

CS 350
Fall 2014
Laboratory Assignment 1
Brute Force Matrix Multiply
Professor York
10/01/2014

Problem Statement:

Write a C program that computes the product of two square matrices of size $n \times n$. The elements in the matrices are positive integers. The size (n) is an integer appearing on the first line of the data file. It is followed by a blank line, which is followed by n rows of n integers for the first matrix; then a blank line, followed by n rows of n integers for the second matrix.

Your program should read the input data from the file named “data4.txt”, compute the matrix product and print the resulting matrix to a file named, “matrix.out”, which should consist of n rows of n integers.

Complete the following items at the head of your source file and email to the TA (yorkta@pdx.edu).

CS350 Laboratory 1

Student Name:

Student ID:

Date:

Program Name:

Algorithm Name:

Algorithm Family:

Worst Case Running Time Analysis:

Possible Application Area: