

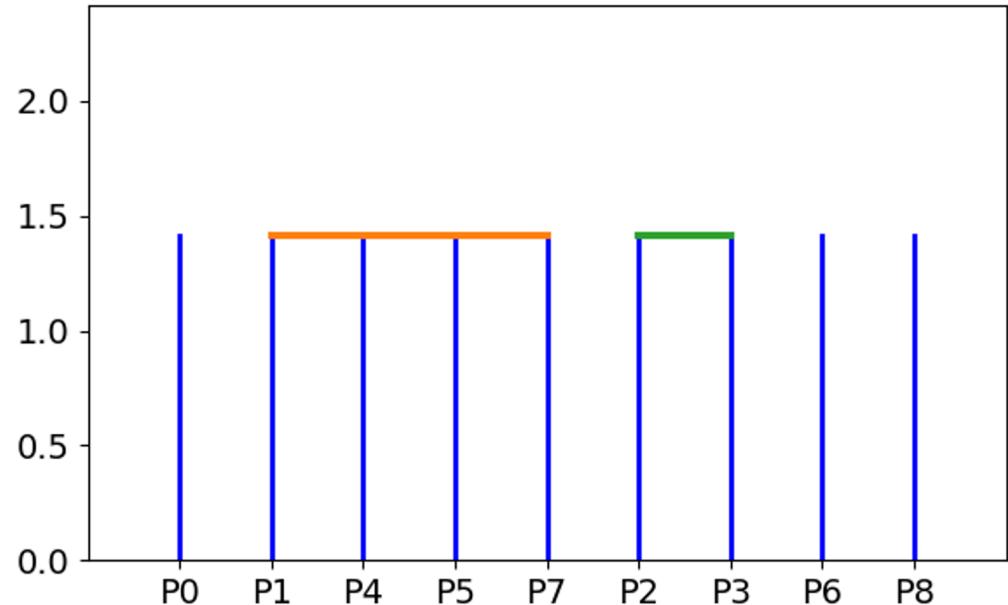
Hierarchical: Single-LINK- Euclidean Distance

0	5.66	3.16	4	8.49	8.6	3.16	7.07	3.16
5.66	0	3.16	4	2.83	3.16	5.1	1.41	3.16
3.16	3.16	0	1.41	5.83	6.32	4.47	4.47	2.83
4	4	1.41	0	6.32	7.07	5.83	5.1	4.24
8.49	2.83	5.83	6.32	0	1.41	7.62	1.41	5.83
8.6	3.16	6.32	7.07	1.41	0	7.21	2	5.66
3.16	5.1	4.47	5.83	7.62	7.21	0	6.32	2
7.07	1.41	4.47	5.1	1.41	2	6.32	0	4.47
3.16	3.16	2.83	4.24	5.83	5.66	2	4.47	0

distance merge 1.41

Min
Distance

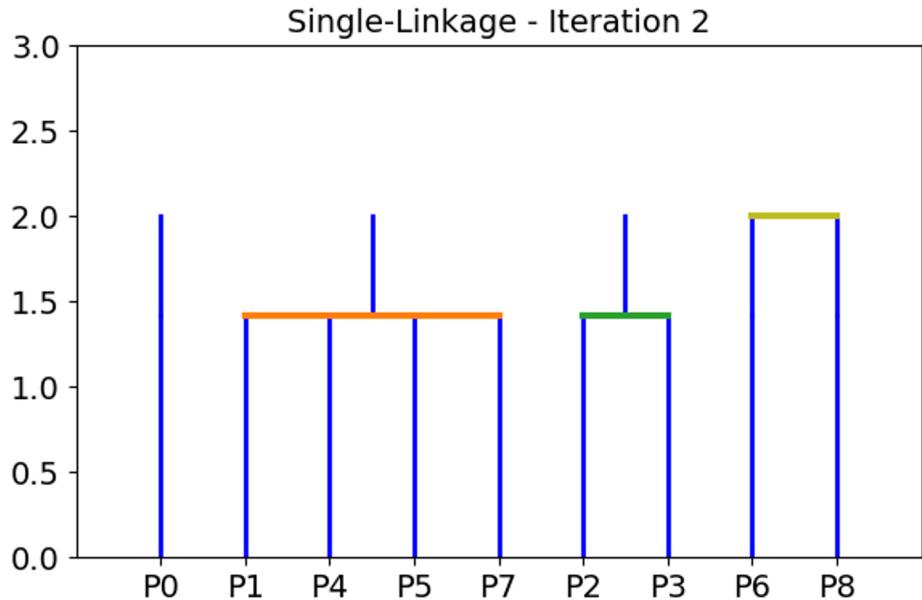
Single-Linkage - Iteration 1



Hierarchical: Single-LINK- Euclidean Distance

[(0,),	(1,4,5,7)	(2, 3),	(6,),	(8,)]
[0.	5.66	3.16	3.16	3.16]
[5.66	0.	3.16	5.1	3.16]
[3.16	3.16	0.	4.47	2.83]
[3.16	5.1	4.47	0.	2.]
[3.16	3.16	2.83	2.	0.]

