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)**
→ ***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)**
→ **factorlist**

Factorize n by MPQS method.

Optional arguments are same as **mpqsfind**.

1.1.3 eratosthenes

eratosthenes(`n`**:** ***integer***) → *list***

Enumerate the primes up to `n`.

Bibliography