1. In C++, when you throw an exception, why should you write:

throw FooException();

rather than:

throw new FooException();

* Because in C++ you typically throw stack allocated objects.

1. For each of the following Java code snippets, explain what is wrong with the snippet and how you would fix it.
   1. RecognitionError is the superclass for InvalidTokenError and MismatchedOperatorError. Since its catch statement comes before the subclasses’, the subclass catch statements will never execute. To fix this, I would move the RecognitionError catch statement below the other two.
   2. Maybe no try catch statement??
2. What is the output printed by the following Java code (I know you can code up this example and run it, but will you be able to do that on an exam?):

* Negative number at index 3
* sum = 70
* Negative number is -20
* sum = 0