### 6.092: Assignment 7: Magic Squares!

A magic square of order $n$ is an arrangement of $n \times n$ numbers, usually distinct integers, in a square, such that the $n$ numbers in all rows, all columns, and both diagonals sum to the same constant (see Wikipedia: Magic Square).


Figure by MIT OpenCourseWare.

## Checking the row values

We give you two text files: Mercury.txt and Luna.txt
For each file: open the file, and check that all rows indeed sum to the same constant.

## Hints

Copy both text files to the root directory of your project. This is the directory that contains the src folder. Alternative: Use absolute paths to the files (c: \somedir\Mercury.txt on Windows or /Users/myuser/Mercury.txt on Mac)

You will need to handle or rethrow IOException

Read the files line by line as explained during the lecture today.
Use . . . = myLine.split("\t"); to break apart each line at the tab character, producing an array of String (String[]), each containing one value. Consult the Java API reference for String.split).

Finally, use ... = Integer.value0f(substring); to transform each string value into an integer value.

## Optional Part: Column / Diagonal Values

Optionally, try to check that the columns and the diagonal also sum to the same constant. This is slightly trickier!

## Submission Instructions

Submit your MagicSquares.java file via Stellar.

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