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Statement

Submissions

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Top users by time

#	User	Time
1	Raphela	162 ms
3	yusuf601	178 ms
4	nandonathaniel	225 ms
5	SunShine11	403 ms

Top users by memory

#	User	Memory
1	Raphela	4940 KB
2	yusuf601	5200 KB
3	nandonathaniel	5416 KB
4	AhmadRomy	14956 KB

Submission #4668824

Arkavidia 9.0 - Penyisihan CP / C. Cicip Cokelat

Accepted • yusuf601 • C++20 • December 2, 2025 at 20:36:42

▶ Sample Test Data Results

▶ Test Data Results

```cpp
#include <bits/stdc++.h>
using namespace std;

typedef long long ll;
const ll MOD = 998244353;
const ll g = 3;

ll power(ll a, ll b, ll mod = MOD) {
    ll res = 1;
    a %= mod;
    if (a < 0) a += mod;
    while (b > 0) {
        if (b & 1) res = res * a % mod;
}

ll mod_inverse(ll a) { return power(a, MOD - 2); }

void ntt(vector<ll>& a, bool invert) {
    int n = a.size();
    for (int i = 1, j = 0; i < n; i++) {
        int bit = n >> 1;
        for (; j & bit; bit >>= 1) j ^= bit;
        j ^= bit;
        if (i < j) swap(a[i], a[j]);
    }
    for (int len = 2; len <= n; len <<= 1) {
        ll w = invert ? mod_inverse(g) : g;
        w = power(w, (MOD - 1) / len);
        for (int i = 0; i < n; i += len) {
            ll wn = 1;
            for (int k = 0; k < len / 2; k++) {
                ll u = a[i + k];
                ll v = a[i + k + len / 2] * wn % MOD;
                a[i + k] = (u + v) % MOD;
                a[i + k + len / 2] = (u - v + MOD) % MOD;
                wn = wn * w % MOD;
            }
        }
    }
    if (invert) {

int main() {
    ios_base::sync_with_stdio(false);
    cin.tie(NULL);

    int N, K; ll M;
    cin >> N >> M >> K;

    vector<ll> f(size, 0);

    for (int i = 0; i < N; i++) {
        ll a; cin >> a;
        f[(i + 1) % size] = (f[(i + 1) % size] + a) % MOD;
        total = (total + a) % MOD;
    }

    ntt(f, false);
    for (int i = 0; i < size; i++) f[i] = power(f[i], M);
    ntt(f, true);

    ll inv_denom = mod_inverse(power(total, M));

    for (int j = 1; j <= size; j++) {
        ll prob = f[j == size ? 0 : j] * inv_denom % MOD;
        cout << prob << (j < size ? " " : "\n");
    }
    return 0;
}
```