Fundamentals of Computer Programming
Lab 4 - Functions II, Arrays, and structures

Spring 2019

Solve the following problems from text book:
"Y. Daniel Liang, Introduction to Programming with C++, Pearson Educational Limited 2014."

Chapter 6 "Functions" – Problems:

6.11 Display ASCII values

6.13 Estimate pi

6.31 Multiply by a constant value

6.32 Algebra: solve quadratic equations

6.44 Occurrences of a specified character

6.46 Swap case

Chapter 7 "Single Dimensional Arrays and C-Strings" – Problems:

7.1 Assign Grades

7.8 Product of an array (passing array to a function)

7.27 Sorted? ***bool isSorted(const int list[], int size);***

7.30 Replace: space with underscore

7.31 Common elements

7.23 Identical arrays: ***bool isEqual(const int list1[], const int list2[], int size)***

7.24 Pattern recognition: consecutive four equal numbers
bool isConsecutiveFour(const int values[], int size)

7.26 Merge two sorted
void merge(const int list1[], int size1, const int list2[], int size2, int list3[])

7.28 Partition of a list
int partition(int list[], int size)

Solve the following problems from text book:
" Tony Gaddis, starting out with c++ from control structures to objects 8th edition, Pearson Educational Limited 2015"

Chapter 11 "Structured Data" – Problems:

11.1 Movie Data

11.4 Weather Statistics

11.5 Weather Statistics Modification