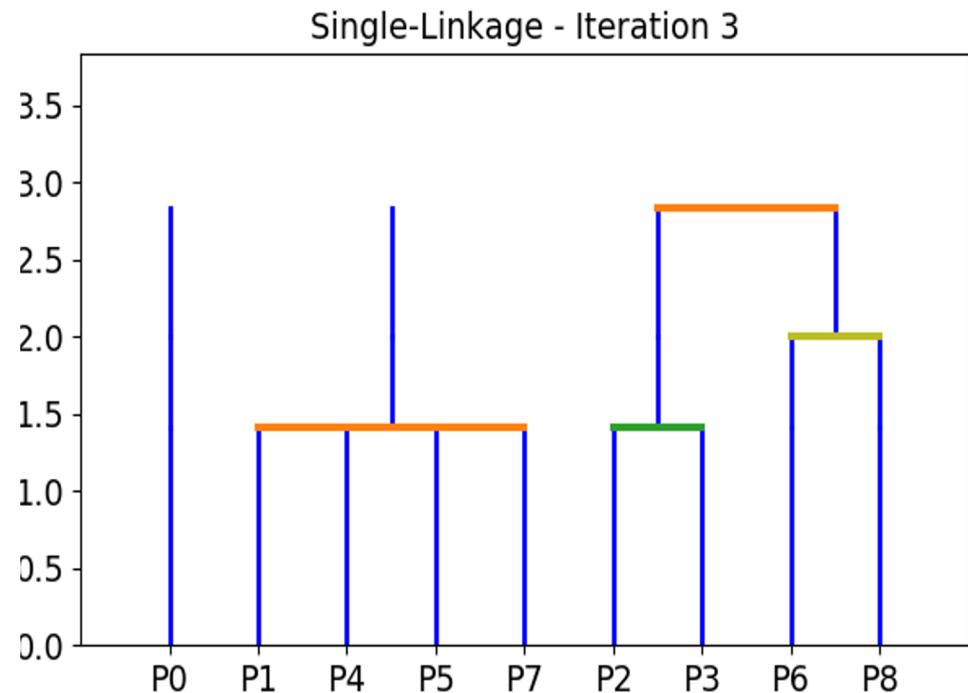
distance merge 2.00



Hierarchical: Single-LINK- Euclidean Distance

[(0,),	(1,4,5,7)	(2, 3),	(6, 8)]
[0.	5.66	3.16	3.16]
[5.66	0.	3.16	3.16]
[3.16	3.16	0.	2.83]
[3.16	3.16	2.83	0.]

