



# ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution



## WORKSHEET – 44(ANSWER KEY)

### Topic : Introduction to Data Structures

Subject: COMPUTER SCIENCE

Class - 12

F.M:15

Chapter: Programming in C: Data Structures

Date: 28/11/2020

### Choose the correct answer for each question:

**15x1=15**

- Which of the following is not a primary data type in C?
  - char
  - int
  - struct student**
  - double
- To efficiently organize, store and process complex data, a computer system uses special types of data storing mechanisms called:
  - Database
  - Data containers
  - Data formats
  - Data structures**
- Which of the following is an in-built data structure in C?
  - Array**
  - Queue
  - Linked List
  - Stack
- There exist in C two inbuilt data structures – one is an array, the other is a :
  - structure**
  - Linked list
  - Stack
  - Queue
- In a data structure, if every data element points to a single data element in a linear manner, then it is called a:
  - Collinear data structure
  - Normal data structure
  - Linear data structure**
  - User-defined data structure
- Which of the following is not an example of linear data structure?
  - Array
  - Graph**
  - Stack
  - Linked List
- In programming, the term ADT stands for:
  - Alternate data type
  - Automatic data type
  - Asymmetric data type
  - Abstract data type**

8. A stack uses a \_\_\_\_\_ access mechanisms.
- Last in last out
  - First in First out
  - Last in First out**
  - All of these
9. Two basic operations on a stack are generally called:
- add and delete
  - input and output
  - store and delete
  - push and pop**
10. What type of a data structure best represents a pile of books on the table?
- Array
  - Stack**
  - Linked List
  - Queue
11. A queue uses a \_\_\_\_\_ access mechanisms.
- Last in last out
  - First in First out
  - Last in First out**
  - None of these
12. Two basic operations done on a queue are generally called:
- Save and delete
  - Input and output
  - Push and pop
  - Store and retrieve**
13. When a member of a structure type data is a pointer of the same data type as the structure being defined, then such a structure is called a \_\_\_\_\_.
- Self-referential structure**
  - Self-defining structure
  - Self-pointing structure
  - self-indicating structure
14. The two parts of a node in a linked list consists of:
- a name part and a data part
  - an array part and a link part
  - a data part and a link part**
  - an integer part and a data part
15. A linked list where a single link field in each node is used to store the address of the next node of the list, is generally called a \_\_\_\_\_.
- Uni linked list
  - Uniform linked list
  - Singly linked list**
  - One link list

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