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

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

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