```
>> example5_1_3
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 =

  Columns 1 through 5

        5685           1          55          33           9
           1        6551          27          18          30
          13          51        5318         172          43
           8          24          84        5380           7
          14           8          81           8        5373
          32          35          33         204          12
          89           8         107          53          93
          13          12         108          70          19
          52          39         126         126          35
          16          13          19          67         221

  Columns 6 through 10

          73          59          25          44          45
          43          40          56          82          36
          81          68          78          76          26
         194           2          30         134          71
          82          51          71          44         190
        4512          92           9         135          56
         152        5556          11          83          19
          30           7        5828          19         118
         178          41          23        5139          72
          76           2         134          95        5316


train_accuracy =

    0.9110


test_res_mat =

    18     0     0     0     0     1     0     0     0     0
     0    13     0     1     0     0     0     9     0     3
     6     2    23     7     1     3     1    14     2     2
```

```
     4      0      2     20      1      3      1      8      4      7
     0      0      0      0     15      0      3      0      0      0
     1      9      0      2      1     13      9      1      4      6
     5      8      2      1      5      9     15      3      9      2
     0      0      3      1      1      3      1      3      1      3
     0      6      2      2      2      4      3      1     12     11
     7      2      0      0      5      0      0      2      2      4
```

test_accuracy =

    0.3778

>>