Ch5

5-1

A = [0 for i in range(10)]

for i in range(10):

 A[i] = int(input("Please input the value: "))

for i in range(10):

 if A[i] > 5:

 A[i] -= 5

 else:

 A[i] += 5

 print("A[",i,"] = ",A[i])

5-2

A = [0 for i in range(10)]

for i in range(10):

 A[i] = int(input("Please input the value: "))

for i in range(10):

 A[i] += i

 print("A[",i,"] = ",A[i])

5-3

A = [0 for i in range(10)]

B = [0 for i in range(10)]

for i in range(10):

 A[i] = int(input("Please input the value: "))

for i in range(10):

 if A[i] >= 0:

 B[i] = 1

 else:

 B[i] = 0

 print("B[",i,"] = ",B[i])

5-4

**A = [[0 for j in range(6)] for i in range(4)]**

#請求輸入

for i in range(3):

 for j in range(5):

 print("Please input A[",i,"][",j,"]: ",end=" ")

 A[i][j] = int(input())

#計算列，將列的和存入每列最後一個元素

for i in range(3):

 for j in range(5):

 A[i][5] += A[i][j]

#計算行，將行的和存入每行最後一個元素

for j in range(6):

 for i in range(3):

 A[3][j] += A[i][j]

#印出矩陣和結果

for i in range(4):

 for j in range(6):

 print(A[i][j],"\t",end="")

 print()

5-5

A = [[0 for j in range(6)] for i in range(4)]

#請求輸入

for i in range(3):

 for j in range(5):

 print("Please input A[",i,"][",j,"]: ",end=" ")

 A[i][j] = int(input())

#尋找列，將列的最小值存入每列最後一個元素

for i in range(3):

 min = A[i][0]

 for j in range(1,5):

 if A[i][j] < min:

 min = A[i][j]

 A[i][5] = min

#尋找行，將行的最小值存入每行最後一個元素

for j in range(6):

 min = A[0][j]

 for i in range(1,3):

 if A[i][j] < min:

 min = A[i][j]

 A[3][j] = min

#印出矩陣和結果

for i in range(4):

 for j in range(6):

 print(A[i][j],"\t",end="")

 print()

5-6

a = [0 for i in range(6)]

b = [0 for i in range(6)]

#輸入a陣列

for i in range(1,6):

 a[i] = int(input("Please input a["+str(i)+"]: "))

#輸入b陣列

for i in range(1,6):

 b[i] = int(input("Please input b["+str(i)+"]: "))

#計算a[i]+b[i]

for i in range(1,6):

 x = a[i] + b[i]

 print("a["+str(i)+"] + b["+str(i)+"] =",x)

5-7

a = [0 for i in range(5)]

b = [0 for i in range(5)]

max\_a = 0

index\_a = 0

for i in range(5): #輸入a陣列並記錄最大值

 a[i] = int(input("Please input a["+str(i)+"]: "))

 if a[i] > max\_a:

 max\_a = a[i]

 index\_a = i

max\_b = 0

index\_b = 0

for i in range(5): #輸入b陣列並記錄最大值

 b[i] = int(input("Please input b["+str(i)+"]: "))

 if b[i] > max\_b:

 max\_b = b[i]

 index\_b = i

if max\_a < max\_b: #顯示較小者

 print("a[",index\_a,"] =",max\_a)

else:

 print("b[",index\_b,"] =",max\_b)

**5.1 流程圖**



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**5.2 流程圖**



**5.3 流程圖**



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**5.4 流程圖**



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**5.5 流程圖**



-----------------------------------------------------------------------------------------------------------------**5.6 流程圖**



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**5.7 流程圖**

