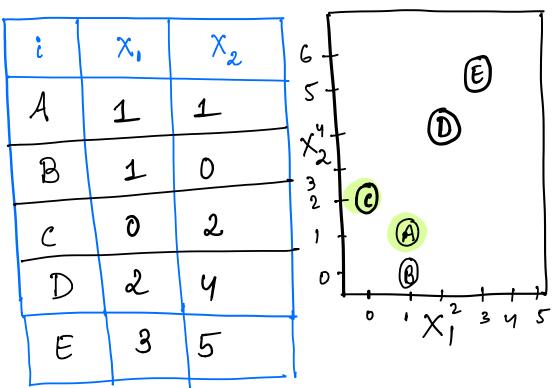
Step-0 ilp Data



Step-1

Select K, Suppose K = 2,

Select K points mandomly as centroid/initial means.

Suppose A and C are mandomly

Selected as the initial means.

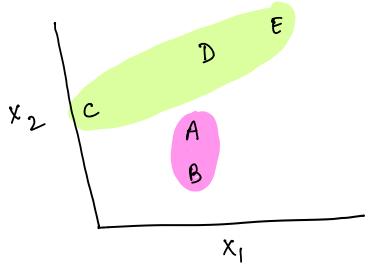
5tep-2

Compute distances between each of the cluster means and all other foints.

	i	X _I	X ₂
	A	1	1
	B	1	0
1	C	0	2
	D	2	4
ţ	E	3	5

i	×ı	X	
A	0	1.4	C
В	1	2.2	C
С	1.4	0	C
D	3.2	2.8	C
ε	4.5	4.2	C

Assign each case to the cluster having the closest mean. Recalculate the cluster mean.



Step-3

Recalculate cluster means.

$$\overline{\chi}_{1} = (1,0.5)$$

$$\overline{\chi}_2 = (1.7, 3.7)$$

