

CSCI 305 Participation Event 5

Due Date: April 4, 2018 @ End of Class

Group Members: _____

The behavior of the `try` statement in Java can be rather complicated, since the `try` block, the `catch` block, and the `finally` block can all finish their execution in different ways. For each of the following scenarios, what happens? Write simple test programs in Java to demonstrate the answers to the following questions about the behavior of `finally`. Include your program, its output, and your conclusions for each part.

1. The `try` block completes normally, and the `finally` block completes normally.
2. The `try` block stops by throwing an exception that is not caught, and the `finally` block stops by throwing a *different* exception.

3. The `try` block stops by throwing an exception that is caught, the relevant `catch` block completes normally, and the `finally` block stops by throwing an exception.
4. The `try` block stops by throwing an exception that is caught, the relevant `catch` block stops by throwing a *different* exception, and the `finally` block stops by executing an explicit `return` statement.
5. The `try` block stops by throwing an exception that is caught, the relevant `catch` block stops by executing an explicit `return` statement, and the `finally` block stops by executing an explicit `return` statement, returning a *different* value.
6. The `try` block stops by executing an explicit `return` statement, and the `finally` block stops by throwing an exception.