## SS OUTPUT PROGRAM

Nama: Goldi Firmansyah

NIM : 19360010

SS Output Program KmeansClustering

```
        sepal width (cm)
        petal length (cm)
        petal width (cm)
        species

        3.5
        1.4
        0.2
        0.0

        3.0
        1.4
        0.2
        0.0

        3.1
        1.5
        0.2
        0.0

        3.6
        1.4
        0.2
        0.0

        3.0
        5.2
        2.3
        2.0

        2.5
        5.0
        1.9
        2.0

        3.0
        5.2
        2.0
        2.0

        3.0
        5.2
        2.0
        2.0

        3.4
        5.4
        2.3
        2.0

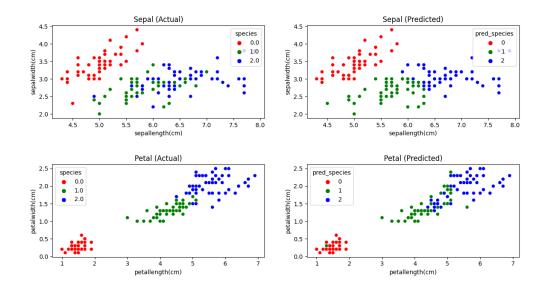
        3.0
        5.1
        1.8
        2.0

precision recall f1-score support
                                                1.00
0.71
0.71
                                                                                                  petallength(cm) petalwidth(cm) species
1.4 0.2 0.0
1.3 0.2 0.0
1.5 0.2 0.0
1.4 0.2 0.0
1.5 0.2 0.0
1.4 0.2 0.0
1.4 0.3 0.0
                                          7 8 9 1011 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52
```

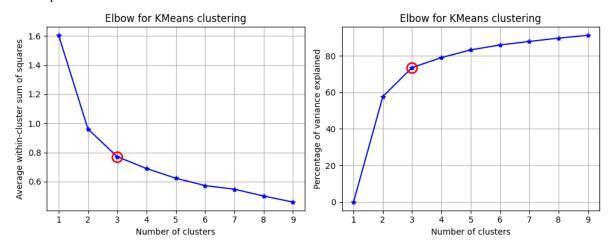
54	6.5	2.8	4.6	1.5	1.0	2		
55	5.7	2.8	4.5	1.3	1.0			
56	6.3	3.3	4.7	1.6	1.0			
57 58	4.9 6.6	2.4 2.9	3.3 4.6	1.0 1.3	1.0 1.0			
59	5.2	2.7	3.9	1.4	1.0	1		
60	5.0	2.0	3.5	1.0	1.0			
61 62	5.9 6.0	3.0	4.2 4.0	1.5 1.0	1.0 1.0	1 1		
63	6.1	2.2 2.9	4.7	1.4	1.0			
64	5.6	2.9	3.6	1.3	1.0			
65	6.7	3.1	4.4	1.4	1.0	2		
66 67	5.6 5.8	3.0 2.7	4.5 4.1	1.5 1.0	1.0 1.0			
68	6.2	2.2	4.5	1.5	1.0			
69	5.6	2.5	3.9	1.1	1.0			
70 71	5.9 6.1	3.2 2.8	4.8 4.0	1.8 1.3	1.0 1.0	2 1		
72	6.3	2.5	4.9	1.5	1.0			
73	6.1	2.8	4.7	1.2	1.0			
74	6.4	2.9	4.3	1.3	1.0			
75 76	6.6 6.8	3.0 2.8	4.4 4.8	1.4 1.4	1.0 1.0			
77	6.7	3.0	5.0	1.7	1.0			
78	6.0	2.9	4.5	1.5	1.0			
79 80	5.7 5.5	2.6 2.4	3.5 3.8	1.0 1.1	1.0 1.0			
81	5.5	2.4	3.7	1.0	1.0			
82	5.8	2.7	3.9	1.2	1.0			
83	6.0	2.7	5.1	1.6	1.0			
84 85	5.4 6.0	3.0 3.4	4.5 4.5	1.5 1.6	1.0 1.0			
86	6.7	3.1	4.7	1.5	1.0			
87	6.3	2.3	4.4	1.3	1.0			
88 89	5.6 5.5	3.0 2.5	4.1 4.0	1.3 1.3	1.0 1.0			
90	5.5	2.6	4.4	1.2	1.0			
91	6.1	3.0	4.6	1.4	1.0			
92 93	5.8	2.6	4.0	1.2	1.0			
94	5.0 5.6	2.3 2.7	3.3 4.2	1.0 1.3	1.0 1.0	1		
95	5.7	3.0	4.2	1.2	1.0			
96	5.7	2.9	4.2	1.3	1.0			
97 98	6.2 5.1	2.9 2.5	4.3 3.0	1.3 1.1	1.0 1.0			
99	5.7	2.8	4.1	1.3	1.0			
100	6.3	3.3	6.0	2.5	2.0	2		
				15.540	732-50W			
101	5.8	2.7	5.1	1.9	2.0			
				1.9 2.1 1.8	2.0			
101 102 103 104	5.8 7.1 6.3 6.5	2.7 3.0 2.9 3.0	5.1 5.9 5.6 5.8	2.1 1.8 2.2	2.0 2.0 2.0			
101 102 103 104 105	5.8 7.1 6.3 6.5 7.6	2.7 3.0 2.9 3.0 3.0	5.1 5.9 5.6 5.8 6.6	2.1 1.8 2.2 2.1	2.0 2.0 2.0 2.0			
