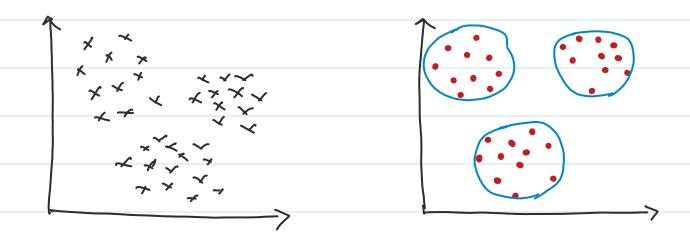
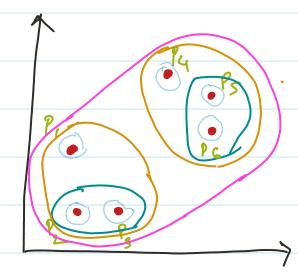
Hierarchical clustering



Two types of Geometric Intution

- (1) Aglomerative (2) Divisive

A Aglomerative



Steps Required

O for each point initially we will consider it as a seperate cluster.

Offind the nearest point and create a new cluster.

To keep on doing the same process.

Until we get a single cluster.

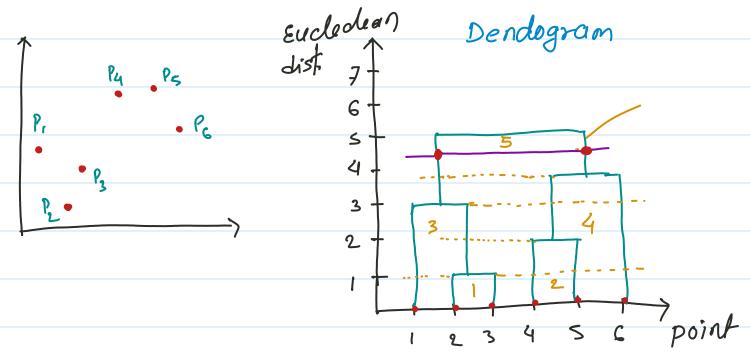
-> Down allow shows agreementive clustering.
-> Up arrow shows Divisive clustering

How to find how many cluster is there?

D we use Dendogram method.

and to find distance we use

Eucledean distance.



To find cluster we need to select threshold but how

Inhicheve vertical line is long withoutintersecting by any horizontal line it would be help to select threshold and with it we can have number of cluster.

K = 2

K-means and hierarchical
Datase - K-means Small - Hierarchical
Types of Data nlumerical K-m-eans