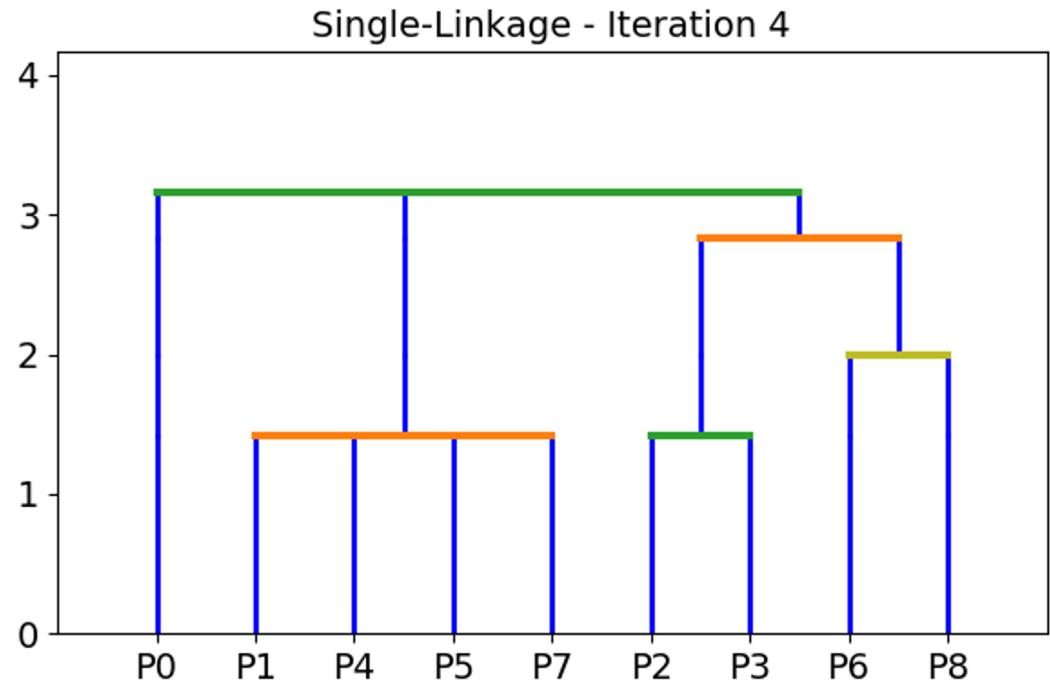
distance merge 2.83



Hierarchical: Single-LINK- Euclidean Distance

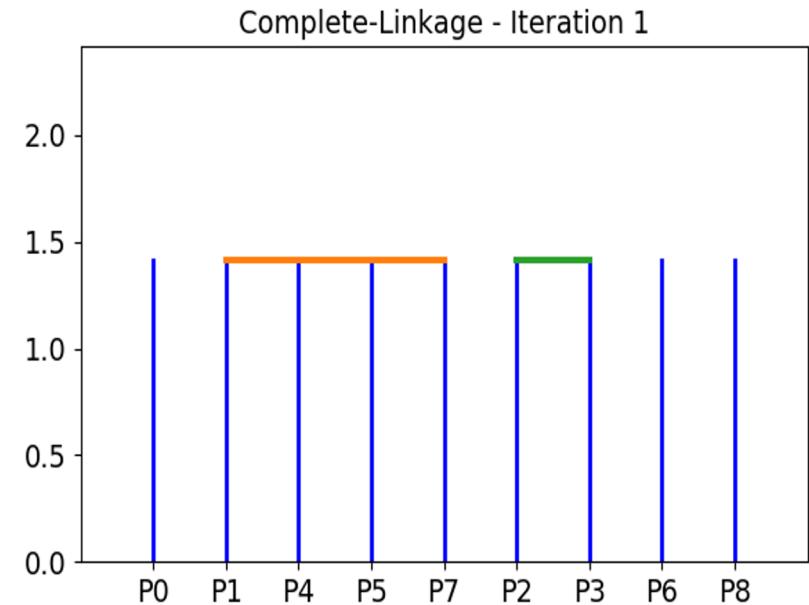
[(0,),	(1,4,5,7)	(2,3,6,8)]
[0.	5.66	3.16]
[5.66	0.	3.16]
[3.16	3.16	0.]

distance merge 3.16



Hierarchical: Complete-LINK- Euclidean Distance

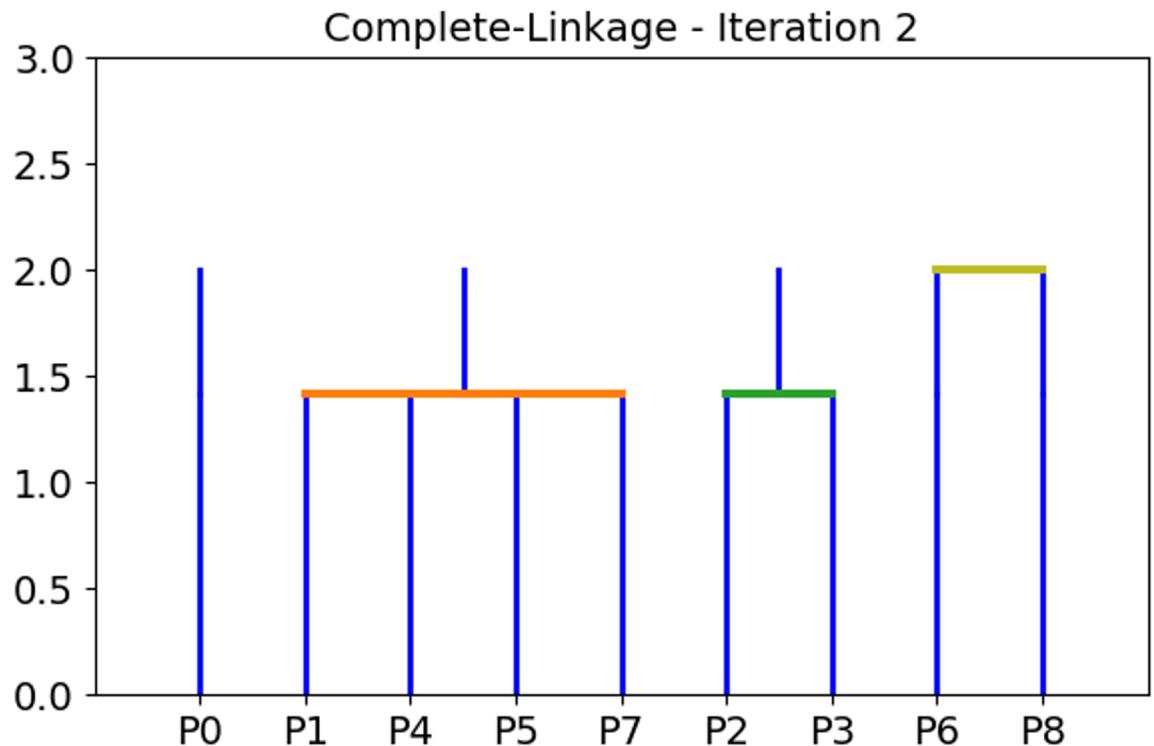
0	5.66	3.16	4	8.49	8.6	3.16	7.07	3.16
5.66	0	3.16	4	2.83	3.16	5.1	1.41	3.16
3.16	3.16	0	1.41	5.83	6.32	4.47	4.47	2.83
4	4	1.41	0	6.32	7.07	5.83	5.1	4.24
8.49	2.83	5.83	6.32	0	1.41	7.62	1.41	5.83
8.6	3.16	6.32	7.07	1.41	0	7.21	2	5.66
3.16	5.1	4.47	5.83	7.62	7.21	0	6.32	2
7.07	1.41	4.47	5.1	1.41	2	6.32	0	4.47
3.16	3.16	2.83	4.24	5.83	5.66	2	4.47	0



