Date __/__/____

Saathi

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Roll no - 022

Bussiness Intelligence - Assignment 1

1. N = [100, 10, 30, 20, 40, 70, 80, 90, 110, 120, 50, 60]

Total no. of bins = 12

Depth -> 3 #vals given.

New no. of bins = Total previous bin / Depth

= 12/3

= 4

Thus, we get 4 new bins

1. we sort the inputs.

n = [10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120]

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2. Partition Bins.

Bin 1 → 10, 20, 30
Bin 2 → 40, 50, 60
Bin 3 → 70, 80, 90
Bin 4 → 100, 110, 120.

3. Smooth each Bin → $\frac{\text{Sum of each bin}}{\text{Depth}}$

Bin 1 → 20
Bin 2 → 50
Bin 3 → 80
Bin 4 → 110

4. Final output

n = [20, 50, 80, 110]

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2 n = [5, 10, 20, 15, 25, 35, 40, 45, 60, 50, 65]

Total no. of bins → 11

Depth → 3 #user given

We need to add one element to make bins equal length.

New no. of bins → Total previous bins / depth

→ 12/3

→ 4

1. Sort the bin

n = [5, 10, 15, 20, 25, 30, 35, 45, 50, 60, 65]

2. Partition bins

Bin 1 → 5, 10, 15

Bin 2 → 20, 25, 30

Bin 3 → 35, 45, 50

Bin 4 → 60, 65, x

x been uncertain.

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we assume x to be next element 66.

3. Smooth each Bin → sum of element & / depth.

Bin 1 → (5, 10, 15)/3 → 10
Bin 2 → (20, 25, 30)/3 → 25
Bin 3 → (35, 45, 50)/3 → 43.33
Bin 4 → (60, 65, 66)/3 → 63.66

4. Final output

n = [10, 25, 43.33, 63.66]