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***********************************
#Name: Daniel Lewis
#Description: Homework Assignment 1
#Date: 01/17/2019 (JST)
#-----HW1: Intro -----
#Define the following vectors,
people on a particular team
                                      which represent the weight and
(in inches and pounds):
                                                                               height of
            a particular team
height <-c(59,60,61,58,67,72,70)
weight <- c(150,140,180,220,160,140,130)
#define a variable a
a < -c(150)
#-----
#Step1: Calculate Mean
#Compute, using R,
                                average height (called mean in
                                                                  R)
                         the
mean(height)
            using R, the
                                average weight (called mean in
                                                                  R)
#Compute,
mean(weight)
            the length of the vector 'height' and
#Calculate
                                                                 'weight'
length(height)
length(weight)
           the sum of
#Calculate
                               the
                                      heights
sum(height)
#Compute
           the average of both height and
                                                   weight, by
                                                                  dividing the sum (of the
height
#or the width, as appropriate), by the length of
                                                                 the vector. How does this
compare to
#the 'mean' function?
avgH <- sum(height)/length(height)</pre>
avgW <- sum(weight)/length(weight)</pre>
#this compares to the mean function in that it seems to give the same result except that the height is rounded in the
mean function.
#-----
#Step2: Using max/min functions
#compute the max height, store the results in maxH
maxH <- max(height)</pre>
#computer the min weight, store the results in minW
minW <- min(weight)</pre>
#Step 3: Vector Math
#create a new vector, which is the weight +5 (every person gained 5 pounds)
newWeight <- weight + 5</pre>
#compute the pounds/height for each person, using the new weight just created
height_to_newWeight <- data.frame(newWeight,height)</pre>
#-----
#Step 4: Using Conditional if statements
#Write the R code to test if max height is greater than 60 (output "yes"
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to if min weight is greater than the

variable

`a'

"no")

if (maxH>60) "yes" else "no"
#)Write the R code
(output "yes" or "no")

if (minW>a) "yes" else "no"

or