Hierarchical: Complete-LINK- Euclidean Distance

[(0)	(1,4,5,7)	(2, 3)	(6)	(8)]
[0.	8.6	4.	3.16	3.16]
[8.6	0.	7.07	7.62	5.83]
[4.	7.07	0.	5.83	4.24]
[3.16	7.62	5.83	0.	2.]
[3.16	5.83	4.24	2.	0.]

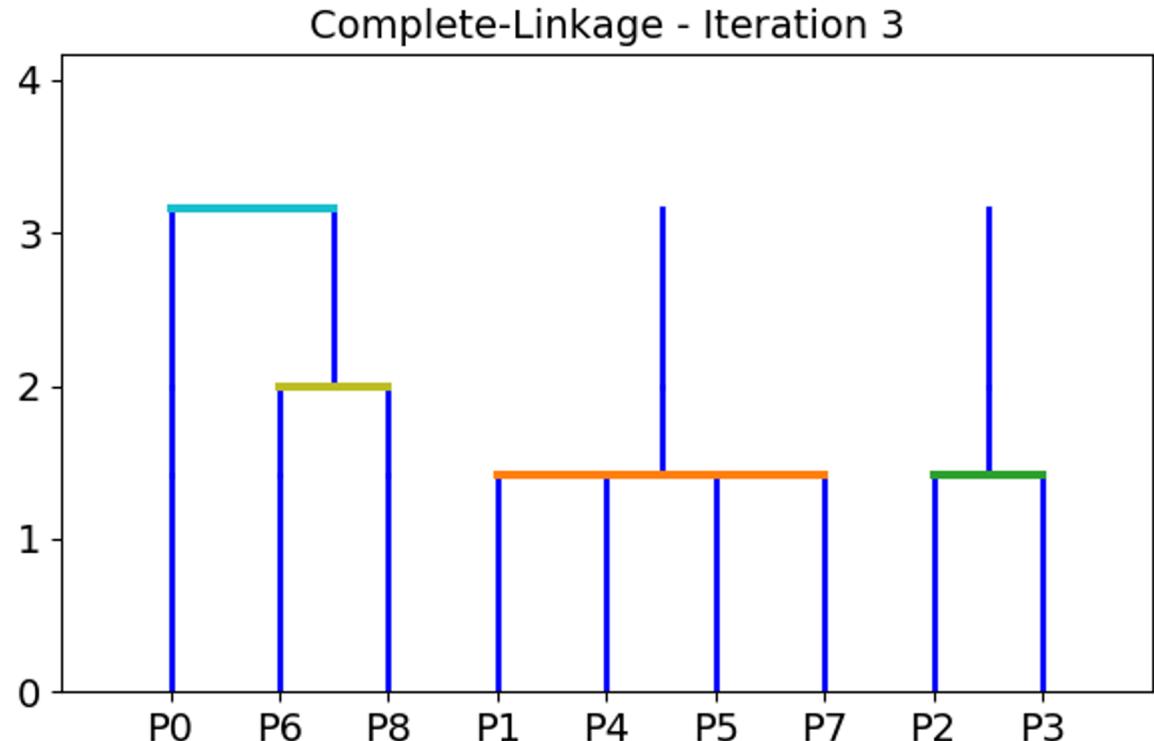
distance merge 2.00



Hierarchical: Complete-LINK- Euclidean Distance

[(0)	(1,4,5,7)	(2, 3)	(6,8)
[0.	8.6	4.	3.16]
[8.6	0.	7.07	7.62]
[4.	7.07	0.	5.83]
[3.16	7.62	5.83	0.]