101 102 103 104	5.8 7.1 6.3 6.5 7.6 4.9	2.7 3.0 2.9 3.0	5.1 5.9 5.6 5.8 6.6 4.5	2.1 1.8 2.2	2.0 2.0 2.0			
101 102 103 104 105 106 107 108	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7	2.7 3.0 2.9 3.0 3.0 2.5 2.9	5.1 5.9 5.6 5.8 6.6 4.5 6.3 5.8	2.1 1.8 2.2 2.1 1.7 1.8 1.8	2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 2 1 2 2		
101 102 103 104 105 106 107 108 109	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2	2.7 3.0 2.9 3.0 3.0 2.5 2.9 2.5 3.6	5.1 5.9 5.6 5.8 6.6 4.5 6.3 5.8 6.1	2.1 1.8 2.2 2.1 1.7 1.8 1.8 2.5	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 2 1 2 2 2		
101 102 103 104 105 106 107 108 109	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5	2.7 3.0 2.9 3.0 3.0 2.5 2.9 2.5 3.6	5.1 5.9 5.6 5.8 6.6 4.5 6.3 5.8 6.1	2.1 1.8 2.2 2.1 1.7 1.8 1.8 2.5	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 2 1 2 2 2		
101 102 103 104 105 106 107 108 109 110	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5 6.4 6.8	2.7 3.0 2.9 3.0 3.0 2.5 2.9 2.5 3.6 3.2 2.7 3.0	5.1 5.9 5.6 5.8 6.6 4.5 6.3 5.8 6.1 5.1 5.3	2.1 1.8 2.2 2.1 1.7 1.8 1.8 2.5 2.0 1.9 2.1	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 1 2 2 2 2 2 2		
101 102 103 104 105 106 107 108 109 110 111 112	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5 6.4 6.8	2.7 3.0 2.9 3.0 3.0 2.5 2.9 2.5 3.6 3.2 2.7 3.0 2.5	5.1 5.9 5.6 5.8 6.6 4.5 6.3 5.8 6.1 5.1 5.3 5.5	2.1 1.8 2.2 2.1 1.7 1.8 1.8 2.5 2.0 1.9 2.1 2.0	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 1 2 2 2 2 2 2 2		
101 102 103 104 105 106 107 108 109 110 111 112 113	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5 6.4 6.8 5.7 5.8	2.7 3.0 2.9 3.0 2.5 2.5 2.5 3.6 3.2 2.7 3.0 2.5 2.7	5.1 5.9 5.6 5.8 6.6 4.5 6.3 5.8 6.1 5.1 5.3 5.5 5.0	2.1 1.8 2.2 2.1 1.7 1.8 2.5 2.0 1.9 2.1 2.0 2.4	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 1 2 2 2 2 2 2 1 1		
101 102 103 104 105 106 107 108 109 110 111 112 114 115	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5 6.4 6.8 5.7 5.8 6.4 6.5	2.7 3.0 2.9 3.0 3.0 2.5 2.9 2.5 3.6 3.2 2.7 3.0 2.5 3.8 3.2 3.0 3.0	5.1 5.9 5.6 5.8 6.6 4.5 6.3 5.8 6.1 5.1 5.3 5.5 5.0 5.1 5.3	2.1 1.8 2.2 2.1 1.7 1.8 1.8 2.5 2.0 1.9 2.1 2.0 2.4 2.3 1.8	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 1 2 2 2 2 2 2 1 1		
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5 6.4 6.8 5.7 5.8 6.4 6.5 7.7	2.7 3.0 2.9 3.0 3.0 2.5 2.5 2.5 3.6 3.2 2.7 3.0 2.5 2.8 3.2	5.1 5.9 5.6 5.8 6.6 4.5 6.3 5.8 6.1 5.1 5.3 5.5 5.9 5.1 5.3	2.1 1.8 2.2 2.1 1.7 1.8 2.5 2.0 1.9 2.1 2.0 2.4 2.3 1.8 2.3	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
