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CS-176L-01

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# Input variables

Input Width, Length, Height, numOfWindows, windowLength, windowWidth, numOfDoors, doorLength, doorWidth, costPerSquareFoot

# Calculate the square footage of each side of the house

normalSideSquareFootage = Length \* Width

peakSideSquareFootage = Length \* Width + 0.5 \* (Length \* (Height - Width))

# Calculate the total square footage of the house

totalSquareFootage = 2 \* normalSideSquareFootage + 2 \* peakSideSquareFootage

# Calculate the square footage taken up by windows and doors

windowSquareFootage = #numOfWindows \* (windowLength \* windowWidth)

doorSquareFootage = #numOfDoors \* (doorLength \* doorWidth)

# Subtract the square footage of windows and doors from the total square footage

totalPaintableSquareFootage = totalSquareFootage - (windowSquareFootage + doorSquareFootage)

# Calculate the estimated cost of painting

EstimatedCost = TotalPaintableSquareFootage \* costPerSquareFoot

# Output the estimated cost

Output estimatedCost