (0.013) Loss
0.3693 (0.2922) Prec 90.625% (89.911%)	Data 0.012 (0.010) LOBS
Epoch: [93] [600/782] Time 0.044 (0.039)	Data 0.012 (0.013) Loss
0.4032 (0.2921) Prec 87.500% (89.900%)	2000 00012 (00010), 2002
Epoch: [93][700/782] Time 0.039 (0.039)	Data 0.019 (0.013) Loss
0.4109 (0.2926) Prec 89.062% (89.874%)	
Validation starts	
Test: [0/157] Time 0.023 (0.023) Loss	0 4000 (0 4000) B 00 000W
1650. [0/107] 11me 0.020 (0.020) Loss	0.4206 (0.4206) Prec 89.062%
(89.062%)	0.4206 (0.4206) Prec 89.062%
(89.062%)	
(89.062%) Test: [100/157] Time 0.018 (0.019) Loss	
(89.062%) Test: [100/157] Time 0.018 (0.019) Loss (86.510%) * Prec 86.680% best acc: 86.680000	0.4421 (0.4131) Prec 84.375%
(89.062%) Test: [100/157] Time 0.018 (0.019) Loss (86.510%) * Prec 86.680% best acc: 86.680000 Epoch: [94] [0/782] Time 0.037 (0.037)	
(89.062%) Test: [100/157] Time 0.018 (0.019) Loss (86.510%) * Prec 86.680% best acc: 86.680000 Epoch: [94][0/782] Time 0.037 (0.037) 0.3582 (0.3582) Prec 92.188% (92.188%)	0.4421 (0.4131) Prec 84.375% Data 0.016 (0.016) Loss
(89.062%) Test: [100/157] Time 0.018 (0.019) Loss (86.510%) * Prec 86.680% best acc: 86.680000 Epoch: [94] [0/782] Time 0.037 (0.037) 0.3582 (0.3582) Prec 92.188% (92.188%) Epoch: [94] [100/782] Time 0.036 (0.039)	0.4421 (0.4131) Prec 84.375%
(89.062%) Test: [100/157] Time 0.018 (0.019) Loss (86.510%) * Prec 86.680% best acc: 86.680000 Epoch: [94] [0/782] Time 0.037 (0.037) 0.3582 (0.3582) Prec 92.188% (92.188%) Epoch: [94] [100/782] Time 0.036 (0.039) 0.3211 (0.2851) Prec 90.625% (89.960%)	0.4421 (0.4131) Prec 84.375% Data 0.016 (0.016) Loss Data 0.012 (0.013) Loss
(89.062%) Test: [100/157] Time 0.018 (0.019) Loss (86.510%) * Prec 86.680% best acc: 86.680000 Epoch: [94] [0/782] Time 0.037 (0.037) 0.3582 (0.3582) Prec 92.188% (92.188%) Epoch: [94] [100/782] Time 0.036 (0.039) 0.3211 (0.2851) Prec 90.625% (89.960%) Epoch: [94] [200/782] Time 0.039 (0.039)	0.4421 (0.4131) Prec 84.375% Data 0.016 (0.016) Loss
(89.062%) Test: [100/157] Time 0.018 (0.019) Loss (86.510%) * Prec 86.680% best acc: 86.680000 Epoch: [94] [0/782] Time 0.037 (0.037) 0.3582 (0.3582) Prec 92.188% (92.188%) Epoch: [94] [100/782] Time 0.036 (0.039) 0.3211 (0.2851) Prec 90.625% (89.960%) Epoch: [94] [200/782] Time 0.039 (0.039) 0.5305 (0.2804) Prec 81.250% (90.236%)	0.4421 (0.4131) Prec 84.375% Data 0.016 (0.016) Loss Data 0.012 (0.013) Loss Data 0.011 (0.013) Loss
(89.062%) Test: [100/157] Time 0.018 (0.019) Loss (86.510%) * Prec 86.680% best acc: 86.680000 Epoch: [94] [0/782] Time 0.037 (0.037) 0.3582 (0.3582) Prec 92.188% (92.188%) Epoch: [94] [100/782] Time 0.036 (0.039) 0.3211 (0.2851) Prec 90.625% (89.960%) Epoch: [94] [200/782] Time 0.039 (0.039) 0.5305 (0.2804) Prec 81.250% (90.236%) Epoch: [94] [300/782] Time 0.039 (0.039)	0.4421 (0.4131) Prec 84.375% Data 0.016 (0.016) Loss Data 0.012 (0.013) Loss Data 0.011 (0.013) Loss
(89.062%) Test: [100/157] Time 0.018 (0.019) Loss (86.510%) * Prec 86.680% best acc: 86.680000 Epoch: [94] [0/782] Time 0.037 (0.037) 0.3582 (0.3582) Prec 92.188% (92.188%) Epoch: [94] [100/782] Time 0.036 (0.039) 0.3211 (0.2851) Prec 90.625% (89.960%) Epoch: [94] [200/782] Time 0.039 (0.039) 0.5305 (0.2804) Prec 81.250% (90.236%) Epoch: [94] [300/782] Time 0.039 (0.039) 0.2807 (0.2853) Prec 89.062% (90.121%)	0.4421 (0.4131) Prec 84.375% Data 0.016 (0.016) Loss Data 0.012 (0.013) Loss Data 0.011 (0.013) Loss Data 0.013 (0.013) Loss
(89.062%) Test: [100/157] Time 0.018 (0.019) Loss (86.510%) * Prec 86.680% best acc: 86.680000 Epoch: [94] [0/782] Time 0.037 (0.037) 0.3582 (0.3582) Prec 92.188% (92.188%) Epoch: [94] [100/782] Time 0.036 (0.039) 0.3211 (0.2851) Prec 90.625% (89.960%) Epoch: [94] [200/782] Time 0.039 (0.039) 0.5305 (0.2804) Prec 81.250% (90.236%) Epoch: [94] [300/782] Time 0.039 (0.039) 0.2807 (0.2853) Prec 89.062% (90.121%) Epoch: [94] [400/782] Time 0.039 (0.039)	0.4421 (0.4131) Prec 84.375% Data 0.016 (0.016) Loss Data 0.012 (0.013) Loss Data 0.011 (0.013) Loss Data 0.013 (0.013) Loss
(89.062%) Test: [100/157] Time 0.018 (0.019) Loss (86.510%) * Prec 86.680% best acc: 86.680000 Epoch: [94] [0/782] Time 0.037 (0.037) 0.3582 (0.3582) Prec 92.188% (92.188%) Epoch: [94] [100/782] Time 0.036 (0.039) 0.3211 (0.2851) Prec 90.625% (89.960%) Epoch: [94] [200/782] Time 0.039 (0.039) 0.5305 (0.2804) Prec 81.250% (90.236%) Epoch: [94] [300/782] Time 0.039 (0.039) 0.2807 (0.2853) Prec 89.062% (90.121%) Epoch: [94] [400/782] Time 0.039 (0.039) 0.1638 (0.2864) Prec 96.875% (90.044%)	Data 0.016 (0.016) Loss Data 0.012 (0.013) Loss Data 0.011 (0.013) Loss Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss
(89.062%) Test: [100/157] Time 0.018 (0.019) Loss (86.510%) * Prec 86.680% best acc: 86.680000 Epoch: [94] [0/782] Time 0.037 (0.037) 0.3582 (0.3582) Prec 92.188% (92.188%) Epoch: [94] [100/782] Time 0.036 (0.039) 0.3211 (0.2851) Prec 90.625% (89.960%) Epoch: [94] [200/782] Time 0.039 (0.039) 0.5305 (0.2804) Prec 81.250% (90.236%) Epoch: [94] [300/782] Time 0.039 (0.039) 0.2807 (0.2853) Prec 89.062% (90.121%) Epoch: [94] [400/782] Time 0.039 (0.039) 0.1638 (0.2864) Prec 96.875% (90.044%) Epoch: [94] [500/782] Time 0.044 (0.039)	Data 0.016 (0.016) Loss Data 0.012 (0.013) Loss Data 0.011 (0.013) Loss Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss
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Test: [100/157] Time 0.018 (0.019) Loss (86.510%) * Prec 86.680% best acc: 86.680000 Epoch: [94] [0/782] Time 0.037 (0.037) 0.3582 (0.3582) Prec 92.188% (92.188%) Epoch: [94] [100/782] Time 0.036 (0.039) 0.3211 (0.2851) Prec 90.625% (89.960%) Epoch: [94] [200/782] Time 0.039 (0.039) 0.5305 (0.2804) Prec 81.250% (90.236%) Epoch: [94] [300/782] Time 0.039 (0.039) 0.2807 (0.2853) Prec 89.062% (90.121%) Epoch: [94] [400/782] Time 0.039 (0.039) 0.1638 (0.2864) Prec 96.875% (90.044%) Epoch: [94] [500/782] Time 0.044 (0.039) 0.4299 (0.2925) Prec 87.500% (89.901%) Epoch: [94] [600/782] Time 0.039 (0.039) 0.2922 (0.2937) Prec 89.062% (89.837%) Epoch: [94] [700/782] Time 0.044 (0.039) 0.2595 (0.2923) Prec 90.625% (89.910%)	Data 0.016 (0.016) Loss Data 0.012 (0.013) Loss Data 0.011 (0.013) Loss Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss Data 0.019 (0.013) Loss Data 0.019 (0.013) Loss Data 0.013 (0.013) Loss
Test: [100/157] Time 0.018 (0.019) Loss (86.510%) * Prec 86.680% best acc: 86.680000 Epoch: [94] [0/782] Time 0.037 (0.037) 0.3582 (0.3582) Prec 92.188% (92.188%) Epoch: [94] [100/782] Time 0.036 (0.039) 0.3211 (0.2851) Prec 90.625% (89.960%) Epoch: [94] [200/782] Time 0.039 (0.039) 0.5305 (0.2804) Prec 81.250% (90.236%) Epoch: [94] [300/782] Time 0.039 (0.039) 0.2807 (0.2853) Prec 89.062% (90.121%) Epoch: [94] [400/782] Time 0.039 (0.039) 0.1638 (0.2864) Prec 96.875% (90.044%) Epoch: [94] [500/782] Time 0.044 (0.039) 0.4299 (0.2925) Prec 87.500% (89.901%) Epoch: [94] [600/782] Time 0.039 (0.039) 0.2922 (0.2937) Prec 89.062% (89.837%) Epoch: [94] [700/782] Time 0.044 (0.039)	0.4421 (0.4131) Prec 84.375% Data 0.016 (0.016) Loss Data 0.012 (0.013) Loss Data 0.011 (0.013) Loss Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss Data 0.019 (0.013) Loss Data 0.019 (0.013) Loss Data 0.013 (0.013) Loss Data 0.013 (0.013) Loss

