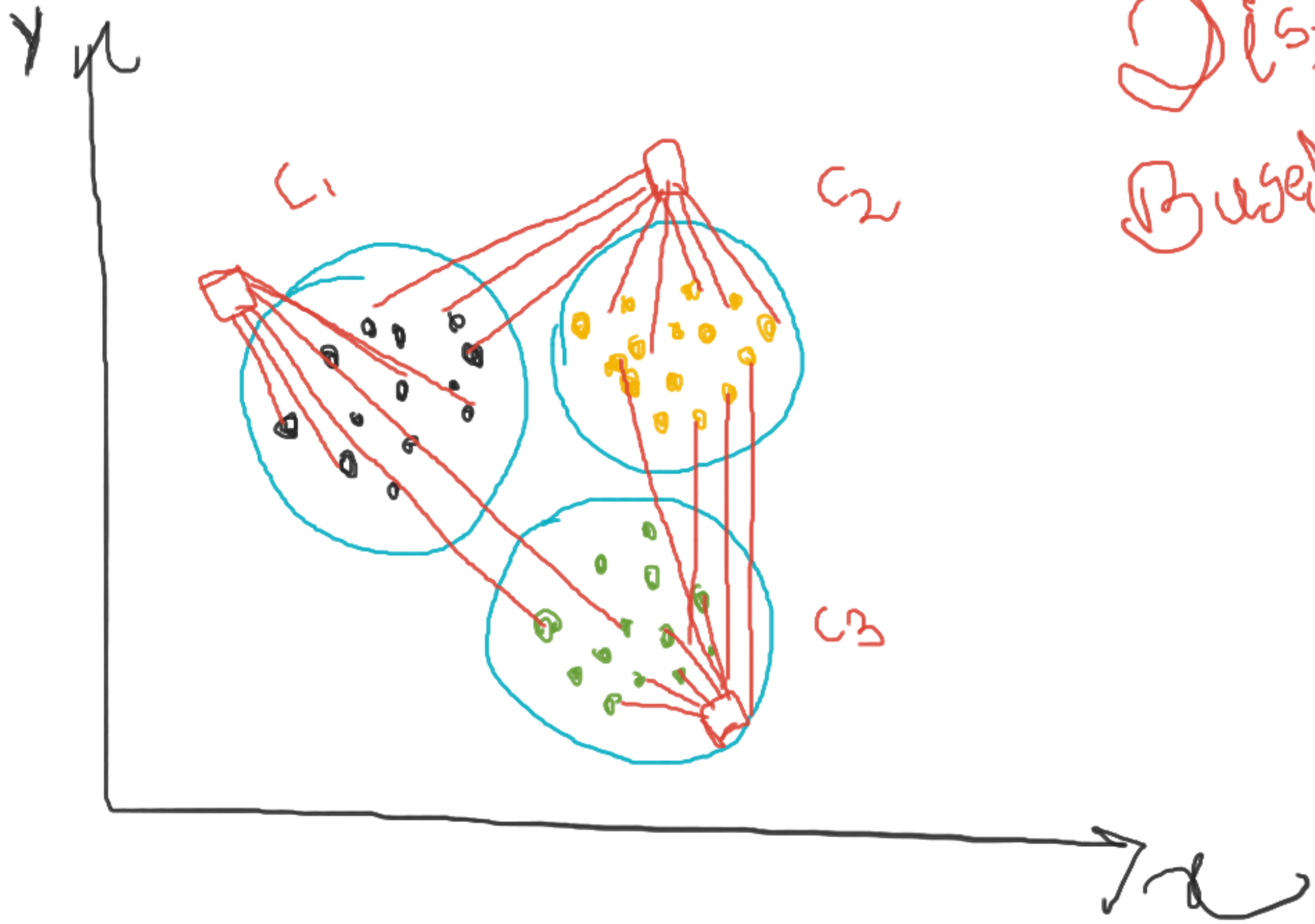
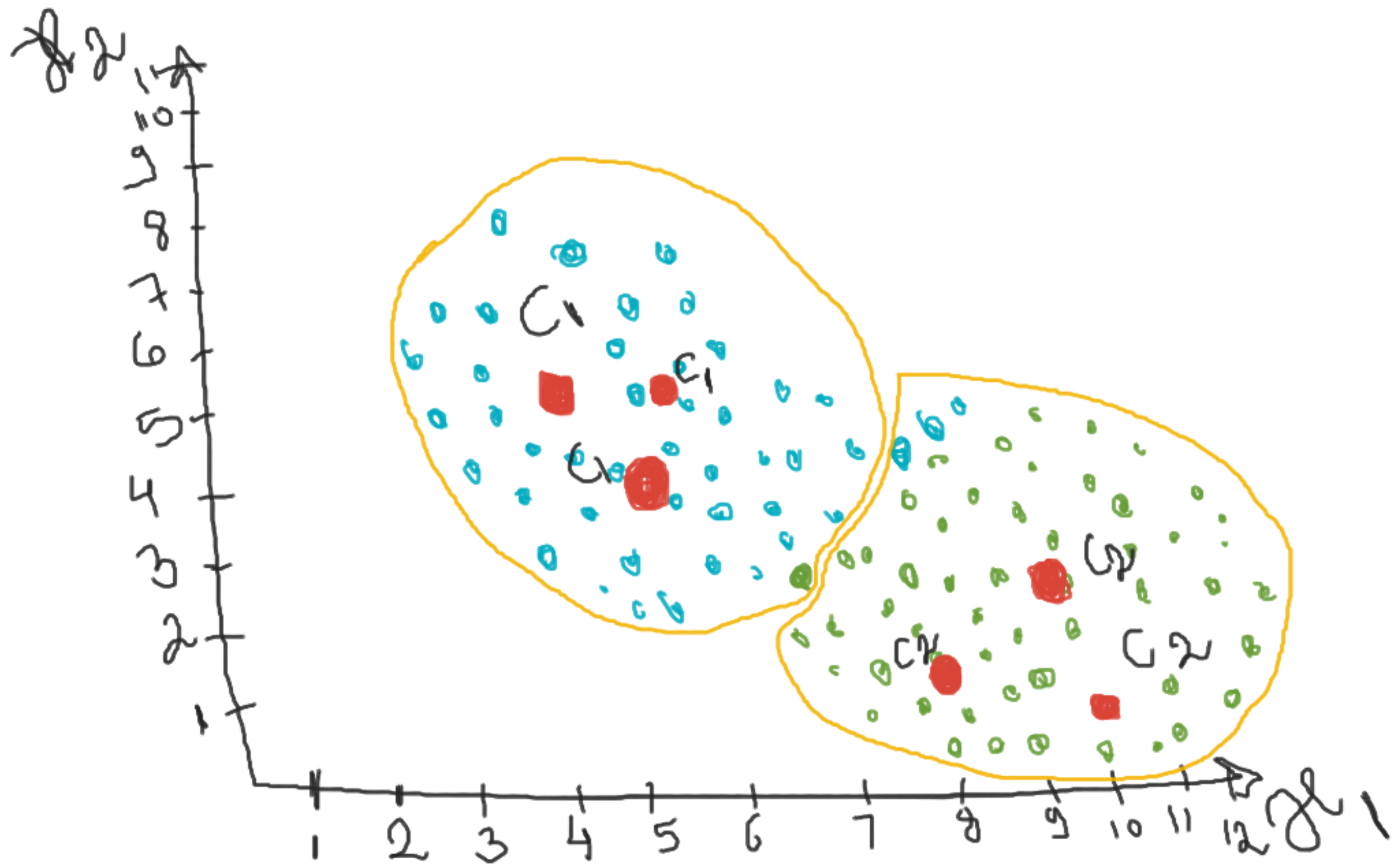


