(2,3) (5,6) (8,7) , (1,4) (2,2) (6,7) (3,4) (8,6)

k=2

$C_1 = (2,3)$, $C_2 = (5,6)$

X	Y	$C_1(2,3)$ $\sqrt{(x-2)^2+(y-3)^2}$	$C_2(5,6)$ $\sqrt{(x-5)^2+(y-6)^2}$	
2	3	$\sqrt{(2-2)^2+(3-3)^2}=0$	$\sqrt{(2-5)^2+(3-6)^2}=\sqrt{18}=$	e_1
5	6	$\sqrt{(5-2)^2+(6-3)^2}=\sqrt{18}$	$\sqrt{(5-5)^2+(6-6)^2}=0$	C_2
8	7			C_2
1	4			C_1
2	2			C_1
6	7			C_2
3	4			C_1
8	6			C_2

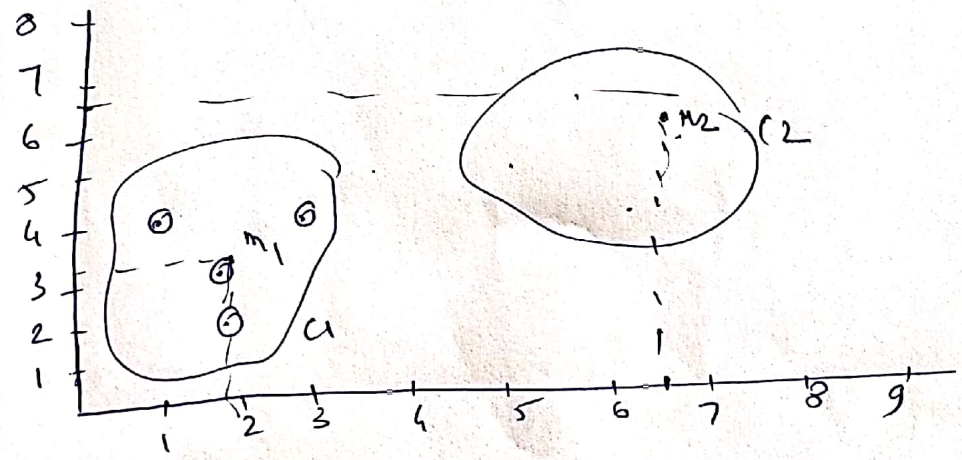
$C_1 = (2,3), (1,4), (2,2), (3,4)$ } Calculate average

$C_2 = (8,7), (5,6), (8,6), (6,7)$

$C_1 = \frac{2+1+2+3}{4}, \frac{3+4+2+4}{4} = (2, 3.25)$

$C_2 = \frac{8+5+8+6}{4}, \frac{7+6+6+7}{4} = \frac{26}{4} = 4. (6.75, 6.5)$

after 2nd iteration = we got same cluster mean.
we will stop here & show.



Scanned with CamScanner