Python 3.6.3 (v3.6.3:2c5fed86e0, Oct 3 2017, 00:32:08)

[GCC 4.2.1 (Apple Inc. build 5666) (dot 3)] on darwin

Type "copyright", "credits" or "license()" for more information.

>>>

================ RESTART: /Users/Junya/Desktop/hw2/hw2 (2).py ================

K = 1

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

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Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 2 Computed Class = 3

Desired Class = 2 Computed Class = 2

Desired Class = 2 Computed Class = 2

Desired Class = 2 Computed Class = 7

Desired Class = 2 Computed Class = 2

Desired Class = 3 Computed Class = 7

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 9

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 6

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 5

Desired Class = 6 Computed Class = 0

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 3

Desired Class = 8 Computed Class = 8

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 7

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Accuracy Rate = 84.0

Number of mis-classified test samples = 8

Total number of test samples = 50

K = 2

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 2

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

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Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 2 Computed Class = 8

Desired Class = 2 Computed Class = 2

Desired Class = 2 Computed Class = 2

Desired Class = 2 Computed Class = 6

Desired Class = 2 Computed Class = 2

Desired Class = 3 Computed Class = 8

Desired Class = 3 Computed Class = 2

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 4 Computed Class = 2

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 9

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 6

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 5

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Accuracy Rate = 84.0

Number of mis-classified test samples = 8

Total number of test samples = 50

K = 3

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 1 Computed Class = 1

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Desired Class = 2 Computed Class = 8

Desired Class = 2 Computed Class = 2

Desired Class = 2 Computed Class = 2

Desired Class = 2 Computed Class = 6

Desired Class = 2 Computed Class = 7

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Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 7

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 8

Desired Class = 5 Computed Class = 8

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 5

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 3

Desired Class = 8 Computed Class = 8

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 7

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Accuracy Rate = 84.0

Number of mis-classified test samples = 8

Total number of test samples = 50

K = 4

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 2 Computed Class = 2

Desired Class = 2 Computed Class = 2

Desired Class = 2 Computed Class = 3

Desired Class = 2 Computed Class = 6

Desired Class = 2 Computed Class = 2

Desired Class = 3 Computed Class = 9

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 4 Computed Class = 2

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 9

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 7

Desired Class = 5 Computed Class = 5

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 9

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Accuracy Rate = 86.0

Number of mis-classified test samples = 7

Total number of test samples = 50

K = 5

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 9

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 2 Computed Class = 8

Desired Class = 2 Computed Class = 2

Desired Class = 2 Computed Class = 1

Desired Class = 2 Computed Class = 7

Desired Class = 2 Computed Class = 2

Desired Class = 3 Computed Class = 9

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 8

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 4 Computed Class = 8

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 9

Desired Class = 5 Computed Class = 9

Desired Class = 5 Computed Class = 6

Desired Class = 5 Computed Class = 8

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 5

Desired Class = 6 Computed Class = 0

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Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 7 Computed Class = 9

Desired Class = 7 Computed Class = 9

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 9

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 7

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Accuracy Rate = 68.0

Number of mis-classified test samples = 16

Total number of test samples = 50

K = 6

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 7

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 7

Desired Class = 1 Computed Class = 1

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Desired Class = 2 Computed Class = 2

Desired Class = 2 Computed Class = 2

Desired Class = 2 Computed Class = 6

Desired Class = 2 Computed Class = 3

Desired Class = 3 Computed Class = 9

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 5

Desired Class = 4 Computed Class = 5

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 9

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 9

Desired Class = 5 Computed Class = 8

Desired Class = 5 Computed Class = 6

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 7

Desired Class = 5 Computed Class = 5

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 3

Desired Class = 7 Computed Class = 9

Desired Class = 8 Computed Class = 9

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 4

Desired Class = 9 Computed Class = 9

Accuracy Rate = 66.0

Number of mis-classified test samples = 17

Total number of test samples = 50

K = 7

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

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Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 2 Computed Class = 3

Desired Class = 2 Computed Class = 3

Desired Class = 2 Computed Class = 7

Desired Class = 2 Computed Class = 7

Desired Class = 2 Computed Class = 1

Desired Class = 3 Computed Class = 5

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 9

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 7

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 8

Desired Class = 5 Computed Class = 0

Desired Class = 5 Computed Class = 9

Desired Class = 5 Computed Class = 5

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 3

Desired Class = 8 Computed Class = 8

Desired Class = 9 Computed Class = 7

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Accuracy Rate = 74.0

Number of mis-classified test samples = 13

Total number of test samples = 50

K = 8

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 2 Computed Class = 8

Desired Class = 2 Computed Class = 2

Desired Class = 2 Computed Class = 7

Desired Class = 2 Computed Class = 7

Desired Class = 2 Computed Class = 1

Desired Class = 3 Computed Class = 9

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 8

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 4 Computed Class = 6

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 9

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 9

Desired Class = 5 Computed Class = 3

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 3

Desired Class = 5 Computed Class = 4

Desired Class = 5 Computed Class = 5

Desired Class = 6 Computed Class = 0

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 9

Desired Class = 8 Computed Class = 9

Desired Class = 8 Computed Class = 8

Desired Class = 9 Computed Class = 7

Desired Class = 9 Computed Class = 7

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 4

Desired Class = 9 Computed Class = 4

Accuracy Rate = 62.0

Number of mis-classified test samples = 19

Total number of test samples = 50

K = 9

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 6

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

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Desired Class = 2 Computed Class = 8

