## Partial Execution Output

At i = 16; gcd (8, 13) = 1 took 5 modulus operations in 7 microseconds

At i = 17; gcd (8, 13) = 1 took 5 modulus operations in 20 microseconds

At i = 18; gcd (8, 13) = 1 took 5 modulus operations in 12 microseconds

At i = 19; gcd (8, 13) = 1 took 5 modulus operations in 12 microseconds

At i = 20; gcd (8, 13) = 1 took 5 modulus operations in 14 microseconds

At i = 21; gcd (13, 21) = 1 took 6 modulus operations in 15 microseconds

At i = 22; gcd (13, 21) = 1 took 6 modulus operations in 42 microseconds

At i = 23; gcd (13, 21) = 1 took 6 modulus operations in 18 microseconds

At i = 24; gcd (13, 21) = 1 took 6 modulus operations in 23 microseconds

At i = 25; gcd (13, 21) = 1 took 6 modulus operations in 17 microseconds

At i = 50; gcd (21, 34) = 1 took 7 modulus operations in 111 microseconds

At i = 75; gcd (34, 55) = 1 took 8 modulus operations in 244 microseconds

At i = 100; gcd (55, 89) = 1 took 9 modulus operations in 353 microseconds

At i = 125; gcd (55, 89) = 1 took 9 modulus operations in 588 microseconds

At i = 150; gcd (89, 144) = 1 took 10 modulus operations in 1027 microseconds

At i = 175; gcd (89, 144) = 1 took 10 modulus operations in 1585 microseconds

At i = 200; gcd (89, 144) = 1 took 10 modulus operations in 1536 microseconds

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| --- | --- | --- | --- |
| n | T(n) | F(n^3) | T(n) / F(n) |
| 25 | 1605.6 | 312.5 | 5.13792 |
| 50 | 13415.2 | 2500 | 5.36608 |
| 75 | 31466.3 | 8437.5 | 3.729339259 |
| 100 | 45072.4 | 20000 | 2.25362 |
| 125 | 60748 | 39062.5 | 1.5551488 |
| 150 | 85269.4 | 67500 | 1.26325037 |
| 175 | 115445.6 | 107187.5 | 1.077043499 |
| 200 | 156602.4 | 160000 | 0.978765 |
| 225 | 205817.1 | 227812.5 | 0.903449547 |
| 250 | 264340.1 | 312500 | 0.84588832 |
| 275 | 335815.3 | 415937.5 | 0.807369617 |
| 300 | 423031.6 | 540000 | 0.783391852 |
| 325 | 528941.1 | 686562.5 | 0.770419445 |
| 350 | 649160.9 | 857500 | 0.75703895 |
| 375 | 801345.4 | 1054687.5 | 0.759794157 |
| 400 | 965114 | 1280000 | 0.753995313 |
| 425 | 1170578.7 | 1535312.5 | 0.762436768 |
| 450 | 1392153.2 | 1822500 | 0.763870069 |
| 475 | 1623821.5 | 2143437.5 | 0.757578189 |
| 500 | 1890510.6 | 2500000 | 0.75620424 |
| 525 | 2193717.8 | 2894062.5 | 0.758006366 |
| 550 | 2524120.9 | 3327500 | 0.758563757 |
| 575 | 2884377.9 | 3802187.5 | 0.758610116 |