Prime_Number_Solver_Using_isPrime (Calls: 1, Time: 14.358 s)

Generated 17-Jul-2023 20:00:14 using performance time.
Script in file G:\.shortcut-targets-by-id\1FDIvj8mfMGVPmzoguheuOUy-VJPYsRSg\ePortfolio\Personal\MATLAB Fun\Prime Number Solver\Prime_Number_Solver_Using_isPrime.m
Copy to new window for comparing multiple runs

Parents (calling functions)

No parent

Lines that take the most time

Line Number	Code	Calls	Total Time (s)	% Time	Time Plot
12	`primes = isprime(numbers);`	1	14.256	99.3%	
3	`clf`	1	0.044	0.3%	
4	`close all`	1	0.035	0.2%	
10	`numbers = linspace(1,max, max);`	1	0.012	0.1%	
14	`numbers = numbers(primes);`	1	0.007	0.1%	
All other lines			0.004	0.0%	
Totals			14.358	100%	

Children (called functions)

Function Name	Function Type	Calls	Total Time (s)	% Time	Time Plot
isprime	Function	1	14.234	99.1%	
clf	Function	1	0.044	0.3%	
close	Function	1	0.035	0.2%	
linspace	Function	1	0.011	0.1%	
Self time (built-ins, overhead, etc.)			0.034	0.2%	
Totals			14.358	100%	

Code Analyzer results

Coverage results

Show coverage for parent folder

Total lines in function	17
Non-code lines (comments, blank lines)	4
Code lines (lines that can run)	13
Code lines that did run	13
Code lines that did not run	0

Coverage (did run/can run)	100.00 %

Function listing

Time	Calls	Line	
< 0.001	1	1	clear
< 0.001	1	2	clc
0.044	1	3	clf
0.035	1	4	close all
< 0.001	1	5	format long
		6	
< 0.001	1	7	tic
		8	%3000000 will take around 14.014116 sec and have 216816 primes
< 0.001	1	9	max = 3000000;
0.012	1	10	numbers = linspace(1,max, max);
		11	
14.256	1	12	primes = isprime(numbers);
		13	
0.007	1	14	numbers = numbers(primes);
0.001	1	15	toc
< 0.001	1	16	disp(length(numbers))
< 0.001	1	17	disp("Done")