MOMENTUM = 0.3 & LEARNING = 0.8 \* 1/(1 + 0.05 \* epoch);

COMPLETE NETWORK

Random number generator seed: 102194

277 images in training set

139 images in test1 set

208 images in test2 set

creating net

Training underway (going to 100 epochs)

Will save network every 100 epochs

0 0.0

epoch: 0% | learning rate: 0.800000

result on trainlist:

0.722022% 275 0.303511%

result on testlist:

0% 139 0.308949%

epoch: 1% | learning rate: 0.761905

result on trainlist:

0% 277 0.294126%

result on testlist:

0% 139 0.296601%

epoch: 2% | learning rate: 0.727273

result on trainlist:

6.13718% 260 0.39169%

result on testlist:

2.8777% 135 0.398943%

epoch: 3% | learning rate: 0.695652

result on trainlist:

10.8303% 247 0.274948%

result on testlist:

7.91367% 128 0.280744%

epoch: 4% | learning rate: 0.666667

result on trainlist:

6.13718% 260 0.274353%

result on testlist:

2.15827% 136 0.282244%

epoch: 5% | learning rate: 0.640000

result on trainlist:

6.13718% 260 0.273682%

result on testlist:

2.15827% 136 0.283495%

epoch: 6% | learning rate: 0.615385

result on trainlist:

6.13718% 260 0.269103%

result on testlist:

2.15827% 136 0.279354%

epoch: 7% | learning rate: 0.592593

result on trainlist:

7.22022% 257 0.268199%

result on testlist:

2.8777% 135 0.278404%

epoch: 8% | learning rate: 0.571429

result on trainlist:

7.22022% 257 0.265612%

result on testlist:

3.59712% 134 0.274496%

epoch: 9% | learning rate: 0.551724

result on trainlist:

9.38628% 251 0.254031%

result on testlist:

6.47482% 130 0.267223%

epoch: 10% | learning rate: 0.533333

result on trainlist:

12.9964% 241 0.248518%

result on testlist:

8.63309% 127 0.263849%

epoch: 11% | learning rate: 0.516129

result on trainlist:

10.1083% 249 0.241005%

result on testlist:

8.63309% 127 0.253319%

epoch: 12% | learning rate: 0.500000

result on trainlist:

14.0794% 238 0.237339%

result on testlist:

11.5108% 123 0.248825%

epoch: 13% | learning rate: 0.484848

result on trainlist:

15.8845% 233 0.231913%

result on testlist:

12.9496% 121 0.244343%

epoch: 14% | learning rate: 0.470588

result on trainlist:

22.7437% 214 0.217392%

result on testlist:

20.8633% 110 0.22764%

epoch: 15% | learning rate: 0.457143

result on trainlist:

23.1047% 213 0.211178%

result on testlist:

20.8633% 110 0.221476%

epoch: 16% | learning rate: 0.444444

result on trainlist:

24.1877% 210 0.217294%

result on testlist:

20.1439% 111 0.229601%

epoch: 17% | learning rate: 0.432432

result on trainlist:

25.6318% 206 0.203626%

result on testlist:

23.0216% 107 0.216153%

epoch: 18% | learning rate: 0.421053

result on trainlist:

27.0758% 202 0.201915%

result on testlist:

23.741% 106 0.212349%

epoch: 19% | learning rate: 0.410256

result on trainlist:

27.7978% 200 0.196443%

result on testlist:

25.8993% 103 0.209466%

epoch: 20% | learning rate: 0.400000

result on trainlist:

33.213% 185 0.19407%

result on testlist:

31.6547% 95 0.206526%

epoch: 21% | learning rate: 0.390244

result on trainlist:

29.2419% 196 0.192514%

result on testlist:

27.3381% 101 0.202308%

epoch: 22% | learning rate: 0.380952

result on trainlist:

35.7401% 178 0.187226%

result on testlist:

32.3741% 94 0.198354%

epoch: 23% | learning rate: 0.372093

result on trainlist:

35.3791% 179 0.186667%

result on testlist:

31.6547% 95 0.196655%

epoch: 24% | learning rate: 0.363636

result on trainlist:

36.1011% 177 0.182468%

result on testlist:

32.3741% 94 0.193528%

epoch: 25% | learning rate: 0.355556

result on trainlist:

36.1011% 177 0.181629%

result on testlist:

32.3741% 94 0.191968%

epoch: 26% | learning rate: 0.347826

result on trainlist:

