1. Compare two Quantities **(30 points)**

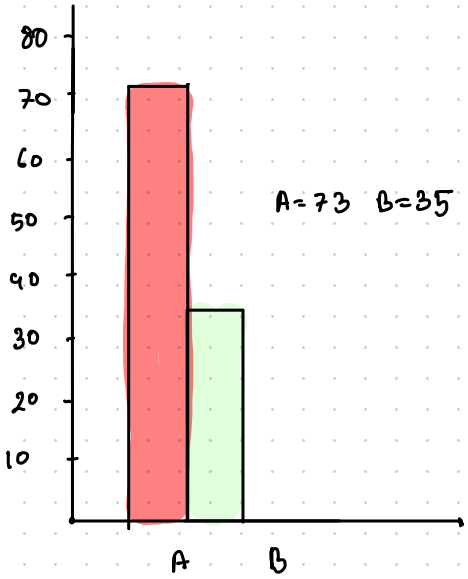
This task is from the in-class activity that happened during the first lecture. Compare two numbers: 73 and 35. Create 30 visualizations to compare these two quantities. For your reference, the screenshots of the flash cards that were given during the lecture are shown below. Visualize the two numbers by using any of the 30 representations. Paper sketches are fine, do not use any plotting tools (e.g. excel, tableau etc.).

Let, given two numbers be $A = 73$; $B = 35$;

AND, $C = A + B = 73 + 35 = 108$.

Since the relation or the nature of these two numbers were disclosed,
An arbitrator relation was assumed for each visualization to demonstrate the creative process behind it.
The exact relationship between these two numbers wasn't defined

1. PAIRED COLUMN CHART



2. Pie Chart

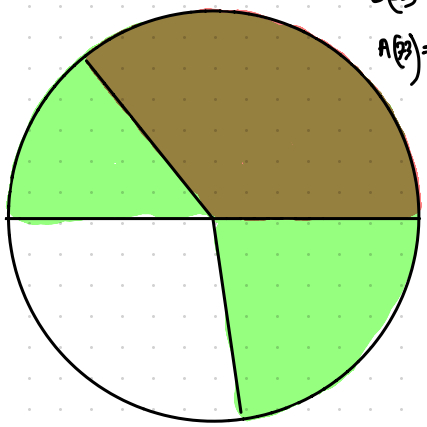
color coding:

