

Quiz 4 Tuple

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1. Which characteristics best describe a *tuple*?
 - a) It is a special class that models a bounded set of heterogeneous elements.
 - b) It is an ordered list of elements.
 - c) It can be defined inductively using the construction of an ordered pair.
 - d) In the relational database model, tuple elements are modelled as *attributes*.

2. What are the top two advantages of using tuples in code?
 - a) As return types of functions.
 - b) As input arguments to functions.
 - c) To align data on word boundaries.
 - d) To avoid copying data.

3. In which of the following situations would we use tuples instead of structs?
 - a) When we wish to create lists of logically-related data in client code.
 - b) When we are not concerned with nested data structures.
 - c) When the tuple data is just a repository.
 - d) A tuple is similar to a class but with no member functions.

4. Which of the following can be used in order to construct tuples?
 - a) `std::make_tuple`.
 - b) Initializer lists.
 - c) Tuple concatenation.
 - d) Using `std::tie` to create a tuple of *lvalue* references.

5. Which of the following features are supported by C++ tuples?
 - a) Associating C++ variables with a tuple's elements.
 - b) The ability to forward elements of a tuple to a function having tuple arguments.
 - c) Concatenating tuples.
 - d) Tuples some of whose elements can be universal function wrappers.