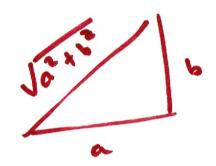
Data we will work with

- Customer Spend Data
 - AVG_Mthly_Spend: The average monthly amount spent by customer
 - No_of_Visits: The number of times a customer visited in a month
 - Item Counts: Count of Apparel, Fruits and Vegetable, Staple Items purchased

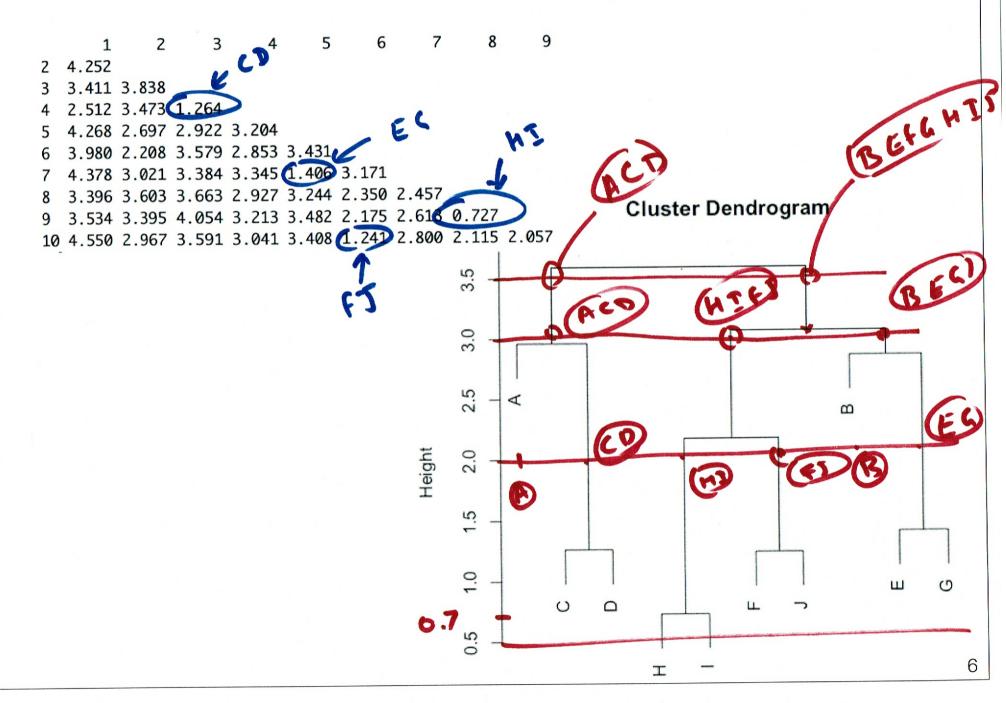
A.	Cust_ID *	Name *	Avg_Mthly_Spend *	No_Of_Visits	Apparel_Items =	FnV_Items *	Staples_Items *
1	a de la composition della comp	Α	10000	2	1	1	0
2	2	В	7000	3	0	10	9
3	3	C	7000	7	1	3	4
4	4	D	6500	5	1	1	4
5	5	E	6000	6	0	12	3
6	6	F	4000	3	0	1	8
and durance is another infrared and the first of the second	7	G	2500	5	0	11	2
8	8	Н	2500	3	0	1	1
9	and the state of t	The field principles of the graph of the state of the sta	2000	2	0	2	2
10	The providence should be a consequence of the state of the same of	nen fassid provinciani, refusionissis ole socioloficio sil secuente estrabus 1991 estern	1000	4	0	1	7

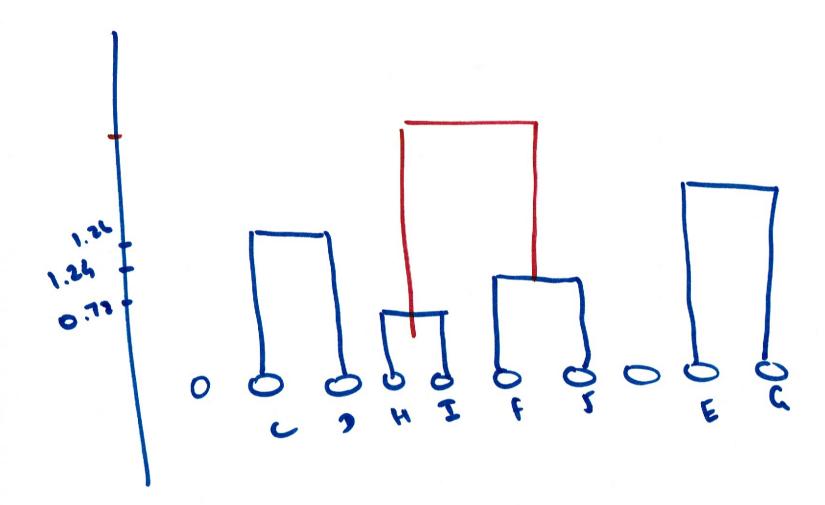
Can we cluster similar customers together?

dis A 4 B = \((10000-7000) + (2-3) + (1-0)

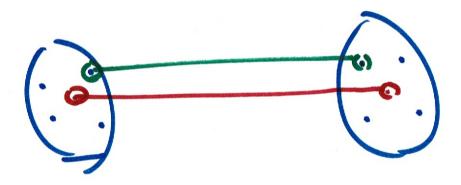


Distance between objects









Distance between clusters

- Single linkage Minimum distance or Nearest neighbor
- Complete linkage Maximum distance or Farthest distance
- Average linkage Average of the distances between all pairs
- Centroid method combine cluster with minimum distance between the centroids of the two clusters
- Ward's method Combine clusters with which the increase in within cluster variance is to the smallest degree