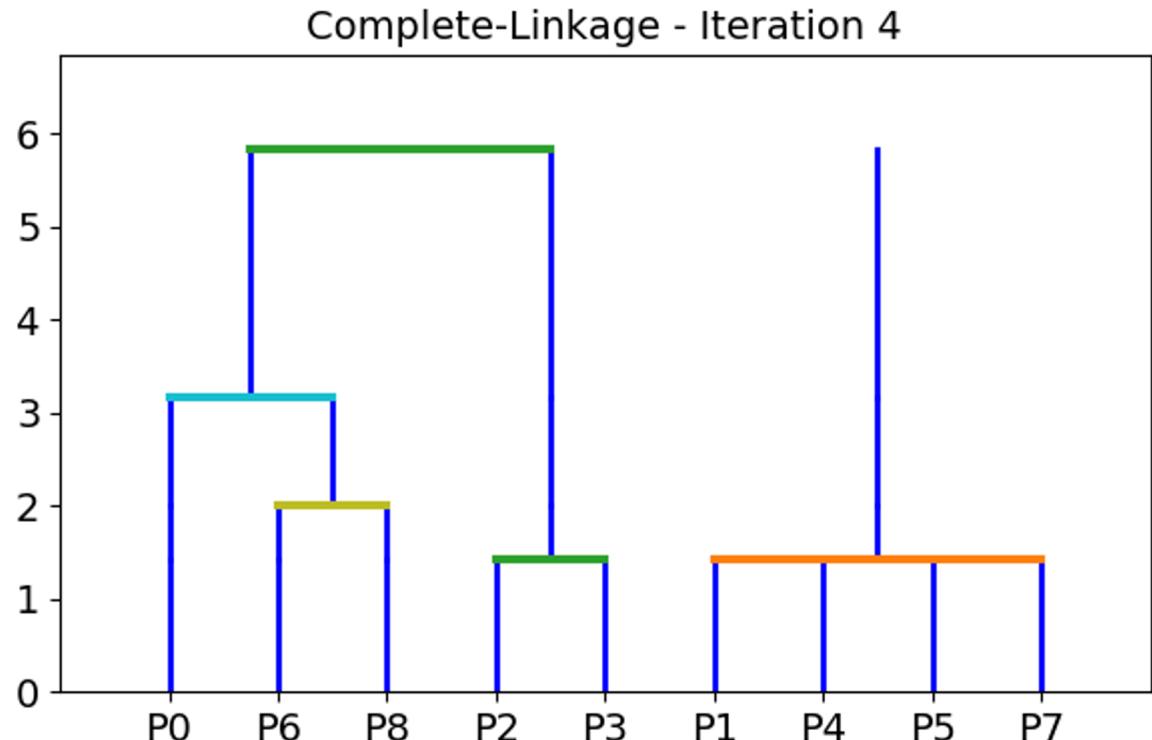
distance merge 3.16



Hierarchical: Complete-LINK- Euclidean Distance

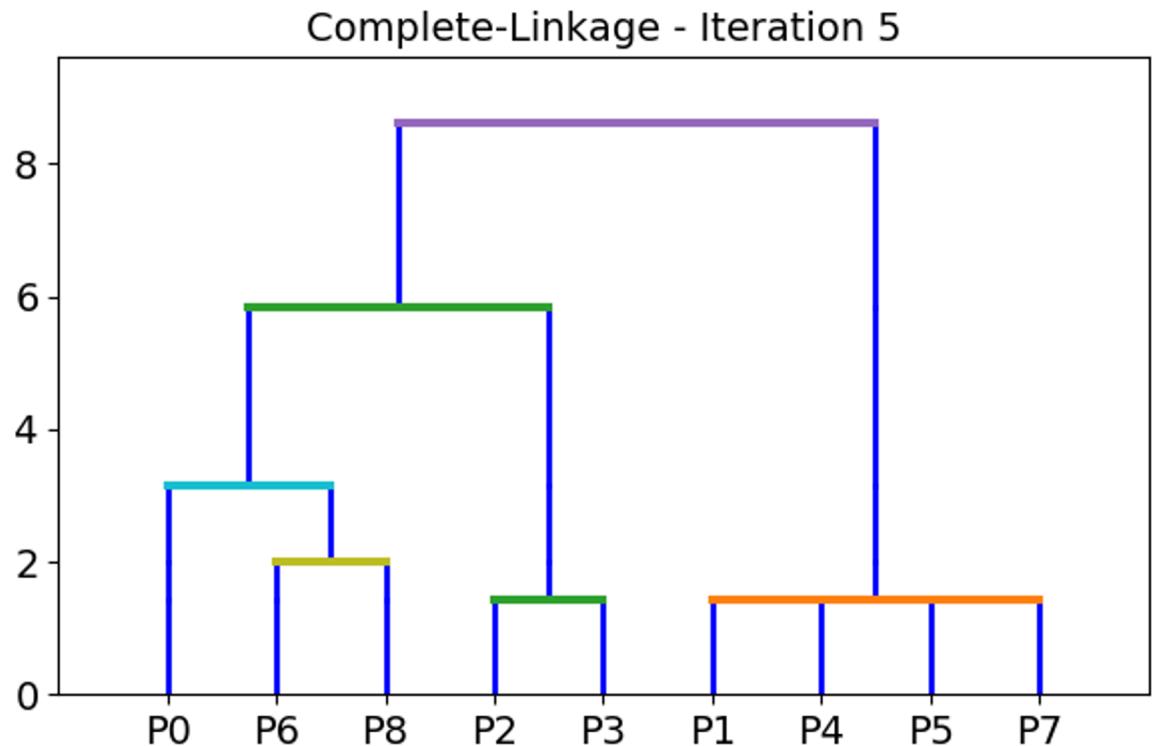
[(0,6,8)	(1,4,5,7)	(2, 3)]
[0.	8.6	5.83]
[8.6	0.	7.07]
[5.83	7.07	0.]

