

Data Structure Interview Questions for Experienced Pdf

Question: 1

What is a strictly triangular array?

It is an upper triangular array or a lower triangular array in which the elements on the diagonal all have value zero.

Question: 2

What is an inverted file organization?

It is a multi-key file organization technique that uses inversion indices.

Question: 3

What is an adjacency list?

It is an array of pointers to linked lists, one for each vertex of the graph.

For each vertex, its linked list contains all the vertices that are adjacent to it.

The vertices in the linked list are stored in an arbitrary order.

Question: 4

What is a critical path?

It is the longest path in the activity graph.

Question: 5

What is a simple exchange sort?

It is one of the families of exchange sorts where pairs of key values of adjacent records (items) are compared and exchanged if they are not in proper relative positions.

Question: 6

What is a left thread in a threaded tree?

It is a pointer from a node in a binary tree to its predecessor node in the in-order traversal.

Question: 7

What is a loop, in the context of graphs?

It is an edge that connects a node to itself.

Question: 8

What is a synonym chaining?

It is an approach to collision resolution in which access to synonyms is facilitated by maintaining a linked list of the records in equivalence class.

Question: 9

What is a cellular multi-list file?

It is a multi-list file in which no linked list crosses a boundary between physical cell areas.

Question: 10

What is a controlled-length multi-list file?

It is a multi-list file in which no linked list exceeds a specified length.