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### **CLRS Solutions - Mathematics Department**

Have fun with your algorithms. 1:2-2 Insertion sort beats merge sort when  $8n^2 < 64n \lg n$ ,  $n < 8 \lg n$ ,  $2n=8 < n$ . This is true for  $2 \leq n \leq 43$  (found by using a calculator). Rewrite merge sort to use insertion sort for input of size 43 or less in order to improve the running time.

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evaluation algorithm. The running time is  $(n^2)$ . Naive-Polynomial-Evaluation( $P(x);x$ )  
1  $y = 0$  2 for  $i = 0$  to  $n$  3  $t = 1$  4 for  $j = 1$  to  $i$  5  $t = t \times a_j$  6  $y = y + t$  7 return  $y$  2.3.3 c Initialization Prior to the first iteration of the loop, we have  $i = n$ , so that  $P_n(i+1) = 0$  consistent with  $k = 0$ . So loop invariant holds.

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