distance merge 5.83



Hierarchical: Complete-LINK- Euclidean Distance

[(0,2,3,6,8)	(1,4,5,7)
[0.	8.6]
[8.6	0.]

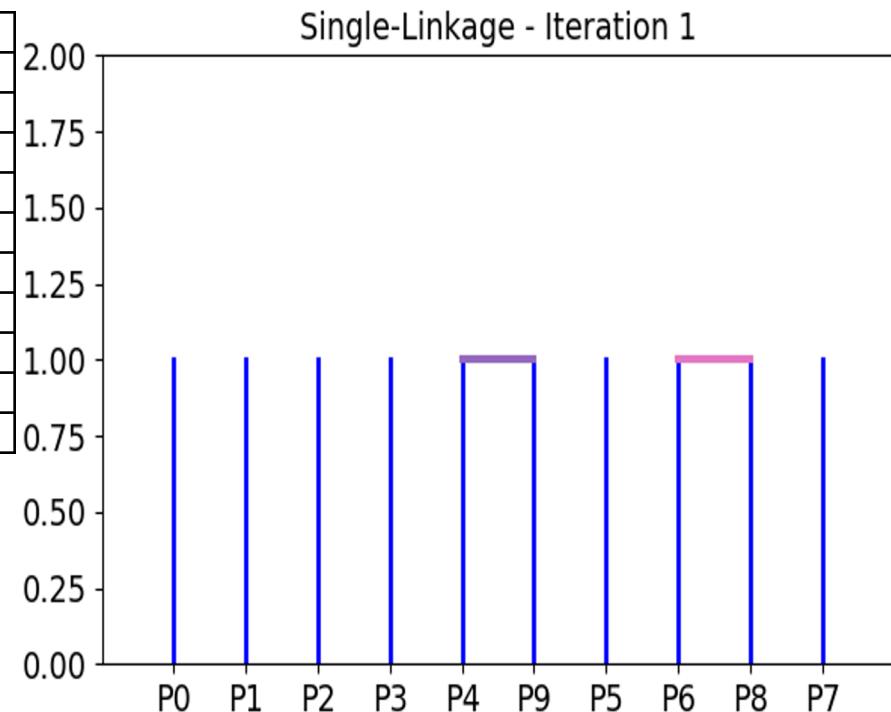


Exercise 2

Hierarchical: Single-LINK- Euclidean Distance

(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
0.	2.24	4.24	4.12	6.08	2.24	4.24	5.83	3.61	6.32
2.24	0.	2.24	2.83	7.07	4.47	5.39	6.08	4.47	7.
4.24	2.24	0.	4.12	9.22	6.4	6.	8.	5.	9.06
4.12	2.83	4.12	0.	5.83	6.	8.06	4.12	7.21	5.39
6.08	7.07	9.22	5.83	0.	5.83	9.85	2.24	9.49	1.
2.24	4.47	6.4	6.	5.83	0.	4.12	6.4	4.	6.4
4.24	5.39	6.	8.06	9.85	4.12	0.	10.	1.	10.3
5.83	6.08	8.	4.12	2.24	6.4	10.	0.	9.43	1.41
3.61	4.47	5.	7.21	9.49	4.	1.	9.43	0.	9.85
6.32	7.	9.06	5.39	1.	6.4	10.3	1.41	9.85	0.

