#ifdef CNN\_TEST

#include <stdio.h>

#endif

#include <math.h>

static float w\_3 [3][3][1][8] = { -1.1955656e-01,1.4221689e-01,2.1653885e-01,2.0515978e-01,-8.652763e-02,3.935933e-02,3.2166988e-02,2.8521895e-02,-1.6969505e-01,1.1371049e-01,-2.1032543e-01,-1.770991e-02,-1.22185364e-01,2.020059e-01,-3.8492024e-02,1.316849e-01,6.877658e-02,2.462827e-01,1.2332463e-01,-2.8575122e-02,3.1402797e-02,-2.1683487e-01,-2.5654703e-02,1.3202485e-01,-1.4298257e-01,1.4322454e-01,2.224966e-01,2.1848825e-01,1.2118626e-01,-6.985803e-02,-2.6885697e-01,-5.1464245e-02,1.1403492e-01,6.426379e-02,3.4904808e-02,-8.016038e-02,-2.4508879e-01,2.589329e-01,-1.350034e-01,8.2191736e-02,5.101663e-02,1.3682264e-01,-8.9207366e-02,-1.7304866e-01,2.454232e-01,-1.8425635e-01,-2.1070951e-01,9.260711e-02,-8.888319e-02,5.9273094e-02,1.1652291e-01,1.7397133e-01,1.7634204e-01,-1.8572867e-02,-2.0047039e-02,1.852766e-01,-2.4656047e-01,-9.824711e-02,1.8943295e-01,-1.3115e-01,4.775217e-02,2.080364e-01,2.3884028e-01,-9.4415784e-02,2.712096e-01,-7.86587e-02,1.2109977e-01,-2.105515e-01,-2.9015914e-02,-2.4520007e-01,8.400622e-02,-1.2528928e-01 };

static float b\_3 [8] = { 0.e+00,0.e+00,0.e+00,0.e+00,0.e+00,0.e+00,0.e+00,0.e+00 };

