X10

X4

X10

X10

X10

X10

**0**

C2

C5

C4

C3

X3

X7

X5

X9

X1

X8

X2

X6

X5

X6

X3

X7

X2

X9

X1

X4

X8

X7

X4

X3

X8

X9

X6

X5

X1

X2

X7

X5

X4

X3

X1

X6

X2

X9

X8

**0.5**

**0.4**

**0.3**

**0.2**

**0.6**

**0.7**

**0.8**

**0.9**

**0.1**

**1**

X1

X6

X4

X7

X5

X8

X2

X9

X3

K = 5, N = 10

Output

Input

**Degree of membership**

**Number of clusters**

C1

**FCM**

X = { x1, X2, X3, X4, X5, X6, X7, X8, X9, X10 }