```cpp

// By AmmarDab3an

#include "bits/stdc++.h"

using namespace std;

#define int int64_t
#define ll  int64_t

// typedef unsigned int        uint;
// typedef long long int       ll;
// typedef unsigned long long  ull;
typedef pair<int, int>    pii;
typedef pair<ll, ll>      pll;
typedef pair<int, pii>    iii;
typedef pair<ll, pll>     lll;
typedef vector<int>       vi;
typedef vector<ll>        vl;
typedef vector<pii>       vpii;
typedef vector<pll>       vpll;

#define endl '\n'
#define fastIO ios_base::sync_with_stdio(0); cin.tie(0); cout.tie(0);
#define freopenI freopen("input.txt", "r", stdin);
#define freopenO freopen("output.txt", "w", stdout);

const int INF = 0x3f3f3f3f;
const ll INFLL = 0x3f3f3f3f3f3f3f3f;
const int MOD = 1e9 + 7;
const double EPS = 1e-9;
const double  PI = acos(-1);

mt19937 rng(chrono::steady_clock::now().time_since_epoch().count());

int rand(int x, int y) {
    return uniform_int_distribution<int>(x, y)(rng);
}

int mul(int a, int b){
    int ret = (1ll * (a%MOD) * (b%MOD)) % MOD;
    return (ret+MOD)%MOD;
}

int add(int a, int b){
    int ret = (1ll * (a%MOD) + (b%MOD)) % MOD;
    return (ret+MOD)%MOD;
}

int pow_exp(int n, int p){
    if(!p) return 1;
    if(p&1) return mul(n, pow_exp(n, p-1));
    int tmp = pow_exp(n, p/2);
    return mul(tmp, tmp);
}

const int  MAX = 2e5 + 10;
const int NMAX = 2e5 + 10;
const int MMAX = 2e5 + 10;
const int LOG_MAX = ceil(log2(double(NMAX)));
const int BLOCK = ceil(sqrt(double(NMAX)));

int32_t main(){

    fastIO;

#ifdef LOCAL
    freopenI;
    freopenO;
```

```
#endif

    // freopen("name.in", "r", stdin);

    int t; cin >> t; while(t--){


    }
}

```