CS 136L Lecture 4

Testing and Debugging

Differences

Write a testing suite for the function `differences` which consumes three integers and determines if one of the integers is the difference between the other two

Largest Odd Value

Write a comprehensive testing suite for a bash program
largest_odd that consumes 3 integers **as command line
arguments** and prints the largest odd integer in the format:

        The largest odd integer is [result]

When all three integers are even it prints:

                All integers are even

When the number of command line arguments is not 3, it prints:

        Usage: ./largest_odd [int] [int] [int]

You can assume that the user always inputs integers (as opposed
to, say, letters or special characters).

In Interval

The function `in_interval(start, end, val)` consumes **two natural numbers** (greater than or equal to 0) `start` and `end` representing a closed interval on the non-negative x-axis (so necessarily `start <= end`), and a natural number `val`. The function determines whether or not `val` is in the closed interval. That is, 1 is returned if `val` is between the endpoints of the interval or at the endpoints of the interval. Otherwise, 0 is returned. Write a comprehensive testing suite for this function.