

Hotel reservation system

1.1 Programs general features

When the program is started it generates number of hotel rooms in range of 40 to 300 and fills "bool huoneet[]" -table with the corresponding amount. At the same time the program generates 300 unique reservation numbers and stores them in "int varausNumeroTaulu[]" -table. Program also randomly generates 0, 10 or 20 percent discount in its own subprogram "double arvoAlennus()" every time a new reservation is made. The whole program is running inside a do-while loop and the user can choose what he wants to do with the program by giving it different number inputs. The main program and the subprograms all use input validation to prevent unwanted data from being stored in the system and to prevent crashes.

1.2 First input value (number 1)

When input value is number 1 the program creates a new customer in "struct Varaaja" table using subprogram "Varaaja luoAsiakas()". The subprogram "Varaaja luoAsiakas()" asks the user for his basic info and what kind of room does he wants to book and also the length of his stay.

1.3 Second input value (number 2)

When input value is number 2 the program prints out every customers info in the system. This is implemented by using a simple for loop inside the main program.

1.4 Third input value (number 3)

When input value is number 3 the program prints out every hotel room and whether if they are available or reserved. This is implemented in main function with a simple for loop that prints out the state of the room (0 = room is available and 1 = room is reserved). After every two rooms shown line break is printed for better readability.

1.5 Fourth input value (number 4)

When input value is number 4 the program allows the user to edit his own information already stored in the system. This is implemented with subprogram "Varaaja muokkaaAsiakas()". The subprogram uses the customers name as a parameter.

1.6 Fifth input value (number 5)

Input value number 5 is used to exit the program.

1.7 Link to the source code

<https://github.com/Erskari/hotelli/>