static float w\_2 [3][3][8][16] = { 1.13882855e-01,1.2674277e-01,-1.3660781e-01,1.2611885e-01,1.290236e-01,6.307721e-02,-7.850215e-03,-5.4814897e-02,-1.4833443e-01,7.257803e-02,-2.2373646e-03,-5.1720224e-02,-9.7792745e-02,9.380107e-02,3.2618642e-05,9.2025444e-02,1.1377409e-02,-1.0427439e-01,-4.851961e-02,-1.4088309e-01,5.114448e-02,1.4982761e-01,-7.929604e-02,4.0058494e-02,1.2798683e-01,3.8658544e-02,8.798064e-02,3.4402534e-02,3.528431e-03,-1.3107538e-02,4.722576e-02,-5.2188873e-02,1.1858776e-02,-9.217473e-02,-8.2377195e-02,1.5827613e-01,5.9876963e-02,-1.5722685e-01,-3.0944899e-02,-8.833309e-02,8.4787056e-02,9.740873e-02,3.8527414e-02,-1.3072786e-01,1.4747424e-01,-7.204994e-02,1.8712714e-02,6.022799e-02,-1.5566866e-01,-7.045269e-04,-6.059532e-02,1.0002072e-01,5.5007294e-02,1.6127686e-01,1.0841708e-01,3.691514e-02,-9.87864e-02,-7.67593e-02,-4.6298385e-02,-5.140301e-02,-1.4150047e-01,6.3630864e-02,-5.8060452e-02,4.8991606e-02,7.107015e-02,1.21763036e-01,1.4221652e-01,9.0641215e-02,1.3430776e-01,1.19209215e-01,-1.592195e-01,9.120946e-02,1.0092361e-01,1.6853139e-02,-5.632385e-02,4.3978855e-02,-1.00951076e-01,1.508819e-01,-5.456817e-02,-4.1861936e-02,-9.318765e-02,1.4536144e-01,-5.022125e-02,-5.9253022e-02,9.990339e-02,-6.9648027e-03,6.06343e-02,-1.3300276e-01,-8.781596e-02,-6.3167416e-02,1.3354333e-01,1.9200012e-02,-1.4185452e-01,1.2372732e-02,-8.21176e-02,-3.666024e-02,-5.3670645e-02,-6.645529e-02,-1.11311555e-01,1.0518308e-01,-1.4289884e-01,-7.347517e-02,1.4418443e-01,-1.200752e-02,6.4441636e-02,-6.207832e-02,-1.2421624e-01,2.5390223e-02,-6.707998e-02,1.5742064e-02,-1.1705788e-01,-9.38555e-02,1.1379768e-01,-1.19494945e-02,1.5434384e-02,-1.24036156e-01,8.866753e-02,1.2741081e-01,1.128649e-01,-1.3573718e-01,1.5278329e-01,2.993536e-02,2.5170133e-02,-1.5264344e-01,-1.814361e-02,-1.1408683e-01,-5.757916e-02,1.4441247e-01,1.350428e-01,1.487719e-01,-4.3907963e-02,1.1118157e-01,8.590384e-02,1.6407728e-02,-1.18737936e-01,1.5766458e-01,6.0006067e-02,6.8696424e-02,-1.3808982e-01,9.1382876e-02,-7.016115e-02,-1.12365805e-01,1.13439575e-01,-7.334356e-02,-7.60835e-02,-8.3143994e-02,1.1174627e-01,1.4538087e-01,-1.0606067e-01,8.683081e-02,-4.2809963e-02,-3.80297e-03,1.4069895e-01,8.54633e-02,1.381739e-01,6.0135126e-03,-1.1528921e-01,1.3483049e-01,-1.00433275e-01,-7.0130944e-02,1.288192e-02,9.115411e-02,2.536881e-02,-1.6636896e-01,-2.0540953e-02,9.2031375e-02,-7.349511e-02,9.217052e-02,3.5689235e-02,2.4426267e-02,-9.044354e-02,-1.5680985e-01,1.501815e-02,-1.3365452e-01,1.2843926e-01,-7.8402564e-02,1.2301196e-01,-1.6367197e-01,1.8411756e-02,9.943952e-02,-6.868407e-03,-1.214157e-01,6.558733e-02,9.544386e-02,1.1904283e-01,3.420873e-02,1.256264e-01,-1.3970932e-01,-1.579976e-02,-1.3364033e-01,-6.36036e-02,4.3761134e-02,-2.1067783e-02,-1.3841884e-01,1.5963595e-01,1.4220698e-01,1.316406e-01,-8.658731e-02,3.3971786e-02,-1.2907103e-02,1.2094058e-01,-1.1523064e-01,1.1550112e-01,1.4104049e-01,1.3322373e-01,3.9566472e-02,1.311133e-01,2.7887464e-02,-7.992109e-02,-1.04458414e-01,-1.0871252e-01,6.2885165e-02,1.2862043e-01,9.1373816e-02,1.6399594e-01,1.4435768e-02,1.662591e-01,-1.2532485e-01,-5.5547237e-02,-7.590743e-02,-7.386282e-03,1.3554852e-01,-7.466185e-02,1.19889274e-01,8.805896e-02,2.3635551e-02,-5.338931e-02,-1.6621065e-01,1.0441224e-01,1.5796661e-02,-2.8601289e-02,1.3754143e-01,-6.4525157e-03,-2.8362036e-02,1.5536381e-01,-5.448719