B(35) =

A(73) =

A∩B =

Total = 100



3. HEAT MAP

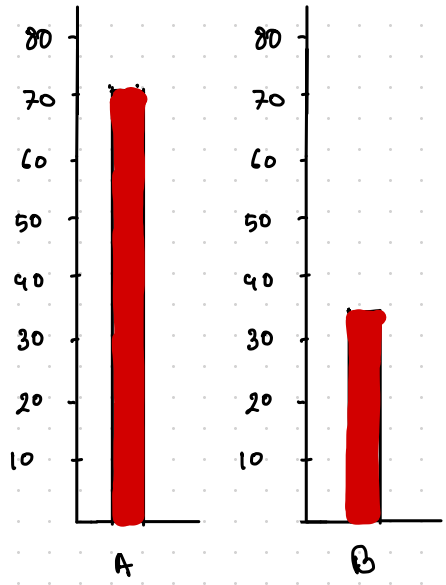
Maths

total 8 block

73 is $8/100 \times 73 = 5.84$

35 is $8/100 \times 35 = 2.8$

4. COLUMN CHART



5. ICICLE PLOTTING

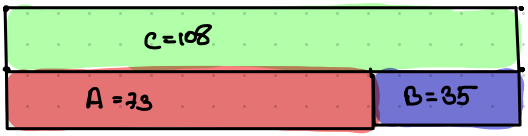
Maths

cat A = 73 B = 35

and C = A + B = 108

$73 \rightarrow {}^{18}/_{108} \times 73 = 12.1$

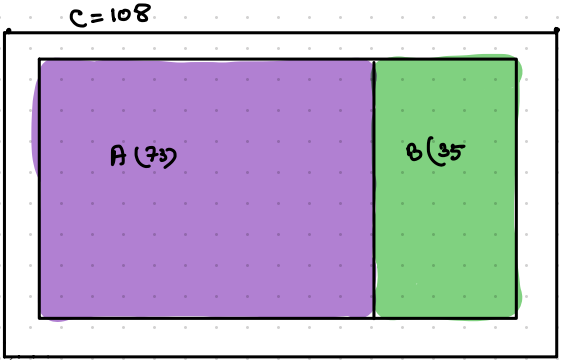
$35 \rightarrow {}^{15}/_{108} \times 35 = 5.8$



6. TREEMAP

cat A = 73 B = 35

and C = A + B = 108



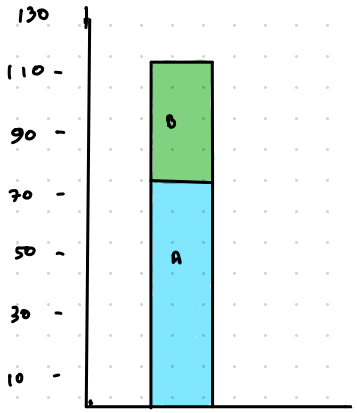
7. GANTT CHART

A = 73 ; B = 35

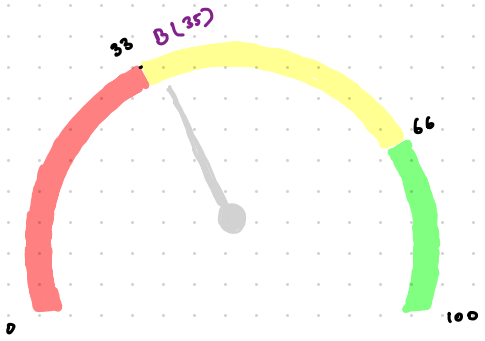
	10	20	30	40	50	60	70	80	90	100	110
Number A											
Number B											

