ENGINEER 1D04

Engineering Computation

McMaster University, Winter 2010

Lab 5 Marked Assignment 2 Solution
Wednesday Lab

Revised: 5 February 2010

Correctness

Input	Output
2	2
35	5
121	11

Design Question

Since every natural number n is divisible by itself, there is no need to check the n-th case. The loop can be executed from 2 to $n - 1$ and, if no divisor of n is found, the LND method returns n.

Testing Question

The largest positive member of the int type would be a good input value for testing time efficiency because then the loop would be executed the maximum number of times.