e-02,1.14739224e-01,-9.74501e-02,1.4746238e-01,-4.5214973e-02,-1.62095e-01,1.4148076e-01,-3.006427e-02,8.4660664e-02,1.11506e-01,-4.4896007e-02,-2.4929494e-03,-1.7062023e-02,2.9569268e-02,7.7390075e-02,-1.5165102e-01,7.6946184e-02,2.7173042e-02,6.1529443e-02,1.4753701e-01,-1.8958926e-02,-1.5829396e-01,1.5919508e-01,-2.2998646e-02,-2.8868988e-02,-4.423265e-02,1.4893954e-01,-1.0146483e-01,-4.763349e-02,8.431251e-02,1.0076137e-01,7.114744e-02,-1.3743782e-01,-3.6508158e-02,-1.3147561e-01,-6.263892e-02,8.127232e-02,3.040333e-02,2.8705195e-02,1.6204531e-01,1.2446642e-03,7.533288e-02,1.0887094e-01,8.6742595e-02,1.22797325e-01,1.439854e-01,1.4637873e-02,-1.4895436e-01,-1.09302446e-01,-1.6305964e-01,-5.8458924e-02,2.0732924e-02,4.8234776e-02,-1.10105515e-01,1.1913507e-01,2.587159e-02,1.6556828e-01,1.0268362e-01,-4.59681e-02,-1.0932275e-01,1.5329047e-01,-6.7501985e-02,-1.4123993e-01,1.230935e-01,2.3356631e-02,-8.514945e-02,-2.0162538e-02,1.13576844e-01,7.775156e-02,-8.217454e-03,-8.847936e-02,-5.5987835e-02,-9.349656e-02,1.250786e-01,-5.189471e-02,-1.06446944e-01,-8.619364e-02,8.4930554e-02,1.3769807e-01,-1.8257856e-02,-1.3832286e-02,1.2449612e-01,1.3002475e-01,-9.170421e-02,1.3615863e-01,-6.3557744e-02,-1.4984307e-01,1.3610066e-01,1.00787476e-01,1.1270453e-01,1.5959637e-01,-6.5571785e-02,-5.30079e-04,1.9439653e-02,-1.4407441e-02,1.3029782e-01,2.8341264e-03,1.643384e-01,7.083885e-02,1.2009792e-01,1.1268796e-01,-1.2499213e-02,-1.6485083e-01,1.4647e-01,-3.505552e-02,-2.9206514e-02,-1.23442054e-01,5.8532074e-02,9.5382854e-02,-1.5751386e-01,1.1175634e-01,7.522376e-02,1.6181807e-01,-1.2332778e-01,1.2832351e-01,-4.6516657e-02,-7.71149e-02,3.361082e-02,-9.504342e-02,-6.370537e-02,1.5307029e-01,7.375686e-02,-1.5864941e-01,-7.4907586e-02,8.745481e-02,1.0704817e-01,7.4440554e-02,9.8991916e-02,-1.0041388e-01,1.5196629e-01,-6.2218353e-02,-5.616661e-02,6.840284e-02,8.745243e-02,-1.09312855e-01,-1.4202079e-01,-3.554508e-03,3.657472e-02,1.065509e-02,-1.6954973e-02,-2.1197602e-02,8.02453e-02,-8.9826465e-02,1.028011e-01,-4.7506854e-02,9.5215455e-02,-8.057082e-02,8.198202e-02,-6.273553e-03,4.9524754e-03,1.6430022e-01,1.255628e-01,-3.8937762e-02,-1.3572638e-01,5.3559497e-02,1.5070982e-01,-6.727946e-02,-1.0451555e-01,5.804658e-02,-9.287691e-02,-7.112249e-02,5.9869573e-02,1.2797192e-02,1.5583993e-01,5.4819867e-02,-1.2642412e-01,5.7188988e-02,8.9895725e-03,8.785291e-02,1.6471818e-02,2.5103092e-02,5.5877805e-02,9.172885e-02,1.2495129e-01,-1.06971264e-01,8.6028114e-02,8.291805e-02,7.8627944e-02,1.3917626e-01,2.4987504e-02,9.243891e-03,-9.315833e-02,-4.173164e-02,1.5623511e-01,9.6514866e-02,4.0088892e-02,-3.154607e-02,4.9305394e-02,7.9012915e-02,-3.5379216e-02,1.4560153e-01,2.9965922e-02,3.186293e-02,-1.2816541e-01,-1.2354267e-01,9.845014e-02,9.778179e-02,-8.916633e-02,-1.5326588e-01,1.5846737e-01,-1.6488633e-01,-4.993871e-03,1.4532258e-01,-6.789379e-02,-4.9042583e-02,-1.1550474e-01,-1.304121e-01,-1.5071866e-01,-1.0695466e-01,-9.38921e-02,3.365238e-02,-1.5015122e-01,1.5859695e-01,1.2390126e-01,1.3302653e-01,-1.0330288e-01,4.332955e-02,1.2873639e-01,-5.426999e-02,-1.5766189e-01,1.5363066e-01,-1.2290633e-01,-1.4058249e-01,1.023518e-01,1.5343161e-01,1.2647875e-01,-1.569283e-01,4.2761564e-03,6.45562e-02,1.5983073e-01,-1.6442034e-01,8.018124e-02,-1.4685166e-01,6.981973e-02,1.4841537e-01,-7.21173e-03,-8.793052e-02,-1.1404352e-01,-5.30928e-02,-