Start

ask name of hotel

Store in location

ask number of floors

yes

Is number of floors < 0 || > 5

ask how many rooms are there on the floor

yes

is number of rooms < 0 || >30

No

how many occupied single rooms

how many occupied double

How many occupied king rooms

how many occupied suite rooms

occupied = numberOfSingle +
numberOfDouble + numberOfKing
+ numberOfSuite;

is total number of occupied
rooms > number of rooms on
floor?

yes

Increase total amount of
single rooms, double rooms,
king rooms, suite rooms

Hold Current lowest
occupancy floor

Is currentFloor >
numberOfFloors

No

Output location and
current rates of
rooms

Calculate hotel income by
multiplying total number of each
room by its rate

display hotel income

Calculate total occupied by
adding the number of each
type of room

display total occupied

Calculate total unoccupied by
subtracting total occupied from
total number of rooms

Calculate occupancyRate as a percentage by dividing total
occupied rooms by the total number of rooms

display occupancy
rate

is
occupancyrate
<60

——YES→

display message
about lowest
occupancy floor

No

End