```
In[1]:=   Clear["Global`*"]

In[2]:=   SetDirectory[$UserDocumentsDirectory];

In[3]:=   << JLink`;
          InstallJava[];
          ReinstallJava[JVMArguments → "-Xmx2048m"]
```

Out[5]=   LinkObject[[＋] [⇄ WL] Name: '/Applications/Mathematica.app/SystemFiles/Links/JLink/JLink.a
                                  Link mode: Listen]

TRAIN SET;

```
In[6]:=   a0 = Import["mnist_train.csv"];

In[22]:=  {Dimensions[a0], Dimensions[Flatten[a0]]}
```
Out[22]= {{60 000, 785}, {47 100 000}}

TEST SET;

```
In[7]:=   a = Import["mnist_test.csv"];

In[23]:=  {Dimensions[a], Dimensions[Flatten[a]]}
```
Out[23]= {{10 000, 785}, {7 850 000}}

```
In[8]:=   t0 = a0[[#]][[1]] & /@ Table[k, {k, 1, Dimensions[a0][[1]], 1}];

In[9]:=   b0 = Drop[a0[[#]], 1] & /@ Table[k, {k, 1, Dimensions[a0][[1]], 1}];

In[10]:=  o0 = Partition[b0[[#]], 28] & /@ Table[k, {k, 1, Dimensions[a0][[1]], 1}];
```

