```
(.venv) ubuntu@146-235-212-176:~/proj/mod3-Navxihziq$ python project/run_fast_tensor.py --BACKEND cpu --HIDDEN 100 --DATASET split --RATE 0.05
Epoch  0  loss  5.9101930645972205 correct 41 time 10.86s time per epoch 10.86s
Epoch  10  loss  4.330197018544185 correct 41 time 11.42s time per epoch 1.04s
Epoch  20  loss  4.840887437707577 correct 44 time 11.98s time per epoch 0.57s
Epoch  30  loss  3.5711154649830523 correct 46 time 12.54s time per epoch 0.40s
Epoch  40  loss  3.026331320689089 correct 45 time 13.12s time per epoch 0.32s
Epoch  50  loss  2.642589625011137 correct 48 time 13.69s time per epoch 0.27s
Epoch  60  loss  3.520394284182153 correct 45 time 14.25s time per epoch 0.23s
Epoch  70  loss  2.170091639489051 correct 48 time 14.82s time per epoch 0.21s
Epoch  80  loss  2.768479466926738 correct 49 time 15.39s time per epoch 0.19s
Epoch  90  loss  1.3835741535914132 correct 48 time 15.96s time per epoch 0.18s
Epoch  100  loss  1.1296803368152923 correct 48 time 16.54s time per epoch 0.16s
Epoch  110  loss  1.190552584328147 correct 49 time 17.11s time per epoch 0.15s
Epoch  120  loss  1.4359393174369297 correct 48 time 17.69s time per epoch 0.15s
Epoch  130  loss  0.5789213711132604 correct 49 time 18.26s time per epoch 0.14s
Epoch  140  loss  1.198079132354498 correct 49 time 18.82s time per epoch 0.13s
Epoch  150  loss  1.5767996539333797 correct 48 time 19.39s time per epoch 0.13s
Epoch  160  loss  0.7438462037027821 correct 47 time 19.96s time per epoch 0.12s
Epoch  170  loss  0.6330879140080915 correct 49 time 20.53s time per epoch 0.12s
Epoch  180  loss  1.274123707431412 correct 49 time 21.11s time per epoch 0.12s
Epoch  190  loss  0.36591307624590924 correct 48 time 21.68s time per epoch 0.11s
Epoch  200  loss  0.4601610400047386 correct 49 time 22.25s time per epoch 0.11s
Epoch  210  loss  1.0371445752102542 correct 50 time 22.82s time per epoch 0.11s
Epoch  220  loss  1.7070120596294056 correct 48 time 23.38s time per epoch 0.11s
Epoch  230  loss  0.3678046736380915 correct 49 time 23.93s time per epoch 0.10s
Epoch  240  loss  1.399682843346676 correct 49 time 24.48s time per epoch 0.10s
Epoch  250  loss  0.12223362711733624 correct 50 time 25.04s time per epoch 0.10s
Epoch  260  loss  1.224805419428224 correct 49 time 25.59s time per epoch 0.10s
Epoch  270  loss  0.7847136822409694 correct 50 time 26.14s time per epoch 0.10s
Epoch  280  loss  1.185216547217252 correct 49 time 26.70s time per epoch 0.10s
Epoch  290  loss  0.24004317171089917 correct 49 time 27.25s time per epoch 0.09s
Epoch  300  loss  0.9344774931585192 correct 49 time 27.84s time per epoch 0.09s
Epoch  310  loss  1.1226021752652613 correct 49 time 28.39s time per epoch 0.09s
Epoch  320  loss  0.9828767653866833 correct 49 time 28.95s time per epoch 0.09s
Epoch  330  loss  3.053067476861955 correct 47 time 29.50s time per epoch 0.09s
Epoch  340  loss  1.4477460329705019 correct 49 time 30.07s time per epoch 0.09s
Epoch  350  loss  0.12525886443988682 correct 49 time 30.64s time per epoch 0.09s
Epoch  360  loss  0.4701408752468481 correct 49 time 31.21s time per epoch 0.09s
Epoch  370  loss  0.7150391195616292 correct 49 time 31.78s time per epoch 0.09s
Epoch  380  loss  1.045276071698016 correct 49 time 32.34s time per epoch 0.08s
Epoch  390  loss  0.3305599950180947 correct 49 time 32.89s time per epoch 0.08s
Epoch  400  loss  0.03233998707886596 correct 49 time 33.44s time per epoch 0.08s
Epoch  410  loss  0.3812763885420498 correct 49 time 34.01s time per epoch 0.08s
Epoch  420  loss  1.4208839874336214 correct 49 time 34.56s time per epoch 0.08s
Epoch  430  loss  1.0537495461022868 correct 49 time 35.12s time per epoch 0.08s
Epoch  440  loss  0.2563994024833926 correct 49 time 35.68s time per epoch 0.08s
Epoch  450  loss  0.3369689659069619 correct 50 time 36.24s time per epoch 0.08s
Epoch  460  loss  0.9760178888304979 correct 48 time 36.81s time per epoch 0.08s
Epoch  470  loss  0.7194967500254841 correct 49 time 37.37s time per epoch 0.08s
Epoch  480  loss  0.544155048408407 correct 48 time 37.94s time per epoch 0.08s
Epoch  490  loss  0.0462854478750269 correct 49 time 38.51s time per epoch 0.08s
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