6.393246e-02,-1.2025511e-01,1.181664e-01,-4.5033537e-02,1.464702e-01,-1.5072525e-04,1.0085477e-01,-4.9433313e-02,-5.3813457e-02,9.334321e-02,3.1138495e-02,-7.3818766e-02,5.9476346e-03,-1.1039214e-01,6.3165426e-02,1.9403413e-02,1.5866368e-01,1.5006061e-01,1.4885475e-01,-3.9388612e-02,-1.02713555e-02,-8.879757e-02,-1.1393809e-01,-1.0907905e-01,-1.5835199e-01,4.0204883e-02,1.12685874e-01,1.04125425e-01,1.1898641e-01,-3.483136e-02,-1.4010422e-01,-1.0477722e-01,1.2510552e-01,-1.3279653e-01,-4.4489667e-02,9.1779426e-02,-1.0986614e-01,1.4416496e-01,-9.837429e-02,-7.655116e-02,-7.580718e-02,-1.03388116e-01,1.4624645e-01,1.12381265e-01,1.060503e-01,-1.5106153e-01,9.414847e-02,-9.062481e-02,-1.1818703e-01,1.1062175e-03,-9.579234e-02,1.1196375e-02,1.5373139e-01,1.8728971e-03,-9.467089e-02,1.6592066e-01,-3.313391e-02,-1.0598298e-01,-4.60608e-02,1.5536161e-01,7.934065e-02,4.7274157e-02,-3.541331e-02,1.6221373e-01,1.3860552e-01,1.1435895e-01,8.7594196e-02,-1.2477231e-01,-5.0845623e-02,1.5197961e-01,-1.5238099e-01,1.2671162e-01,-1.0904913e-01,1.0230477e-01,-6.59353e-02,1.263737e-01,6.9094896e-03,-1.3523754e-01,9.9628136e-02,-1.4672077e-01,9.123847e-03,1.4183857e-01,5.9103176e-02,-1.1261313e-01,-1.340929e-01,1.3244314e-01,3.911829e-02,-1.1785889e-01,-9.662604e-02,1.3527574e-01,4.3760583e-02,-2.57947e-02,7.918982e-02,5.936578e-03,8.401598e-02,-2.3688525e-03,1.321085e-01,-3.6921263e-02,-1.3067672e-01,3.3220723e-02,1.09914586e-01,-7.710914e-02,1.5214337e-01,-2.5426626e-02,1.4901151e-01,1.349055e-01,-5.1439248e-02,4.07203e-02,6.900787e-02,8.300948e-02,1.4023666e-01,-4.8150107e-02,-9.781794e-02,-1.2042129e-01,-1.6570449e-01,-1.1494905e-03,-8.138578e-02,-7.7206343e-03,-1.106517e-02,-1.02535725e-01,-6.50179e-02,-5.874026e-02,-7.988259e-03,6.1269477e-02,4.3550372e-02,-1.0812633e-01,7.01216e-02,3.998132e-02,5.716607e-03,3.6340907e-02,-2.527146e-02,1.2945606e-01,1.2151115e-01,-5.9772216e-02,9.059668e-03,1.5531982e-01,1.4727895e-01,-9.3548e-04,-6.321716e-02,-1.8571377e-02,-1.2722445e-01,2.1104977e-02,-2.8019354e-02,1.10008195e-01,-2.2462174e-02,4.5854285e-02,-3.1284332e-02,1.6316907e-01,7.6443955e-02,6.1872125e-02,-3.506176e-02,-7.575385e-02,-4.04654e-02,1.6008456e-01,-2.900879e-02,-3.7804723e-02,-3.0979365e-03,4.62697e-02,1.0521157e-01,-1.0336041e-02,4.5908853e-02,2.3886248e-02,9.144701e-02,-1.2496635e-02,-5.1714182e-02,-1.8835232e-02,-9.9510714e-02,7.316005e-02,1.3836922e-01,-8.8723585e-02,5.7312652e-02,-1.1127146e-01,-9.653285e-03,-8.089435e-02,-1.1979103e-01,-1.2079279e-01,1.907444e-02,1.470403e-01,1.0375227e-01,1.5349229e-01,-1.2722342e-01,-8.763933e-02,1.2877981e-01,6.680815e-02,4.207532e-02,-1.1318044e-01,-1.2035136e-01,-1.5147834e-01,5.6639746e-02,-7.978388e-02,-3.8230494e-02,-6.995571e-02,-2.0856261e-02,-1.2392609e-01,-1.0501941e-01,7.035093e-02,-1.5657334e-01,1.03177086e-01,-2.2755027e-02,-4.2012617e-02,-7.0109725e-02,-4.052086e-02,2.5658324e-02,2.555728e-02,3.2669738e-02,2.4839088e-02,3.017187e-04,1.4288117e-01,5.470915e-02,1.2912954e-01,4.9407125e-02,-8.357581e-02,-1.528337e-01,-1.1265397e-01,-4.8403293e-03,1.5521325e-01,4.258831e-02,-1.6558993e-01,-2.3366287e-02,-1.4771637e-01,1.5559562e-01,-1.4050698e-01,3.7270144e-02,8.4009245e-02,-2.6113912e-02,-3.802836e-02,1.1146143e-02,1.4660819e-01,9.3805596e-02,-2.1511078e-02,2.4507284e-02,2.851133e-02,-1.5804963e-01,-1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};

