Results



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Your Answers:

1 1/1 point

What is the purpose of an abstract data type (ADT)?

- To implement a virtual function that can be overridden by a subclass.
- To encapsulate a data structure and its associated operations
- To create a hierarchy of derived classes that share a common base class.
- To define a class with private data members and public member functions.

2 1/1 point

Which of the following are examples of ADTs available from the C++ libraries?

- int
- ✓ ✓ priority_queue
- ✓ ✓ vector
- ✓ ✓ string

3 1/1 point
Which of the following is an example of information hiding in an ADT?
A constant data member in a class.
✓ A private data member in a class.
A static data member in a class.
A public data member in a class.
4 1/1 point
What is an advantage of using an ADT in C++?
It makes the code more efficient.
✓ ✓ It makes the code more maintainable.
✓ ✓ It makes the code easier to debug.
It reduces the memory needed.
5 1/1 point
Which of the following parts of a class should be declared as private to achieve information hiding for an ADT in C++?
None of the data members nor member functions should be private. They should be public so they can be accessed.
Functions that are not part of the interface (helper functions)
All class members.
✓ ✓ All data members.
All member functions.
6 1/1 point
Every data member should always have a public getter and setter function.
○ True

