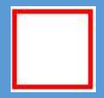
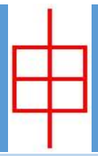
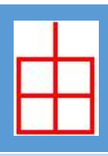
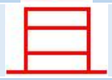
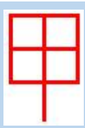
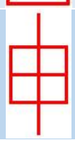
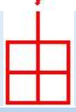
The initial table $R^{(0)}$ is shown below.

													
	1	0.4	0.7	0.6	0.3	0.3	0.3	0.3	0.8	0.1	0.3	0.1	0.1
	0.4	1	0.3	0.3	0.3	0.9	0.3	0.8	0.3	0.1	0.9	0.1	0.1
	0.7	0.3	1	0.8	0.3	0.3	0.3	0.3	0.9	0.1	0.3	0.1	0.1
	0.6	0.3	0.8	1	0.3	0.3	0.3	0.3	0.8	0.1	0.3	0.1	0.1
	0.3	0.3	0.3	0.3	1	0.3	0.8	0.3	0.3	0.1	0.3	0.1	0.1
	0.3	0.9	0.3	0.3	0.3	1	0.3	0.9	0.3	0.1	0.8	0.1	0.1
	0.3	0.3	0.3	0.3	0.8	0.3	1	0.3	0.3	0.1	0.3	0.1	0.1
	0.3	0.8	0.3	0.3	0.3	0.9	0.3	1	0.3	0.1	0.9	0.1	0.1
	0.8	0.3	0.9	0.8	0.3	0.3	0.3	0.3	1	0.1	0.3	0.1	0.1
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1	0.1	0.3	0.3
	0.3	0.9	0.3	0.3	0.3	0.8	0.3	0.9	0.3	0.1	1	0.1	0.1
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	1	0.9
	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.9	1

The final $R^{(3)}$ table is shown below.

		1	2	3	4	5	6	7	8	9	10	11	12	13
1		0	0	0.8	0.8	0	0	0	0	0.8	0	0	0	0
2		0	0	0	0	0	0.9	0	0.9	0	0	0.9	0	0
3		0.8	0	0	0.8	0	0	0	0	0.9	0	0	0	0
4		0.8	0	0.8	0	0	0	0	0	0.8	0	0	0	0
5		0	0	0	0	0	0	0.8	0	0	0	0	0	0
6		0	0.9	0	0	0	0	0	0.9	0	0	0.9	0	0
7		0	0	0	0	0.8	0	0	0	0	0	0	0	0
8		0	0.9	0	0	0	0.9	0	0	0	0	0.9	0	0
9		0.8	0	0.9	0.8	0	0	0	0	0	0	0	0	0
10		0	0	0	0	0	0	0	0	0	0	0	0	0
11		0	0.9	0	0	0	0.9	0	0.9	0	0	0	0	0
12		0	0	0	0	0	0	0	0	0	0	0	0	0.9
13		0	0	0	0	0	0	0	0	0	0	0	0.9	0

The 1st iteration

I = {1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13}
C = { }
$a_{26} = a_{28} = a_{2\,11} = a_{39} = a_{68} = a_{6\,11} = a_{8\,11} = a_{12\,13} = 0.9$ are maximum and a_{26} is selected at random, then C = {2, 6}

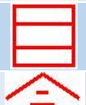
$a_{28} + a_{68} = a_{2\,11} + a_{6\,11} = 0.9 + 0.9 = 1.8$ are maximum and j = 8 is selected at random, then C = {2, 6, 8}

$a_{2\,11} + a_{6\,11} + a_{8\,11} = 0.9 + 0.9 + 0.9 = 2.7$ is maximum, then C = {2, 6, 8, 11}

There are no such j, that $a_{2j} + a_{6j} + a_{8j} + a_{11\,j}$ is maximum, then C = {2, 6, 8, 11}

The 2nd iteration

I = {1, 3, 4, 5, 7, 9, 10, 12, 13}
C = { }

		1	3	4	5	7	9	10	12	13
1		0	0.8	0.8	0	0	0.8	0	0	0
3		0.8	0	0.8	0	0	0.9	0	0	0
4		0.8	0.8	0	0	0	0.8	0	0	0
5		0	0	0	0	0.8	0	0	0	0
7		0	0	0	0.8	0	0	0	0	0
9		0.8	0.9	0.8	0	0	0	0	0	0
10		0	0	0	0	0	0	0	0	0
12		0	0	0	0	0	0	0	0	0.9
13		0	0	0	0	0	0	0	0.9	0

$a_{39} = a_{12\ 13} = 0.9$ are maximum and a_{39} is selected at random, then C = {3, 9}

$a_{31} + a_{91} = a_{34} + a_{94} = 0.8 + 0.8 = 1.6$ are maximum and j = 1 is selected at random, then C = {1, 3, 9}

$a_{14} + a_{34} + a_{94} = 0.8 + 0.8 + 0.8 = 2.4$ is maximum, then C = {1, 3, 4, 9}

There are no such j, that $a_{1j} + a_{3j} + a_{4j} + a_{9j}$ is maximum.
Then C = {1, 3, 4, 9}

The 3rd iteration

I = {5, 7, 10, 12, 13}
C = { }

		5	7	10	12	13
5		0	0.8	0	0	0
7		0.8	0	0	0	0
10		0	0	0	0	0
12		0	0	0	0	0.9
13		0	0	0	0.9	0

$a_{12\ 13} = 0.9$ is maximum, then C = {12, 13}

There are no such j, that $a_{12j} + a_{13j}$ is maximum.

Then Then C = {12, 13}

The 4th iteration

I = {5, 7, 10}
C = { }

		5	7	10
5		0	0.8	0
7		0.8	0	0
10		0	0	0

a_{57} = 0.8 is maximum, then C = {5, 7}

There are no such j, that $a_{5j} + a_{7j}$ is maximum.

Then Then C = {5, 7}
`

The 5th iteration

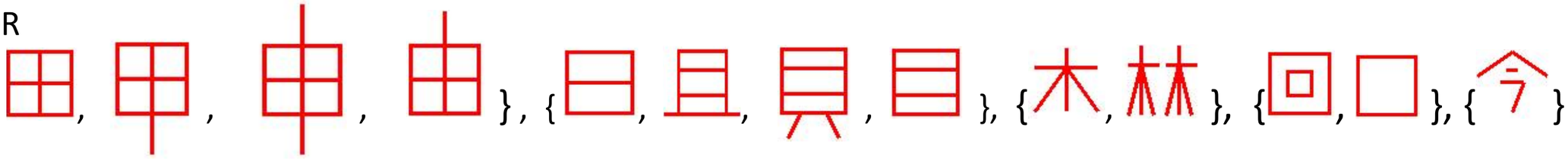
I = {10}
C = { }

		10
10		0

There are no such $a_{st} \neq 0$, then C = {10}

The result, when α = 0.55, is 5 clusters {2, 6, 8, 11}, {1, 3, 4, 9}, {12, 13}, {5, 7}, {10}

OR

{  }