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## Review answers



Complete date: A moment ago

Question 1: When writing a template class, were should you use the class name with the template type (*MyClass<T>*)?

- ☒ In the name of the constructor and destructor.
- ☒ In the source file of a template class before the scope operator.
- ☒ When the template class is used as input argument.
- ☐ When the template class is used as output argument.

Question 2: What is the output of the following program?

C++:

```
1  class EA {};
2  class EB: public EA {};
3
4  void F()
5  {
6      throw EB();
7  }
8
9  int main()
10 {
11     try
12     {
13         F();
14     }
15     catch(EA&)
16     {
```

- ☒ EA Exception Finished
- ☐ EB Exception Finished
- ☐ This program does not compile.
- ☐ EA Exception EB Exception Finished

- Question 3: Which statement is false about generic programming?
- ☐ With generic programming, a generic data type is used in the code which at compile-time will be replaced by a specific type that is provided by the user of the generic code.
  - ☐ Generic programming can be used as an alternative to polymorphic functions.
  - ☒ You can't use generic programming and object-oriented programming at the same time.
  - ☐ Generic programming enables us to create type-safe data structures for a certain type without creating a new class for each type.
- 
- Question 4: Which statement is false about composition and exceptions?
- ☐ When using composition, it is preferred that the parent object catches the exceptions thrown in the composite object and converts it to another exception object.
  - ☐ When using composition, unhandled exceptions thrown in the composite object make that the client must know of the composite object.
  - ☐ When using composition, the exceptions thrown in the composite object can be re-thrown with extra information.
  - ☒ When using composition, it is preferred that the parent object does not catch the exceptions thrown in the composite object.
- 
- Question 5: Which statement is false about template classes?
- ☐ The template types are part of the class name.
  - ☐ A template class is a description of a regular class.
  - ☒ If a template class is defined as *template <typename T> class MyClass* and variables *a* and *b* are declared as *MyClass<int> a;* *MyClass<double> b;*, then variables *a* and *b* are of the same type.
  - ☐ A class is an instance of a template class analog to that an object is an instance of a class.
- 
- Question 6: Which statement is false about iterators?
- ☐ In a loop that traverses a data structure, you cannot compare the current iterator with the end iterator using the `<` operator
  - ☒ A `std::list<T>` supports a random access iterator.
  - ☐ Iterators are a nested type of the data structure they iterate.
  - ☐ Iterators are used to traverse data structures in a data structure independent way.

Question 7: Which statement is false about exceptions?

- ☐ One *try* block can have many *catch* blocks.
- ☒ If a *try* block does not have any *catch* block, the exception will be passed to an outer *try* block or the system.
- ☐ If a *try* block does not have a matching catch block for the thrown exception, the exception will be passed to an outer *try* block or the system.
- ☐ Every type can be thrown. Not only primitive types but also your own class types.

Question 8: What statement is true about catch handlers?

- ☒ A catch handler that catches all possible exceptions should catch "...": `catch (...) {}`
- ☐ A catch handler that catches all possible exceptions should use the default keyword: `catch default {}`
- ☐ A catch handler that catches all possible exceptions is not possible in C++.
- ☐ A catch handler that catches all possible exceptions should catch the Exception base class: `catch (Exception& ex) {}`

Question 9: Which statement is false about STL?

- ☒ The STL library provides no functionality for networking.
- ☐ The STL library should be installed separately before you can use it.
- ☐ STL is a C++ library that uses templates for its implementation.
- ☐ The STL library provides among others various data structures, iterators, algorithms and allocators.

Question 10: Which statement is false about sub-type polymorphism and parametric polymorphism?

- ☒ Parametric polymorphism does not work when the classes are not derived from a common base class.
- ☐ Parametric polymorphism is faster than inheritance polymorphism.
- ☐ Sub-type polymorphism is done at run-time while parametric polymorphism is done at compile-time.
- ☐ Sub-type polymorphism depends on virtual functions.

Score: 8 (80.00%)

Pass/Fail:

Passed

Quiz >

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