Contents

Chapter 1

Functions

1.1   factor.mpqs – MPQS

1.1.1   mpqsfind

mpqsfind(n: *integer*, s: *integer*=**0**, f: *integer*=**0**, m: *integer*=**0**, verbose: *bool*=**False**)
        $\rightarrow$ *integer*

Find a factor of **n** by MPQS(multiple-polynomial quadratic sieve) method.

MPQS is suitable for factorizing a large number.

Optional arguments **s** is the range of sieve, **f** is the number of factor base, and **m** is multiplier. If these are not specified, the function guesses them from **n**.

1.1.2   mpqs

mpqs(n: *integer*, s: *integer*=**0**, f: *integer*=**0**, m: *integer*=**0**)
        $\rightarrow$ **factorlist**

Factorize n by MPQS method.

Optional arguments are same as **mpqsfind**.

1.1.3   eratosthenes

eratosthenes(n: *integer*) $\rightarrow$ *list*

Enumerate the primes up to **n**.