TEST SET;

```
In[39]:=  t = a[[#]][[1]] & /@ Table[k, {k, 1, Dimensions[a][[1]], 1}]
```
Out[39]= {7, 2, 1, 0, 4, 1, 4, 9, 5, 9, 0, 6, 9, 0, 1, 5, 9, 7, 3, 4, 9, 6, 6, 5, 4, 0, 7, 4, 0, 1, 3, 1, 3, 4, 7, 2, 7, 1, 2, 1, 1, 7, 4, 2, 3, 5, 1, 2,
          4, 4, 6, 3, 5, 5, 6, 0, 4, 1, 9, 5, 7, 8, 9, 3, 7, 4, 6, 4, 3, 0, 7, 0, 2, 9, 1, 7, 3, 2, 9, 7, 7, 6, 2, 7, 8, 4, 7, 3, 6, 1, 3, 6,
          9, 3, 1, 4, 1, 7, 6, 9, 6, 0, 5, 4, 9, 9, 2, 1, 9, 4, 8, 7, 3, 9, 7, 4, 4, 4, 9, 2, 5, 4, 7, 6, 7, 9, 0, 5, 8, 5, 6, 6, 5, 7, 8, 1,
          0, 1, 6, 4, 6, 7, 3, 1, 7, 1, 8, 2, 0, 2, 9, 9, 5, 5, 1, 5, 6, 0, 3, 4, 4, 6, 5, 4, 6, 5, 4, 5, 1, 4, 4, 7, 2, 3, 2, 7, 1, 8, 1, 8,
          1, 8, 5, 0, 8, 9, 2, 5, 0, 1, 1, 1, 0, 9, 0, 3, 1, 6, 4, 2, 3, 6, 1, 1, 1, 3, 9, 5, 2, 9, 4, 5, 9, 3, 9, 0, 3, 6, 5, 5, 7, 2, 2, 7,
          1, 2, 8, 4, 1, 7, 3, 3, 8, 8, 7, 9, 2, 2, 4, 1, 5, 9, 8, 7, 2, 3, 0, 4, 4, 2, 4, 1, 9, 5, 7, 7, 2, 8, 2, 6, 8, 5, 7, 7, 9, 1, 8, 1,
          8, 0, 3, 0, 1, 9, 9, 4, 1, 8, 2, 1, 2, 9, 7, 5, 9, 2, 6, 4, 1, 5, 8, 2, 9, 2, 0, 4, 0, 0, 2, 8, 4, 7, 1, 2, 4, 0, 2, 7, 4, 3, 3, 0,
          0, 3, 1, 9, 6, 5, 2, 5, 9, 2, 9, 3, 0, 4, 2, 0, 7, 1, 1, 2, 1, 5, 3, 3, 9, 7, 8, 6, 5, 6, 1, 3, 8, 1, 0, 5, 1, 3, 1, 5, 5, 6, 1, 8,
          5, 1, 7, 9, 4, 6, 2, 2, 5, 0, 6, 5, 6, 3, 7, 2, 0, 8, 8, 5, 4, 1, 1, 4, 0, 3, 3, 7, 6, 1, 6, 2, 1, 9, 2, 8, 6, 1, 9, 5, 2, 5, 4, 4,
          2, 8, 3, 8, 2, 4, 5, 0, 3, 1, 7, 7, 5, 7, 9, 7, 1, 9, 2, 1, 4, 2, 9, 2, 0, 4, 9, 1, 4, 8, 1, 8, 4, 5, 9, 8, 8, 3, 7, 6, 0, 0, 3, 0,
          2, 6, 6, 4, 9, 3, 3, 3, 2, 3, 9, 1, 2, 6, 8, 0, 5, 6, 6, 6, 3, 8, 8, 2, 7, 5, 8, 9, 6, 1, 8, 4, 1, 2, 5, 9, 1, 9, 7, 5, 4, 0, 8, 9,
          9, 1, 0, 5, 2, 3, 7, 8, 9, 4, 0, 6, 3, 9, 5, 2, 1, 3, 1, 3, 6, 5, 7, 4, 2, 2, 6, 3, 2, 6, 5, 4, 8, 9, 7, 1, 3, 0, 3, 8, 3, 1, 9, 3,
          4, 4, 6, 4, 2, 1, 8, 2, 5, 4, 8, 8, 4, 0, 0, 2, 3, 2, 7, 7, 0, 8, 7, 4, 4, 7, 9, 6, 9, 0, 9, 8, 0, 4, 6, 0, 6, 3, 5, 4, 8, 3, 3, 9,
          3, 3, 3, 7, 8, 0, 8, 2, 1, 7, 0, 6, 5, 4, 3, 8, 0, 9, 6, 3, 8, 0, 9, 9, 6, 8, 6, 8, 5, 7, 8, 6, 0, 2, 4, 0, 2, 2, 3, 1, 9, 7, 5, 1,
          0, 8, 4, 6, 2, 6, 7, 9, 3, 2, 9, 8, 2, 2, 9, 2, 7, 3, 5, 9, 1, 8, 0, 2, 0, 5, 2, 1, 3, 7, 6, 7, 1, 2, 5, 8, 0, 3, 7, 2, 4, 0, 9, 1,
          8, 6, 7, 7, 4, 3, 4, 9, 1, 9, 5, 1, 7, 3, 9, 7, 6, 9, 1, 3, 7, 8, 3, 3, 6, 7, 2, 8, 5, 8, 5, 1, 1, 4, 4, 3, 1, 0, 7, 7, 0, 7, 9, 4,
          4, 8, 5, 5, 4, 0, 8, 2, 1, 0, 8, 4, 5, 0, 4, 0, 6, 1, 7, 3, 2, 6, 7, 2, 6, 9, 3, 1, 4, 6, 2, 5, 4, 2, 0, 6, 2, 1, 7, 3, 4, 1, 0, 5,
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          0, 6, 2, 2, 3, 1, 5, 1, 2, 0, 3, 8, 1, 2, 6, 7, 1, 6, 2, 3, 9, 0, 1, 2, 2, 0, 8, 9, 9, 0, 2, 5, 1, 9, 7, 8, 1, 0, 4, 1, 7, 9, 6, 4,
          2, 6, 8, 1, 3, 7, 5, 4, 4, 1, 8, 1, 3, 8, 1, 2, 5, 8, 0, 6, 2, 1, 1, 7, 1, 5, 3, 4, 6, 9, 5, 0, 9, 2, 2, 4, 8, 2, 1, 7, 2, 4, 9, 4,
          4, 0, 3, 9, 2, 2, 3, 3, 8, 3, 5, 7, 3, 5, 8, 1, 2, 4, 4, 6, 4, 9, 5, 1, 0, 6, 9, 5, 9, 5, 9, 7, 3, 8, 0, 3, 7, 1, 3, 6, 7, 8, 5, 9,
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          0, 8, 3, 6, 9, 6, 0, 2, 7, 4, 4, 4, 4, 6, 6, 4, 7, 9, 3, 4, 5, 5, 8, 7, 3, 7, 2, 7, 0, 2, 4, 1, 1, 6, 6, 9, 2, 8, 7, 2, 0, 1, 5, 0,
          9, 1, 7, 0, 6, 0, 8, 6, 8, 1, 8, 0, 3, 3, 7, 2, 3, 6, 2, 1, 6, 1, 1, 3, 7, 9, 0, 8, 0, 5, 4, 0, 2, 8, 7, 2, 9, 8, 4, 0, 9, 5, 8, 5,
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          2, 4, 9, 8, 0, 9, 9, 4, 6, 5, 4, 9, 1, 8, 3, 4, 9, 9, 1, 2, 2, 8, 1, 9, 6, 4, 0, 9, 4, 8, 3, 8, 6, 0, 2, 5, 1, 9, 6, 2, 9, 4, 0, 9,
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1, 9, 8, 8, 6, 0, 0, 4, 9, 6, 8, 2, 2, 3, 8, 4, 8, 2, 2, 1, 7, 5, 4, 4, 0, 4, 3, 9, 7, 3, 1, 0, 1, 2, 5, 9, 2, 1, 0, 1, 8, 9, 1,
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3, 7, 2, 5, 8, 1, 8, 6, 2, 9, 5, 7, 5, 7, 8, 6, 2, 5, 1, 4, 8, 4, 5, 8, 3, 0, 6, 2, 7, 3, 3, 2, 1, 0, 7, 3, 4, 0, 3, 9, 3, 2, 8,
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8, 8, 8, 4, 0, 4, 4, 1, 5, 2, 8, 3, 4, 9, 5, 2, 8, 1, 5, 3, 7, 9, 4, 2, 5, 6, 3, 5, 9, 3, 5, 9, 3, 1, 9, 5, 3, 0, 6, 9, 8, 4, 0,
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4, 7, 8, 4, 9, 8, 9, 9, 7, 5, 9, 2, 8, 2, 2, 0, 2, 2, 3, 8, 4, 6, 8, 6, 8, 2, 4, 6, 7, 9, 3, 3, 9, 4, 3, 1, 4, 4, 7, 0, 5, 9, 6,
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8, 8, 2, 8, 3, 5, 7, 8, 0, 8, 5, 7, 1, 1, 0, 1, 3, 7, 8, 5, 0, 7, 1, 1, 0, 1, 1, 4, 5, 2, 7, 6, 2, 3, 0, 2, 8, 5, 9, 6, 9, 7, 2,
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```

