Exercise 2

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Output：

k: 11

Accuracy: 96.15384615384616%

k: 12

Accuracy: 96.15384615384616%

k: 13

Accuracy: 96.15384615384616%

k: 14

Accuracy: 96.15384615384616%

k: 15

Accuracy: 96.15384615384616%

k: 16

Accuracy: 96.15384615384616%

k: 17

Accuracy: 94.87179487179486%

k: 18

Accuracy: 96.15384615384616%

k: 19

Accuracy: 94.87179487179486%

k: 20

Accuracy: 94.87179487179486%

k: 72

Accuracy: 29.48717948717949%

k: 1

Accuracy: 93.58974358974359%

k: 2

Accuracy: 93.58974358974359%

k: 3

Accuracy: 94.87179487179486%

k: 4

Accuracy: 94.87179487179486%

k: 5

Accuracy: 94.87179487179486%

k: 6

Accuracy: 94.87179487179486%

k: 7

Accuracy: 96.15384615384616%

k: 8

Accuracy: 96.15384615384616%

k: 9

Accuracy: 96.15384615384616%

k: 10

Accuracy: 94.87179487179486%

k的最佳選擇是9，當k=72時出現overfitting，準確度明顯下降。