Algorithm:

- Input:
    - Print “Please enter the cost per square foot: ”; input the cost per square foot, save as sqaureFootCost
    - Print “Please enter the length of the house: ”; input the length of the house, save as houseLength
    - Print “Please enter the width of the house: ”; input the width of the house, save as houseWidth
    - Print “Please enter the height of the house: ”; input the height of the house, save as houseHeight
    - Print “Please enter the number of windows: ”; input the number of windows, save as windowNum
    - Print “Please enter the length of a window: ”; input the length of the window, save as windowLength
    - Print “Please enter the width of a window: ”; input the width of the window, save as windowWidth
    - Print “Please enter the number of doors: ”; input the number of doors, save as doorNum
    - Print “Please enter the length of a door: ”; input the length of a door, save as doorLength
    - Print “Please enter the width of a door: ”; input the length of a door, save as doorWidth
- Computing:
    - Multiply doorLength and doorWidth, then multiply that number by doorNum to compute totalDoorArea.
    - Multiply windowLength and windowWidth, then multiply that number by windowNum to compute totalWindowArea.
    - Compute normalSide by multiplying houseLength by houseWidth, multiply by 2 to account for both normal sides.
    - Compute peakSide by subtracting houseHeight by houseWidth, then multiply that number by houseLength and multiply again by one half. Add this number to the product of houseLength and houseWidth, multiply by 2 to account for both peak sides.
    - Compute totalHouseArea by adding peakSide and normalSide together, then subtract out the totalDoorArea and totalWindowArea.
    - Compute totalCost by multiplying totalHouseArea by sqaureFootCost.
- Output:
    - Print “Your total paintable surface area is (totalHouseArea) square feet.”
    - Print “Your estimate is (totalCost) dollars.”