

- 手写快读，快写
- $(a/b)\%mod$
- 离散化
- head

手写快读，快写

```
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

```
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();
```

head

```

#include<bits/stdc++.h>
using namespace std;
#define int long long
#define ld long double
#define endl "\n"
#define fr(i,n) for(int i=1;i<=n;i++)
#define vec vector<long long>
#define vecp vector<pair<int,int>>
const int N=1e6+5;
const int MOD=998244353;
const int INF=1e18;
int n;
int gcd(int a, int b) {
    return b ? gcd(b, a % b) : a;
}
long long ksm(long long a, long long b) {
    long long res = 1;
    while(b) {
        if(b & 1) res = res * a % MOD;
        a = a * a % MOD;
        b >>= 1;
    }
    return res;
}
void init(){
}
void solve(){
}
signed main(){
    ios::sync_with_stdio(false);
    cin.tie(0);
    cout.tie(0);
    int t=1;
    cin>>t;
    while(t--){
        solve();
    }
    return 0;
}

```