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House painting algorithm

1. Input cost per square foot, store as costPerSqFt
2. Input length of the house, store as houseLength
3. Input the width of the house, store as houseWidth
4. Input the height of the house, store as houseHeight
5. Input the number of windows, store as numOfWindows
6. Input the length of a window, store as windowLength
7. Input the width of a window, store as windowWidth
8. Input the number of doors, store as numOfDoors
9. Input the width of a door, store as doorWidth
10. Input the length of a door, store as doorLength
11. Calculate the peak side and normal side
    1. peakSide = (houseLength \* houseWidth) + 0.5 \* (houseLength \* (houseHeight – houseWidth))
    2. normalSide = houseLength \* houseWidth
12. Calculate the total area taken up by windows
    1. totalWindowArea = numOfWindows \* windowWidth \* windowLength
13. Calculate the total area taken up by doors.
    1. totalDoorArea = numOfDoors \* doorWidth \* doorLength
14. Calculate the surface area of the building
    1. totalHouseArea = 2 \* (peakSide) + 2 \* (normalSide)
15. Calculate the total paintable surface area
    1. paintableArea = totalHouseArea – (totalDoorArea + totalWindowArea)
16. Calculate the estimated cost.
    1. totalCost = paintableArea \* costPerSqFt