39.3502% 168 0.182377%

result on testlist:

36.6906% 88 0.192979%

epoch: 27% | learning rate: 0.340426

result on trainlist:

41.5162% 162 0.182984%

result on testlist:

35.9712% 89 0.197568%

epoch: 28% | learning rate: 0.333333

result on trainlist:

42.9603% 158 0.177882%

result on testlist:

40.2878% 83 0.187555%

epoch: 29% | learning rate: 0.326531

result on trainlist:

43.6823% 156 0.176719%

result on testlist:

41.7266% 81 0.187364%

epoch: 30% | learning rate: 0.320000

result on trainlist:

43.6823% 156 0.175407%

result on testlist:

41.7266% 81 0.186312%

epoch: 31% | learning rate: 0.313725

result on trainlist:

44.4043% 154 0.176519%

result on testlist:

41.0072% 82 0.18902%

epoch: 32% | learning rate: 0.307692

result on trainlist:

45.4874% 151 0.173628%

result on testlist:

43.8849% 78 0.183238%

epoch: 33% | learning rate: 0.301887

result on trainlist:

49.4585% 140 0.167841%

result on testlist:

46.0432% 75 0.180901%

epoch: 34% | learning rate: 0.296296

result on trainlist:

40.4332% 165 0.195206%

result on testlist:

35.9712% 89 0.20922%

epoch: 35% | learning rate: 0.290909

result on trainlist:

48.7365% 142 0.164979%

result on testlist:

43.8849% 78 0.179272%

epoch: 36% | learning rate: 0.285714

result on trainlist:

50.9025% 136 0.156297%

result on testlist:

46.7626% 74 0.170138%

epoch: 37% | learning rate: 0.280702

result on trainlist:

51.6245% 134 0.157804%

result on testlist:

45.3237% 76 0.174681%

epoch: 38% | learning rate: 0.275862

result on trainlist:

53.7906% 128 0.151917%

result on testlist:

46.7626% 74 0.170726%

epoch: 39% | learning rate: 0.271186

result on trainlist:

53.4296% 129 0.152011%

result on testlist:

48.9209% 71 0.168532%

epoch: 40% | learning rate: 0.266667

result on trainlist:

54.8736% 125 0.147286%

result on testlist:

51.0791% 68 0.162843%

epoch: 41% | learning rate: 0.262295

result on trainlist:

55.2347% 124 0.145406%

result on testlist:

51.7986% 67 0.160017%

epoch: 42% | learning rate: 0.258065

result on trainlist:

55.2347% 124 0.144677%

result on testlist:

51.0791% 68 0.16092%

epoch: 43% | learning rate: 0.253968

result on trainlist:

55.2347% 124 0.143369%

result on testlist:

50.3597% 69 0.160357%

epoch: 44% | learning rate: 0.250000

result on trainlist:

56.3177% 121 0.138128%

result on testlist:

53.9568% 64 0.15363%

epoch: 45% | learning rate: 0.246154

result on trainlist:

56.3177% 121 0.137093%

result on testlist:

52.518% 66 0.154755%

epoch: 46% | learning rate: 0.242424

result on trainlist:

60.6498% 109 0.13575%

result on testlist:

55.3957% 62 0.151785%

epoch: 47% | learning rate: 0.238806

result on trainlist:

60.2888% 110 0.134931%

result on testlist:

56.1151% 61 0.15108%

epoch: 48% | learning rate: 0.235294

result on trainlist:

61.0108% 108 0.133662%

result on testlist:

56.8345% 60 0.149779%

epoch: 49% | learning rate: 0.231884

result on trainlist:

66.065% 94 0.132634%

result on testlist:

61.1511% 54 0.148611%

epoch: 50% | learning rate: 0.228571

result on trainlist:

66.065% 94 0.131996%

result on testlist:

61.1511% 54 0.148307%

epoch: 51% | learning rate: 0.225352

result on trainlist:

66.065% 94 0.131698%

result on testlist:

60.4317% 55 0.148852%

epoch: 52% | learning rate: 0.222222

result on trainlist:

66.426% 93 0.130996%

result on testlist:

61.1511% 54 0.14783%

epoch: 53% | learning rate: 0.219178

result on trainlist:

66.065% 94 0.130813%

result on testlist:

61.8705% 53 0.145509%

epoch: 54% | learning rate: 0.216216

result on trainlist:

66.426% 93 0.129859%

result on testlist:

