Description: A parking garage has an automated system for checking parking permits prior to entry and exit. At the entrance gate the system checks that the scanned permit is a valid permit. At the exit gate the permit is scanned again. If a car tries to enter the garage without a valid permit the gate will not open. The system has to also protect against someone parking in the garage and then handing their permit to someone else to enter the garage while their car is still parked in the garage. Create a flowchart for this problem and then write corresponding pseudocode.

THE PROBLEM

![Flowchart Diagram]
Flags can be used to “remember” events that have occurred in the past (a logical condition) such as a transition from 1 to 0 or 0 to 1). Then the program can test the Flag anytime in the future to control program flow. Flags are usually be preset to some state and then changed later on as a result of some logical condition.