

JOHNSON HIERARCHICAL CLUSTERING PROGRAM.
 RUN NAME : SORTPAC HICLUS, N=68 SIMPLE CO-OCCURRENCE DATA

CONNECTEDNESS METHOD (aka *Single-link, Nearest neighbour, Minimum Method*)

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0 0 0 2 1 2 1 0 0 1 1 0 1 1 0 1 1 2 2 2 2 2 1 0 1 0 2 2
5 7 1 1 7 3 0 2 4 2 1 0 8 4 8 6 9 7 1 3 6 4 5 5 9 6 3 2 8

58.00000000 XXX . . . . .
57.00000000 XXX . . . . . XXX .
56.00000000 XXX . . . . . XXXXX .
55.00000000 XXX XXX . . . . . XXXXX .
52.00000000 XXXXXX . . . . . XXXXX .
51.00000000 XXXXXX . . . . . XXX . . . . . XXXXX .
50.00000000 XXXXXX . . . . . XXX . . . . . XXXXXX .
47.00000000 XXXXXX . . . . . XXXXX . . . . . XXXXXX .
45.00000000 XXXXXX . . . . . XXX XXXX . . . . . XXXXXX .
44.00000000 XXXXXX . . . . . XXX XXXXXX . . . . . XXXXXX .
43.00000000 XXXXXX . . . . . XXXXXXXXXXXX . . . . . XXXXXX .
40.00000000 XXXXXX . . . . . XXXXXXXXXXXX . . . . . XXXXXXXXXXXX
39.00000000 XXXXXX . . . . . XXXXXXXXXXXX XXX . . . . . XXXXXXXXXXXX
36.00000000 XXXXXX . . . . . XXXXXXXXXXXX XXX . . . . . XXXXXXXXXXXX
35.00000000 XXXXXX . . . . . XXXXXXXXXXXX XXX . . . . . XXXXXXXXXXXX
35.00000000 XXXXXX . . . . . XXXXXXXXXXXX XXX . . . . . XXXXXXXXXXXX
35.00000000 XXXXXX . . . . . XXXXXXXXXXXX XXX XXX . . . . . XXXXXXXXXXXX
34.00000000 XXXXXX . . . . . XXXXXXXXXXXX XXX XXXX . . . . . XXXXXXXXXXXX
32.00000000 XXXXXX . . . . . XXXXXXXXXXXX XXXXX . . . . . XXXXXXXXXXXX
30.00000000 XXXXXX . . . . . XXXXXXXXXXXXXXXXXXXX . . . . . XXXXXXXXXXXX
30.00000000 XXXXXX . . . . . XXXXXXXXXXXXXXXXXXXXXXXXXXXX . . . . . XXXXXXXXXXXX
29.00000000 XXXXXX . . . . . XXXXXXXXXXXXXXXXXXXXXXXXXXXX . . . . . XXXXXXXXXXXX
28.00000000 XXXXXX . . . . . XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX
28.00000000 XXXXXX . . . . . XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX
26.00000000 XXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX
25.00000000 XXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX
18.00000000 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
  
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END OF METHOD

JOHNSON HIERARCHICAL CLUSTERING PROGRAM.
 RUN NAME : SORTPAC HICLUS, N=68 SIMPLE CO-OCCURRENCE DATA

DIAMETER METHOD (aka *Complete, Furthest neighbour, Maximum Method*)

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1 0 1 1 0 1 1 0 1 1 1 2 2 0 0 0 2 1 0 1 0 2 0 2 2 2 2 2
3 2 1 0 8 4 8 6 9 2 7 1 3 5 7 1 7 5 9 6 3 2 4 0 6 4 5 8

58.00000000 . . . . . XXX . . . . .
57.00000000 . . . . . XXX . . . . . XXX .
55.00000000 . . . . . XXX XXX . . . . . XXX .
51.00000000 . . . . . XXX . . . . . XXX XXX . . . . . XXX .
49.00000000 . . . . . XXX . . . . . XXX XXX . . . . . XXXXX .
47.00000000 . . . . . XXX . . . . . XXXXXX . . . . . XXXXX .
46.00000000 . . . . . XXXXX . . . . . XXXXXX . . . . . XXXXX .
45.00000000 . . . . . XXX XXXX . . . . . XXXXXX . . . . . XXXXX .
40.00000000 . . . . . XXX XXXX . . . . . XXXXXX . . . . . XXXXXX .
39.00000000 . . . . . XXX XXXX . . . . . XXXXXX . . . . . XXXXXX .
38.00000000 . . . . . XXX XXXXXX XXX . . . . . XXXXXX . . . . . XXXXXX .
35.00000000 . . . . . XXX XXXXXX XXX . . . . . XXXXXX . . . . . XXXX .
35.00000000 . . . . . XXX XXXXXX XXX . . . . . XXX . . . . . XXXXXX . . . . . XXXX .
31.00000000 . . . . . XXX XXXXXX XXX . . . . . XXX . . . . . XXXXXX XXXXXXXXXXXX . . . . . XXXX .
30.00000000 . . . . . XXX XXXXXX XXX . . . . . XXXX XXXXXX XXXXXXXXXXXX . . . . . XXXX .
28.00000000 . . . . . XXX XXXXXX XXX . . . . . XXXX XXXXXX XXXXXXXXXXXX XXX . . . . . XXXX .
27.00000000 . . . . . XXXXXXXXXXXX XXX . . . . . XXXX XXXXXX XXXXXXXXXXXX XXX . . . . . XXXX .
26.00000000 . . . . . XXXXXXXXXXXX XXX XXXXXX XXXXXX XXXXXXXXXXXX XXX . . . . . XXXX .
25.00000000 . . . . . XXXXXXXXXXXX XXX XXXXXX XXXXXX XXXXXXXXXXXX XXX . . . . . XXXXX .
19.00000000 . . . . . XXXXXXXXXXXX XXX XXXXXX XXXXXX XXXXXXXXXXXX XXXXX XXXXX .
19.00000000 . . . . . XXXXXXXXXXXXXXXXXXXX XXXXXX XXXXXX XXXXXXXXXXXX XXXXX XXXXX .
15.00000000 . . . . . XXXXXXXXXXXXXXXXXXXX XXXXXX XXXXXX XXXXXXXXXXXX XXXXXXXXXXXX .
14.00000000 . . . . . XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXX XXXXXX XXXXXXXXXXXX XXXXXXXXXXXX .
11.00000000 . . . . . XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXX XXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX .
6.00000000 . . . . . XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX .
2.00000000 . . . . . XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX .
0.00000000 . . . . . XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX .
  
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END OF METHOD

N.B. There is no Fit measure with HCS, though if the data fit the model, i.e. satisfy the ultrametric inequality, the two solutions will be identical. As it is, they mark the extremes of difference.

UMI: For all (i,j,k) $d(i,k) \neq \max \{d(i,j), d(i,k)\}$