Master of Technology Orientation Programme 2018

Large-Scale Programming Exercise

Design an application to do performance analysis of a set of algorithms. Use the concepts of "Large-Scale Programming" discussed in class.

Following table gives you guidance on organizing your multi-file programming project. The given structure is specific to C programming but the principles are applicable for all large-scale software.

S. No.	File Name	Description
1.	datadef.h	• Contains macros • Contains struct definitions
2.	myalgos.h	• Contains function prototypes of all the algorithms being implemented.
3.	myalgos.c	• Contains all global variable definitions • Contains the function implementations of all algorithms declared in myalgos.h
4.	myutils.h	• Contains load generators • Contains function prototypes general purpose utilities (like printing the contents of a data structure, etc.)
5.	myutils.c	• Contains function implementations of all functions declared in myutils.h
6.	perftest.c	• Contains the main program that calls different functions from myutils and myalgos to comprehensively test which algorithm gives what performance for different types of workload.
7.	Perftest.mk	Makefile for this project
8.	perftest	The final executable generated by makefile