Desired Class = 2 Computed Class = 2

Desired Class = 2 Computed Class = 1

Desired Class = 2 Computed Class = 6

Desired Class = 2 Computed Class = 1

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 8

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 5

Desired Class = 4 Computed Class = 1

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 6

Desired Class = 5 Computed Class = 3

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 5

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 7 Computed Class = 3

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 9

Desired Class = 8 Computed Class = 9

Desired Class = 8 Computed Class = 8

Desired Class = 9 Computed Class = 7

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 4

Desired Class = 9 Computed Class = 9

Accuracy Rate = 70.0

Number of mis-classified test samples = 15

Total number of test samples = 50

K = 10

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 5

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 1 Computed Class = 1

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Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 2 Computed Class = 1

Desired Class = 2 Computed Class = 1

Desired Class = 2 Computed Class = 1

Desired Class = 2 Computed Class = 6

Desired Class = 2 Computed Class = 1

Desired Class = 3 Computed Class = 7

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 9

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 7

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 6

Desired Class = 5 Computed Class = 3

Desired Class = 5 Computed Class = 9

Desired Class = 5 Computed Class = 3

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 7 Computed Class = 9

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 2

Desired Class = 7 Computed Class = 9

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 5

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 9 Computed Class = 7

Desired Class = 9 Computed Class = 7

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 4

Desired Class = 9 Computed Class = 9

Accuracy Rate = 60.0

Number of mis-classified test samples = 20

Total number of test samples = 50

K = 11

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 4

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 2 Computed Class = 1

Desired Class = 2 Computed Class = 1

Desired Class = 2 Computed Class = 1

Desired Class = 2 Computed Class = 7

Desired Class = 2 Computed Class = 1

Desired Class = 3 Computed Class = 7

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 2

Desired Class = 3 Computed Class = 3

Desired Class = 4 Computed Class = 9

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 9

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 6

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 3

Desired Class = 5 Computed Class = 5

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 4

Desired Class = 7 Computed Class = 9

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 5

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 5

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 7

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Accuracy Rate = 66.0

Number of mis-classified test samples = 17

Total number of test samples = 50

K = 12

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 7

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 2 Computed Class = 8

Desired Class = 2 Computed Class = 2

Desired Class = 2 Computed Class = 1

Desired Class = 2 Computed Class = 7

Desired Class = 2 Computed Class = 1

Desired Class = 3 Computed Class = 9

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 5

Desired Class = 4 Computed Class = 6

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 7

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 8

Desired Class = 5 Computed Class = 3

Desired Class = 5 Computed Class = 7

Desired Class = 5 Computed Class = 5

Desired Class = 6 Computed Class = 0

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 2

Desired Class = 7 Computed Class = 9

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 9

Desired Class = 7 Computed Class = 7

Desired Class = 8 Computed Class = 9

Desired Class = 8 Computed Class = 9

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 5

Desired Class = 8 Computed Class = 8

Desired Class = 9 Computed Class = 4

Desired Class = 9 Computed Class = 7

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Accuracy Rate = 58.0

Number of mis-classified test samples = 21

Total number of test samples = 50

K = 13

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 4

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 2 Computed Class = 1

Desired Class = 2 Computed Class = 1

Desired Class = 2 Computed Class = 1

Desired Class = 2 Computed Class = 7

Desired Class = 2 Computed Class = 1

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 8

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 9

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 9

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 6

Desired Class = 5 Computed Class = 3

Desired Class = 5 Computed Class = 9

Desired Class = 5 Computed Class = 5

Desired Class = 6 Computed Class = 0

Desired Class = 6 Computed Class = 4

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 7 Computed Class = 9

Desired Class = 7 Computed Class = 9

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 8 Computed Class = 9

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 5

Desired Class = 8 Computed Class = 9

Desired Class = 8 Computed Class = 8

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Accuracy Rate = 62.0

Number of mis-classified test samples = 19

Total number of test samples = 50

K = 14

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 9

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 2 Computed Class = 8

Desired Class = 2 Computed Class = 2

Desired Class = 2 Computed Class = 3

Desired Class = 2 Computed Class = 6

Desired Class = 2 Computed Class = 1

Desired Class = 3 Computed Class = 7

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 9

Desired Class = 4 Computed Class = 9

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 7

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 6

Desired Class = 5 Computed Class = 6

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 5

Desired Class = 6 Computed Class = 0

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 4

Desired Class = 7 Computed Class = 9