61.8705% 53 0.146707%

epoch: 55% | learning rate: 0.213333

result on trainlist:

66.426% 93 0.129864%

result on testlist:

60.4317% 55 0.147979%

epoch: 56% | learning rate: 0.210526

result on trainlist:

66.065% 94 0.129792%

result on testlist:

60.4317% 55 0.148675%

epoch: 57% | learning rate: 0.207792

result on trainlist:

66.426% 93 0.128914%

result on testlist:

61.1511% 54 0.145721%

epoch: 58% | learning rate: 0.205128

result on trainlist:

66.426% 93 0.128602%

result on testlist:

61.8705% 53 0.14469%

epoch: 59% | learning rate: 0.202532

result on trainlist:

66.426% 93 0.12841%

result on testlist:

61.1511% 54 0.147012%

epoch: 60% | learning rate: 0.200000

result on trainlist:

66.426% 93 0.127956%

result on testlist:

61.8705% 53 0.145029%

epoch: 61% | learning rate: 0.197531

result on trainlist:

66.426% 93 0.128057%

result on testlist:

60.4317% 55 0.146725%

epoch: 62% | learning rate: 0.195122

result on trainlist:

66.426% 93 0.127526%

result on testlist:

61.1511% 54 0.145219%

epoch: 63% | learning rate: 0.192771

result on trainlist:

66.426% 93 0.127449%

result on testlist:

61.1511% 54 0.144782%

epoch: 64% | learning rate: 0.190476

result on trainlist:

66.426% 93 0.127237%

result on testlist:

61.8705% 53 0.145172%

epoch: 65% | learning rate: 0.188235

result on trainlist:

66.426% 93 0.127486%

result on testlist:

60.4317% 55 0.149269%

epoch: 66% | learning rate: 0.186047

result on trainlist:

66.065% 94 0.12761%

result on testlist:

61.8705% 53 0.14437%

epoch: 67% | learning rate: 0.183908

result on trainlist:

66.426% 93 0.126923%

result on testlist:

61.8705% 53 0.145415%

epoch: 68% | learning rate: 0.181818

result on trainlist:

66.426% 93 0.126415%

result on testlist:

62.5899% 52 0.144434%

epoch: 69% | learning rate: 0.179775

result on trainlist:

66.426% 93 0.126845%

result on testlist:

61.1511% 54 0.147211%

epoch: 70% | learning rate: 0.177778

result on trainlist:

66.426% 93 0.126226%

result on testlist:

62.5899% 52 0.144074%

epoch: 71% | learning rate: 0.175824

result on trainlist:

66.426% 93 0.1263%

result on testlist:

61.8705% 53 0.144116%

epoch: 72% | learning rate: 0.173913

result on trainlist:

66.426% 93 0.12625%

result on testlist:

61.8705% 53 0.146269%

epoch: 73% | learning rate: 0.172043

result on trainlist:

66.426% 93 0.126002%

result on testlist:

61.8705% 53 0.14398%

epoch: 74% | learning rate: 0.170213

result on trainlist:

66.426% 93 0.12618%

result on testlist:

61.1511% 54 0.146714%

epoch: 75% | learning rate: 0.168421

result on trainlist:

66.426% 93 0.125722%

result on testlist:

62.5899% 52 0.143206%

epoch: 76% | learning rate: 0.166667

result on trainlist:

66.426% 93 0.125522%

result on testlist:

62.5899% 52 0.144913%

epoch: 77% | learning rate: 0.164948

result on trainlist:

66.426% 93 0.125476%

result on testlist:

62.5899% 52 0.143306%

epoch: 78% | learning rate: 0.163265

result on trainlist:

66.426% 93 0.126534%

result on testlist:

62.5899% 52 0.146595%

epoch: 79% | learning rate: 0.161616

result on trainlist:

66.426% 93 0.125472%

result on testlist:

61.8705% 53 0.145175%

epoch: 80% | learning rate: 0.160000

result on trainlist:

66.426% 93 0.125195%

result on testlist:

62.5899% 52 0.143422%

epoch: 81% | learning rate: 0.158416

result on trainlist:

66.426% 93 0.125182%

result on testlist:

61.8705% 53 0.146367%

epoch: 82% | learning rate: 0.156863

result on trainlist:

66.426% 93 0.125528%

result on testlist:

61.8705% 53 0.146748%

epoch: 83% | learning rate: 0.155340

result on trainlist:

66.426% 93 0.124889%

result on testlist:

