

9. The `main` method and command-line arguments are not included in the subset. In free-response questions, students are not expected to invoke programs. In the *AP Computer Science Labs*, program invocation with `main` may occur, but the `main` method will be kept very simple.
10. Students are required to understand when the use of `static` methods is appropriate. In the exam, `static` methods are always invoked through a class (explicitly or implicitly), never an object (i.e., `ClassName.staticMethod()` or `staticMethod()`, not `obj.staticMethod()`).
11. If a subclass constructor does not explicitly invoke a superclass constructor, the Java compiler automatically inserts a call to the no-argument constructor of the superclass.
12. Students are expected to implement constructors that initialize all instance variables. Class constants are initialized with an initializer:

```
public static final int MAX_SCORE = 5;
```

The rules for default initialization (with `0`, `false` or `null`) are not included in the subset. Initializing instance variables with an initializer is not included in the subset. Initialization blocks are not included in the subset.
13. Students are expected to write interfaces or class declarations when given a general description of the interface or class.
14. Students are expected to extend classes and implement interfaces. Students are also expected to have knowledge of inheritance that includes understanding the concepts of method overriding and polymorphism. Students are expected to implement their own subclasses.

Students are expected to read the definition of an abstract class and understand that the abstract methods need to be implemented in a subclass. Students are similarly expected to read the definition of an interface and understand that the abstract methods need to be implemented in an implementing class.
15. Students are expected to understand that conversion from a subclass reference to a superclass reference is legal and does not require a cast. Class casts (generally from `Object` to another class) are not included in the AP Java subset. Array type compatibility and casts between array types are not included in the subset.
16. The use of `this` is restricted to passing the implicit parameter in its entirety to another method (e.g., `obj.method(this)`) and to descriptions such as “the implicit parameter `this`”. Students are not required to know the idiom `"this.var = var"`, where `var` is both the name of an instance variable and a parameter variable.
17. The use of generic collection classes and interfaces is in the AP Java subset, but students need not implement generic classes or methods.
18. Students are expected to know a subset of the constants and methods of the listed Standard Java Library classes and interfaces. Those constants and methods are enumerated in the Java Quick Reference (Appendix B).