101 102 103 104 105 106 107 108 109 111 112 113 114 115 116 117 118	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5 6.4 6.8 5.7 5.8 6.4 6.5 7.7	2.7 3.0 2.9 3.0 2.5 2.5 2.5 3.6 3.2 2.7 3.0 2.5 2.8 3.2 3.8	5.1 5.9 5.6 5.8 6.6 4.5 6.3 5.8 6.1 5.1 5.3 5.5 5.5 6.7 6.7	2.1 1.8 2.2 2.1 1.7 1.8 1.8 2.5 2.0 1.9 2.1 2.0 2.4 2.3 1.8 2.2 2.3	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 1 2 2 2 2 2 2 1 1 2 2 2 2 2 2 2 2		
101 102 103 104 105 106 107 108 109 111 112 113 114 115 116 117 118 119 120	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5 6.4 6.8 5.8 6.4 6.5 7.7 7.7 6.0	2.7 3.0 2.9 3.0 2.5 2.5 3.6 3.2 2.7 3.0 2.5 2.8 3.2 2.5 3.8 2.6 2.2	5.1 5.9 5.6 5.8 6.6 4.5 6.3 5.8 6.1 5.3 5.5 5.5 5.1 5.3 5.5 6.7 6.9 5.0 5.0	2.1 1.8 2.2 2.1 1.7 1.8 1.8 2.5 2.0 1.9 2.1 2.0 2.1 2.3 1.8 2.2 2.3	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5 6.4 6.8 5.7 5.8 6.4 6.5 7.7 7.7 6.9 5.6	2.7 3.0 2.9 3.0 3.0 2.5 2.5 2.5 3.6 3.2 2.7 3.0 2.5 2.8 3.2 3.2 3.2 3.8 2.6 2.2	5.1 5.9 5.6 5.8 6.6 4.5 6.3 5.8 6.1 5.1 5.3 5.5 5.0 5.1 5.3 5.5 6.7 6.9 5.9	2.1 1.8 2.2 2.1 1.7 1.8 2.5 2.0 2.1 2.0 2.4 2.3 1.8 2.2 2.3 1.5 2.3	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 1 2 2 2 2 2 1 1 2 2 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 1 2 2 2 1 2 2 2 1 2		
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5 6.4 6.8 5.7 5.8 6.4 6.5 7.7 7.7 6.9 6.9	2.7 3.0 2.9 3.0 3.0 2.5 2.9 2.5 3.6 3.2 2.7 2.7 2.8 3.2 2.8 3.2 2.2 3.0 2.5 2.8 3.2 2.8 2.8 2.8	5.1 5.6 5.8 6.6 4.5 6.3 5.8 6.1 5.1 5.3 5.5 5.0 5.1 5.5 6.7 6.9 5.7 4.9	2.1 1.8 2.2 2.1 1.7 1.8 2.5 2.0 1.9 2.1 2.0 2.4 2.3 1.8 2.2 2.3 1.5 2.2 2.3 2.2	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 121	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.4 6.8 5.7 5.8 6.4 6.5 7.7 6.0 6.9 6.9 6.9	2.7 3.0 2.9 3.0 3.0 2.5 2.9 2.5 3.6 3.2 2.7 3.0 2.5 2.8 3.2 3.0 2.5 2.8 3.2 2.7 3.0 2.5 3.0 2.5 3.0 2.5 3.0 3.8 3.2 3.0 3.8 3.2 3.0 3.8 3.2 3.0 3.8 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	5.1 5.6 5.8 6.6 4.5 6.3 5.8 6.1 5.3 5.5 5.9 5.1 5.5 6.9 5.7 4.9 6.7 4.9	2.1 1.8 2.2 2.1 1.7 1.8 1.8 2.5 2.0 2.1 2.0 2.4 2.3 1.8 2.2 2.3 1.5 2.0 2.0 2.0 2.1 2.0 2.1 2.0 2.1 2.0 2.1 2.0 2.1 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5 6.4 6.8 5.7 7.7 6.0 6.5 7.7 6.0 6.9 5.6 7.7 6.7 7.7	2.7 3.0 2.9 3.0 3.0 2.5 2.9 2.5 3.6 3.2 2.7 3.0 2.5 2.8 3.2 2.7 3.0 2.5 2.8 3.2 3.8 2.6 2.2 3.8 2.6 3.8 3.2 3.8 3.2 3.3	5.1 5.9 5.6 6.6 4.5 6.3 5.8 6.1 5.1 5.3 5.5 6.7 6.7 6.9 5.9 5.7 4.9 6.7	2.1 1.8 2.2 2.1 1.7 1.8 2.5 2.0 2.1 2.0 2.4 2.3 1.8 2.3 2.0 2.0 2.1 2.0 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2		