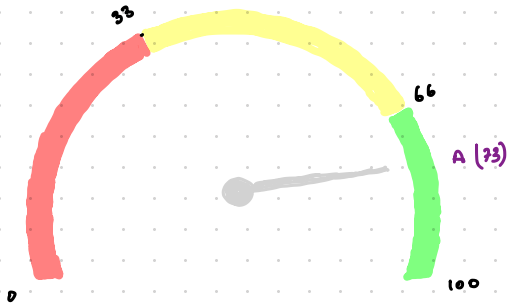
8. STACKED COLUMN

A = 73
B = 35

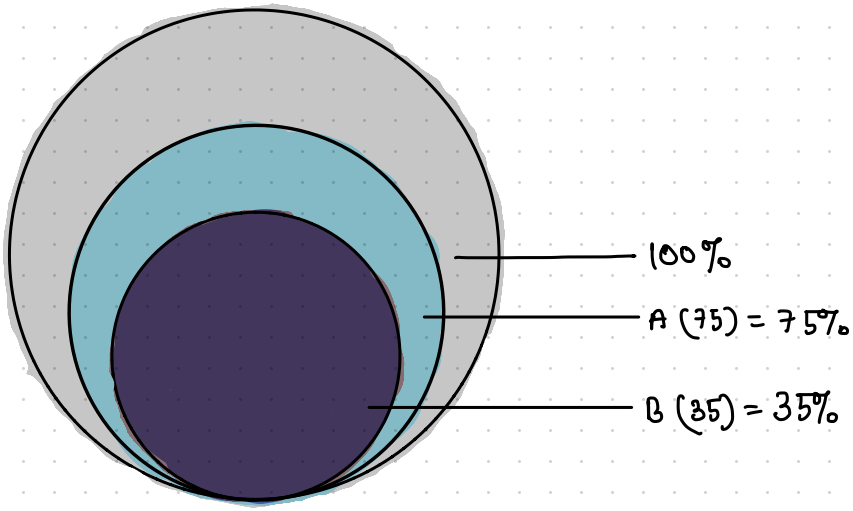


9. GAUGE

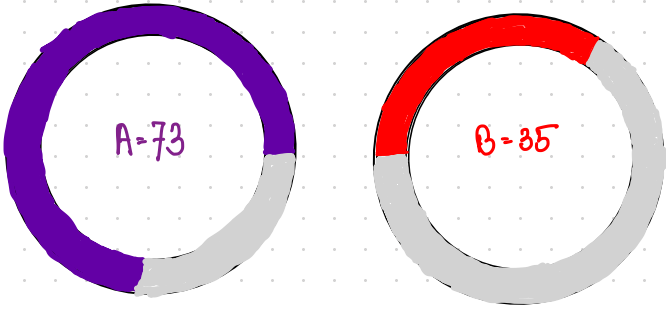




10. NESTED BUBBLE CHART



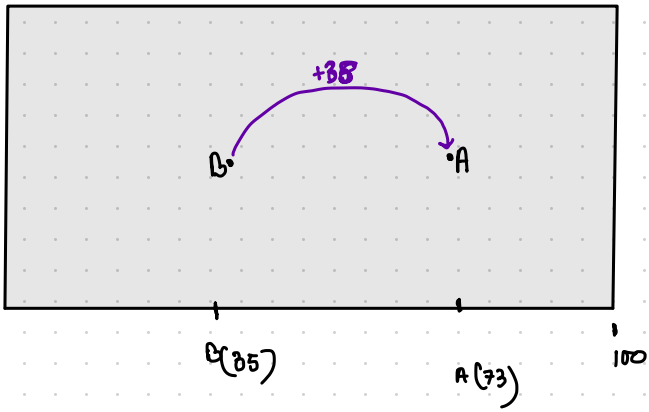
11. DONUT CHART



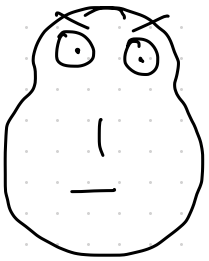
