PROLOGUE

FOR ALL ASSIGNMENTS

- Attach a *prologue* for all assignments.
- Use sample *prologue* sheet in the course material, customize it for every assignment.
- *Prologue* makes it easy to separate assignments for grading purpose.

EXERCISE 9

AFTER CHAPTER – 21

PROBLEM

Implement a queue data structure using an array. Read the choice and data input from a file. Perform Enque or Deque operations depending on the choice of the input preceding the data element. Print what is being inserted and what data is removed from the queue. When the choice is to perform Enque, you will read the choice and data. But when the choice is to perform Deque, there is no data to be read.

Enque choice: E, Deque choice: D

Input:

Choice: E E E E E D D D E E D

Data: 25 37 45 52 98 36 12

Choice: D E

Data: 69

You need to use array of structures for the implementation. Read until the end of the file.

DELIVERABLES

Write the prolog and fill up all information for this exercise as given in the sample. Submit the source code, input and the output. The program is expected to be well commented. Place your program as soft copy on assigned shared drive for students of this course.

DUE DATES

Assignments are due on the following week after completing the chapter discussion.