

Data Structures(3130702)

Definition of data structures, types of data structure

(Q.1 (a), S2024) (Q.1 (a), W2023) (Q.1 (a), S2023) (Q.1 (a), W2019)

Time complexity

(Q.5 (a), S2023) (Q.1 (b), W2022) (Q.1 (a), W2021) (Q.1 (c), W2019)

Tower of Hanoi

(Q.2 (a), S2024) (Q.3 (c), W2023) (Q.1 (b), S2023) (Q.4 (b), W2022) (Q.3 (b), S2021)

Circular queue

(Q.3 (b), W2022) (Q.3 (a), S2021) (Q.2 (c), W2021) (Q.4 (b), W2020) (Q.2 (c), S2020) (Q.2 (c), W2019)

Priority queue

(Q.3 (b), S2024) (Q.5 (c), S2023) (Q.4 (a), W2022) (Q.3 (b), S2021) (Q.1 (c), W2021) (Q.3 (c), W2020)

Primitive and non-primitive data structures

(Q.2 (b), W2023) (Q.5 (c), S2023) (Q.2 (b), W2023) (Q.1 (a), S2021) (Q.1 (c), W2021) (Q.1 (b), W2020)

Sparse matrix

(Q.4 (a), S2024) (Q.3 (c), W2023) (Q.5 (c), S2023) (Q.2 (a), W2022) (Q.1 (c), W2021) (Q.4 (b), W2019)

Stack

(Q.2 (c), S2024) (Q.1 (c), Q.2 (c), Q.3 (a), W2023) (Q.2 (c), S2023) (Q.1 (c), W2022) (Q.2 (c), S2021)
(Q.1 (c), Q.2 (c), W2021) (Q.3 (a), Q.4 (a), W2020) (Q.2 (a, b), S2020)

Queue

(Q.2 (c), S2024) (Q.2 (c), W2023) (Q.1 (c), Q.3 (c), S2023) (Q.3 (b), W2022) (Q.2 (c), S2021) (Q.3 (c),
W2021) (Q.1 (c), W2020) (Q.2 (a), S2020) (Q.2 (b), W2019)

Linked list

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(Q.4 (c), S2024) (Q.2 (a), W2023) (Q.3 (a, b), W2023) (Q.4 (b), S2023) (Q.4 (a), W2022) (Q.3 (c), S2021) (Q.3, W2021) (Q.1 (a), W2020) (Q.2 (c), S2020)

Binary tree traversal

(Q.3 (a), S2024) (Q.4 (c), S2024) (Q.4 (c), S2024) (Q.4 (b), W2023) (Q.4 (a), W2023) (Q.2 (a, c), S2023) (Q.2 (c), W2022) (Q.4 (a), W2021) (Q.4 (b), S2021)

AVL trees

(Q.4 (b), S2024) (Q.4 (a), W2023) (Q.2 (b), S2023) (Q.2 (c), W2022) (Q.4 (b), W2021)

Kruskal's and Prim's algorithm

(Q.3 (c), S2024) (Q.4 (c), W2023) (Q.4 (c), S2023) (Q.3 (c), W2022) (Q.5 (a), W2021) (Q.4 (c), S2021)

Breadth First Search, Depth First Search

(Q.3 (b), S2024) (Q.4 (c), W2023) (Q.4 (c), W2022) (Q.4 (b), W2021) (Q.4 (b), S2021) (Q.6 (b), W2020) (Q.3 (c), S2020)

Hashing

(Q.2 (b), S2024) (Q.5 (c), S2024) (Q.5 (a), W2023) (Q.3 (b), S2023) (Q.5 (c), S2023) (Q.5 (a), W2022) (Q.7 (b), W2020)

Collision Resolution

(Q.5 (c), W2023) (Q.5 (c), S2023) (Q.3 (c), S2023) (Q.5 (c), W2022) (Q.5 (b), S2021) (Q.4 (c), S2020)

Definition of fields, records, and files

(Q.5 (a), S2024) (Q.4 (a), S2023) (Q.5 (c), W2022) (Q.5 (a), W2021)

File Organization

(Q.5 (a), S2024) (Q.5 (b), W2023) (Q.5 (a), W2021) (Q.7 (c), W2020) (Q.4 (b), W2020)

Bubble Sort

(Q.5 (b), S2024) (Q.5 (B), W2023) (Q.3 (A), W2022) (Q.2 (C), W2020) (Q.5 (A), W2019)

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Quick Sort

(Q.5 (C), W2023) (Q.5 (B), W2022) (Q.5 (C), W2021) (Q.5 (B), S2020)

Merge Sort

(Q.1 (b), S2024) (Q.5 (B), W2022) (Q.2 (B), W2020) (Q.5 (B), W2019)

Differentiate Sequential Search and Binary Search

(Q.5 (B), W2023) (Q.5 (B), W2021) (Q.5 (B), S2020)

Binary Search

(Q.5 (B), W2023) (Q.5 (B), S2023) (Q.3 (A), S2023) (Q.2 (B), W2022) (Q.5 (B), W2021) (Q.1 (B), S2021)
(Q.2 (A), W2020) (Q.5 (B), S2020)