12. CONNECTION MAP

BASED ON DIFFRENCE

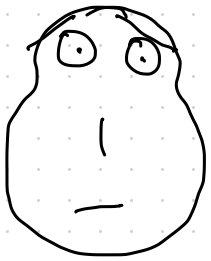
73 - 35 = 38



13. CHERNOFF FACES



A = 73



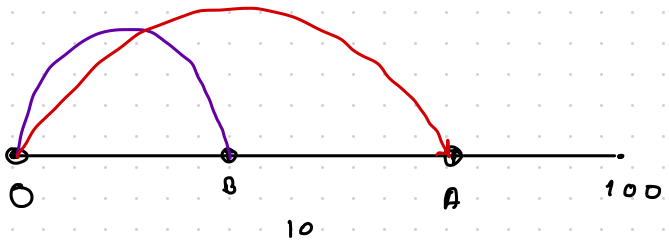
B = 35

14. STEM AND LEAF

Let, A = 73
B = 35

	S	L
	0	
	1	
	2	
B →	3	5
	4	
	5	
	6	
A →	7	3

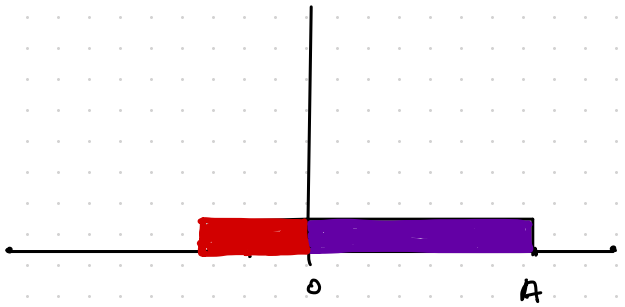
