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Group 6 - Python Pseudo Code

- def requestKey(employeeClass employeeID, int roomNumber)
  - Create a request for the given employeeID and their wanted roomNumber.

- def issueKey(Key requestedKey, employeeClass employeeID):
  - If the key is requested
    - Check to see if the employee has any keys
      - If true, then for all current keys
        - check to see if the current key is the same as requestedKey
          - If the two keys are the same, do not issue the key
          - If they are not the same, issue requestedKey to employeeID
      - If false, issue requestedKey to employeeID

- def returnKey(Key issuedKey,employeeClass employeeID):
  - If issuedKey is off the hook and employeeID was issued the key:
    - Remove key from employeeID's custody
    - Give back the key to the hook
  - Else:
    - Cannot return key because the key may not have been issued the specific employeeID or the key was not off the hook.

- def unlockDoor(Hook hook, Key key, RoomNumber roomNumber, BuildingName buildingName, DoorType doorType):
  - If key or hook can unlock the roomNumber in the buildingName and the specific doorType:
    - Unlock Door
  - Else:
    - Cannot unlock door, the key and hook is invalid for the roomNumber, buildingName and doorType

- def checkDoorType(DoorType doorType):
  - If doorType is in the valid options for doorType:
    - Return doorType as valid
  - Else
    - Return doorType as unvalid