**AP® Computer Science (A)**

**Exercises 13.07-13**

**Date: 2/9/17**

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**Period: F**

01. In the HighSchool case study how is the abstract class used?

Used as CommonHighSchool, implements common attributes

02. How does a concrete class implement an interface?

implements

03. How does a concrete class implement an abstract class?

*extends*

04. How does an abstract class handle the abstract methods that are not implemented?

Doesn’t matter

05. Is an adapter class declared with an interface, abstract class or concrete class?

Abstract class

06. What is the purpose of an adapter class?

Empty method bodies for interfaces

07. Can a constructor be placed and called in an abstract class?

Yes

08. Can an abstract class be instantiated?

No

09. Consider the following declaration? ***ArrayList names = new ArrayList();***

Does that declaration use generics?

Yes

10. Consider the following declaration? ***ArrayList<String> names = new ArrayList<String>();***

Does that declaration use generics?

No

11. Consider the following declaration? ***ArrayList<E> names = new ArrayList<E>();***

Does that declaration use generics?

Yes

12. What data types can be stored in the declaration of question 09?

Anything

13. What data types can be stored in the declaration of question 10?

Just Strings

14. Consider the following class heading: **public class Inventory<E>**

Is this the heading of a generic class?

Yes

15. Continuing with question 14.

What data types can be stored in the Inventory class?

Anything

16. Consider the following class heading: **public class Inventory<Qwerty>**

Is this the heading of a generic class?

No

17. Continuing with question 16.

What data types can be stored in the Inventory class?

Just Qwertys

18. What is the meaning of generics outside Java programming?

Basic, common (like medicine)

19. Is a subinterface totally abstract, partially abstract or totally concrete?

Totally concrete

20. What is the heading of a subinterface to indicate its relation to an interface?

<E>