61.8705% 53 0.14456%

epoch: 84% | learning rate: 0.153846

result on trainlist:

66.426% 93 0.125238%

result on testlist:

61.1511% 54 0.148512%

epoch: 85% | learning rate: 0.152381

result on trainlist:

66.426% 93 0.125331%

result on testlist:

61.8705% 53 0.147548%

epoch: 86% | learning rate: 0.150943

result on trainlist:

66.426% 93 0.12479%

result on testlist:

62.5899% 52 0.142288%

epoch: 87% | learning rate: 0.149533

result on trainlist:

66.426% 93 0.12447%

result on testlist:

62.5899% 52 0.144348%

epoch: 88% | learning rate: 0.148148

result on trainlist:

66.426% 93 0.124403%

result on testlist:

62.5899% 52 0.144368%

epoch: 89% | learning rate: 0.146789

result on trainlist:

66.426% 93 0.125119%

result on testlist:

61.8705% 53 0.147482%

epoch: 90% | learning rate: 0.145455

result on trainlist:

66.426% 93 0.125236%

result on testlist:

62.5899% 52 0.146882%

epoch: 91% | learning rate: 0.144144

result on trainlist:

66.426% 93 0.124487%

result on testlist:

62.5899% 52 0.142565%

epoch: 92% | learning rate: 0.142857

result on trainlist:

66.426% 93 0.124406%

result on testlist:

62.5899% 52 0.142865%

epoch: 93% | learning rate: 0.141593

result on trainlist:

66.426% 93 0.124329%

result on testlist:

62.5899% 52 0.143105%

epoch: 94% | learning rate: 0.140351

result on trainlist:

66.426% 93 0.124601%

result on testlist:

62.5899% 52 0.14587%

epoch: 95% | learning rate: 0.139130

result on trainlist:

66.426% 93 0.12521%

result on testlist:

61.8705% 53 0.147456%

epoch: 96% | learning rate: 0.137931

result on trainlist:

66.426% 93 0.124088%

result on testlist:

61.8705% 53 0.144907%

epoch: 97% | learning rate: 0.136752

result on trainlist:

66.426% 93 0.124546%

result on testlist:

61.1511% 54 0.146658%

epoch: 98% | learning rate: 0.135593

result on trainlist:

66.426% 93 0.124203%

result on testlist:

61.8705% 53 0.143422%

epoch: 99% | learning rate: 0.134454

result on trainlist:

66.426% 93 0.124095%

result on testlist:

62.5899% 52 0.142826%

Saving 15360x20x20 network to 'network.net'

epoch: 100% | learning rate: 0.133333

result on trainlist:

66.426% 93 0.12401%

result on testlist:

62.5899% 52 0.142794%

epoch: 101% | learning rate: 0.132231

result on trainlist:

66.426% 93 0.123749%

result on testlist:

62.5899% 52 0.14409%

epoch: 102% | learning rate: 0.131148

result on trainlist:

66.426% 93 0.123626%

result on testlist:

62.5899% 52 0.142696%

epoch: 103% | learning rate: 0.130081

result on trainlist:

66.426% 93 0.12372%

result on testlist:

61.1511% 54 0.145499%

epoch: 104% | learning rate: 0.129032

result on trainlist:

66.426% 93 0.123789%

result on testlist:

61.8705% 53 0.143195%

epoch: 105% | learning rate: 0.128000

result on trainlist:

66.426% 93 0.123904%

result on testlist:

61.8705% 53 0.143499%

epoch: 106% | learning rate: 0.126984

result on trainlist:

66.426% 93 0.123796%

result on testlist:

61.8705% 53 0.142336%

epoch: 107% | learning rate: 0.125984

result on trainlist:

66.426% 93 0.123755%

result on testlist:

61.8705% 53 0.142096%

epoch: 108% | learning rate: 0.125000

result on trainlist:

66.426% 93 0.123717%

result on testlist:

61.8705% 53 0.142028%

epoch: 109% | learning rate: 0.124031

result on trainlist:

66.426% 93 0.123679%

result on testlist:

61.8705% 53 0.14196%

epoch: 110% | learning rate: 0.123077

result on trainlist:

66.426% 93 0.123633%

result on testlist:

61.8705% 53 0.141988%

epoch: 111% | learning rate: 0.122137

result on trainlist:

66.426% 93 0.123543%

result on testlist:

62.5899% 52 0.142024%

epoch: 112% | learning rate: 0.121212

result on trainlist:

