

First situation where there are no extra among since there is an even # of elements in the original critical. In this case, there are a 10+ contugs when only

First Situation
There ongine Odd # 108 elements. 3 Nº 1 113/4/5/97 10121011181 10/1/2/3/4/5/6/7/8/91

This cen be seen by some of this mergeson algorithm is $O(n*log_2n)$.

This cen be seen by some of the arrays above that had to be somed using mergeson. The arrays required to completely son on array usual be equal to 2*=n (n being # of eleneus in analy). The vale of 2* must be greater or equal to n to be every for the array to filly sort. The largest example (William) has 16 elements, which is 2^u , but if are more element usus adeled, it would have to become 2*, and it would stay 2* until the # of elements would exceed 32. Arrays Tim" and "Deveny" are 2^* since the # of elements would exceed 32. Arrays Tim" and "Deveny" are 2^* since the # arrays is larger than 4 but less than or equal to 8. So the splitting of elements is larger than 4 but less than or equal to 8. So the splitting of elements is larger than 4 but less that or equal to 8. So the splitting the larger of the algorithm is $o(log_2n)$ since the array gets divided into HALVES for or the algorithm is $o(log_2n)$ since the array gets divided into the marging part of the algorithm is $o(log_2n)$ since the craw gets divided into the marging part of the resulting execution time is $o(log_2n)$.