- 手写快读，快写
- (a/b)%mod
- 离散化

手写快读，快写

```cpp
int read() {
        int res = 0;
        char c = getchar();
        while(!isdigit(c)) c = getchar();
        while(isdigit(c)) res = (res << 1) + (res << 3) + c - 48, c = getchar();
        return res;
}
void printi(int x) {
        if(x / 10) printi(x / 10);
        putchar(x % 10 + '0');
}
```

(a/b)%mod

```
(a/b)%mod=(a*ksm(b,mod-2))%mod
```

离散化

```cpp
std::vector<int> tmp(arr);   // tmp 是 arr 的一个副本
std::sort(tmp.begin(), tmp.end());
tmp.erase(std::unique(tmp.begin(), tmp.end()), tmp.end());
for (int i = 0; i < n; ++i)
  arr[i] = std::lower_bound(tmp.begin(), tmp.end(), arr[i]) - tmp.begin();
```