

LAB EXERCISE

Car Rental

Background:

When you rent a car from an agency, the key ring has several pieces of information: license plate, make and year of car, and usually a special code. This code could be used for some data processing within the company's computers. This lab will practice determining that special car rental code from the license plate.

Assignment:

1. The following sequence of steps will be used to convert a license plate into a car rental code.
 - a. A license plate consists of 3 letters followed by a 3 digit integer value.
 - b. Type in the license plate information as 3 characters followed by a single integer value. For example, CPR 607.
 - c. Add up the ASCII values of the 3 letters, $67 + 80 + 82 = 229$.
 - d. Add the sum of the letters to the single integer value. For example, $229 + 607 = 836$.
 - e. Take this sum (836) and determine the integer remainder after dividing by 26:
 $836 \% 26 = 4$.
 - f. Determine the 4th letter in the alphabet after the letter 'A': 4th letter after 'A' = E.
 - g. Combine the letter and the sum, the car id number for license plate
`CPR 607 = E836`.
2. You may assume that all sample data will be in the format of 3 alphabet characters, then a space, followed by a 3 digit integer.

Instructions:

1. Prompt the user for the make and model of the car. Use strings to create this part.
2. Prompt the user for the license plate.
3. Print the run output in this format.

```
Make = Chevrolet  
Model = Suburban  
CPR 607 = E836
```

4. Solve the following run outputs:

```
RJK 492  
SPT 309
```

The input values for the make and model strings are your choice.

5. Call instructor to your workstation for scoring.