

UNIT-1 DATA STRUCTURES

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AP/CSE/SRMIST

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Across:

- 1
- \_\_\_\_\_ is a well defined list of steps for solving a particular problem.
- 4
- \_\_\_\_\_ is the total amount of memory space used by an algorithm/program including the space of input values for execution.
- 5
- \_\_\_\_\_ can be defined as the collection of various data items.
- 6
- \_\_\_\_\_ Search is useful when there are large number of elements in an array
- 8
- \_\_\_\_\_ data structures are the fundamental data types which are supported by a programming language.
- 10
- What is the running time of an insertion sort algorithm if the input is pre-sorted?
- 12
- \_\_\_\_\_ are mathematical tools to represent the time complexity of algorithms for asymptotic analysis.
- 13
- Operation used for Visiting each record so that items in the records can be accessed.
- 14
- \_\_\_\_\_ is defined as the total number of times each statement is executed.
- 15
- The sorting algorithm is comparison-based algorithm in which each pair of adjacent elements is compared and the elements are swapped if they are not in order
- 18
- \_\_\_\_\_ sort uses only the primary memory during sorting process.
- 20
- \_\_\_\_\_ notation is used to describe the best case running time of algorithms and concerned with large values of n.
- 21
- All external sorts are based on process of \_\_\_\_\_
- 22
- Record is classified according to \_\_\_\_\_.

Down:

- 1
- \_\_\_\_\_ is a type for objects whose behavior is defined by a set of value and a set of operations.
- 2
- Linear data structures can be represented in memory in \_\_\_\_\_ ways.
- 3
- \_\_\_\_\_ search does not demand a structured list.
- 7
- Merge sort uses which of the following technique to implement sorting?
- 9
- Asymptotic analysis is \_\_\_\_\_ bound
- 10
- What is the worst case complexity of bubble sort?
- 11
- \_\_\_\_\_ is a single elementary unit of information representing the attribute of an entity.
- 16
- \_\_\_\_\_ refers to a single unit of values.
- 17
- \_\_\_\_\_ is a collection of various records of one type of entity
- 19
- \_\_\_\_\_ is a process through which the data is arranged in ascending or descending order.
- 23
- Insertion sort consists of \_\_\_\_\_ passes, where N is the number of elements to be sorted.