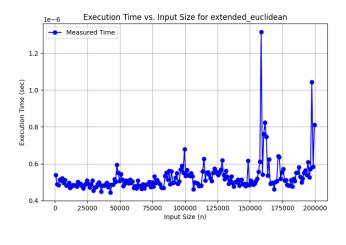
Discrete Functions Complexity Analysis Report

Complexity Analysis for extended_euclidean

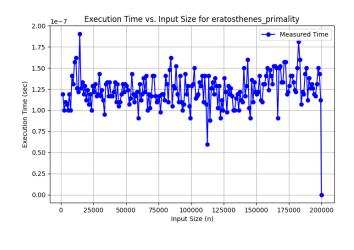
Best Fit Complexity: Constant: time = 2.2E-05 (sec)

Execution Time vs. Input Size Plot:



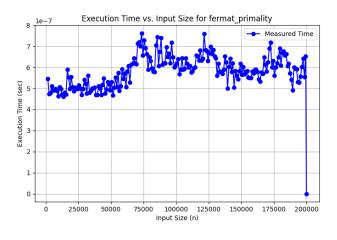
Complexity Analysis for eratosthenes_primality

Best Fit Complexity: Constant: time = 1E-05 (sec)



Complexity Analysis for fermat_primality

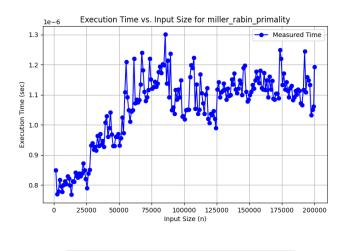
Best Fit Complexity: Constant: time = 3.4E-05 (sec)



Complexity Analysis for miller_rabin_primality

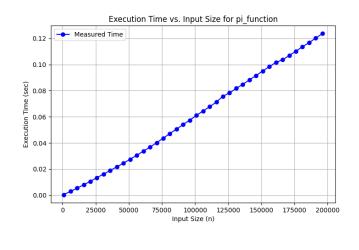
Best Fit Complexity: Constant: time = 7E-05 (sec)

Execution Time vs. Input Size Plot:



Complexity Analysis for pi_function

Best Fit Complexity: Linearithmic: time = -0.007 + 5.3E-07*n*log(n)
(sec)



Complexity Analysis for prob_function

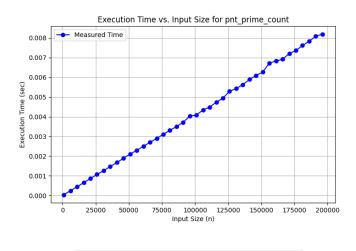
Best Fit Complexity: Linear: time = 0.00033 + 8.4E-09*n (sec)



Complexity Analysis for pnt_prime_count

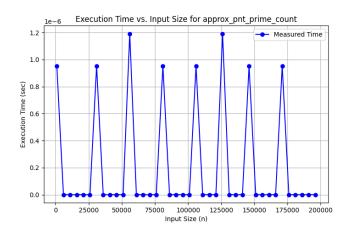
Best Fit Complexity: Linear: time = 0.0011 + 4.1E-07*n (sec)

Execution Time vs. Input Size Plot:



Complexity Analysis for approx_pnt_prime_count

Best Fit Complexity: Constant: time = 1.5E-06 (sec)



Complexity Analysis for divisors

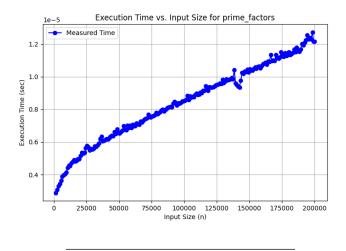
Best Fit Complexity: Constant: time = 5.3E-05 (sec)



Complexity Analysis for prime_factors

Best Fit Complexity: Constant: time = 7.3E-05 (sec)

Execution Time vs. Input Size Plot:



Complexity Analysis for factorize

Best Fit Complexity: Constant: time = 7.7E-05 (sec)