static float b\_2 [16] = { 9.107888e-03,-2.6801681e-02,-1.9604398e-02,-6.6756383e-03,-2.6031256e-02,-1.6954768e-02,-2.4762357e-02,-4.464948e-02,-4.8945785e-02,2.6714828e-02,-4.7914565e-02,-4.4163298e-02,-2.4200523e-02,-1.341477e-04,-4.1223716e-02,1.9416299e-02 };

static float w\_1 [3][3][16][32] = { 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};

static float b\_1 [32] = { 3.964785e-02,-1.780963e-02,-1.9030118e-02,9.893157e-03,-2.7220357e-02,4.7639012e-03,9.109996e-03,-2.8428221e-02,3.335518e-02,1.450092e-02,1.2299307e-03,-6.5264106e-03,-2.5632704e-02,1.2768757e-02,-2.366656e-02,2.0344745e-02,3.376342e-02,3.605025e-02,1.8466823e-03,2.8884444e-02,-1.5672818e-03,-1.287359e-02,3.1731352e-03,4.1934524e-02,2.5919113e-02,1.3923336e-02,-1.507654e-02,-2.5562096e-02,-4.5866657e-02,-4.863225e-03,-3.77128e-02,-3.1940304e-02 };

static float w\_0 [896][2] = { 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7116e-02,7.14882e-02,3.4098238e-02,4.4057354e-02,7.8435734e-02,-2.2200417e-02,3.4959786e-02,-6.1409425e-02,-6.447395e-02,1.5736207e-02,-3.33644e-02,7.4049875e-02,-2.2303395e-02,9.239554e-03,1.4759682e-02,5.2248627e-02,-7.290257e-02,6.989995e-02,3.1490877e-02,4.2299278e-02,-8.0605775e-02,-7.909183e-02,-6.1193395e-02,-5.2442588e-02,2.8468743e-02,9.63223e-03,6.0252294e-02,1.1304401e-02,-5.947617e-02,-7.5552315e-02,3.0956134e-02,-4.0735893e-02,3.0136213e-02,-1.0890171e-02,4.2576008e-02,-5.018296e-02,-1.1346221e-02,-5.6323152e-02,-5.655162e-03,2.807714e-02,6.6132665e-02,-5.190724e-02,-5.2793793e-02,4.03058e-02,-5.0610013e-02,-2.6453674e-02,4.9334377e-02,2.9312342e-02,7.59256e-02,8.0581605e-02,4.602325e-02,1.9104071e-02,5.2851394e-02,-2.981988e-02,-5.5956222e-02,-1.5429869e-02,-8.83393e-04,3.8454942e-02,1.7398633e-02,-6.754714e-02,1.5666947e-02,-1.3440415e-02,7.3515475e-02,-7.205081e-02,6.0757473e-02,3.4728006e-02,-2.160405e-02,6.913933e-02,-2.7894963e-02,-5.6433983e-02,-2.5053293e-02,-6.1775457e-02,7.209627e-02,4.765472e-02,-6.0567215e-02,6.9756836e-02,-7.204788e-02,-5.594849e-02,4.859768e-02,2.9314116e-02,-4.4056997e-02,-5.564913e-03,7.807861e-02,3.6551736e-02,6.644137e-02,7.545948e-04,-1.4106102e-02,-2.1453872e-03,-4.9035773e-02,7.4823335e-02,-7.7213824e-02,1.674638e-02,-4.7960088e-02,5.4843545e-02,-7.2161034e-02,-6.704418e-02,-8.6165145e-03,2.4031185e-02,-5.8918547e-02,-1.9658048e-02,-3.6849443e-02,-3.629634e-02,-4.9022425e-02,-5.2386366e-02,9.65289e-03,3.03768e-02,7.447964e-02,-2.1987136e-02,-2.9597845e-02,-6.204103e-02,-1.4415145e-02,-1.6547985e-02,2.6928648e-02,9.579979e-03,-7.3807985e-02,5.8928236e-02,-3.338691e-02,-1.4039211e-02,3.0047014e-02,6.226538e-02,-3.573944e-02,-7.194422e-03,-5.07856e-02,2.138576e-02,4.1992664e-02,5.3253368e-02,-7.073565e-02,-1.4126718e-02,5.374524e-02,-3.0665033e-02,-5.9748814e-02,-5.174157e-02,6.987305e-02,5.9134215e-03,2.8187819e-02,-6.290766e-02,4.0446334e-02,4.2351e-02,-3.2701753e-02,1.6093776e-03,6.6811845e-02,7.250565e-02,2.6526622e-02,-3.1169415e-02,-2.5759637e-04,7.4976385e-03,7.2700635e-02,2.0644322e-02,2.6957616e-03,3.7666827e-02,7.5813934e-02,4.675448e-02,5.201973e-02,4.076787e-02,-6.4426586e-02,6.426571e-02,-3.5796326e-02,5.8412924e-03,4.0145017e-02,-5.598992e-03,7.391514e-02,4.6532184e-02,2.648525e-02,-7.917926e-03,-5.1054914e-02,-3.785343e-02,1.45254135e-02,-1.840315e-02,8.161688e-02,-6.4983316e-02,6.8670794e-02,-7.5691e-02,2.3057535e-02,9.9888295e-03,-9.714916e-03,-2.5096811e-02,2.4009183e-02,-5.348295e-03,2.7125016e-02,7.6609805e-02,-4.9447447e-02,-6.1075747e-02,7.236445e-02,7.574843e-02,-6.419797e-02,4.9356803e-02,-7.3147796e-02,-3.6069185e-02,-8.022908e-02,6.94398e-02,3.2305643e-03,3.935989e-02,-5.2155234e-02,2.0321555e-02,-3.459946e-02,-4.148797e-02,-1.7059222e-02,3.0761719e-02,7.8068554e-02,-6.420246e-02,4.1333504e-02,-7.474029e-02,4.274983e-02,6.197518e-02,-4.6946593e-02,-5.670273e-02,-3.979341e-02,-2.0246092e-02,-2.5161628e-02,2.3358539e-02,4.562907e-02,6.4186826e-03,1.16252005e-02,-1.1238135e-02,-6.60242e-02,-5.2514248e-02,-7.951576e-02,-8.053883e-02,-2.2793178e-02,-2.1376465e-02,-3.8437616e-02,-6.55837e-02,-2.81457e-02,8.927196e-03,-4.537586e-02,-2.9084813e-02,2.7140647e-02,2.0919144e-02,-4.426047e-03,-6.97501e-02,6.402147e-02,-1.4438748e-02,7.5328395e-02,-1.9583777e-03,1.5526652e-02,-5.910649e-02,7.386513e-03,-7.645415e-02,-5.106896e-03,-6.3581124e-02,4.436302e-02,-4.7973067e-02,2.55652e-02,-6.236744e-02,-4.425384e-03,3.9892644e-02,-7.1024485e-02,-6.147703e-02,-5.5894893e-02,-8.910827e-03,6.0049087e-02,-3.111165e-02,5.9959292e-02,-7.2118744e-02,1.6942933e-02,6.1045587e-04,-6.220707e-02,1.5993401e-02,1.1384636e-02,2.945488e-02,7.9928145e-02,3.515798e-02,-2.6655048e-02,-7.937042e-02,1.7509736e-02,2.7947545e-02,-5.0089184e-02,2.9714406e-04,5.5469677e-02,-3.61235e-02,-7.787225e-02,1.5041523e-02,-6.841857e-02,-1.0334514e-02,2.6308075e-02,6.462853e-02,-4.3156005e-02,-7.71051e-02,-8.254319e-03,-4.657245e-02,-3.0255135e-02,-2.4420835e-02,-2.1496084e-02,-7.524274e-02,7.6783076e-02,5.949165e-02,-7.0642844e-02,3.6857106e-02,-7.648837e-02,-1.922112e-02,4.5360237e-02,-2.6748966e-02,-2.3772217e-02,-6.862097e-02,6.7481235e-02,-2.3481354e-02,1.445397e-02,-4.730613e-02,-6.945071e-02,-7.473223e-03,4.0352024e-02,9.719014e-03,-1.0080896e-02,1.5781641e-02,-1.1798352e-02,-4.990646e-02,-4.8987772e-02,5.7719484e-02,-7.697975e-02,-1.3007417e-02,5.5399716e-02,-7.083761e-02,-1.9674972e-03,-9.433873e-03,5.3272992e-02,6.93606e-02,2.0047799e-03,4.772736e-02,-5.156473e-02,1.8174395e-02,4.742074e-02,2.4565846e-02,2.941966e-02,2.7979739e-02,-3.4010287e-02,7.264398e-02,-2.5037702e-02,-1.2809008e-02,1.7154872e-02,-7.839136e-02,-4.6657108e-02,7.5687796e-02,-4.508406e-02,-6.303887e-02,-4.644564e-02,-7.8313775e-02,3.8685217e-02,6.620148e-02,-3.905811e-02,3.9377466e-02,5.956243e-02,1.2701936e-02,-1.0152087e-03,-6.975781e-02,6.0796812e-02,-6.0221076e-02,-4.1114338e-02,-1.3249718e-02,5.6617096e-02,-6.6946685e-02,-1.9202754e-03,5.6470186e-02,6.251533e-02,-1.9566435e-02,-1.4313683e-03,3.1818286e-02,1.18411705e-02,-5.6786492e-02,-6.93402e-02,-3.83742e-02,-4.8009142e-02,4.8540518e-02,2.9505722e-02,-7.321775e-03,-3.092314e-02,-4.6753168e-02,-5.9306912e-02,2.9402435e-02,-2.8201614e-02,2.2992976e-02,8.06943e-02 };

