

Prime.java Starts

-----bruteForce method-----

The numbers of primes from 2 to 16 = 6

The number of steps is = 40

The number of guessed steps is = 104

-----uptoSquareRoot method-----

The numbers of primes from 2 to 16 = 6

The number of steps is = 17

The number of guessed steps is = 64

bruteForce and uptoSquareRoot methods produces same answers

=====uptoPrimeNumbers start 16 -----

-----uptoPrimeNumbers method-----

The numbers of primes from 2 to 16 = 6

The number of steps is = 17

The number of guessed steps is = 23

uptoPrimeNumbers done

===== SieveOfEratosthene start 16 -----

-----SieveOfEratosthenes method-----

The numbers of primes from 2 to 16 = 6

The number of steps is = 14

The number of guessed steps is = 16

SieveOfEratosthene done

uptoPrimeNumbers and SieveOfEratosthene methods produces same answers

-----bruteForce method-----

The numbers of primes from 2 to 1000 = 168

The number of steps is = 78022

The number of guessed steps is = 498500

-----uptoSquareRoot method-----

The numbers of primes from 2 to 1000 = 168

The number of steps is = 5288

The number of guessed steps is = 31622

bruteForce and uptoSquareRoot methods produces same answers

=====uptoPrimeNumbers start 1000 -----

-----uptoPrimeNumbers method-----

The numbers of primes from 2 to 1000 = 168

The number of steps is = 2801

The number of guessed steps is = 4577

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uptoPrimeNumbers done
===== SieveOfEratosthene start 1000 -----
-----SieveOfEratosthenes method-----
The numbers of primes from 2 to 1000 = 168
The number of steps is =          1958
The number of guessed steps is = 1932
SieveOfEratosthene done
uptoPrimeNumbers and SieveOfEratosthene methods produces same answers
=====uptoPrimeNumbers start 50000 -----
-----uptoPrimeNumbers method-----
The numbers of primes from 2 to 50000 = 5133
The number of steps is =          313588
The number of guessed steps is = 1033324
The 1000 prime is = 7907
uptoPrimeNumbers done
===== SieveOfEratosthene start 50000 -----
-----SieveOfEratosthenes method-----
The numbers of primes from 2 to 50000 = 5133
The number of steps is =          124821
The number of guessed steps is = 119068
The 1000 prime is = 7907
SieveOfEratosthene done
uptoPrimeNumbers and SieveOfEratosthene methods produces same answers
=====uptoPrimeNumbers start 500000 -----
-----uptoPrimeNumbers method-----
The numbers of primes from 2 to 500000 = 41538
The number of steps is =          5709008
The number of guessed steps is = 26942813
The 1000 prime is = 7907
The 10000 prime is = 104723
uptoPrimeNumbers done
===== SieveOfEratosthene start 500000 -----
-----SieveOfEratosthenes method-----
The numbers of primes from 2 to 500000 = 41538
The number of steps is =          1358602
The number of guessed steps is = 1287158
The 1000 prime is = 7907

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The 10000 prime is = 104723

SieveOfEratosthene done

uptoPrimeNumbers and SieveOfEratosthene methods produces same answers

=====uptoPrimeNumbers start 5000000 -----

-----uptoPrimeNumbers method-----

The numbers of primes from 2 to 5000000 = 348513

The number of steps is = 114243984

The number of guessed steps is = 724821863

The 1000 prime is = 7907

The 10000 prime is = 104723

uptoPrimeNumbers done

===== SieveOfEratosthene start 5000000 -----

-----SieveOfEratosthenes method-----

The numbers of primes from 2 to 5000000 = 348513

The number of steps is = 14489913

The number of guessed steps is = 13679931

The 1000 prime is = 7907

The 10000 prime is = 104723

SieveOfEratosthene done

uptoPrimeNumbers and SieveOfEratosthene methods produces same answers

Arrach Prime.java and output of the program as a pdf file

Prime.java ends