Distance
Based





x_1	x_2	$C_1 (4,5)$	$C_2 (10,1)$
2	3	2.8	8.24
3	5	1	8.06
5	4	1.9	15.83
9	6	5.09	5.09
7	7	3.60	6.7
8	1	5.65	2

$$\frac{2+3+5+9+7}{5}$$

$$= 5.2$$

$$= \frac{3+5+4+6+7}{5}$$

$$= 5$$

Updated centroid

$$C_1 = (5.2, 5)$$

$$C_2 = (8, 1)$$

Iterations

C_1

C_2

1

4

16

2

5

14

3

8

12

4

9.5

10.8

5

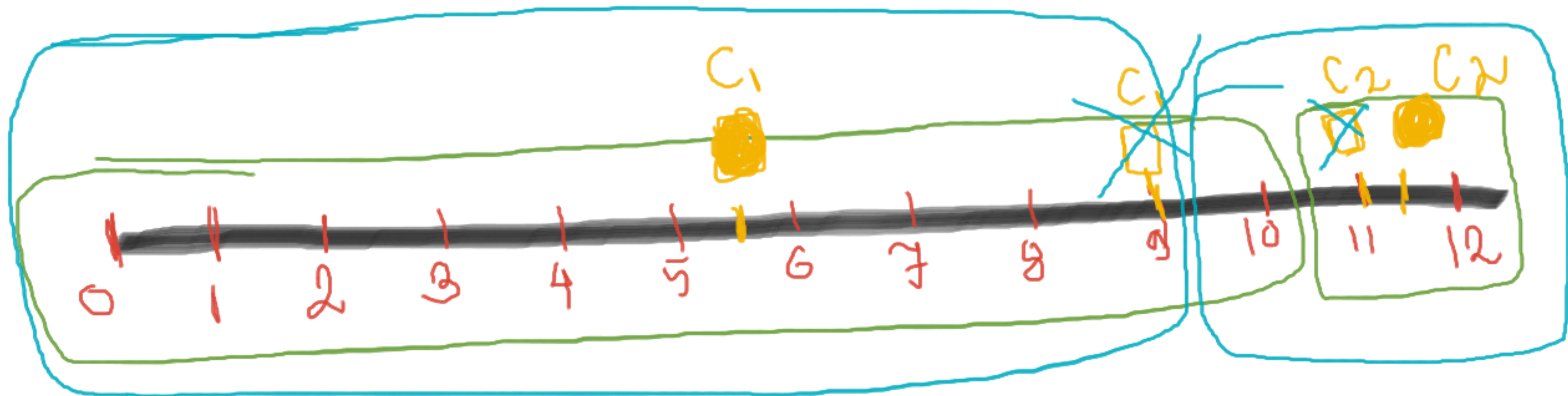
9.5

10.8

6

9.5

10.8



x_1	$(5.5) C_1 (9)$	$C_2 (11) (11.5)$
1	8	10
2	7	9
3	6	8
4	5	7
5	4	6
6	3	5
7	2	4
8	1	3
9	0	2
10	-1	1
11	-2	0
12	-3	-1

$$= \frac{5.5}{11.5}$$

Iteration

C_1

C_2

5.5

10.5

1

6.7

11.5

2

3

8

14

4

8

14

5

8

14

WCSS

$K = ?$