(87.500%)Test: [100/157] Time 0.018 (0.019) Loss 0.5163 (0.4382) Prec 82.812% (85.829%)* Prec 85.730% best acc: 86.680000 Epoch: [95] [0/782] Data 0.020 (0.020) Time 0.041 (0.041) Loss 0.3601 (0.3601) Prec 85.938% (85.938%) Epoch: [95] [100/782] Time 0.039 (0.039)Data 0.012 (0.013) Loss 0.3073 (0.2704) Prec 90.625% (90.579%) Data 0.019 (0.013) Epoch: [95] [200/782] Time 0.039 (0.039)Loss 0.2793 (0.2842) Prec 90.625% (90.081%) Epoch: [95] [300/782] Time 0.039 (0.039)Data 0.012 (0.013) Loss 0.2000 (0.2832) Prec 92.188% (90.018%) Epoch: [95] [400/782] Data 0.014 (0.013) Time 0.045 (0.039) Loss 0.3217 (0.2842) Prec 87.500% (90.005%) Epoch: [95] [500/782] Time 0.037 (0.039)Data 0.012 (0.013) Loss 0.3408 (0.2882) Prec 79.688% (89.917%) Epoch: [95] [600/782] Time 0.039 (0.039)Data 0.012 (0.013) Loss 0.2595 (0.2901) Prec 95.312% (89.897%) Data 0.012 (0.013) Epoch: [95] [700/782] Time 0.038 (0.039)Loss 0.3265 (0.2894) Prec 89.062% (89.887%) Validation starts Test: [0/157] Time 0.023 (0.023) Loss 0.4881 (0.4881) Prec 87.500% (87.500%)Test: [100/157] Time 0.019 (0.019) Loss 0.6098 (0.4805) Prec 78.125% (84.236%) * Prec 84.290% best acc: 86.680000 Epoch: [96] [0/782] Data 0.022 (0.022) Time 0.039 (0.039) Loss 0.2504 (0.2504) Prec 92.188% (92.188%) Epoch: [96] [100/782] Time 0.038 (0.039)Data 0.012 (0.013) Loss 0.2516 (0.2841) Prec 89.062% (89.650%) Data 0.013 (0.013) Epoch: [96] [200/782] Time 0.038 (0.039)Loss 0.4068 (0.2878) Prec 84.375% (89.894%) Epoch: [96] [300/782] Time 0.033 (0.039)Data 0.012 (0.013) Loss 0.3148 (0.2883) Prec 89.062% (89.971%) Epoch: [96] [400/782] Data 0.012 (0.013) Time 0.034 (0.039)Loss 0.2892 (0.2910) Prec 89.062% (89.900%) Epoch: [96] [500/782] Time 0.033 (0.039)Data 0.012 (0.013) Loss 0.2944 (0.2905) Prec 89.062% (89.914%) Epoch: [96] [600/782] Time 0.040 (0.039)Data 0.012 (0.013) Loss 0.1926 (0.2937) Prec 92.188% (89.845%) Epoch: [96] [700/782] Time 0.034 (0.039)Data 0.012 (0.013) Loss 0.3894 (0.2938) Prec 85.938% (89.878%)

