**Homework Submission Sample**

R Code – unexecuted

# ---------- HW1: Intro -----------

# create a vector "height" containing numbers

height <- c(59,60,61,58,67,72,70)

# create a vector "weight" containing numbers

weight <- c(150,140,180,220,160,140,130)

# define a variable a (a = 150)

a <- 150

# ---------------------------------

# Step 1: Calculating means

# compute, using R, the average(mean) height

your code here

# compute, using R, the average(mean) weight

your code here

# calculate the length of the vector height (the number of elements inside the vector)

your code here

# calculate the length of the vector weight (the number of elements inside the vector)

your code here

# calculate the sum of the heights

your code here

# compute the average height by dividing the sum by the length of the vector

your code here

# compute the average weight by dividing the sum by the length of the vector

your code here

# ---------------------------------

# Step 2: Using max/min functions

# compute the max height, store the result in maxH

your code here

# compute the min weight, store the results in minW

your code here

# ---------------------------------

# Step 3: Vector Math

# create a new vector, which is the weight + 5 (every person gained 5 pounds)

your code here

# compute the pounds/inch for each person, using the new weight just created

your code here

# ---------------------------------

# Step 4: Using Conditional if statements

# test if max height is greater than 60 (output âyesâ or ânoâ)

your code here

# test if min weight is greater than the variable âaâ (output âyesâ or ânoâ)

your code here

# Histogrm Demo – not part of HW1,, just an example

#

hist(weight)

hist(height)

Console log w/plot

Executed code

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| --- |
| # ---------- HW1: Intro -----------  >  > # create a vector "height" containing numbers  > height <- c(59,60,61,58,67,72,70)  > # create a vector "weight" containing numbers  > weight <- c(150,140,180,220,160,140,130)  > # define a variable a (a = 150)  > a <- 150  >  > # ---------------------------------  > # Step 1: Calculating means  > # compute, using R, the average(mean) height  >  > # compute, using R, the average(mean) weight  > mean(weight)  [1] 160  > # calculate the length of the vector height (the number of elements inside the vecotr)  > length(height)  [1] 7  > # calculate the length of the vector weight (the number of elements inside the vecotr)  >  > # calculate the sum of the heights  >  > # compute the average height by dividing the sum by the length of the vector  >  > # compute the average weight by dividing the sum by the length of the vector  >  >  >  > # ---------------------------------  > # Step 2: Using max/min functions  >  >  >  > # ---------------------------------  > # Step 3: Vector Math  >  >  > # ---------------------------------  > # Step 4: Using Conditional if statements  >  >  >  > # Histogrm Demo  > #  >  > hist(weight)  > hist(height) |
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