101 102 103 104 105 106 107 108 109 110 111 112 115 116 117 118 119 120 121 122 123 124 125	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.4 6.8 5.7 5.8 6.4 6.5 7.7 7.7 6.0 6.9 5.6 6.3 6.7 7.2	2.7 3.0 2.9 3.0 3.0 2.5 2.9 2.5 3.6 3.2 2.7 3.0 2.5 2.8 3.2 2.7 3.0 2.5 2.8 3.2 2.8 3.2 3.2 3.0 3.8 2.6 2.2 3.2 3.2 3.2 3.2 3.3 3.2 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2	5.1 5.6 5.8 6.6 4.5 6.3 5.8 6.1 5.3 5.5 5.0 5.7 6.9 5.7 4.9 5.7 4.9	2.1 1.8 2.2 2.1 1.7 1.8 1.8 2.5 2.0 2.4 2.3 1.8 2.2 2.3 1.5 2.0 2.4 2.3 2.0 1.8 2.1 1.8	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 1 2 2 2 2 2 1 1 1 2 2 2 2 2 2 1 1 2 2 2 2 1 1 2		
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5 6.4 6.8 5.7 7.7 6.0 6.5 7.7 6.0 6.9 5.6 7.7 6.7 7.7	2.7 3.0 2.9 3.0 3.0 2.5 2.9 2.5 3.6 3.2 2.7 3.0 2.5 2.8 3.2 2.7 3.0 2.5 2.8 3.2 3.8 2.6 2.2 3.8 2.6 3.8 3.2 3.8 3.2 3.3	5.1 5.9 5.6 6.6 4.5 6.3 5.8 6.1 5.1 5.3 5.5 6.7 6.7 6.9 5.9 5.7 4.9 6.7	2.1 1.8 2.2 2.1 1.7 1.8 2.5 2.0 2.1 2.0 2.4 2.3 1.8 2.3 2.0 2.0 2.1 2.0 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 1 2 2 2 2 2 1 1 2 2 2 2 2 1 2		
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5 6.4 6.8 5.7 5.8 6.4 6.5 7.7 6.0 6.9 5.6 7.7 6.3 6.7 7.2 6.1 6.4 7.2	2.7 3.0 2.9 3.0 3.0 2.5 2.9 2.5 3.6 3.2 2.7 3.0 2.5 2.8 3.2 2.7 3.0 3.8 2.6 2.6 2.2 3.2 2.8 2.8 2.8 2.8 2.8 2.8 3.0 2.8 3.0 3.8 3.0 3.8 3.0	5.1 5.9 5.6 6.6 4.5 6.3 5.8 6.1 5.1 5.5 5.5 5.7 6.9 5.7 4.9 6.7 4.9 5.7 4.9 5.6	2.1 1.8 2.2 2.1 1.7 1.8 1.8 2.5 2.0 2.1 2.0 2.4 2.3 1.8 2.5 2.3 1.8 2.8 2.1 1.8 2.1 1.8 2.1 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 1 2 2 2 2 1 1 2 2 2 2 1 2 2 2 2 2		
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5 6.4 6.8 5.7 7.7 6.9 6.9 6.9 6.9 6.7 7.2 6.1 6.2 6.1 6.4 7.2 7.4	2.7 3.0 2.9 3.0 3.0 2.5 2.5 3.6 3.2 2.7 3.0 2.5 3.8 3.2 2.8 3.0 2.6 2.2 3.2 2.8 2.8 2.6 2.2 3.2 3.2 3.0 3.8 2.6 2.2 3.2 3.0 3.8 3.0 3.8 3.0 3.8 3.0 3.8 3.0 3.8 3.0 3.8 3.0 3.8 3.0 3.8 3.0 3.8 3.0 3.8 3.0 3.8 3.0 3.8 3.0 3.8	5.1 5.6 5.8 6.6 4.5 6.3 5.8 6.1 5.3 5.5 5.0 5.1 5.5 5.7 6.9 5.7 4.9 6.7 4.9 5.7 4.9 5.7	2.1 1.8 2.2 1.17 1.8 2.5 2.0 2.1 2.1 2.0 2.4 2.3 1.8 2.2 2.3 1.5 2.0 2.0 1.8 1.8 1.8 1.8 1.8 1.9	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 1 2 2 2 2 2 1 1 2 2 2 2 1 2 2 2 2		
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 123 124 125 126 127 128 129 130	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5 6.4 6.8 5.7 5.8 6.4 6.5 7.7 6.0 6.9 5.6 7.7 6.3 6.7 7.2 6.1 6.4 7.2 7.4 7.9	2.7 3.0 2.9 3.0 3.0 2.5 2.9 2.5 3.6 3.2 2.7 3.0 2.5 2.8 3.2 2.7 3.0 3.8 2.6 2.2 3.2 3.2 3.8 2.6 2.2 3.2 3.8 2.8 2.8 2.8 2.8 2.8 3.8 3.8 3.8 3.8	5.1 5.9 5.6 5.8 6.6 5.8 6.1 5.3 5.5 5.7 6.9 5.7 4.9 6.7 4.9 5.7 6.9 5.7 6.9 5.7 6.9	2.1 1.8 2.2 2.1 1.7 1.8 1.8 2.5 2.0 2.1 2.0 2.4 2.3 1.8 2.2 2.3 1.8 2.2 2.3 1.8 2.1 1.8 2.1 1.8 1.8 1.8 2.1 1.6 1.9 2.0	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 1 2 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2		
