Width 15

Length 40

Height of house 25

# of windows 10

Window dimension (all windows same size) L 4 H 2

#of doors 2

Door dimension ( all doors are the same size) L 6 H 3

Cost per square foot painter charges 5

PSEUDOCODE to compute the estimated cost of the painting job

The normal side is L x W

Peak side L x W + 1/2 (L\*(H-W))

Length = Base

Width = height to the edge of the roof

Height = height to the peak of the roof to the ground

2 Normal sides

2 Peak sides

4 sides in total

2 normal sides 40x15 600x2= 1200 square feet

2 peak sides 40x15+0.5(40x(25-15)) 1600 square feet

2x4x10=80 windows

3x6x2= 36 doors

Unpaintable area is windows (80)+ doors (36)= 116

Paintable is approximately 2800 - unpaintable area 116= 2684

The cost of square feet is 5 dollars times 2684 = 13420 dollars

House painting algorithm

Inputs

Input painter cost per square foot store save as costPerSqFt

Input Height of house save as Height

Input Width of the house save as Width

Input Length of the house save as Length

Input number of windows save as Windows

Input number of doors save as Door

Input window dimension save as windowDimension

Input doors dimensions save as doorDimension

Input unpaintable area

2 normal sides 40x15 600x2= 1200 square feet

2 peak sides 40x15+0.5(40x(25-15)) 1600 square feet

2x4x10=80 windows

3x6x2= 36 doors

Unpaintable area is windows (80)+ doors (36)= 116

Paintable is approximately 2800 - unpaintable area 116= 2684

The cost of square feet is 5 dollars times 2684 = 13420 dollars

2 normal side Height \* Length

2 peak sides Height \* Width + 0.5 ( Length \* ( Height - Width))

2 normal sides 40x15 600x2= 1200 square feet

2 peak sides 40x15+0.5(40x(25-15)) 1600 square feet

2x4x10=80 windows

3x6x2= 36 doors

Unpaintable area is windows (80)+ doors (36)= 116

Paintable is approximately 2800 - unpaintable area 116= 2684

The cost of square feet is 5 dollars times 2684 = 13420 dollars

Output

Print paintableSqFt

Print costToPaint