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**House Painting Algorithm**

*Inputs:*

Input cost charged by painter per square foot from user, store as costSqFt

Input length of house from user, store as houseLength

Input width of house from user, store as houseWidth

Input height of house from user, store as houseHeight

Input number of windows from user, store as numWindows

Input window length from user, store as windowLength

Input window width from user, store as windowWidth

Input number of doors from user, store as numDoors

Input door length from user, store as doorLength

Input door width from user, store as doorWidth

*Calculations:*

Calculate 2\*(houseLength\*houseWidth+½\*(houseLength\*(houseHeight-houseWidth))), store as peakSideFootage

Calculate 2\*(houseLength\*houseWidth), store as normalSideFootage

Calculate numWindows\*(windowLength\*windowWidth), store as windowFootage

Calculate numDoors\*(doorLength\*doorWidth), store as doorFootage

Calculate (peakSideFootage+normalSideFootage)-(windowFootage+doorFootage), store as totalSquareFootage

Calculate totalSquareFootage\*costSqFt, store as totalCost

*Outputs:*  
Note: Done differently in program, but kept simpler here for sake of clarity

Output “Your total paintable surface area is ” + totalSquareFootage + “ square feet.”

Output “Your estimate is ” + totalCost + “ dollars.”