

## CISC275 Exceptions

NOTE1: As you do this exercise, focus on **understanding** every piece of code you write. Copying code examples without understanding leads to ugly code and bad exam grades.

NOTE2: Today's exercise is disposable. Make everything public and do not write any methods you don't absolutely need.

1. Write in English a line about each that explains the difference between Java's Error, Exception, Throwable, and RuntimeException. (Do you understand what you wrote?)
2. Write a method `f1(x)` that throws a `XisFiveException`<sup>1</sup> if `x` is 5. Call `f1(5)` from `f2()`, and when the exception is thrown, have `f2` recover by calling `f1(x+1)`.
3. Briefly describe a more useful application of exception recovery than the one described in part 2.
4. Rewrite part 2 so that `f2()` still calls `f1(5)`, but no longer has a try-catch block, and reflects the exception to main where it is caught and printed.
5. see <https://docs.oracle.com/javase/tutorial/essential/exceptions/>

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<sup>1</sup>This is not a RuntimeException.