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 131	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5 6.4 6.8 5.7 5.8 6.4 6.5 7.7 6.0 6.9 5.6 7.7 6.2 6.1 6.4 7.2 7.4 7.9 6.4 6.3	2.7 3.0 2.9 3.0 3.0 2.5 2.5 3.6 3.2 2.7 3.0 2.5 2.8 3.2 2.7 3.0 2.8 3.2 2.8 3.2 2.8 2.8 2.6 2.2 3.2 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2	5.1 5.9 5.6 5.8 6.6 5.8 6.1 5.3 5.5 5.5 5.0 5.7 6.9 5.7 4.9 5.7 6.9 5.7 6.9 5.7 6.9 5.7 6.9 5.6 5.8	2.1 1.8 2.2 2.1 1.7 1.8 1.8 2.5 2.0 2.1 2.0 2.4 2.3 1.8 2.2 2.3 1.8 2.2 1.3 1.8 2.1 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 1 2 2 2 2 2 1 1 2 2 2 2 1 2 2 2 2		
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 131 132 133	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5 6.4 6.8 5.7 7.7 6.0 6.9 5.6 6.7 7.7 6.3 6.7 7.2 6.1 6.4 7.2 6.1 6.4 7.2 6.1 6.4 7.2 6.1 6.4 7.2 6.1 6.4 7.9 6.4 6.3	2.7 3.0 2.9 3.0 2.5 2.5 3.6 3.2 2.7 3.0 2.5 2.7 3.0 2.5 2.8 3.2 2.8 3.2 2.8 2.6 2.2 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8	5.1 5.6 5.8 6.6 5.8 6.1 5.1 5.5 5.0 5.1 5.5 5.7 6.9 5.7 6.9 5.7 4.9 5.7 4.9 5.7 6.7 4.9 5.7 6.8 6.1	2.1 1.8 2.2 2.1 1.7 1.8 2.5 2.0 2.1 2.0 2.4 2.3 1.8 2.2 2.3 2.0 2.0 1.8 2.1 1.8 2.1 1.8 2.1 1.8 2.1 1.8 2.1 1.6 2.0 2.0 2.0 2.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 2 2 2 2 2 2 1 2 2 2 2 2 1 2 2 2 2		
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 121 122 123 124 125 126 127 128 129 130 131 132 133 134	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5 6.4 6.8 5.7 6.8 6.4 6.5 7.7 6.0 6.9 5.6 7.7 6.3 6.7 7.2 6.1 6.4 7.2 6.1 6.4 7.2 7.4 7.9 6.4 6.3 7.7	2.7 3.0 2.9 3.0 3.0 2.5 2.5 3.6 3.2 2.7 3.9 2.5 2.8 3.2 2.7 3.0 2.8 3.2 2.8 3.0 3.8 2.6 2.2 3.0 3.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 3.0 2.8 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	5.1 5.9 5.6 5.8 6.6 5.8 6.1 5.3 5.5 5.5 5.0 5.7 6.9 5.7 4.9 5.7 6.9 5.7 6.9 5.7 6.9 5.6 6.1	2.1 1.8 2.5 2.1 1.7 1.8 2.5 2.0 2.1 2.0 2.4 2.3 1.8 2.2 2.3 1.8 2.2 2.3 1.8 2.1 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 2 2 2 2 2 2 1 2 2 2 2 2 1 2 2 2 2		
