too_lazy2name ICPC Team Notebook (2018-19)

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1 Shortcuts

1.1 Template CPP

```
#include <bits/stdc++.h>
using namespace std;
/* Template file for Online Algorithmic
   Competitions */
/* Typedefs */
    /* Basic types */
    typedef long long
                                 11:
    typedef long double
    typedef unsigned long long ull;
    /* STL containers */
    typedef vector <int>
                             vi;
    typedef vector <11>
                             vll;
    typedef pair <int, int> pii;
    typedef pair <11, 11>
                             pll;
    typedef vector < pii >
                             vpii;
    typedef vector < pll >
                             vpll;
    typedef vector <string> vs;
    typedef vector < vi >
                             vvi;
    typedef vector < vll >
                             vvll;
    typedef vector < vpii > vvpii;
    typedef set <int>
                             si;
/* Macros */
    /* Loops */
    #define fl(i, a, b)
                             for(int i(a); i
       <= (b); i ++)
    #define rep(i, n)
                             fl(i, 1, n)
    #define loop(i, n)
                             fl(i, 0, n - 1)
                             for(int i(a); i
    #define rfl(i, a, b)
       >= (b); i --)
    #define rrep(i, n)
                             rfl(i, n, 1)
    /* Algorithmic functions */
    #define srt(v)
                             sort((v).begin(),
        (v).end())
```

```
/* STL container methods */
#define pb
                        push_back
#define mp
                         make_pair
#define eb
                         emplace_back
/* String methods */
#define dig(i)
                         (s[i] - '0')
#define slen(s)
                         s.length()
/* Shorthand notations */
#define fr
                         first
#define sc
                         second
#define re
                         return
#define sz(x)
                         ((int) (x).size()
                        (x).begin(), (x).
#define all(x)
   end()
#define sqr(x)
                         ((x) * (x))
#define fill(x, y)
                         memset(x, y,
   sizeof(x))
#define clr(a)
                         fill(a, 0)
#define endl
                         '\n'
/* Mathematical */
                         0x3f3f3f3f
#define IINF
#define LLINF
   1000111000111000111LL
#define PI
   3.14159265358979323
/* Debugging purpose */
#define trace1(x)
                                  cerr <<
   #x << ": " << x << endl
#define trace2(x, y)
  #x << ": " << x << " | " << #y << ": "
    << y << endl
#define trace3(x, y, z)
  #x << ": " << x << " | " << #y << ": "
    << y << " | " << #z << ": " << z <<
   endl
#define trace4(a, b, c, d)
  #a << ": " << a << " | " << #b << ": "
    << b << " | " << #c << ": " << c << "
    | " << #d << ": " << d << endl
#define trace5(a, b, c, d, e)
  #a << ": " << a << " | " << #b << ": "
    << b << " | " << #c << ": " << c << "
    | " << #d << ": " << d << " | " << #e
    << ": " << e << endl
#define trace6(a, b, c, d, e, f) cerr <<</pre>
  #a << ": " << a << " | " << #b << ": "
    << b << " | " << #c << ": " << c << "
   " << #d << ": " << d << " | " << #e
   << ": " << e << " | " << #f << ": "
```

```
<< f << endl
    /* Fast Input Output */
    #define FAST_IO
                                      ios_base
       ::sync_with_stdio(false); cin.tie(0);
       cout.tie(0)
/* Constants */
    const 11 MOD = 100000007LL;
    const ll MAX = 100010LL;
/* Templates */
template < class T> T abs(T x) { re x > 0 ? x :
   -x: }
template < typename T> T gcd(T a, T b) { if (b ==
   0) return a; return gcd(b, a % b); }
template < typename T > T power(T x, T y, ll m =
   MOD){T ans = 1; x %= m; while(y > 0){ if(
  y \& 1LL) ans = (ans * x) \%m; y >>= 1LL; x =
   (x*x)\%m; } return ans%m; }
```