## AGH HW after LT#2: Homework for: Box and Whisker Plots and Outliers

On Septer	mber 24	, 2006, H	Barry Bo	onds hit l	his 734 <sup>th</sup>	career h	ome rur	and bro	ke Hanl	x Aaron <sup>7</sup>	's National League record	١.
Does that make Bonds a better home run hitter? Perhaps we should compare their National League records up												
through 2004. Here are Bonds's numbers through 2004, arranged in increasing order:												
16	19	24	25	25	25	33	33	33	34	34	37	
										• -		
37	40	42	45	45	46	46	49	73				
	On Septer Does that through 2 16 37	On September 24 Does that make B through 2004. He 16 19 37 40	On September 24, 2006, H Does that make Bonds a b through 2004. Here are B 16 19 24 37 40 42	On September 24, 2006, Barry BoDoes that make Bonds a better hothrough 2004. Here are Bonds's r1619242537404245	On September 24, 2006, Barry Bonds hit IDoes that make Bonds a better home run Ithrough 2004. Here are Bonds's numbers16192425253740424545	On September 24, 2006, Barry Bonds hit his 734 <sup>th</sup> Does that make Bonds a better home run hitter?Pthrough 2004. Here are Bonds's numbers through16192425253740424545	On September 24, 2006, Barry Bonds hit his 734 <sup>th</sup> career hDoes that make Bonds a better home run hitter? Perhaps wthrough 2004. Here are Bonds's numbers through 2004, at16192425253337404245454646	On September 24, 2006, Barry Bonds hit his 734 <sup>th</sup> career home runDoes that make Bonds a better home run hitter? Perhaps we shoulthrough 2004. Here are Bonds's numbers through 2004, arranged1619242525333337404245464649	On September 24, 2006, Barry Bonds hit his 734 <sup>th</sup> career home run and broDoes that make Bonds a better home run hitter? Perhaps we should compathrough 2004. Here are Bonds's numbers through 2004, arranged in increas1619242525333333374042454546464973	On September 24, 2006, Barry Bonds hit his 734 <sup>th</sup> career home run and broke HandDoes that make Bonds a better home run hitter? Perhaps we should compare their through 2004. Here are Bonds's numbers through 2004, arranged in increasing ord1619242525333334374042454546464973	On September 24, 2006, Barry Bonds hit his 734th career home run and broke Hank AaronDoes that make Bonds a better home run hitter? Perhaps we should compare their Nationalthrough 2004. Here are Bonds's numbers through 2004, arranged in increasing order:161924252533333434374042454546464973	On September 24, 2006, Barry Bonds hit his 734 <sup>th</sup> career home run and broke Hank Aaron's National League recordDoes that make Bonds a better home run hitter? Perhaps we should compare their National League records upthrough 2004. Here are Bonds's numbers through 2004, arranged in increasing order:161924252533333434373740424545464973

Here are Aaron's National League numbers (1954–1974), arranged in increasing order:

13	20	24	26	27	29	30	32	34	34	38	39
39	40	40	44	44	44	44	45	47			

(a) Determine the five-number summaries for Bonds and Aaron.

(b) Make a parallel box and whisker plot of your data below:

(c) Use the graph and your summary statistics to write a few sentences comparing Bonds and Aaron as home run hitters.

(d) Would there have been any concerns using mean and standard deviation to make a comparison with the data above?