

SUNDAR COACHING CENTRE
SUBJECT – ADVANCED DATA STRUCTURES AND ALGORITHMS
K-D TREES

Question-1

Define *K-D Trees*. How are they different from normal binary trees?

[2]

Question-2

Insert the following numbers into a 2-D Tree: (2, 3), (4, 2), (4, 5), (3, 3), (1, 5), (5, 4), (1, 1). The tree must be:

- i. Unbalanced
- ii. Balanced

[4]

Question-3

Insert the following numbers into a 3-D Tree: (3, 1, 4), (2, 3, 7), (4, 3, 4), (2, 1, 3), (6, 1, 4), (1, 4, 4), (0, 5, 7), (5, 2, 5), (4, 0, 6). The tree must be:

- i. Unbalanced
- ii. Balanced

[4]

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