66.426% 93 0.123225%

result on testlist:

61.8705% 53 0.144934%

epoch: 113% | learning rate: 0.120301

result on trainlist:

66.426% 93 0.123705%

result on testlist:

61.8705% 53 0.147989%

epoch: 114% | learning rate: 0.119403

result on trainlist:

66.426% 93 0.123533%

result on testlist:

61.8705% 53 0.142491%

epoch: 115% | learning rate: 0.118519

result on trainlist:

66.426% 93 0.123428%

result on testlist:

62.5899% 52 0.142296%

epoch: 116% | learning rate: 0.117647

result on trainlist:

66.426% 93 0.125194%

result on testlist:

61.8705% 53 0.145885%

epoch: 117% | learning rate: 0.116788

result on trainlist:

66.426% 93 0.123435%

result on testlist:

62.5899% 52 0.142088%

epoch: 118% | learning rate: 0.115942

result on trainlist:

66.426% 93 0.123376%

result on testlist:

62.5899% 52 0.14206%

epoch: 119% | learning rate: 0.115108

result on trainlist:

66.426% 93 0.123123%

result on testlist:

62.5899% 52 0.142474%

epoch: 120% | learning rate: 0.114286

result on trainlist:

66.426% 93 0.125241%

result on testlist:

61.8705% 53 0.147458%

epoch: 121% | learning rate: 0.113475

result on trainlist:

66.426% 93 0.123243%

result on testlist:

62.5899% 52 0.14266%

epoch: 122% | learning rate: 0.112676

result on trainlist:

66.426% 93 0.123387%

result on testlist:

62.5899% 52 0.143051%

epoch: 123% | learning rate: 0.111888

result on trainlist:

66.426% 93 0.123599%

result on testlist:

62.5899% 52 0.143578%

epoch: 124% | learning rate: 0.111111

result on trainlist:

66.426% 93 0.123458%

result on testlist:

62.5899% 52 0.143717%

epoch: 125% | learning rate: 0.110345

result on trainlist:

66.426% 93 0.123508%

result on testlist:

61.1511% 54 0.147082%

epoch: 126% | learning rate: 0.109589

result on trainlist:

66.426% 93 0.123414%

result on testlist:

61.8705% 53 0.144606%

epoch: 127% | learning rate: 0.108844

result on trainlist:

66.426% 93 0.123156%

result on testlist:

61.8705% 53 0.14393%

epoch: 128% | learning rate: 0.108108

result on trainlist:

66.426% 93 0.123263%

result on testlist:

62.5899% 52 0.143771%

epoch: 129% | learning rate: 0.107383

result on trainlist:

66.426% 93 0.123162%

result on testlist:

62.5899% 52 0.143042%

epoch: 130% | learning rate: 0.106667

result on trainlist:

66.426% 93 0.123091%

result on testlist:

62.5899% 52 0.142871%

epoch: 131% | learning rate: 0.105960

result on trainlist:

66.426% 93 0.122832%

result on testlist:

61.8705% 53 0.142766%

epoch: 132% | learning rate: 0.105263

result on trainlist:

66.426% 93 0.122746%

result on testlist:

61.8705% 53 0.143569%

epoch: 133% | learning rate: 0.104575

result on trainlist:

66.426% 93 0.123034%

result on testlist:

61.8705% 53 0.143218%

epoch: 134% | learning rate: 0.103896

result on trainlist:

66.426% 93 0.122785%

result on testlist:

61.8705% 53 0.143064%

epoch: 135% | learning rate: 0.103226

result on trainlist:

66.426% 93 0.122938%

result on testlist:

61.8705% 53 0.143062%

epoch: 136% | learning rate: 0.102564

result on trainlist:

66.426% 93 0.12334%

result on testlist:

61.8705% 53 0.143832%

epoch: 137% | learning rate: 0.101911

result on trainlist:

66.426% 93 0.122894%

result on testlist:

61.8705% 53 0.142803%

epoch: 138% | learning rate: 0.101266

result on trainlist:

66.426% 93 0.123329%

result on testlist:

61.8705% 53 0.143991%

epoch: 139% | learning rate: 0.100629

result on trainlist:

66.426% 93 0.1232%

result on testlist:

60.4317% 55 0.146633%

epoch: 140% | learning rate: 0.100000

result on trainlist:

66.426% 93 0.123014%

result on testlist:

61.1511% 54 0.144116%

epoch: 141% | learning rate: 0.099379

result on trainlist:

