

BCIS 3630
Object-Oriented Programming for Business
Problem 3: Introduction to Logical Processes

This (and subsequent) problem requires a single solution. Use your solution to Problem #2 as the startup for your solution to this problem. (It is always a good idea of keep a backup copy of your original work.) The solution should be based on your existing Pane application.

Your current version of this application only permits a lodger (customer renting one of the lodging facilities within Yellowstone) to designate a stay at only one location while visiting the park. It is conceivable that a park visitor might choose to stay in more than one location while visiting. Thus, you should extend your solution to permit the “lodging specific” data entries (which lodge, arrival date, duration of stay and rental per night) to be repeated until the lodger indicates they are finished with their selections.

For each lodger session, you should also add one additional data entry—number of occupants. This information is only needed for each lodger (not each stay). The per-night rental is based on no more than two occupants. If more than two occupants stay in a unit, the charge is \$10 per person per night.

For purposes of this application, you should delay producing output about a lodger’s reservations until all stays have been completed. In addition to the output produced for Problem 2, you should add the number of occupants, rental cost of additional occupants (per night), and total rental cost per night (rental per night plus additional for extra occupants). All of this output should be placed on a single line. Then, after each set of reservations for the lodger, the number of reservations, total number of nights, and total cost for all reservations should be produced.

The final set of alterations to your Problem 2 solution should include a provision for accepting reservations from multiple lodgers. Consequently, once the reservations for one lodger have been completed, you should be prepared to repeat the entire process again for any number of subsequent lodgers. Before the application terminates, you should produce output that includes the total number of occupancy nights represented (total of all “duration” entries) and total rental income processed (total cost of all stays by all lodgers). Finally, you should produce a list of all of the lodger names.

You are to provide softcopy your code by placing both java and class files in the Problem 3 subdirectory of LabHome. Your grade on this assignment will be based on the material supplied at the due date. You will not be permitted to later add or substitute files you forgot. All files on this disk should only be related to this assignment and should be accessible from the root directory. You are also to supply hardcopy of your solution, as prescribed in the course syllabus.

Date Due: October 8th