

10 Data Types and Structures – Part 1

—Answers

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10.1 Any two: integer, real, char, string, Boolean.

10.2 20.

10.3 The stack (last-in, first-out).

10.4 An array holds many values of the *same* type reached by an index; a record groups a few fields of *different* types under one name. (Any clear difference.)

10.5 It keeps the data after the program ends (stored on secondary storage), whereas a variable's value is lost.

10.6 Undo must reverse the *most recent* action first. A stack is last-in, first-out, so the action added last is the one taken off first —exactly the order undo needs.

10.7 C is popped first, then B (last-in, first-out). A remains on the stack.