15. ARC TIME



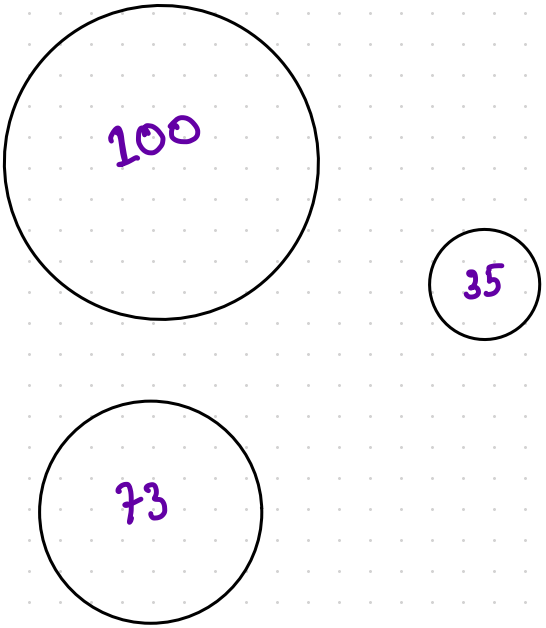
73 → 14.6
35 → 7

16. PYRAMID CHART

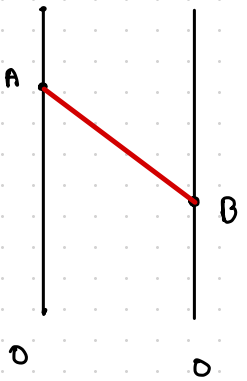
A = 73
B = 35



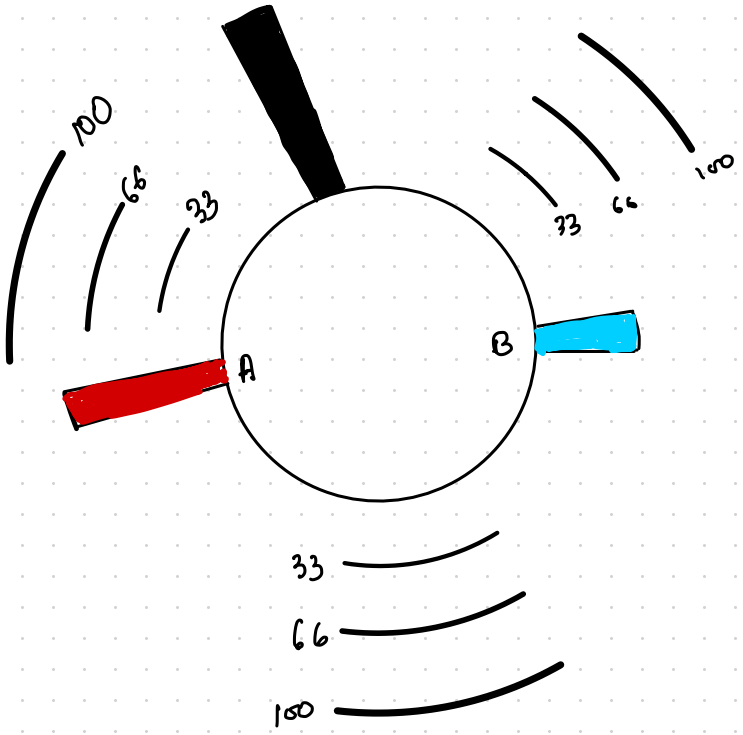
17. Bubble comparison



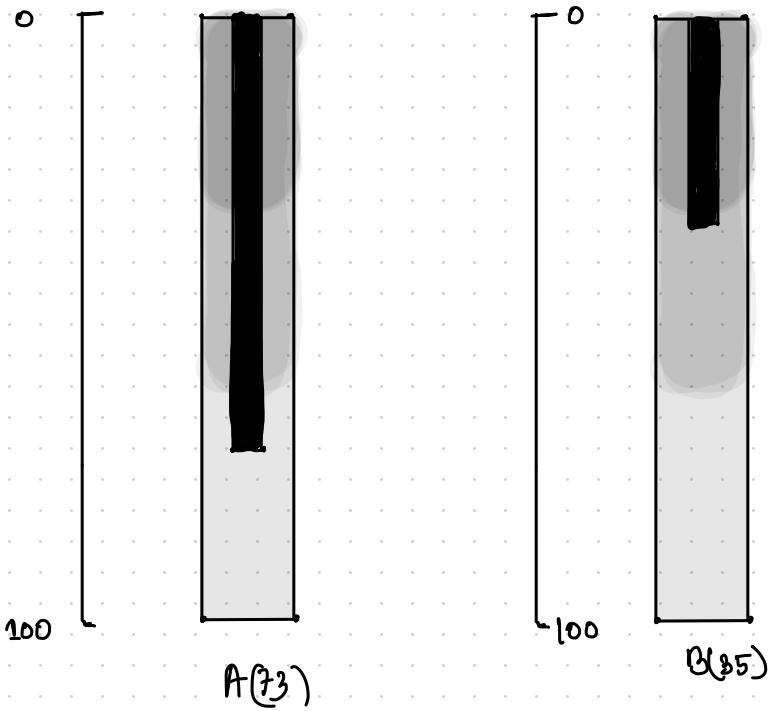
18. SLOPE CHART



