tonosama Library

template

hash.sh

```
# sh hash.sh -> コピペ -> Ctrl + D
# コメント・空白・改行を削除して md5 でハッシュする
g++ -dD -E -fpreprocessed - | tr -d '[:space:]' | md5sum | cut
-c-6
```

settings.sh

```
# CLion の設定
Settings → Build → CMake → Reload CMake Project
add_compile_options(-D_GLIBCXX_DEBUG)
# Caps Lock を Ctrl に変更
setxkbmap -option ctrl:nocaps
```

template.hpp

```
#include <bits/stdc++.h>
using namespace std;
using ll = long long;
const ll INF = LLONG_MAX / 4;
#define rep(i, a, b) for (ll i = a; i < (b); i++)
#define all(a) begin(a), end(a)
ll sz(const auto& a) { return size(a); }
bool chmin(auto& a, auto b) {
   if (a <= b) return 0;
   a = b;
   return 1;
}
bool chmax(auto& a, auto b) {
   if (a >= b) return 0;
   a = b;
```

```
return 1;
}
int main() {
  cin.tie(0)->sync_with_stdio(0);
  // your code here...
```

data-structure

BIT.hpp

md5: d8ec49

```
struct BIT {
   vector<ll> a;
   BIT(ll n) : a(n + 1) {}
   void add(ll p, ll x) \{ // A[p] += x
     p++;
     while (p < sz(a)) {
        a[p] += x;
         p += p & -p;
     }
   }
   ll sum(ll r) {
     ll s = 0;
     while (r > 0) {
        s += a[r];
         r -= r & -r;
     }
     return s;
   }
   ll sum(ll l, ll r) { // sum of A[l, r)}
     return sum(r) - sum(l);
   }
};
```

math

FPS

md5: 365d7f

graph

flow

string

geometry

memo