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| 1 | # 1 Create a data frame based on the following data  userHeightWeight <- data.frame(name = c("Joe", "Sue", "Jane", "Adam", "Bob", "Dale", "Kim", "Trish"),  height = c(167, 145, 155, 190, 164, 155, 152, 161),  weight = c(63, 55, 57, 71, 70, 52, 53, 61))  userHeightWeight |  |
| 2 | # 2 Use the first column of previous data frame and create a second data frame  userGender <- data.frame(name = userHeightWeight[1], Sex = c("M", "F", "F", "M", "M", "M", "F", "F"))  userGender |  |
| 3 | # 3 Combine the two data frames into one data frame object  users <- merge.data.frame(userHeightWeight, userGender)  users |  |
| 4 | # 4 In this exercise you are working with a built in objects state.abb and state.center.  # Part A  stateLocations <- data.frame(stateAbrv = state.abb, state.center["x"], state.center["y"])  colnames(stateLocations)[2] <- "Lat"  colnames(stateLocations)[3] <- "Long"  # Part B  searchStates <- c("NY", "PA", "MA", "VT", "CT", "NJ", "MD", "NH", "RI")  # Part C  filteredLocations <- stateLocations[match(searchStates, stateLocations$stateAbrv),]  filteredLocations |  |
| 5 | # 5 Print the names of the top 5 states with the highest life expectancy  lifeExpects <- data.frame(state.x77)  sortedLifeExpects <- head(lifeExpects[order(lifeExpects$Life.Exp, decreasing = TRUE),] , n = 5)  sortedLifeExpects["Life.Exp"] |  |