

Learning to Program with Haiku

Unit 3 Review

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Lesson 10

1. What do default values for function parameters enable you to do?
2. What advantages do references have over pointers?
3. How is a reference declared?
4. What is the difference between passing a parameter by value and passing one by reference?
5. Which of these declares a function pointer:
 - a. `void (*myFunction)(int someInteger);`
 - b. `void *myFunction(int someInteger);`
 - c. `(void *)myFunction(int someInteger);`

Lesson 11

1. What is an enumerated type?
2. What is the advantage of specifying a value for one or more elements in an enumerated type?
3. How is a variable inside a struct accessed?
4. What is the difference between the dot operator and the arrow operator?

Lesson 12

1. What is object-oriented programming (OOP)?
2. What is a class?
3. What is a method?
4. What is a property?
5. What is a class' constructor for? Its destructor?
6. What are the C++ counterparts to C's `malloc()` and `free()`?
7. Why shouldn't `malloc()` and `free()` be used to allocate and free class objects?
8. What is the difference between a method with public access and one with private access?
9. How are arrays allocated with new properly freed?
10. What is data abstraction?

Lesson 13

1. What is inheritance?
2. What is the difference between protected access and private access?
3. What is a virtual function?
4. What is a static function?
5. What is function overloading?
6. With respect to access the parent class' methods, what are the implications of a child class using protected inheritance?