

Exam 1 Review

Exam 1 will cover 2D arrays (as used in our Tetris homework assignment), inheritance, recursion, exceptions, and file IO.

Inheritance:

- Review class materials (weeks 1, 2 and 3 of the calendar)
- Practicelt keyword: inheritance mysteries
- Overriding toString and equals from the Object class
- Deep copy versus shallow copy

Recursion:

- Review class materials (week 4 of the calendar)
- Practicelt keywords: recursion tracing, recursive programming

Exceptions:

- Review class materials (week 5 of the calendar)

2D-arrays:

- Review the coding of the checkRows method in your homework #1 assignment (week 2).
- There could be a similar question on the exam. For instance, you could be asked to write a method that returns true if the grid has at least one full column.

File IO:

- Review class materials (see week 5 of the class calendar)
- Scanner, InputStream, OutputStream, Reader, Writer and their derived classes.
- Review how to write a program that reads from a file and/or writes to a file.
- Practicelt keywords: file input, file output, file processing. Many of Practicelt examples use a Scanner, but be ready to write similar code with InputStream or Reader.