

Topic 10: Data Types and Structures

Keyword sheet - Cambridge AS & A Level Computer Science 9618. Tick each term once you can define it from memory.

Keyword	Definition	Know it?
Primitive data types	INTEGER, REAL, CHAR, STRING, BOOLEAN, DATE.	
Array	Fixed-size indexed collection of elements of one type; 1D or 2D.	
Record	Composite structure holding fields of different data types.	
Text file	File of human-readable characters accessed sequentially.	
Abstract data type (ADT)	Data structure defined by its values and operations, independent of implementation.	
Stack	LIFO structure with push and pop operations, plus a stack pointer; used in function calls and undo.	
Queue	FIFO structure with enqueue and dequeue, head and tail pointers.	
Linked list	Nodes containing data and pointers to the next node; easy insertion and deletion, no random access.	
Pointer / null pointer	Value holding a memory address / pointer that refers to nothing.	
Binary tree	Hierarchical structure where each node has at most two children.	
Constant / variable	Named location with fixed value / named location whose value may change.	