

# CP Snippets

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## About

A collection of CPP Snippets to aid in competitive programming.

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```
curl -L "https://raw.githubusercontent.com/theSoberSobber/CP-Sr
```

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- [crt](#) : crt
- [cute-lcm](#) :  $[a,b,c]=abc(a,b,c)/(a,b)(b,c)(c,a)$ , where  $[]=\text{lcm}$  and  $()=\text{gcd}$  or  $[a,b,c]=abc/\text{gcd}(ab,bc,ca)$
- [derangments](#) : derangments
- [diophantine](#) : linear diophantine
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- **easy\_seive** : easy\_seive
- **euclid** : euclid
- **explanation\_binsearch** : explanation\_binsearch
- **fac** : fac
- **factorization** : factorization
- **fenwick** : binary indexed tree
- **file\_io** : for coding competetions
- **freq-map** : freq-map
- **gr-inp-Fwt** : graph input weight
- **gr-inp** : graph input
- **highest\_exponent** : power\_in\_fac
- **interactive** : essential measures for interactive problems
- **ip-overloads** : I/O Overloads that I don't use
- **kadane** : max subarray sum  $O(n)$
- **kosaraju** : kosaraju
- **kruskal** : kruskal
- **lambda\_function** : lambda\_function
- **lca** : LCA path satisfying some condition
- **log** : log
- **matrix** : matrix
- **mint** : modular integer
- **modpow** : modpow
- **pbds** : pbds
- **pq** : pq
- **prime-related-stuff** : implements prime fac, fac list and is\_prime in both space optimized and time optimized ways
- **re-write** : a bunch of re and write functions based on template meta programming helpful in cp.
- **recur-binsearch** : recursive binary search implementation to make intuition easier ig
- **recur-modpow** : recur-modpow
- **rng** : rng

- **segtree** : sextree
- **seive** : seive
- **tokenizer** : tokenizer that has no use
- **totient-seive** : totient-seive
- **totient** : totient
- **trie** : trie
- **troll** : troll
- **two-sat (kosaraju)** : two-sat (kosaraju)
- **xor-basis** : xor-basis