KeyboardInterrupt Traceback (most recent call last)

```
Cell In[2], line 4
            1 criterion = nn.CrossEntropyLoss()
           2 optimizer = torch.optim.AdamW(model.parameters(), lr=lr)
     ----> 4 train_model(model, fdir, criterion, optimizer, epochs, prune_schedule)
     Cell In[1], line 214, in train model (model, fdir, criterion, optimizer, epochs,
       ⇔prune schedule)
         211 if prune_schedule is not None and epoch in prune_schedule:
                  os_prune_vgg16(model, prune_schedule[epoch])
     --> 214 train(trainloader, model, criterion, optimizer, epoch)
         216 # evaluate on test set
         217 print("Validation starts")
     Cell In[1], line 91, in train(trainloader, model, criterion, optimizer, epoch)
           89 # measure accuracy and record loss
          90 prec = accuracy(output, target)[0]
      ---> 91 losses.update(loss.item(), input.size(0))
          92 top1.update(prec.item(), input.size(0))
          94 # compute gradient and do SGD step
     KeyboardInterrupt:
[3]: model = VGG16()
     os_prune_vgg16(model, 0.78)
     PATH = f"{fdir}/model_best.pth.tar"
     checkpoint = torch.load(PATH)
     model.load_state_dict(checkpoint['state_dict'])
     model.cuda()
     val model(model)
    print_sparsity(model)
    Pruning 50 ic-slices out of 64 ic-slices (78.1% pruned)
    Pruning 50 ic-slices out of 64 ic-slices (78.1% pruned)
    Pruning 100 ic-slices out of 128 ic-slices (78.1% pruned)
    Pruning 100 ic-slices out of 128 ic-slices (78.1% pruned)
    Pruning 200 ic-slices out of 256 ic-slices (78.1% pruned)
    Pruning 200 ic-slices out of 256 ic-slices (78.1% pruned)
    Pruning 200 ic-slices out of 256 ic-slices (78.1% pruned)
    Pruning 399 ic-slices out of 512 ic-slices (77.9% pruned)
    Pruning 399 ic-slices out of 512 ic-slices (77.9% pruned)
    Pruning 399 ic-slices out of 512 ic-slices (77.9% pruned)
    Pruning 399 ic-slices out of 512 ic-slices (77.9% pruned)
    Pruning 399 ic-slices out of 512 ic-slices (77.9% pruned)
```