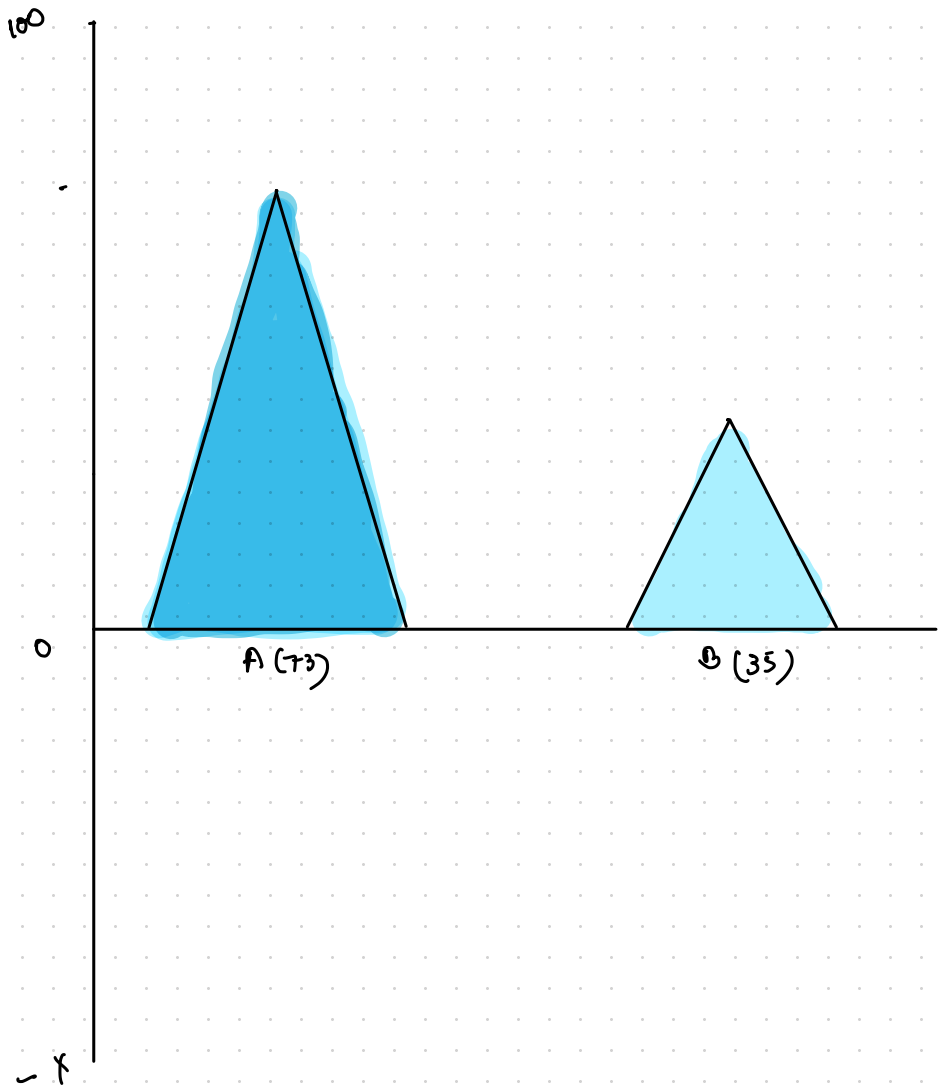
19. CIRCULAR COLUMN CHART



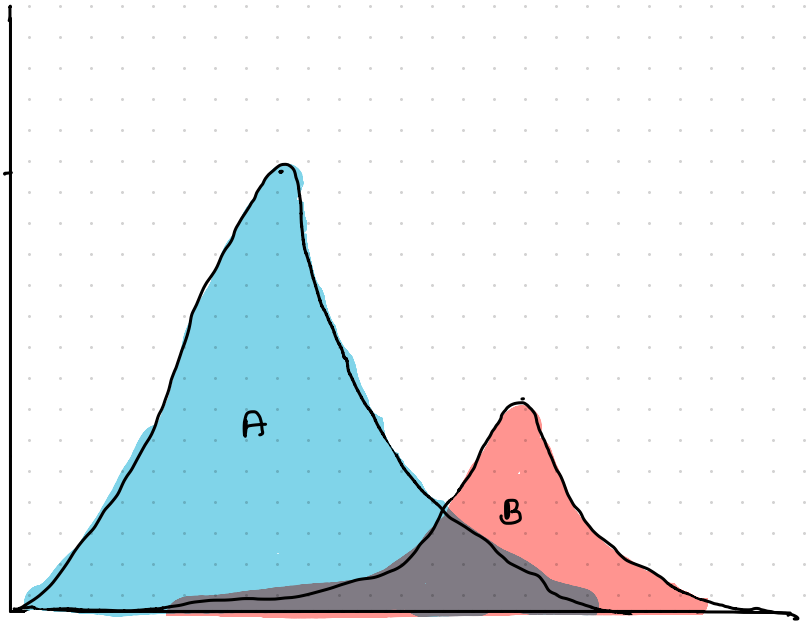
20. BULLET GRAPH



22. TRIANGLUAR COLUMN CHART



22. STACKED AREA CHART

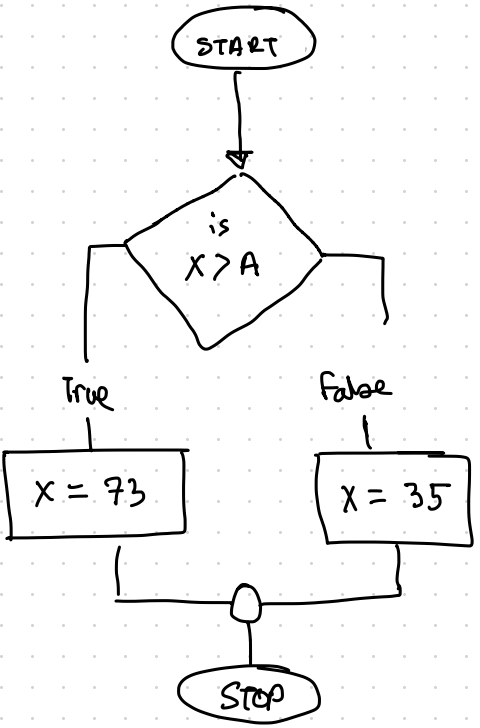


23. FLOW CHART

Let,

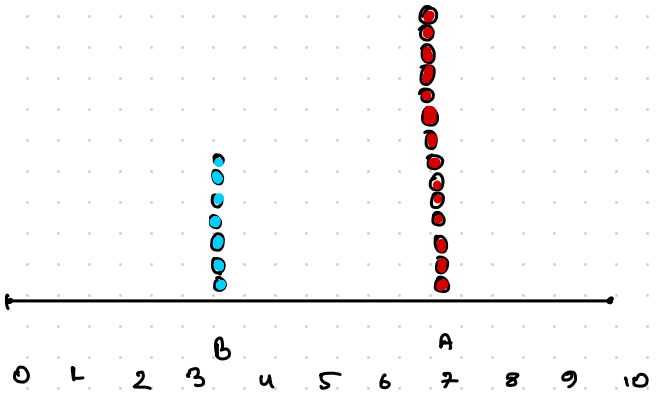
A = 73

B = 35