Complexity Analysis for sigma

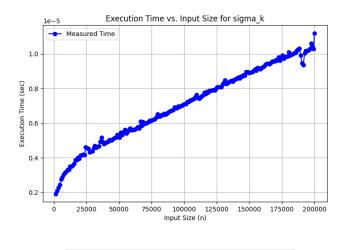
Best Fit Complexity: Constant: time = 5.4E-05 (sec)



Complexity Analysis for sigma_k

Best Fit Complexity: Constant: time = 6.1E-05 (sec)

Execution Time vs. Input Size Plot:



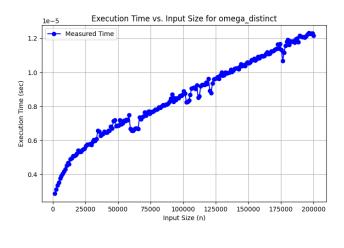
Complexity Analysis for T_divisor_count

Best Fit Complexity: Constant: time = 5.3E-05 (sec)



Complexity Analysis for omega_distinct

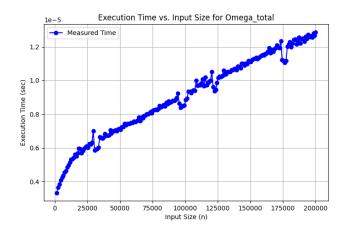
Best Fit Complexity: Constant: time = 7.8E-05 (sec)



Complexity Analysis for Omega_total

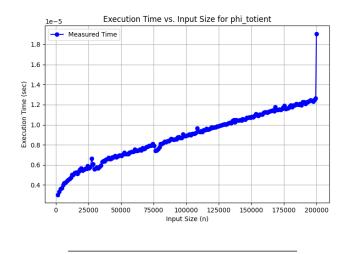
Best Fit Complexity: Constant: time = 8.3E-05 (sec)

Execution Time vs. Input Size Plot:



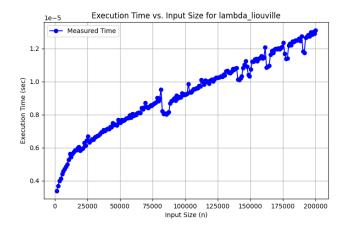
Complexity Analysis for phi_totient

Best Fit Complexity: Constant: time = 7.8E-05 (sec)



Complexity Analysis for lambda_liouville

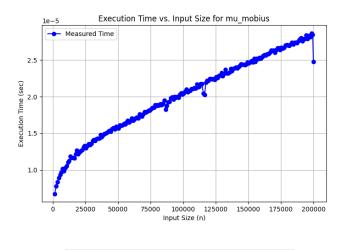
Best Fit Complexity: Constant: time = 8.7E-05 (sec)



Complexity Analysis for mu_mobius

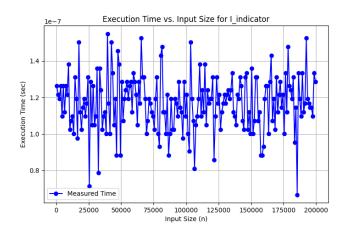
Best Fit Complexity: Constant: time = 0.00019 (sec)

Execution Time vs. Input Size Plot:



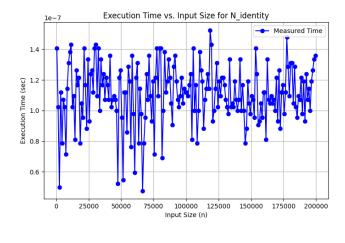
Complexity Analysis for I_indicator

Best Fit Complexity: Constant: time = 9.7E-07 (sec)



Complexity Analysis for N_identity

Best Fit Complexity: Constant: time = 9.1E-07 (sec)



Complexity Analysis for is_perfect

Best Fit Complexity: Constant: time = 5.4E-05 (sec)

Execution Time vs. Input Size Plot:



Complexity Analysis for is_square_free

Best Fit Complexity: Constant: time = 0.00016 (sec)