101 102 103 104 105 106 107 108 109 110 111 111 112 113 114 115 116 117 118 119 120 121 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5 6.4 6.8 5.7 6.6 6.5 7.7 6.0 6.9 5.6 7.7 6.2 6.1 6.2 6.1 7.2 7.4 7.9 6.3 6.1 7.7 6.3 6.1 7.7 6.3 6.4 6.3 6.1 7.7 6.3 6.1 6.3 6.1 7.7 6.3 6.1	2.7 3.0 2.9 3.0 2.5 2.5 3.6 3.2 2.7 2.6 3.2 2.7 2.5 2.8 3.2 2.7 3.3 2.8 2.6 2.2 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8	5.1 5.6 5.8 6.6 4.5 6.3 5.8 6.1 5.3 5.5 5.5 5.7 6.9 5.7 4.9 5.7 4.9 5.7 6.9 5.7 6.9 5.7 6.9 5.7 6.9 6.1 5.6 6.4 5.6 6.4 5.6 6.4 5.6 6.5	2.1 1.8 2.5 2.0 1.7 1.8 2.5 2.0 2.1 2.0 2.4 2.3 1.8 2.2 2.3 1.8 2.2 2.3 1.8 2.1 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 1 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2		
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 122 123 124 125 126 127 128 129 130 131 132 134 135 136 137 138	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5 6.4 6.8 5.7 7.7 6.0 6.5 7.7 7.0 6.0 6.9 5.6 7.7 6.0 6.1 6.4 7.2 7.4 7.2 6.1 6.4 7.2 7.4 7.6 6.3 6.1 7.7 6.3 6.1 7.7 6.3 6.1 6.4 6.3 6.1 7.7 6.3 6.1 6.4 6.3 6.1 7.7 6.3 6.1 6.4 6.3 6.1	2.7 3.0 2.9 3.0 3.0 2.5 2.9 2.5 3.6 3.2 2.7 3.0 2.5 3.0 2.5 3.0 2.8 3.2 2.8 2.8 2.8 2.8 3.0 2.8 3.0 2.8 3.0 3.0 3.1 3.0 3.8 3.0 3.1 3.0 3.8 3.0 3.1 3.0	5.1 5.6 5.8 6.6 5.8 6.1 5.1 5.5 5.0 5.7 6.9 5.7 4.9 5.7 4.9 5.6 5.6 5.6 5.6 5.6 5.6 5.6	2.1 1.8 2.2 2.1 1.7 1.8 2.0 2.1 2.0 2.1 2.0 2.4 2.3 1.8 2.1 2.0 2.0 2.0 2.1 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 1 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2		
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5 6.4 6.8 5.7 5.8 6.4 6.5 7.7 6.0 6.9 5.6 6.1 7.2 6.1 6.2 6.1 7.2 7.4 7.9 6.3 6.1 7.7 6.3 6.1 7.7 6.4 6.5 7.7 7.2 6.1 6.2 6.1 6.4 7.2 7.4 6.3 6.1 7.7 6.3 6.1 6.4 6.9 6.9	2.7 3.0 2.9 3.0 2.5 2.5 3.6 3.2 2.7 3.0 2.5 2.8 3.2 2.7 3.0 2.5 3.0 2.8 3.2 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 3.0 3.8 3.0 3.8 3.0 3.1 3.0 3.1	5.1 5.6 5.8 6.6 5.8 6.1 5.3 5.5 5.1 5.5 5.6 6.9 5.7 6.9 5.7 4.9 5.7 4.9 5.7 6.9 5.7 6.9 5.7 6.9 5.7 6.9 6.1 5.8 6.1 5.8 6.1 5.8 6.1 5.8 6.1 5.8 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9	2.1 1.8 2.5 2.0 1.9 2.1 2.0 2.1 2.0 2.4 2.3 1.8 2.2 2.3 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 1 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2		
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 123 124 125 126 127 128 129 131 132 133 134 135 136 137 138 139 140	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5 6.4 6.8 5.7 5.8 6.5 7.7 6.0 6.9 5.6 6.1 7.2 6.1 6.2 6.1 7.2 7.2 6.1 6.4 7.2 6.1 6.4 7.2 7.4 7.9 6.4 6.3 6.1 7.7 6.3 6.1 7.7 6.3 6.1 7.7 6.3 6.1 7.7 6.3 6.1 7.7 6.3 6.1 6.4 7.9 6.4 6.5 7.7 6.3 6.1 7.7 6.3 6.1 7.7 6.3 6.1 7.7 6.3 6.1 7.7 6.3 6.1 7.7 6.3 6.1 7.7 6.3 6.1	2.7 3.0 2.9 3.0 3.0 2.5 2.5 3.6 3.2 2.7 2.8 3.0 2.5 2.8 3.2 2.7 3.3 2.6 2.8 2.8 2.7 3.3 3.2 2.8 2.8 2.8 2.8 2.8 2.8 3.0 3.8 3.0 3.1 3.1 3.1	5.1 5.6 5.8 6.6 5.8 6.1 5.3 5.5 5.1 5.5 5.7 6.9 5.7 4.9 5.7 6.9 5.7 6.9 5.7 6.9 5.7 6.9 5.6 6.4 5.8 6.1 5.8 6.1	2.1 1.8 2.5 2.0 1.9 2.1 2.0 2.1 2.0 2.4 2.3 1.8 2.2 2.3 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 1 2 2 2 2 1 1 2 2 2 2 1 2 2 2 2 2		
