

```
>> example5_1
Loading data/mnist/train-labels-idx1-ubyte
Loading data/mnist/train-images-idx3-ubyte
Loading data/mnist/t10k-labels-idx1-ubyte
Loading data/mnist/t10k-images-idx3-ubyte

TRAIN_NUM =

    1800

TEST_NUM =

    360

train_res_mat =

    130     4    13    12    12    23    16    20     4     9
     6   132     9    25    21    11     9     9    20    26
     6    10    79    20     1    15     7     9    20    11
     8     0     8    52     2     7     3    14     8    12
    12     7    12    10    60    18     4     8    18    10
     3     0    16     4     3    15     5     7     6     9
     5     8     9    17    50    66   123     1    45    29
     3     9    31    21     7    11     2   108    17    26
     0     0     6     2     6     1    10     0    11     3
     1    15     6    13    16    18     2     6    22    44

train_accuracy =

    0.4189

test_res_mat =

    32     0     2     4     4     5     4     5     1     2
     1    20     4     4     2     2     2     5     6     6
     1     2     9     6     0     1     1     1     3     3
     2     0     0     7     2     3     1     3     3     5
     2     1     1     1    11     1     0     1     3     5
     0     0     0     0     2     3     2     3     4     1
     2     6     1     8    11     5    22     0    12     0
     1     2     6     6     1     3     2    15     5     8
     0     0     1     0     2     2     1     0     3     0
     1     0     3     4     3     6     0     1     5     7

test_accuracy =

    0.3583

>>
```