//  
// main.swift  
// bmi  
//  
// Created by MacStudent on 2019-10-18.  
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//  
  
import Foundation  
  
print("Hello, World!")  
  
class patient {  
 var mass = 0.0  
 var height = 0.00  
   
 func display(){  
 print("Patient: \(mass) kg pour \(height) m")  
 }  
 var mValue: Double{  
 return mass  
 }  
 var hValue: Double{  
 return height  
 }  
 var massHeight : (Double, Double) {  
 get {  
 return (mass, height)  
 }  
// set {  
// mass = newValue.0 ; height = newValue.1  
// }  
 set (newMassHeight) {  
 mass = (newMassHeight.0 > 0 && newMassHeight .1 > 0) ? newMassHeight.0 : 0.0  
 height = (newMassHeight.0 > 0 && newMassHeight.1 > 0) ? newMassHeight.1 : 0.0  
 }  
 }  
 func bmi() -> Double{  
 let weight = (mass/(height \* height))  
 if height == 0.0 {  
 print("0")  
 }  
 return weight  
 }  
 init(\_ mass: Double, \_ height: Double) {  
 if mass > 0 && height > 0 {  
 self.mass = mass  
 self.height = height  
 }else{  
 self.mass = 0  
 self.height = 0  
 }  
 }  
   
}  
let quidam = patient(74.5, 1.75)  
quidam.display()  
print("BMI: \(quidam.bmi())")  
quidam.massHeight = (-2.0, 4.5)  
quidam.display()