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 120 121 123 124 125 126 127 128 130 131 132 134 135 136 137 138 139 140 141	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5 6.4 6.8 5.7 7.7 6.0 6.9 6.9 6.3 6.7 7.2 6.1 6.4 7.2 6.1 6.4 6.3 6.1 7.7 6.0 6.9 6.4 6.5 7.7 6.0 6.9 6.7 7.7 6.0 6.9 6.9 6.1 6.4 6.9 6.7 7.9 6.4 6.5 7.7 6.0 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9	2.7 3.0 2.9 3.0 2.5 2.5 3.6 3.2 2.7 3.0 2.5 2.8 3.2 2.8 2.8 2.6 2.8 2.8 2.8 2.8 2.8 2.8 3.0 3.8 2.6 3.0 3.1 3.1 3.1 3.1	5.1 5.6 5.8 6.6 5.8 6.1 5.1 5.5 5.7 6.9 5.0 5.0 5.7 4.9 5.6 5.8 4.9 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6	2.1 1.8 2.2 2.1 1.7 1.8 2.0 2.0 2.1 2.0 2.4 2.3 1.8 2.5 2.3 2.0 2.0 2.0 1.8 2.1 1.8 2.1 1.6 1.9 2.2 1.5 1.8 2.1 1.8 2.1 1.8 2.1 1.8 2.1 1.8 2.1 1.8 2.1 2.2 2.3 2.3 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 1 2 2 2 2 1 1 2 2 2 2 1 2 2 2 2 1 2		
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 123 124 125 126 127 128 129 131 132 133 134 135 136 137 138 139 140	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5 6.4 6.8 5.7 7.7 6.0 6.9 6.3 6.7 7.2 6.1 6.4 7.2 6.1 7.7 6.3 6.7 7.2 6.1 6.4 6.5 7.7 7.7 6.8 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9	2.7 3.0 2.9 3.0 2.5 2.5 3.6 3.2 2.7 3.0 2.5 2.8 3.2 2.7 3.0 2.5 3.2 2.8 3.2 2.8 3.2 2.8 2.6 2.8 2.7 3.3 3.2 2.8 2.8 2.8 2.8 2.7 3.3 3.2 2.8 3.0 3.4 3.1 3.1 3.1 3.1	5.1 5.6 5.8 6.6 5.8 6.1 5.3 5.5 5.1 5.5 5.7 6.9 5.7 4.9 5.7 6.9 5.7 6.9 5.7 6.9 5.7 6.9 5.7 6.9 5.7 6.9 5.7 6.9 5.7 6.9 5.8 6.1 5.8 6.1 5.8 6.1 5.5 6.9 5.7 6.9 5.8 6.9 5.7 6.9 5.8 6.9 5.8 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9	2.1 1.8 2.5 2.0 1.9 2.1 2.0 2.1 2.0 2.4 2.3 1.8 2.2 2.3 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 1 2 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2		
101 102 103 104 105 106 107 108 109 110 111 112 113 114 1115 116 117 118 119 120 121 123 124 125 127 128 129 131 131 132 133 134 135 136 137 138 139 140 141 142 143	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5 6.4 6.8 5.7 7.7 6.0 6.9 6.9 6.3 6.7 7.2 6.1 6.4 7.2 6.1 6.4 6.3 6.1 7.7 6.0 6.9 6.4 6.5 7.7 6.0 6.9 6.7 7.7 6.0 6.9 6.9 6.1 6.4 6.9 6.7 7.9 6.4 6.5 7.7 6.0 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9	2.7 3.0 2.9 3.0 2.5 2.5 3.6 3.2 2.7 3.0 2.5 2.8 3.2 2.7 3.0 2.5 3.0 2.8 3.2 2.8 3.0 3.8 2.6 2.8 2.8 2.8 2.8 2.8 2.8 2.8 3.0 3.1 3.1 3.1 3.1 3.1 3.1 3.1	5.1 5.6 5.8 6.6 5.8 6.1 5.1 5.5 5.7 6.9 5.0 5.0 5.7 4.9 5.6 5.8 4.9 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6	2.1 1.8 2.2 2.1 1.7 1.8 2.5 2.0 2.4 2.1 2.0 2.4 2.3 1.8 2.2 2.3 2.0 2.0 1.8 1.8 1.8 2.1 1.6 2.2 2.3 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 1 2 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2		
