1	# 1 Create a data frame based on the	+ userHeightWeight		
	following data	name height weight		
	<pre>userHeightWeight <- data.frame(name = c("Joe", "Sue", "Jane", "Adam", "Bob",</pre>	1 Joe 167 63		
	"Dale", "Kim", "Trish"),	2 Sue 145 55		
	height =	3 Jane 155 57		
	c(167, 145, 155, 190, 164, 155, 152, 161),	4 Adam 190 71		
	weight =	5 Bob 164 70		
	c(63, 55, 57, 71, 70, 52, 53, 61))	6 Dale 155 52		
		7 Kim 152 53		
	userHeightWeight	8 Trish 161 61		
		>		
2	# 2 Use the first column of previous data	userGender		
	frame and create a second data frame	name Sex		
	userGender <- data.frame(name =	Joe M		
	<pre>userHeightWeight[1], Sex = c("M", "F", "F",</pre>	Sue F		
	"M", "M", "M", "F", "F"))	Jane F		
	userGender	Adam M		
	userdender	Bob M		
		Dale M		
		Kim F		
		Trish F		
	# 3 Combine the two data frames into one			
3	data frame object	users		
	users <- merge.data.frame(userHeightWeight,	name height weight Sex		
	userGender)	Adam 190 71 M		
		Bob 164 70 M		
	users	Dale 155 52 M		
		Jane 155 57 F		
		Joe 167 63 M		
		Kim 152 53 F		
		Sue 145 55 F		
		Trish 161 61 F		
4	# 4 In this exercise you are working with a	filteredLocations		
	built in objects state.abb and state.center.	stateAbrv Lat Long		
	# Part A	NY -75.1449 43.1361		
	<pre>stateLocations <- data.frame(stateAbrv = state.abb, state.center["x"],</pre>	PA -77.4500 40.9069		
	state.center["y"])	MA -71.5800 42.3645		
	colnames(stateLocations)[2] <- "Lat"	VT -72.5450 44.2508		
	colnames(stateLocations)[3] <- "Long"	CT -72.3573 41.5928		
	<pre># Part B searchStates <- c("NY", "PA", "MA", "VT", "CT", "NJ", "MD", "NH", "RI")</pre>	NJ -74.2336 39.9637		
		MD -76.6459 39.2778		
		NH -71.3924 43.3934		
		RI -71.1244 41.5928		
	# Part C			
	<pre>filteredLocations <- stateLocations[match(searchStates,</pre>			
	stateLocations[match(searchstates, stateLocations\$stateAbrv),]			
	filteredLocations			

5	# 5 Print the names of the top 5 states with the highest life expectancy	<pre>> sortedLifeExpects["Life.Exp"]</pre>	
	<pre>lifeExpects <- data.frame(state.x77) sortedLifeExpects <- head(lifeExpects[order(lifeExpects\$Life.Exp, decreasing = TRUE),] , n = 5) sortedLifeExpects["Life.Exp"]</pre>	Hawaii Minnesota Utah North Dakota Nebraska	73.60 72.96 72.90 72.78 72.60