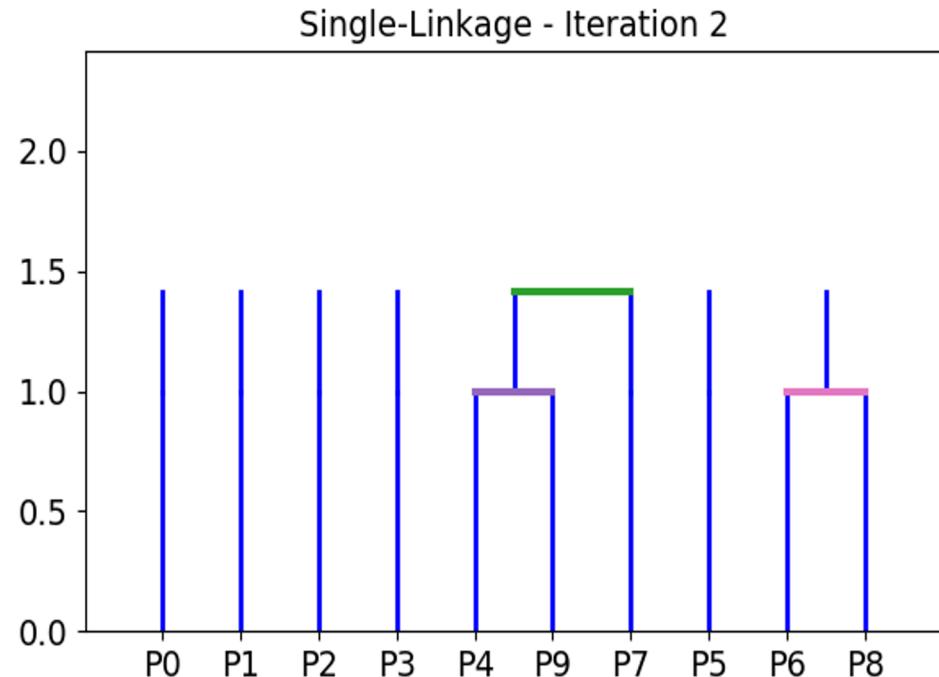
distance merge 1.00



Hierarchical: Single-LINK- Euclidean Distance

(0)	(1)	(2)	(3)	(4,9)	(5)	(6,8)	(7)
[0.	2.24	4.24	4.12	6.08	2.24	3.61	5.83]
[2.24	0.	2.24	2.83	7.	4.47	4.47	6.08]
[4.24	2.24	0.	4.12	9.06	6.4	5.	8.]
[4.12	2.83	4.12	0.	5.39	6.	7.21	4.12]
[6.08	7.	9.06	5.39	0.	5.83	9.49	1.41]
[2.24	4.47	6.4	6.	5.83	0.	4.	6.4]
[3.61	4.47	5.	7.21	9.49	4.	0.	9.43]
[5.83	6.08	8.	4.12	1.41	6.4	9.43	0.]

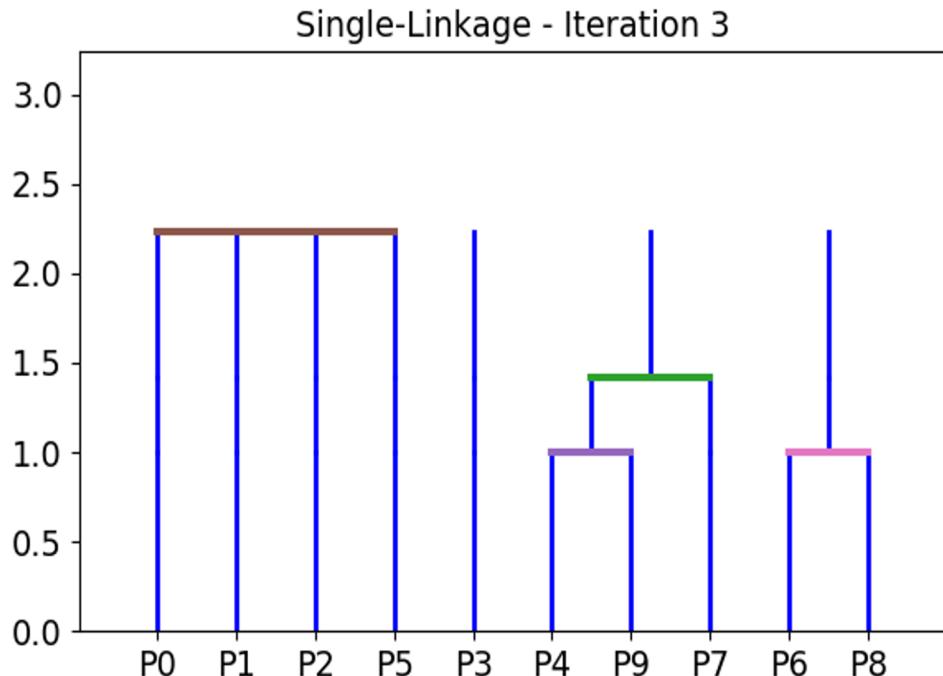
distance merge 1.41



Hierarchical: Single-LINK- Euclidean Distance

(0)	(1)	(2)	(3)	(4,7,9)	(5)	(6,8)
[0.	2.24	4.24	4.12	5.83	2.24	3.61]
[2.24	0.	2.24	2.83	6.08	4.47	4.47]
[4.24	2.24	0.	4.12	8.	6.4	5.]
[4.12	2.83	4.12	0.	4.12	6.	7.21]
[5.83	6.08	8.	4.12	0.	5.83	9.43]
[2.24	4.47	6.4	6.	5.83	0.	4.]
[3.61	4.47	5.	7.21	9.43	4.	0.]

