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**Project Proposal**

I am currently interning at a land development and leasing company. One of my jobs is to go through a file which contains all the lease information for their tenants and reconcile it with the billing sheet in order to make sure the company is billing the correct amount. I want to create a program that will reconcile it for me and notify me of any errors.

I’m planning on converting the two files into text files so I can read them into my program. The first file has a first name, last name, rent per year, lease number and whether it is billed annually, quarterly or monthly. The other file just has the lease number and amount billed. I will create a class called “lease” for the first file and a second class called “billing”. I will then create a vector for each class and read the text files into the vector. I will then use the lease number to compare the vectors to each other. The program will then cout the name and lease number of any of the files whose billing amount does not match.

One of the problems I think I am going to have is with the billing sheet. Some of the leases on the billing sheet are per month or quarter and the lease sheet is all annually. I will need to total the amount based on the char variable that states whether it is billed annually, quarterly or monthly. I might have to create a whole different part of my program which figures all this out and compacts it into just the lease number and the total amount billed before reading it into the vector. Another challenge I might want to try is creating different error messages. This may include a message if a month was missed (if billed monthly) or a message that simply says the totals don’t match as well as others.