Problem	f_n definition	f_n solution
Worst case Mergesort	$f_{\lfloor n/2 \rfloor} + f_{\lceil n/2 \rceil} + n - 1$	$n \lg n + nA(\lg n) + 1$
Average Case Mergesort	$f_{\lfloor n/2 \rfloor} + f_{\lceil n/2 \rceil} + n - \gamma_n$	$n \lg n + nB(\lg n) + O(1)$
Variance of Mergesort	$f_{\lfloor n/2 \rfloor} + f_{\lceil n/2 \rceil} + \delta_n$	$n \cdot C(\lg n) + o(n)$
Sum of Digits Function	$\sum_{i<n} v_1(i)$	$\frac{1}{2} n \lg n + nD(\lg n)$
Triadic Binary Numbers	$\sum_{i<n} h(i)$	$n^{1+\lg 3} E(\lg n) - \frac{1}{4} n$
No of odd Binary Coeff in 1st n rows of Pascal's Triangle	$\sum_{i<n} 2^{v_1(i)}$	$n^{\lg 3} F(\lg n)$