66.426% 93 0.122939%

result on testlist:

61.8705% 53 0.143131%

epoch: 142% | learning rate: 0.098765

result on trainlist:

66.426% 93 0.122908%

result on testlist:

61.1511% 54 0.143107%

epoch: 143% | learning rate: 0.098160

result on trainlist:

66.426% 93 0.122884%

result on testlist:

61.1511% 54 0.143082%

epoch: 144% | learning rate: 0.097561

result on trainlist:

66.426% 93 0.122859%

result on testlist:

61.1511% 54 0.143093%

epoch: 145% | learning rate: 0.096970

result on trainlist:

66.426% 93 0.122833%

result on testlist:

61.1511% 54 0.143123%

epoch: 146% | learning rate: 0.096386

result on trainlist:

66.426% 93 0.122794%

result on testlist:

61.1511% 54 0.143162%

epoch: 147% | learning rate: 0.095808

result on trainlist:

66.426% 93 0.122664%

result on testlist:

61.1511% 54 0.143211%

epoch: 148% | learning rate: 0.095238

result on trainlist:

66.426% 93 0.122912%

result on testlist:

61.1511% 54 0.143953%

epoch: 149% | learning rate: 0.094675

result on trainlist:

66.426% 93 0.122794%

result on testlist:

61.1511% 54 0.143303%

epoch: 150% | learning rate: 0.094118

result on trainlist:

66.426% 93 0.122773%

result on testlist:

61.1511% 54 0.14328%

epoch: 151% | learning rate: 0.093567

result on trainlist:

66.426% 93 0.122755%

result on testlist:

61.1511% 54 0.143298%

epoch: 152% | learning rate: 0.093023

result on trainlist:

66.426% 93 0.122738%

result on testlist:

61.1511% 54 0.143316%

epoch: 153% | learning rate: 0.092486

result on trainlist:

66.426% 93 0.12272%

result on testlist:

61.1511% 54 0.14333%

epoch: 154% | learning rate: 0.091954

result on trainlist:

66.426% 93 0.122702%

result on testlist:

61.1511% 54 0.143341%

epoch: 155% | learning rate: 0.091429

result on trainlist:

66.426% 93 0.122682%

result on testlist:

61.1511% 54 0.143349%

epoch: 156% | learning rate: 0.090909

result on trainlist:

66.426% 93 0.122656%

result on testlist:

61.1511% 54 0.143356%

epoch: 157% | learning rate: 0.090395

result on trainlist:

66.426% 93 0.122607%

result on testlist:

61.1511% 54 0.143362%

epoch: 158% | learning rate: 0.089888

result on trainlist:

66.426% 93 0.122296%

result on testlist:

61.1511% 54 0.143454%

epoch: 159% | learning rate: 0.089385

result on trainlist:

66.426% 93 0.122682%

result on testlist:

61.1511% 54 0.143996%

epoch: 160% | learning rate: 0.088889

result on trainlist:

66.426% 93 0.122636%

result on testlist:

61.1511% 54 0.143395%

epoch: 161% | learning rate: 0.088398

result on trainlist:

66.426% 93 0.122619%

result on testlist:

61.1511% 54 0.143361%

epoch: 162% | learning rate: 0.087912

result on trainlist:

66.426% 93 0.122605%

result on testlist:

61.1511% 54 0.143366%

epoch: 163% | learning rate: 0.087432

result on trainlist:

66.426% 93 0.12259%

result on testlist:

61.1511% 54 0.143374%

epoch: 164% | learning rate: 0.086957

result on trainlist:

66.426% 93 0.122576%

result on testlist:

61.1511% 54 0.143379%

epoch: 165% | learning rate: 0.086486

result on trainlist:

66.426% 93 0.12256%

result on testlist:

61.1511% 54 0.143383%

epoch: 166% | learning rate: 0.086022

result on trainlist:

66.426% 93 0.122542%

result on testlist:

61.1511% 54 0.143385%

epoch: 167% | learning rate: 0.085561

result on trainlist:

66.426% 93 0.122519%

result on testlist:

61.1511% 54 0.143387%

epoch: 168% | learning rate: 0.085106

result on trainlist:

66.426% 93 0.122475%

result on testlist:

61.1511% 54 0.143392%

epoch: 169% | learning rate: 0.084656

result on trainlist:

66.426% 93 0.12224%

result on testlist:

61.1511% 54 0.143487%

epoch: 170% | learning rate: 0.084211

result on trainlist:

