

Assignment

You are asked to write a program managing a homestay with rent rooms.
Each room has the following information:

- rID: the unique ID of room (3 characters)
 - UsableArea : the usable area of room (a positive number)
 - Furnished : that room is available to be rented with furnitures (yes/no)
 - NumOfPeople: the average number of people can stay in (positive number)
 - HaveBreakFast: you can have free breakfast if you stay (yes/no)
1. (1.5p) Initialization: start the homestay with zero room.
 2. (2.0p) Input a room with all details into the homestay. If the room's rID has existed in your list, the program should print out "Please check your rID!"
 3. (3.0p) Delete room: input a <rID>, print out all information of that room. Then, remove that room from your list. If that room could not be found, print out "Cannot find the room with <rID>"
 4. (2.0p) Search rooms: input information about NumOfPeople, HaveBreakfast. Print out all information of those rooms whose matched the inputted information.
 5. (1.5p) Remove all rooms whose NumOfPeople information is greater than a threshold k.

NOTES:

- Students must use **dynamic array**
- ~~- Accepted file name for submission: **StudentID_W08_ExpectedPoint.zip**~~
~~For example: **19121234_W08_08.zip**~~