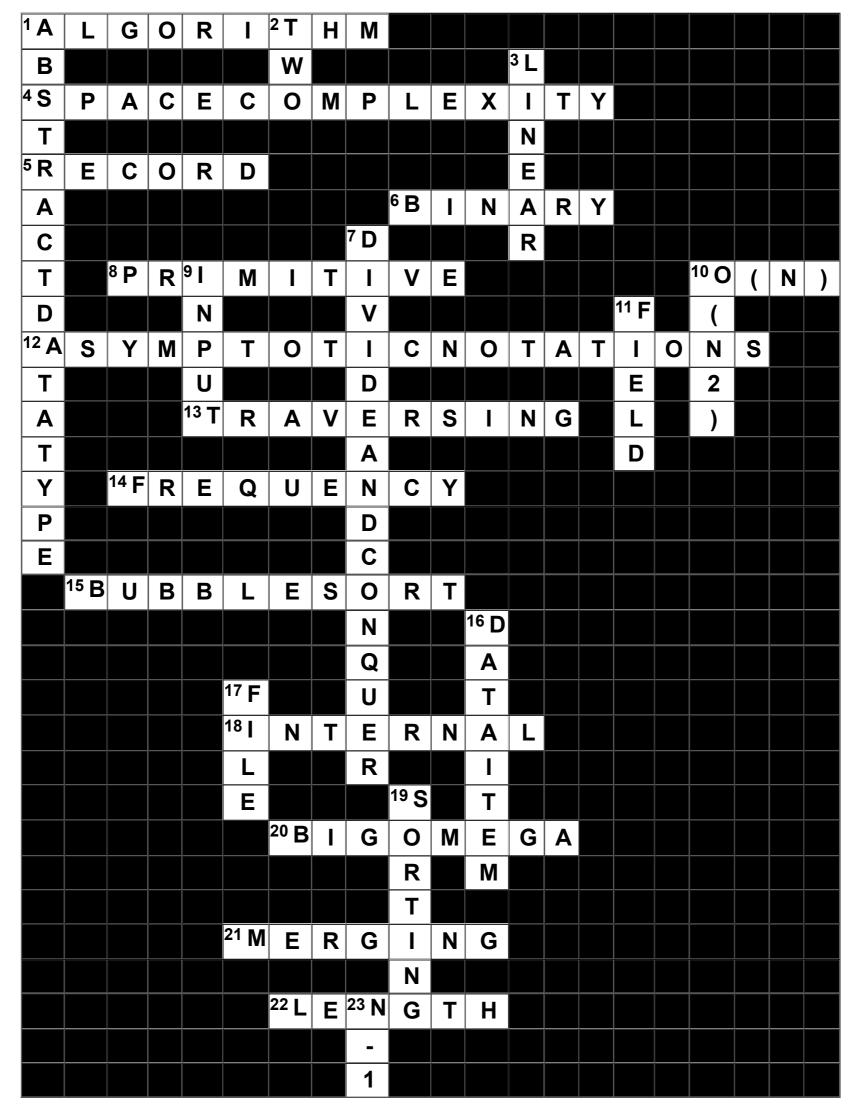
UNIT-1 DATA STRUCTURES

Prepared by Dr. D.SHINY IRENE AP/CSE/SRMIST



1 is a well defined list of steps for solving a particular problem. is the total amount of memory space used by an algorithm/program including the space of input 4 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. The sorting algorithm is comparison-based algorithm in which each pair of adjacent elements is compared and the 15

_notation is used to describe the best case running time of algorithms and concerned with large values of n.

Across:

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elements are swapped if they are not in order

All external sorts are based on process of _

Record is classified according to _____.

sort uses only the primary memory during sorting process.

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 isbound
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.