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Assignment No:- 8

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#include <iostream>

#include <queue>

#include <string>

using namespace std;

// Function to display the queue

void displayQueue(queue<string> q) {

if (q.empty()) {

cout << "No customers in the queue." << endl;

return;

}

cout << "Customers in the queue: ";

while (!q.empty()) {

cout << q.front() << " ";

q.pop();

}

cout << endl;

}

int main() {

queue<string> window1, window2; // Queues for Window1 and Window2

string customerName;

int choice;

while (true) {

cout << "\nMenu: \n";

cout << "1. Add Customer to Window 1 (6pm show)\n";

cout << "2. Add Customer to Window 2 (7pm show)\n";

cout << "3. Serve Customer at Window 1\n";

cout << "4. Serve Customer at Window 2\n";

cout << "5. Display Queue for Window 1\n";

cout << "6. Display Queue for Window 2\n";

cout << "7. Exit\n";

cout << "Enter your choice: ";

cin >> choice;

switch (choice) {

case 1:

cout << "Enter customer name for Window 1 (6pm show): ";

cin >> customerName;

window1.push(customerName);

cout << "Customer " << customerName << " added to Window 1 queue."

<< endl;

break;

case 2:

cout << "Enter customer name for Window 2 (7pm show): ";

cin >> customerName;

window2.push(customerName);

cout << "Customer " << customerName << " added to Window 2 queue."

<< endl;

break;

case 3:

if (!window1.empty()) {

cout << "Serving customer " << window1.front() << " at Window 1

(6pm show)." << endl;

window1.pop();

} else {

cout << "No customers in the queue for Window 1." << endl;

}

break;

case 4:

if (!window2.empty()) {

cout << "Serving customer " << window2.front() << " at Window 2

(7pm show)." << endl;

window2.pop();

} else {

cout << "No customers in the queue for Window 2." << endl;

}

break;

case 5:

cout << "Queue for Window 1 (6pm show): ";

displayQueue(window1);

break;

case 6:

cout << "Queue for Window 2 (7pm show): ";

displayQueue(window2);

break;

case 7:

cout << "Exiting program." << endl;

return 0;

default:

cout << "Invalid choice. Please try again." << endl;

}

}

return 0;

}