

Program #2 Grading Criteria - 100 pts total

Feel free to award partial credit in each category based on “how well” the program satisfies the criteria presented.

General Code Points (14 pts)

Compiles In Eustis – 2 pts

Standard Input/Standard Output – 2 pts

Has customer struct – 2 pts (can be named anything)

Has node struct – 2 pts (can be named anything)

Has queue struct – 2 pts (can be named anything)

Creates an array of size 12 (of either queue pointers or queue) in main – 2 pts

Attempts to read in all input – 2 pts

Dynamic Memory Management (8 pts)

Dynamically allocates memory for a single LL node – 2 pts

Dynamically allocates memory for a single customer node – 2 pts

Frees memory for LL node (probably in dequeue) – 2 pts

Frees memory for customer node (probably elsewhere) – 2 pts

Function Layout (16 pts)

Required functions: enqueue – 2 pts

dequeue – 2 pts

peek – 2 pts

empty – 2 pts

size – 2 pts

Other functions – 6 pts total, decide partial as you see fit based on how logical you feel the design is.

Style Points (12 pts)

Header comment w/name, program, date – 2 pts

Appropriate variable names – 2 pts

Has a constants (#define or const) included in write up – 2 pts

Appropriate white space and indenting – 2 pts

Internal comments in code – 4 pts

Execution Points (50 pts)

5 pts per test case (**Time Limit 2 seconds per case**)

Give partial on a case if some of the answers are correct. Do partial proportionally but only give full credit if all cases are correct.