In this project, I met a lot of problems. One thing I learned is that using object to create an array does not have initial values. I spent a lot of time on addProporty methods. Whatever I did, the jnit test just could not pass . I asked help from my roommate who is software developer. He called me that my code have logic problem. I should estimate if the property is full in the for loop. It should be outside of the for loop. The other thing I learned from this project is do not be afraid of asking help when you have any questions. For this project, my roomate helped me a lot.