static float b\_0 [2] = { 0.e+00,0.e+00 };

void cnn(float x\_0[70][50][1], float \*x\_13)

{

static float x\_1 [72][52][1] = { 0 };

static float x\_2 [70][50][8] = { 0 };

static float x\_3 [70][50][8] = { 0 };

static float x\_4 [35][25][8] = { 0 };

static float x\_5 [33][23][16] = { 0 };

static float x\_6 [33][23][16] = { 0 };

static float x\_7 [16][11][16] = { 0 };

static float x\_8 [14][9][32] = { 0 };

static float x\_9 [14][9][32] = { 0 };

static float x\_10 [7][4][32] = { 0 };

static float x\_12 [2] = { 0 };

static float sum\_0 = { 0 };

float \*x\_11 ;

float \*flat\_x\_0 ;

for (int i\_58 = 0; i\_58 < 70; i\_58 += 1) {

for (int i\_57 = 0; i\_57 < 50; i\_57 += 1) {

for (int i\_56 = 0; i\_56 < 1; i\_56 += 1) {

x\_1[i\_58 + 1][i\_57 + 1][i\_56 + 0] = x\_0[i\_58 + 0][i\_57 + 0][i\_56 + 0] - 0;

}

}

}

#ifdef CNN\_TEST

{

FILE \*f = fopen("x\_1", "wb");

for (int i = 0; i < 3744; i++)

fprintf(f, "%8.8e\n", ((float\*)x\_1)[i]);

fclose(f);

}

#endif

for (int i\_47 = 0; i\_47 < 70; i\_47 += 1) {

for (int i\_48 = 0; i\_48 < 50; i\_48 += 1) {

for (int i\_49 = 0; i\_49 < 8; i\_49 += 1) {

x\_2[i\_47 + 0][i\_48 + 0][i\_49 + 0] = b\_3[i\_49 + 0];

}

}

}

for (int i\_50 = 0; i\_50 < 70; i\_50 += 1) {

for (int i\_51 = 0; i\_51 < 50; i\_51 += 1) {

for (int i\_52 = 0; i\_52 < 3; i\_52 += 1) {

for (int i\_53 = 0; i\_53 < 3; i\_53 += 1) {

for (int i\_54 = 0; i\_54 < 1; i\_54 += 1) {

for (int i\_55 = 0; i\_55 < 8; i\_55 += 1) {

x\_2[i\_50 / 1 + 0][i\_51 / 1 + 0][i\_55 + 0] += w\_3[i\_52][i\_53][i\_54][i\_55] \* x\_1[i\_50 + i\_52][i\_51 + i\_53][i\_54];