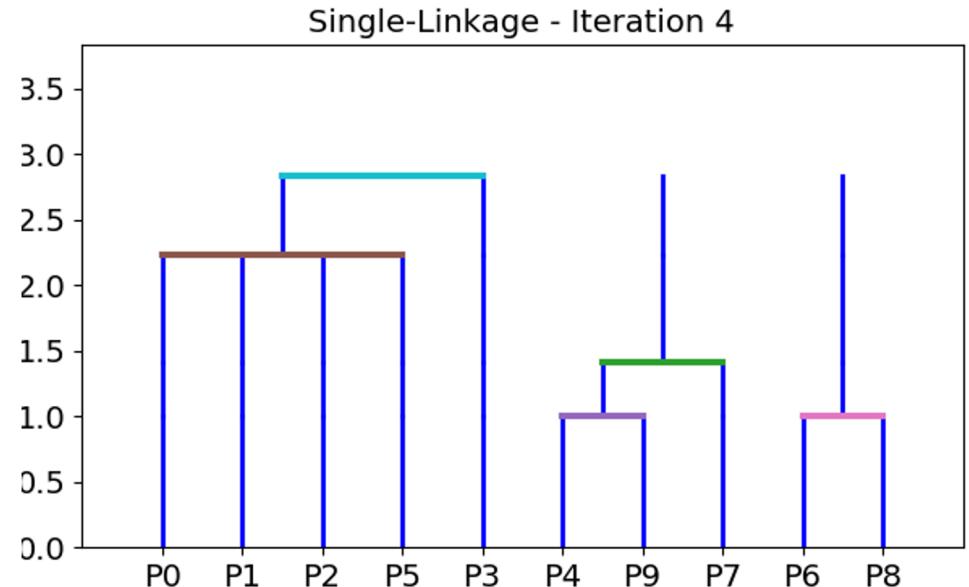
distance merge 2.24



Hierarchical: Single-LINK- Euclidean Distance

(0,1,2,5)	(3)	(4,7,9)	(6,8)
[[0.	2.83	5.83	3.61]
[2.83	0.	4.12	7.21]
[5.83	4.12	0.	9.43]
[3.61	7.21	9.43	0.]

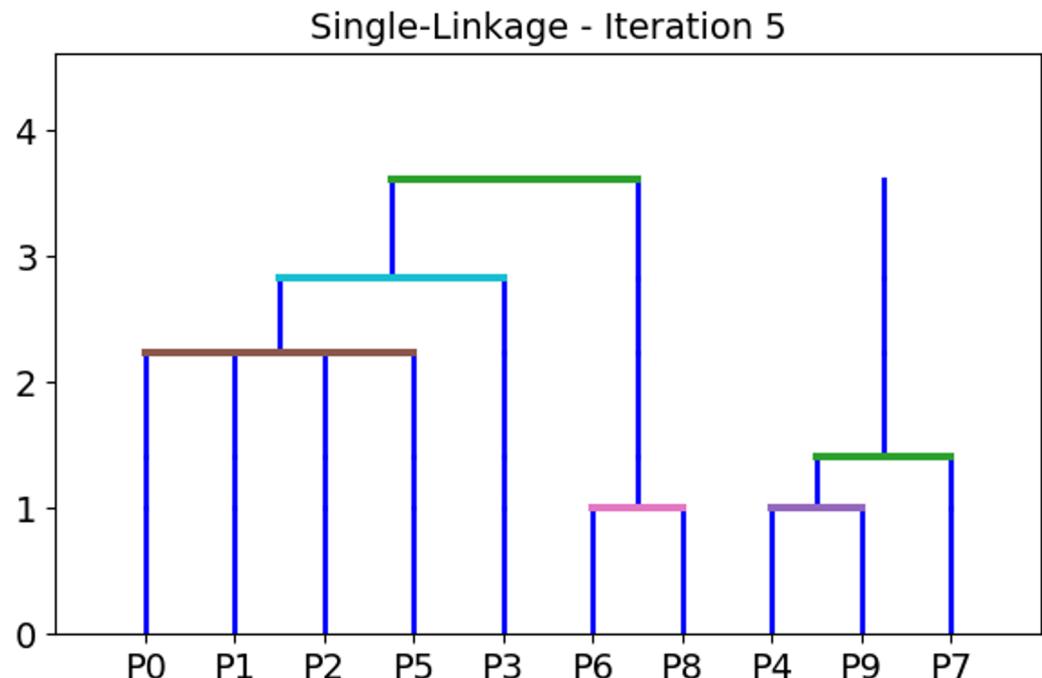
distance merge 2.83



Hierarchical: Single-LINK- Euclidean Distance

(0,1,2,3,5)	(4,7,9)	(6,8)
[0.	4.12	3.61]
[4.12	0.	9.43]
[3.61	9.43	0.]

distance merge 3.61



Hierarchical: Single-LINK- Euclidean Distance

(0,1,2,3,5,6,8)	(4,7,9)
[0.	4.12]
[4.12	0.]