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 120 121 123 124 125 126 127 128 130 131 132 134 135 136 137 138 139 140 141 142 143	5.8 7.1 6.3 6.5 7.6 4.9 7.3 6.7 7.2 6.5 6.4 6.8 5.7 5.8 6.4 6.5 7.7 6.0 6.9 5.6 7.7 7.2 6.2 6.1 6.4 7.2 7.4 7.9 6.4 6.3 6.1 7.7 6.3 6.1 7.7 6.3 6.1 7.7 6.3 6.1 7.7 6.3 6.1 7.7 6.3 6.1 7.7 6.3 6.1 7.7 6.3 6.1 7.9 6.4 6.5 7.7 6.3 6.1 7.9 6.4 6.5 7.7 6.3 6.1 7.9 6.4 6.6 6.9 6.9 5.8 6.8	2.7 3.0 2.9 3.0 2.5 2.5 3.6 3.2 2.7 3.0 2.5 2.8 3.2 2.7 3.0 2.8 3.2 2.8 2.8 2.8 2.8 2.8 2.8 2.8 3.0 3.8 3.0 3.1 3.1 3.1 3.1 3.1 3.7 3.2 3.3	5.1 5.9 5.6 5.8 6.6 5.8 6.1 5.1 5.5 5.7 6.9 5.0 5.0 6.7 4.9 5.6 6.0 4.9 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6	2.1 1.8 2.2 2.1 1.7 1.8 2.0 2.1 2.0 2.1 2.0 2.4 2.3 1.8 2.6 2.0 2.0 1.8 2.1 1.8 2.1 1.8 2.1 1.8 2.1 1.8 2.1 1.8 2.1 1.8 2.1 1.8 2.1 1.8 2.1 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	2 2 2 1 2 2 2 2 1 1 2 2 2 2 1 2 2 2 2 2		

		y				
147	6.5	3.0	5.2	2.0	2.0	
148	6.2	3.4	5.4	2.3	2.0	2
149	5.9	3.0	5.1	1.8	2.0	ī
	data iris dengan					
			petallength(cm)	petalwidth(cm)	species	pred species
	4.6	3.1	1.5	0.2	0.0	
	5.0	3.0	1.6	0.2	0.0	
	4.4	2.9	1.4	0.2	0.0	
129	7.2	3.0	5.8	1.6	2.0	
	4.8	3.0	1.4	0.3	0.0	
118	7.7	2.6	6.9	2.3	2.0	
130	7.4	2.8	6.1	1.9	2.0	
58	6.6	2.9	4.6	1.3	1.0	
102	7.1	3.0	5.9	2.1	2.0	
69	5.6	2.5	3.9	1.1	1.0	
104	6.5	3.0	5.8	2.2	2.0	
90	5.5	2.6	4.4	1.2	1.0	
94	5.6	2.7	4.2	1.3	1.0	1
28	5.2	3.4	1.4	0.2	0.0	ō
	6.7	3.0	5.0	1.7	1.0	
29	4.7	3.2	1.6	0.2	0.0	0
43	5.0	3.5	1.6	0.6	0.0	ø
19	5.1	3.8	1.5	0.3	0.0	
89	5.5	2.5	4.0	1.3	1.0	1
59	5.2	2.7	3.9	1.4	1.0	
106	4.9	2.5	4.5	1.7	2.0	
112	6.8	3.0	5.5	2.1	2.0	2
49	5.0	3.3	1.4	0.2	0.0	0
14	5.8	4.0	1.2	0.2	0.0	ő
30	4.8	3.1	1.6	0.2	0.0	ø
108	6.7	2.5	5.8	1.8	2.0	
135	7.7	3.0	6.1	2.3	2.0	2
48	5.3	3.7	1.5	0.2	0.0	ō
113	5.7	2.5	5.0	2.0	2.0	1
92	5.8	2.6	4.0	1.2	1.0	1
124	6.7	3.3	5.7	2.1	2.0	2
53	5.5	2.3	4.0	1.3	1.0	
60	5.0	2.0	3.5	1.0	1.0	
96	5.7	2.9	4.2	1.3	1.0	î
50	7.0	3.2	4.7	1.4	1.0	2
88	5.6	3.0	4.1	1.3	1.0	1
111	6.4	2.7	5.3	1.9	2.0	2
56	6.3	3.3	4.7	1.6	1.0	2
119	6.0	2.2	5.0	1.5	2.0	1
143	6.8	3.2	5.9	2.3	2.0	2
74	6.4	2.9	4.3	1.3	1.0	2
21	5.1	3.7	1.5	0.4	0.0	ő
73	6.1	2.8	4.7	1.2	1.0	1
	1011202	77574	C121500V			
87	6.3	2.3	4.4	1.3	1.0	
	6.1	3.0	4.9	1.8	2.0	

## SS Output KmeansClusteringPloting



## • SS Output MethodElbowDetermineK



## • SS Output MethodSiluetAvgDetermineK