}

}

}

}

}

}

for (int i\_44 = 0; i\_44 < 70; i\_44 += 1) {

for (int i\_45 = 0; i\_45 < 50; i\_45 += 1) {

for (int i\_46 = 0; i\_46 < 8; i\_46 += 1) {

x\_3[i\_44 + 0][i\_45 + 0][i\_46 + 0] = x\_2[i\_44 + 0][i\_45 + 0][i\_46 + 0] < 0 ? 0 : x\_2[i\_44 + 0][i\_45 + 0][i\_46 + 0];

}

}

}

#ifdef CNN\_TEST

{

FILE \*f = fopen("x\_3", "wb");

for (int i = 0; i < 28000; i++)

fprintf(f, "%8.8e\n", ((float\*)x\_3)[i]);

fclose(f);

}

#endif

for (int i\_39 = 0; i\_39 < 69; i\_39 += 2) {

for (int i\_40 = 0; i\_40 < 49; i\_40 += 2) {

for (int i\_41 = 0; i\_41 < 8; i\_41 += 1) {

x\_4[i\_39 / 2 + 0][i\_40 / 2 + 0][i\_41 + 0] = x\_3[i\_39][i\_40][i\_41];

for (int i\_42 = 0; i\_42 < 2; i\_42 += 1) {

for (int i\_43 = 0; i\_43 < 2; i\_43 += 1) {

x\_4[i\_39 / 2 + 0][i\_40 / 2 + 0][i\_41 + 0] = x\_3[i\_39 + i\_42][i\_40 + i\_43][i\_41] > x\_4[i\_39 / 2 + 0][i\_40 / 2 + 0][i\_41 + 0] ? x\_3[i\_39 + i\_42][i\_40 + i\_43][i\_41] : x\_4[i\_39 / 2 + 0][i\_40 / 2 + 0][i\_41 + 0];

}

}

}

}

}

#ifdef CNN\_TEST

{

FILE \*f = fopen("x\_4", "wb");

for (int i = 0; i < 7000; i++)

fprintf(f, "%8.8e\n", ((float\*)x\_4)[i]);

fclose(f);

}

#endif

for (int i\_30 = 0; i\_30 < 33; i\_30 += 1) {

for (int i\_31 = 0; i\_31 < 23; i\_31 += 1) {

for (int i\_32 = 0; i\_32 < 16; i\_32 += 1) {

x\_5[i\_30 + 0][i\_31 + 0][i\_32 + 0] = b\_2[i\_32 + 0];

}

}

}

for (int i\_33 = 0; i\_33 < 33; i\_33 += 1) {

for (int i\_34 = 0; i\_34 < 23; i\_34 += 1) {

for (int i\_35 = 0; i\_35 < 3; i\_35 += 1) {

for (int i\_36 = 0; i\_36 < 3; i\_36 += 1) {

for (int i\_37 = 0; i\_37 < 8; i\_37 += 1) {

for (int i\_38 = 0; i\_38 < 16; i\_38 += 1) {

x\_5[i\_33 / 1 + 0][i\_34 / 1 + 0][i\_38 + 0] += w\_2[i\_35][i\_36][i\_37][i\_38] \* x\_4[i\_33 + i\_35][i\_34 + i\_36][i\_37];

}

}

}

}

}

}

for (int i\_27 = 0; i\_27 < 33; i\_27 += 1) {

for (int i\_28 = 0; i\_28 < 23; i\_28 += 1) {

for (int i\_29 = 0; i\_29 < 16; i\_29 += 1) {

x\_6[i\_27 + 0][i\_28 + 0][i\_29 + 0] = x\_5[i\_27 + 0][i\_28 + 0][i\_29 + 0] < 0 ? 0 : x\_5[i\_27 + 0][i\_28 + 0][i\_29 + 0];

}

}

}

#ifdef CNN\_TEST

{

FILE \*f = fopen("x\_6", "wb");

for (int i = 0; i < 12144; i++)

fprintf(f, "%8.8e\n", ((float\*)x\_6)[i]);

fclose(f);

}

#endif

for (int i\_22 = 0; i\_22 < 32; i\_22 += 2) {

for (int i\_23 = 0; i\_23 < 22; i\_23 += 2) {

for (int i\_24 = 0; i\_24 < 16; i\_24 += 1) {

x\_7[i\_22 / 2 + 0][i\_23 / 2 + 0][i\_24 + 0] = x\_6[i\_22][i\_23][i\_24];

for (int i\_25 = 0; i\_25 < 2; i\_25 += 1) {

for (int i\_26 = 0; i\_26 < 2; i\_26 += 1) {

x\_7[i\_22 / 2 + 0][i\_23 / 2 + 0][i\_24 + 0] = x\_6[i\_22 + i\_25][i\_23 + i\_26][i\_24] > x\_7[i\_22 / 2 + 0][i\_23 / 2 + 0][i\_24 + 0] ? x\_6[i\_22 + i\_25][i\_23 + i\_26][i\_24] : x\_7[i\_22 / 2 + 0][i\_23 / 2 + 0][i\_24 + 0];