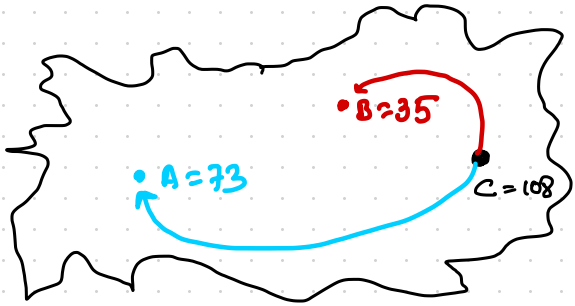


24. Timeline

25. DOT PLOT

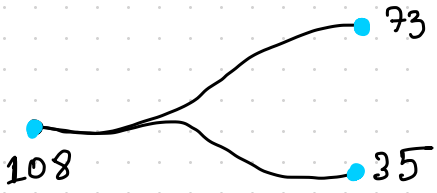


26. FLOW MAP

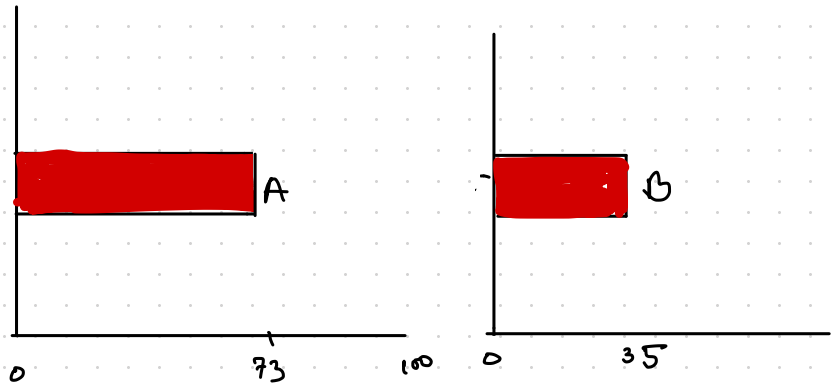


27. DENDOGRAM

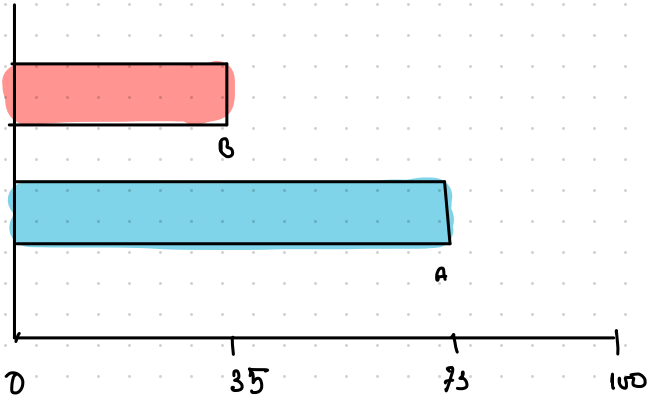
A = 73
B = 35 C = 73+35=108



28. BAR



29. PAIRED BAR



30. STACKED BAR