In[12]:= `b = Drop[a[[#]], 1] & /@ Table[k, {k, 1, Dimensions[a][[1]], 1}];`

In[13]:= `o = Partition[b[[#]], 28] & /@ Table[k, {k, 1, Dimensions[a][[1]], 1}];`

In[14]:= `t2 = Total[Abs[Flatten[o[[1]]] - Flatten[o0[[#]]]]] & /@ Table[k, {k, 1, Dimensions[o0][[1]], 1}];`

In[15]:= `t3 = Flatten[Position[t2, Min[t2]]];`

In[16]:= `f[x_] := Flatten[Position[Total[Abs[Flatten[o[[x]]] - Flatten[o0[[#]]]]] & /@ Table[k, {k, 1, Dimensions[o0][[1]], 1}],`
`          Min[Total[Abs[Flatten[o[[x]]] - Flatten[o0[[#]]]]] & /@ Table[k, {k, 1, Dimensions[o0][[1]], 1}]]]];`

In[17]:= `t5 = f /@ Table[k, {k, 1, Dimensions[t][[1]], 1}];`

In[18]:= `t55 = Flatten[If[Dimensions[t5[[#]]][[1]] > 1, t5[[#]][[1]], t5[[#]]] & /@ Table[k, {k, 1, Dimensions[t5][[1]], 1}]];`

In[19]:= `tt = t0[[#]] & /@ Flatten[t55];`

In[20]:= **ACCURACY;**

In[21]:= `N[Count[t - tt, 0] / Dimensions[t][[1]]]`

Out[21]= `0.9631`

SAMPLE OF 1,000 OUTPUTS;

In[38]:= `{t[[#]], MatrixPlot[o[[#]], ImageSize → 80], MatrixPlot[o0[[t55[[#]]]], ImageSize → 80]} & /@ Table[k, {k, 1, 1000, 1}]`

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