/tmp/ipykernel_39922/3582425983.py:5: FutureWarning: You are using `torch.load`

with `weights_only=False` (the current default value), which uses the default pickle module implicitly. It is possible to construct malicious pickle data which will execute arbitrary code during unpickling (See https://github.com/pytorch/pytorch/blob/main/SECURITY.md#untrusted-models for more details). In a future release, the default value for `weights_only` will be flipped to `True`. This limits the functions that could be executed during unpickling. Arbitrary objects will no longer be allowed to be loaded via this mode unless they are explicitly allowlisted by the user via `torch.serialization.add_safe_globals`. We recommend you start setting `weights_only=True` for any use case where you don't have full control of the loaded file. Please open an issue on GitHub for any issues related to this experimental feature.

checkpoint = torch.load(PATH)

Test set: Accuracy: 8668/10000 (87%)

layer 3 sparsity: 0.781
layer 7 sparsity: 0.781
layer 10 sparsity: 0.773
layer 14 sparsity: 0.773
layer 17 sparsity: 0.773
layer 20 sparsity: 0.773
layer 24 sparsity: 0.773
layer 27 sparsity: 0.777
layer 30 sparsity: 0.777
layer 34 sparsity: 0.777
layer 37 sparsity: 0.777
layer 40 sparsity: 0.777