66.426% 93 0.122301%

result on testlist:

61.1511% 54 0.143513%

epoch: 171% | learning rate: 0.083770

result on trainlist:

66.426% 93 0.122542%

result on testlist:

61.1511% 54 0.143997%

epoch: 172% | learning rate: 0.083333

result on trainlist:

66.426% 93 0.122474%

result on testlist:

61.1511% 54 0.143419%

epoch: 173% | learning rate: 0.082902

result on trainlist:

66.426% 93 0.122439%

result on testlist:

61.1511% 54 0.143367%

epoch: 174% | learning rate: 0.082474

result on trainlist:

66.426% 93 0.122325%

result on testlist:

61.1511% 54 0.143388%

epoch: 175% | learning rate: 0.082051

result on trainlist:

66.426% 93 0.122%

result on testlist:

61.1511% 54 0.14481%

epoch: 176% | learning rate: 0.081633

result on trainlist:

66.426% 93 0.122806%

result on testlist:

61.1511% 54 0.146643%

epoch: 177% | learning rate: 0.081218

result on trainlist:

66.426% 93 0.12196%

result on testlist:

61.1511% 54 0.144527%

epoch: 178% | learning rate: 0.080808

result on trainlist:

66.426% 93 0.122425%

result on testlist:

61.1511% 54 0.143452%

epoch: 179% | learning rate: 0.080402

result on trainlist:

66.426% 93 0.122387%

result on testlist:

61.1511% 54 0.14333%

epoch: 180% | learning rate: 0.080000

result on trainlist:

66.426% 93 0.12229%

result on testlist:

61.1511% 54 0.143334%

epoch: 181% | learning rate: 0.079602

result on trainlist:

66.426% 93 0.122691%

result on testlist:

61.1511% 54 0.145908%

epoch: 182% | learning rate: 0.079208

result on trainlist:

66.426% 93 0.122407%

result on testlist:

60.4317% 55 0.147019%

epoch: 183% | learning rate: 0.078818

result on trainlist:

66.426% 93 0.122035%

result on testlist:

61.1511% 54 0.143774%

epoch: 184% | learning rate: 0.078431

result on trainlist:

66.426% 93 0.122368%

result on testlist:

61.1511% 54 0.143975%

epoch: 185% | learning rate: 0.078049

result on trainlist:

66.426% 93 0.121916%

result on testlist:

61.1511% 54 0.143449%

epoch: 186% | learning rate: 0.077670

result on trainlist:

66.426% 93 0.122006%

result on testlist:

61.1511% 54 0.143743%

epoch: 187% | learning rate: 0.077295

result on trainlist:

66.426% 93 0.122428%

result on testlist:

61.1511% 54 0.143886%

epoch: 188% | learning rate: 0.076923

result on trainlist:

66.426% 93 0.122321%

result on testlist:

61.1511% 54 0.143189%

epoch: 189% | learning rate: 0.076555

result on trainlist:

66.426% 93 0.122213%

result on testlist:

61.1511% 54 0.143138%

epoch: 190% | learning rate: 0.076190

result on trainlist:

66.426% 93 0.122309%

result on testlist:

61.1511% 54 0.143514%

epoch: 191% | learning rate: 0.075829

result on trainlist:

66.426% 93 0.122048%

result on testlist:

61.1511% 54 0.143224%

epoch: 192% | learning rate: 0.075472

result on trainlist:

66.426% 93 0.122264%

result on testlist:

61.1511% 54 0.144769%

epoch: 193% | learning rate: 0.075117

result on trainlist:

66.426% 93 0.122321%

result on testlist:

61.1511% 54 0.143268%

epoch: 194% | learning rate: 0.074766

result on trainlist:

66.426% 93 0.122302%

result on testlist:

61.1511% 54 0.143153%

epoch: 195% | learning rate: 0.074419

result on trainlist:

66.426% 93 0.122289%

result on testlist:

61.1511% 54 0.143142%

epoch: 196% | learning rate: 0.074074

result on trainlist:

66.426% 93 0.122274%

result on testlist:

61.1511% 54 0.143144%

epoch: 197% | learning rate: 0.073733

result on trainlist:

66.426% 93 0.122256%

result on testlist:

61.1511% 54 0.143146%

epoch: 198% | learning rate: 0.073394

result on trainlist:

66.426% 93 0.122226%

result on testlist:

61.1511% 54 0.143147%

epoch: 199% | learning rate: 0.073059

result on trainlist:

