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IST 687 – Homework 1

Date Due: 01/21/2020

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**Step 1: Calculating Means**

1. *Compute, using R, the average height (called mean in R).*  
   
2. *Compute, using R, the average weight (called mean in R)*   
   
3. *Calculate the length of the vector ‘height’ and ‘weight’*   
   
4. *Calculate the sum of the heights*   
   
5. *Compute the average of height and weight by dividing the sum by length of the vector.*   
   *How does this compare to the ‘mean’ function?*   
     
   They are identical

**Step 2: Using max/min functions**

1. Compute the max height, store the result in ‘maxH’   
   
2. Compute the min weight, store the results in ‘minW’   
     
     
   **Step 3: Vector Math**
3. Create a new vector, which is the weight + 5 (every person gained 5 pounds)   
   
4. Compute the weight/height for each person, using the new weight just created   
     
   **Step 4: Using Conditional if statements**
5. Write the R code to test if max height is greater than 60 (output “yes” or “no”)   
   
6. Write the R code to test if min weight greater than the variable ‘a’ (output “yes” or “no”)  
   