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 8 Computed Class = 9

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 7

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Accuracy Rate = 68.0

Number of mis-classified test samples = 16

Total number of test samples = 50

K = 15

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 6

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 2 Computed Class = 8

Desired Class = 2 Computed Class = 1

Desired Class = 2 Computed Class = 1

Desired Class = 2 Computed Class = 4

Desired Class = 2 Computed Class = 1

Desired Class = 3 Computed Class = 7

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 4 Computed Class = 1

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 5 Computed Class = 3

Desired Class = 5 Computed Class = 6

Desired Class = 5 Computed Class = 3

Desired Class = 5 Computed Class = 9

Desired Class = 5 Computed Class = 1

Desired Class = 6 Computed Class = 5

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 4

Desired Class = 7 Computed Class = 4

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 8 Computed Class = 5

Desired Class = 8 Computed Class = 5

Desired Class = 8 Computed Class = 5

Desired Class = 8 Computed Class = 6

Desired Class = 8 Computed Class = 5

Desired Class = 9 Computed Class = 7

Desired Class = 9 Computed Class = 7

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 7

Desired Class = 9 Computed Class = 9

Accuracy Rate = 52.0

Number of mis-classified test samples = 24

Total number of test samples = 50

K = 16

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 2 Computed Class = 2

Desired Class = 2 Computed Class = 2

Desired Class = 2 Computed Class = 3

Desired Class = 2 Computed Class = 3

Desired Class = 2 Computed Class = 7

Desired Class = 3 Computed Class = 7

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 4 Computed Class = 1

Desired Class = 4 Computed Class = 9

Desired Class = 4 Computed Class = 9

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 9

Desired Class = 5 Computed Class = 0

Desired Class = 5 Computed Class = 8

Desired Class = 5 Computed Class = 0

Desired Class = 5 Computed Class = 7

Desired Class = 5 Computed Class = 5

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 9

Desired Class = 7 Computed Class = 9

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 2

Desired Class = 8 Computed Class = 5

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 7

Desired Class = 9 Computed Class = 7

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 4

Accuracy Rate = 62.0

Number of mis-classified test samples = 19

Total number of test samples = 50

K = 17

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 2 Computed Class = 8

Desired Class = 2 Computed Class = 1

Desired Class = 2 Computed Class = 1

Desired Class = 2 Computed Class = 7

Desired Class = 2 Computed Class = 6

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 2

Desired Class = 3 Computed Class = 8

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 7

Desired Class = 4 Computed Class = 9

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 7

Desired Class = 5 Computed Class = 9

Desired Class = 5 Computed Class = 8

Desired Class = 5 Computed Class = 0

Desired Class = 5 Computed Class = 9

Desired Class = 5 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 3

Desired Class = 8 Computed Class = 5

Desired Class = 8 Computed Class = 7

Desired Class = 8 Computed Class = 8

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 7

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 4

Desired Class = 9 Computed Class = 4

Accuracy Rate = 58.0

Number of mis-classified test samples = 21

Total number of test samples = 50

K = 18

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 9

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 2 Computed Class = 8

Desired Class = 2 Computed Class = 1

Desired Class = 2 Computed Class = 7

Desired Class = 2 Computed Class = 6

Desired Class = 2 Computed Class = 1

Desired Class = 3 Computed Class = 9

Desired Class = 3 Computed Class = 2

Desired Class = 3 Computed Class = 8

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 4 Computed Class = 9

Desired Class = 4 Computed Class = 9

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 4

Desired Class = 5 Computed Class = 9

Desired Class = 5 Computed Class = 6

Desired Class = 5 Computed Class = 6

Desired Class = 5 Computed Class = 3

Desired Class = 5 Computed Class = 1

Desired Class = 6 Computed Class = 9

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 7 Computed Class = 9

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 9

Desired Class = 8 Computed Class = 1

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 5

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 3

Desired Class = 9 Computed Class = 7

Desired Class = 9 Computed Class = 1

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 7

Accuracy Rate = 50.0

Number of mis-classified test samples = 25

Total number of test samples = 50

K = 19

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 4

Desired Class = 0 Computed Class = 0

Desired Class = 0 Computed Class = 0

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 1 Computed Class = 1

Desired Class = 2 Computed Class = 8

Desired Class = 2 Computed Class = 3

Desired Class = 2 Computed Class = 3

Desired Class = 2 Computed Class = 6

Desired Class = 2 Computed Class = 2

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 3 Computed Class = 3

Desired Class = 4 Computed Class = 1

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 9

Desired Class = 4 Computed Class = 4

Desired Class = 4 Computed Class = 7

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 5

Desired Class = 5 Computed Class = 3

Desired Class = 5 Computed Class = 8

Desired Class = 5 Computed Class = 1

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 6 Computed Class = 6

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 7

Desired Class = 7 Computed Class = 9

Desired Class = 7 Computed Class = 4

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 8

Desired Class = 8 Computed Class = 3

Desired Class = 8 Computed Class = 3

Desired Class = 9 Computed Class = 7

Desired Class = 9 Computed Class = 8

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 9

Desired Class = 9 Computed Class = 7

Accuracy Rate = 64.0

Number of mis-classified test samples = 18

Total number of test samples = 50

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