66.426% 93 0.122127%

result on testlist:

61.1511% 54 0.143161%

Saving 15360x20x20 network to 'network.net'

epoch: 200% | learning rate: 0.072727

result on trainlist:

66.426% 93 0.12179%

result on testlist:

61.1511% 54 0.144797%

epoch: 201% | learning rate: 0.072398

result on trainlist:

66.426% 93 0.122228%

result on testlist:

61.1511% 54 0.143292%

epoch: 202% | learning rate: 0.072072

result on trainlist:

66.426% 93 0.122168%

result on testlist:

61.1511% 54 0.143138%

epoch: 203% | learning rate: 0.071749

result on trainlist:

66.426% 93 0.12192%

result on testlist:

61.1511% 54 0.143197%

epoch: 204% | learning rate: 0.071429

result on trainlist:

66.426% 93 0.122268%

result on testlist:

61.1511% 54 0.143681%

epoch: 205% | learning rate: 0.071111

result on trainlist:

66.426% 93 0.122221%

result on testlist:

61.1511% 54 0.14308%

epoch: 206% | learning rate: 0.070796

result on trainlist:

66.426% 93 0.122208%

result on testlist:

61.1511% 54 0.143046%

epoch: 207% | learning rate: 0.070485

result on trainlist:

66.426% 93 0.122197%

result on testlist:

61.1511% 54 0.143048%

epoch: 208% | learning rate: 0.070175

result on trainlist:

66.426% 93 0.122185%

result on testlist:

61.1511% 54 0.143054%

epoch: 209% | learning rate: 0.069869

result on trainlist:

66.426% 93 0.122171%

result on testlist:

61.1511% 54 0.143057%

epoch: 210% | learning rate: 0.069565

result on trainlist:

66.426% 93 0.122152%

result on testlist:

61.1511% 54 0.143059%

epoch: 211% | learning rate: 0.069264

result on trainlist:

66.426% 93 0.122116%

result on testlist:

61.1511% 54 0.143061%

epoch: 212% | learning rate: 0.068966

result on trainlist:

66.426% 93 0.121941%

result on testlist:

61.1511% 54 0.143124%

epoch: 213% | learning rate: 0.068670

result on trainlist:

66.426% 93 0.122076%

result on testlist:

61.1511% 54 0.143568%

epoch: 214% | learning rate: 0.068376

result on trainlist:

66.426% 93 0.121907%

result on testlist:

61.1511% 54 0.145406%

epoch: 215% | learning rate: 0.068085

result on trainlist:

66.426% 93 0.121753%

result on testlist:

61.1511% 54 0.145205%

epoch: 216% | learning rate: 0.067797

result on trainlist:

66.426% 93 0.121485%

result on testlist:

61.1511% 54 0.144413%

epoch: 217% | learning rate: 0.067511

result on trainlist:

66.426% 93 0.121545%

result on testlist:

61.1511% 54 0.14495%

epoch: 218% | learning rate: 0.067227

result on trainlist:

66.426% 93 0.122187%

result on testlist:

61.1511% 54 0.143628%

epoch: 219% | learning rate: 0.066946

result on trainlist:

66.426% 93 0.121899%

result on testlist:

61.1511% 54 0.142832%

epoch: 220% | learning rate: 0.066667

result on trainlist:

66.426% 93 0.12158%

result on testlist:

61.1511% 54 0.14373%

epoch: 221% | learning rate: 0.066390

result on trainlist:

66.426% 93 0.12152%

result on testlist:

61.1511% 54 0.144303%

epoch: 222% | learning rate: 0.066116

result on trainlist:

66.426% 93 0.121972%

result on testlist:

61.1511% 54 0.143199%

epoch: 223% | learning rate: 0.065844

result on trainlist:

66.426% 93 0.122095%

result on testlist:

61.1511% 54 0.14325%

epoch: 224% | learning rate: 0.065574

result on trainlist:

66.426% 93 0.121389%

result on testlist:

61.1511% 54 0.143949%

epoch: 225% | learning rate: 0.065306

result on trainlist:

66.426% 93 0.122269%

result on testlist:

61.1511% 54 0.146435%

epoch: 226% | learning rate: 0.065041

result on trainlist:

66.426% 93 0.121994%

result on testlist:

61.1511% 54 0.145757%

epoch: 227% | learning rate: 0.064777

result on trainlist:

66.426% 93 0.121559%

result on testlist:

61.1511% 54 0.143518%