}

}

}

}

}

#ifdef CNN\_TEST

{

FILE \*f = fopen("x\_7", "wb");

for (int i = 0; i < 2816; i++)

fprintf(f, "%8.8e\n", ((float\*)x\_7)[i]);

fclose(f);

}

#endif

for (int i\_13 = 0; i\_13 < 14; i\_13 += 1) {

for (int i\_14 = 0; i\_14 < 9; i\_14 += 1) {

for (int i\_15 = 0; i\_15 < 32; i\_15 += 1) {

x\_8[i\_13 + 0][i\_14 + 0][i\_15 + 0] = b\_1[i\_15 + 0];

}

}

}

for (int i\_16 = 0; i\_16 < 14; i\_16 += 1) {

for (int i\_17 = 0; i\_17 < 9; i\_17 += 1) {

for (int i\_18 = 0; i\_18 < 3; i\_18 += 1) {

for (int i\_19 = 0; i\_19 < 3; i\_19 += 1) {

for (int i\_20 = 0; i\_20 < 16; i\_20 += 1) {

for (int i\_21 = 0; i\_21 < 32; i\_21 += 1) {

x\_8[i\_16 / 1 + 0][i\_17 / 1 + 0][i\_21 + 0] += w\_1[i\_18][i\_19][i\_20][i\_21] \* x\_7[i\_16 + i\_18][i\_17 + i\_19][i\_20];

}

}

}

}

}

}

for (int i\_10 = 0; i\_10 < 14; i\_10 += 1) {

for (int i\_11 = 0; i\_11 < 9; i\_11 += 1) {

for (int i\_12 = 0; i\_12 < 32; i\_12 += 1) {

x\_9[i\_10 + 0][i\_11 + 0][i\_12 + 0] = x\_8[i\_10 + 0][i\_11 + 0][i\_12 + 0] < 0 ? 0 : x\_8[i\_10 + 0][i\_11 + 0][i\_12 + 0];

}

}

}

#ifdef CNN\_TEST

{

FILE \*f = fopen("x\_9", "wb");

for (int i = 0; i < 4032; i++)

fprintf(f, "%8.8e\n", ((float\*)x\_9)[i]);

fclose(f);

}

#endif

for (int i\_5 = 0; i\_5 < 13; i\_5 += 2) {

for (int i\_6 = 0; i\_6 < 8; i\_6 += 2) {

for (int i\_7 = 0; i\_7 < 32; i\_7 += 1) {

x\_10[i\_5 / 2 + 0][i\_6 / 2 + 0][i\_7 + 0] = x\_9[i\_5][i\_6][i\_7];

for (int i\_8 = 0; i\_8 < 2; i\_8 += 1) {

for (int i\_9 = 0; i\_9 < 2; i\_9 += 1) {

x\_10[i\_5 / 2 + 0][i\_6 / 2 + 0][i\_7 + 0] = x\_9[i\_5 + i\_8][i\_6 + i\_9][i\_7] > x\_10[i\_5 / 2 + 0][i\_6 / 2 + 0][i\_7 + 0] ? x\_9[i\_5 + i\_8][i\_6 + i\_9][i\_7] : x\_10[i\_5 / 2 + 0][i\_6 / 2 + 0][i\_7 + 0];

}

}

}

}

}

#ifdef CNN\_TEST

{

FILE \*f = fopen("x\_10", "wb");

for (int i = 0; i < 896; i++)

fprintf(f, "%8.8e\n", ((float\*)x\_10)[i]);

fclose(f);

}

#endif

x\_11 = (float\*)x\_10;

for (int i\_2 = 0; i\_2 < 2; i\_2 += 1) {

x\_12[i\_2 + 0] = b\_0[i\_2 + 0];

}

for (int i\_3 = 0; i\_3 < 896; i\_3 += 1) {

for (int i\_4 = 0; i\_4 < 2; i\_4 += 1) {

x\_12[i\_4 + 0] += x\_11[i\_3] \* w\_0[i\_3][i\_4];

}

}

flat\_x\_0 = x\_12;

for (int i\_0 = 0; i\_0 < 2; i\_0 += 1) {

sum\_0 += expf(flat\_x\_0[i\_0 + 0]);

}

for (int i\_1 = 0; i\_1 < 2; i\_1 += 1) {

x\_13[i\_1 + 0] = expf(x\_12[i\_1 + 0]) / sum\_0;

}

#ifdef CNN\_TEST

{

FILE \*f = fopen("x\_13", "wb");

for (int i = 0; i < 2; i++)

fprintf(f, "%8.8e\n", ((float\*)x\_13)[i]);

fclose(f);

}

#endif

return;

}

#ifdef CNN\_TEST

#include <stdio.h>

#ifdef TIMING

#include <ctime>

#endif

int main()

{

int i, j, k, width, height, max\_colour;

unsigned char byte;

float x[70][50][1];

float scores[2];

FILE \*f = fopen("img.bin", "rb");

fread((float\*)x, sizeof(float), 70 \* 50 \* 1, f);

fclose(f);

cnn(x, scores);

FILE \*w = fopen("result.txt", "w");

for (int i = 0; i < 2; i++)

fprintf(w, "%f ", scores[i]);

fclose(w);

}

#endif